

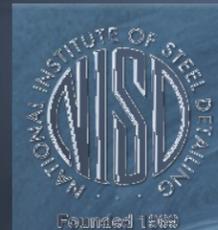
**DESIGN ENGINEERING THROUGH INNOVATION**

Our Company

We are a premiere Engineering, Connection Design and Industrial Steel detailing company which provides Professional engineering services for the Civil, Structural, mechanical and piping disciplines as well as completed shop drawings and stamped calculations. Equipped with a talented Professional staff that will plan, layout, design, engineer and detail multiple projects.

Our staff of 53 Professional steel detailers, 42 checkers, connection design engineers and 5 Registered Engineers has brought our company to its current strong position within the Industrial Industry. Combined we bring numerous years of Professional experience to the Engineering, design, and steel detailing industries.

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**PSDESIGN<sup>®</sup>**  
PRECISION STEEL DETAILING, INC.

Committed to Excellence

## Engineering

PSDESIGN brings experience and expertise to every project. The engineering process always begins with a careful assessment of the client's needs, schedule, budgetary concerns, and vision for the project.

Following, we use our skill and collaboration to devise creative solutions to the engineering challenges we may face.

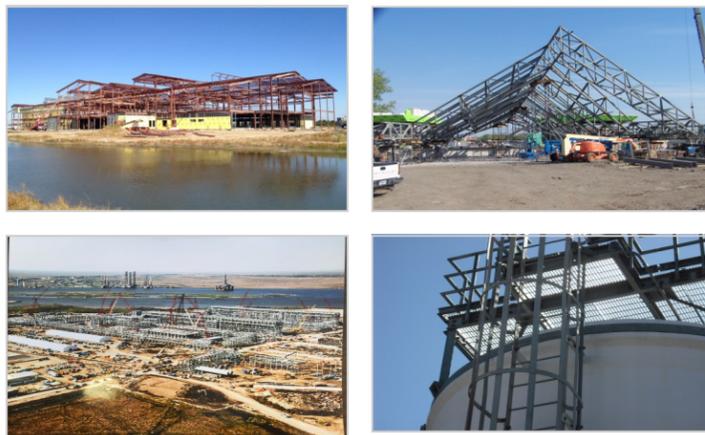
PSDESIGN Engineering is an established practice and are experts in the field of civil/structural engineering design services.

Our company offers our engineering design services to Petro-chemical plants, fertilizer plants, refineries and municipalities.

### **Civil & Structural Engineering Design Services**

- Concrete Slab, Foundation Design and Foundation drawings
- Land and Structure Survey
- Tank Farm, Containment Dikes
- Structural Analysis
- 3D Modeling
- Equipment Support Structure Design
- Structural Dynamic and Vibration Analysis
- Stairways ,Ladders, Platform, and Egress Design
- Pipe Supports and Pipe-rack Design
- Structural Integrity Analysis for Existing Structure
- Monorail and Hoist Load Rating
- Replace in kind and Retro-fitting

We are committed to providing a high-quality standard in all of our work. We test the limits of structural design because we aim for continuous improvement.



## Structural Steel Detailing

Our detailing, checking and connection design teams have completed multiple 22,000 tons projects through the years and continue to be asked to perform additional projects for upcoming LNG and Facility expansions.

Our capabilities are offered to fabricators for:

- Manufacturing Plants,
- Refinery & Petrochemical Projects,
- Power Plants,
- Offshore Platforms,
- Institutional Buildings,
- Technological Structures,
- Boiler Support Structures,
- Tower Projects, etc.

We pride ourselves in being a top Steel detailer in the US.

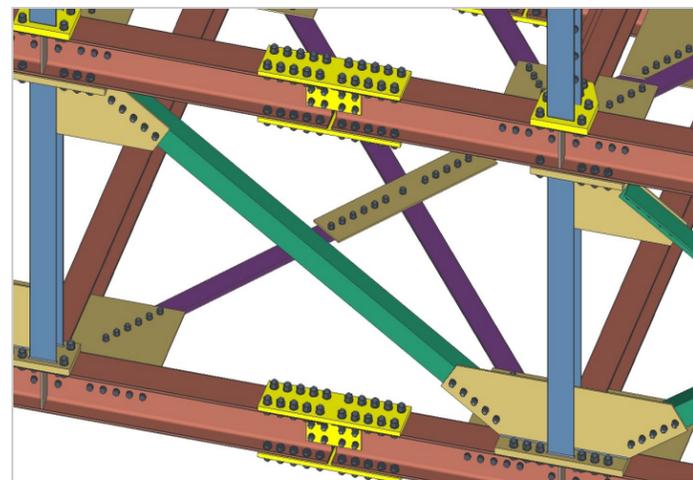
## Connection Design

The team consists of engineers who hold degrees in civil/structural engineering, mechanical engineering and project managers with both shop and detailing experiences and combined, have many years of technical expertise and on-the-job experience. Our Engineers are registered in multiple states.

### **Our offerings include:**

- AISC Specifications Non US-Codes & Shapes
- Standard Connections
- Special Connections
- Miscellaneous Connections
- Engineer Review & Shop Drawings
- FEA for special Connections
- Non Seismic and Seismic

PSDESIGN utilizes Descon, SDS/2, In House MathCAD sheets and ALGOR for designing connections. Through these tools we create a Single 3D model that is used for additions and corrections as per the EOR and through completion of the project. ALGOR software is used for the FEA special connections.



## The Collaborative Approach

### **Reduce Overall Costs**

Allows for assistance in determining framing layouts, member selection, and connection details that are friendly to both fabricator and erector, resulting in reduced shop and field labor costs.

Provides for closer coordination with supplier and steel mills regarding shop availability (also has schedule implications)

Creates a working relationship between detailer and engineer for design forces, leading to more economical connection design.

Results in fewer man-hours expended by detailers developing RFT's and engineer responding to them (also has schedule implications).

### **Enhanced Quality of Work**

A portion of the schedule improvement could translate into extended engineering time for further checking and refinement of design' electronic Data Interchange dramatically reduces the potential for errors.

Early detailer review of the design drawings will minimize omission of necessary information. The working relationship it creates between detailer and engineer will eliminate guesswork regarding the engineer's intent.