

THE STINGER WELDING PROJECT

Project Funding Sources

Lincoln County Port Authority
\$3,200,000

Stinger Welding
\$3,800,000

Montana Department of Commerce
Joint Lincoln County & Libby CDBG
\$800,000

Montana Department of Commerce
Big Sky Trust Fund
\$719,500

Montana Department of Commerce
Montana Board of Investments
Infrastructure Loan
\$3,366,500

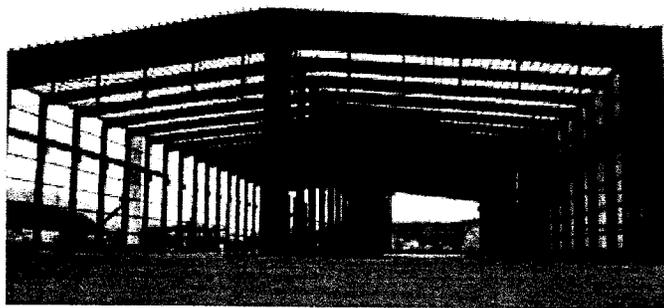
Montana Department of Commerce
Workforce Training Grant
\$1,020,000

Results

202 Manufacturing Jobs

THE BUZZ

Quarterly News from **STINGER**, Welding, Inc.



Pacific Northwest Expansion!

Since Stinger Welding, Inc. opened its doors in 1996, the goal has always been to grow the company to take advantage of as much of the bridge steel fabrication market as possible while continuing to maintain quality of product. Upon developing the facility in Coolidge to a size capable of fabricating the largest of projects, SWI realized the market in the Pacific Northwest could utilize Stinger Welding's competitive steel production. Stinger leased an old lumber mill and retrofitted the facility with the proper equipment allowing SWI to start the long awaited expansion in early 2009. Stinger is currently producing fabricated steel for projects in Northern California, Washington, and Montana.

Stinger is further expanding their facility in Libby, Montana, which will more than quadruple the fabrication space for the Montana division. At an impressive 500 ft x 200 ft x 55 ft the building provides an all inclusive open

space all for Stinger Welding's fabrication needs. Inside, the new structure is equipped with six overhead cranes in two separate bays. The cranes in Bay one possess a massive 150,000 lb picking capacity while the cranes in bay two double that capability with a picking capacity of 300,000 lbs. The cranes are able to reach all 100,000 square feet of the new shop floor. The floor itself is temperature controlled with a radiant floor heating system ensuring the shop can remain functional and properly conditioned during the cold Montana winters. Sixteen bi-parting hanger style doors allow entry into the expansive shop and are mechanically controlled to facilitate ease of operation. Finally, the adjacent 4,800 square feet of office space adequately houses the management staff as well as break facilities for all shop employees. When the new facility is finally complete, Stinger Welding will utilize the added capacity to expand their services in the Pacific Northwest.

Table of Contents

Featured Projects	2-6
Mine and Industrial Work	7
Bridge Inspection and Repair Work	8
Engineering and Detailing	9



Libby, MT shop fabricating truss for the new Pablo Pedestrian Bridge in Montana.



The new Happy Hollow Park cable suspension bridge located in San Jose, CA (currently under construction) spans approximately 750 feet, forming a visually stunning new link to the park. Fabricated by Stinger Welding Inc.



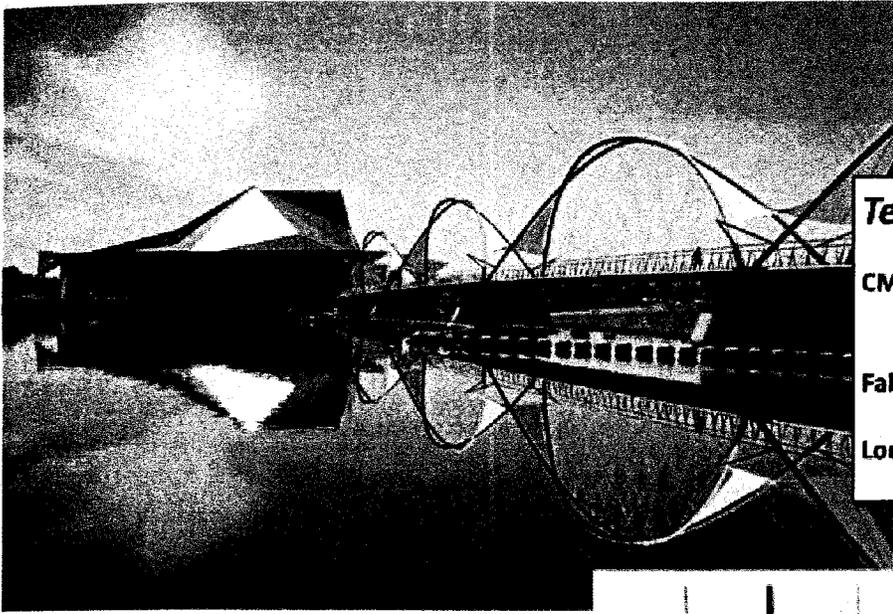
FEATURED PROJECT

Tempe Town Lake Pedestrian Bridge

*CMAR Team: PCL Civil Constructors Inc., City of Tempe,
T.Y.Lin, Stinger Welding Inc.*

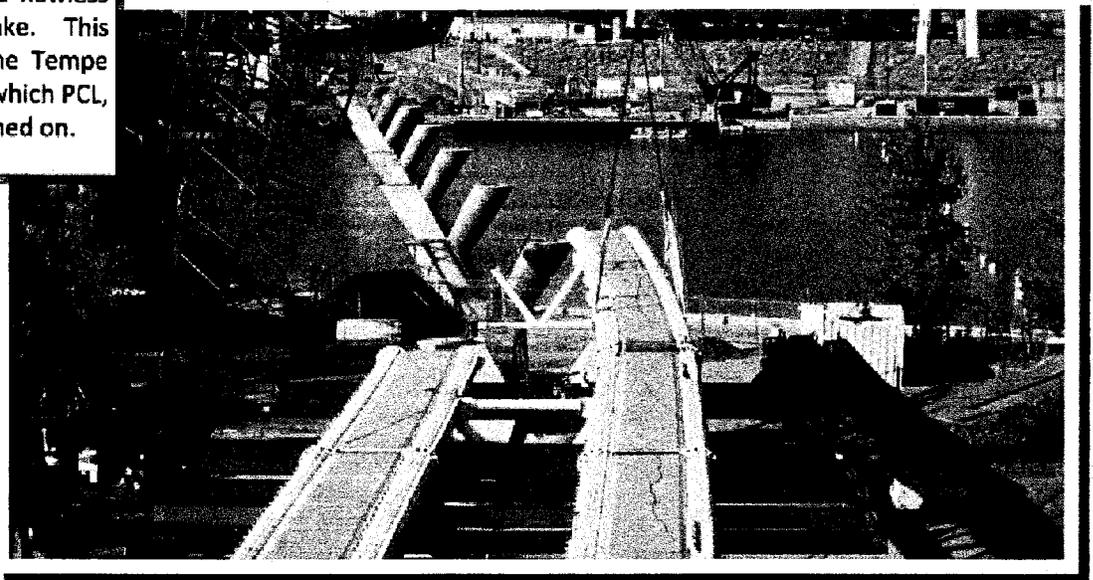
Fabricator: Stinger Welding Inc. - Arizona

Location: Tempe, AZ



Rendering of completed bridge

Stinger Welding is proud to be part of the pedestrian bridge project spanning Tempe Town Lake. This link connects the Tempe Center for the Arts to the pedestrian walk on the north bank of the lake finishing a one mile running path around the lake and provides the only vehicle-free crossing for pedestrians across the lake. The bridge consists of four symmetrical sections each 250 feet long resulting in an attention grabbing 1000 foot bridge with ranging widths from ten to fourteen feet. The bowstring arch design complements the buildings around as well as provides a flawless finish to the end of the lake. This bridge also complements the Tempe Town Lake Light Rail Bridge which PCL, T.Y.Lin, and Stinger also teamed on.



Erection of the Tempe Town Lake Light Rail Bridge

FEATURED PROJECT

4th Avenue Underpass Bridge

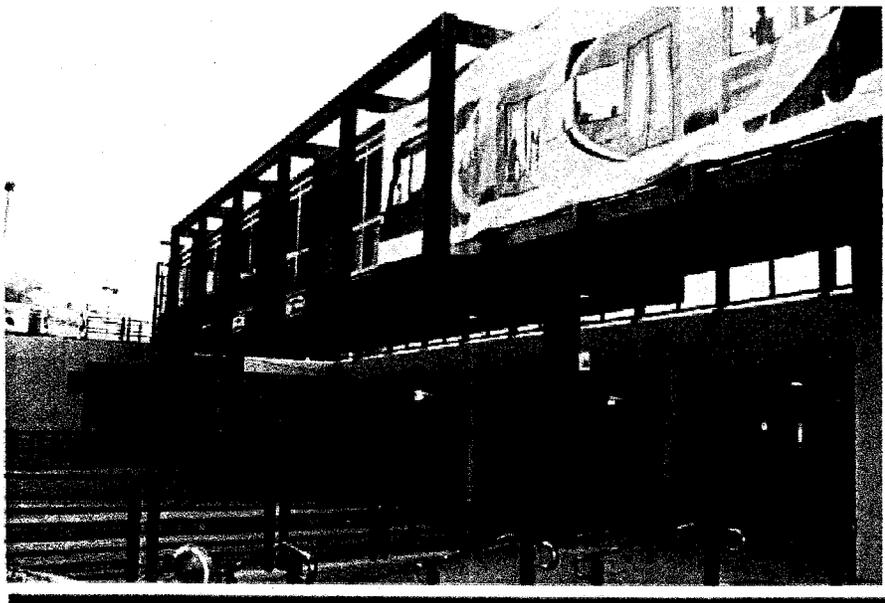
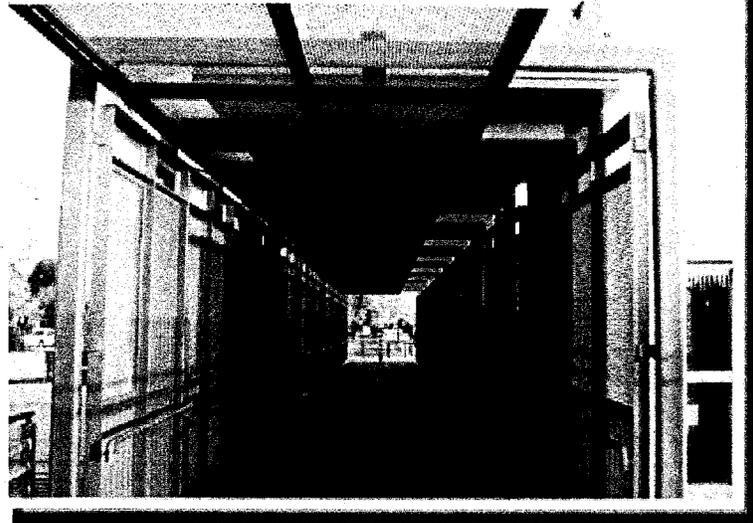
General Contractor: *Sundt Construction Inc.*

Owner: *City of Tucson*

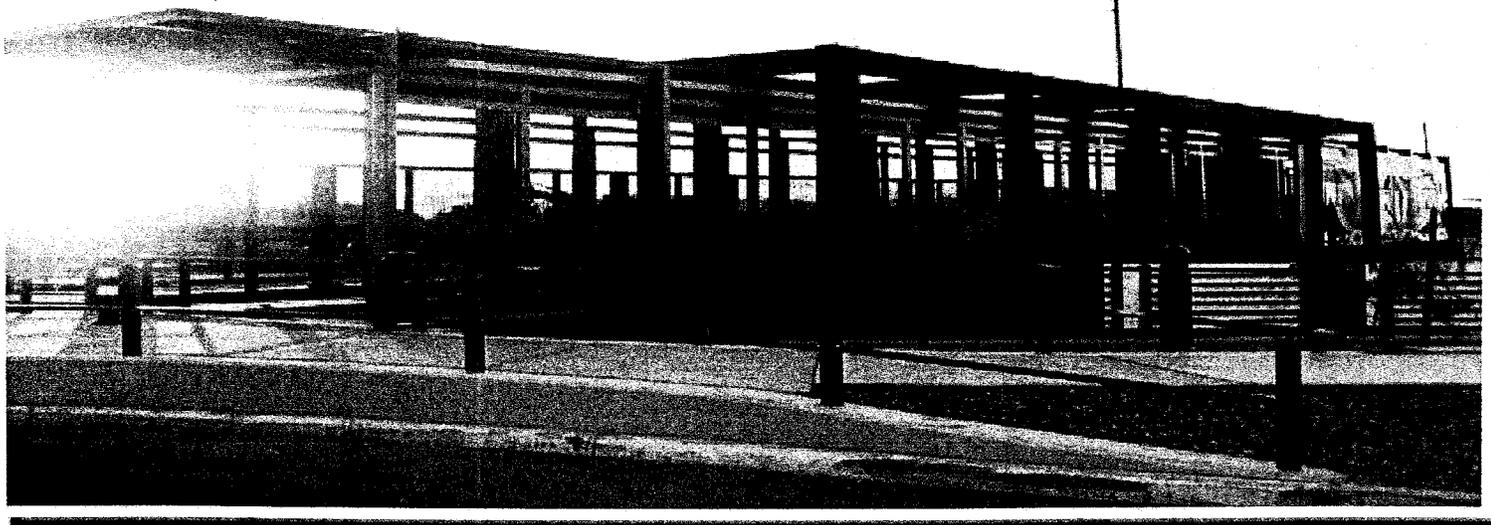
Fabricator/Erector: *Stinger Welding Inc. - Arizona*

Engineer: *TranSystems Corp.*

Location: *Tucson, AZ*



Tucson's renovation of the downtown area included a drastic change to the 4th Avenue underpass. This intersection serves as the main pedestrian and vehicular link between the bustling night life scenes of 4th Avenue and Downtown Tucson making this particular project a centerpiece to the rebirth of Tucson's downtown area. Stinger Welding's role in the project was to supply and erect the pedestrian bridge spanning the underpass. The bridge structure consists of a painted pedestrian walkway enclosure "threaded" through an unpainted, weathering steel vierendeel truss. The structure is 107 ft in length and weighs 128,000 lbs. The Bridge was opened on August 20, 2009.



FEATURED PROJECT

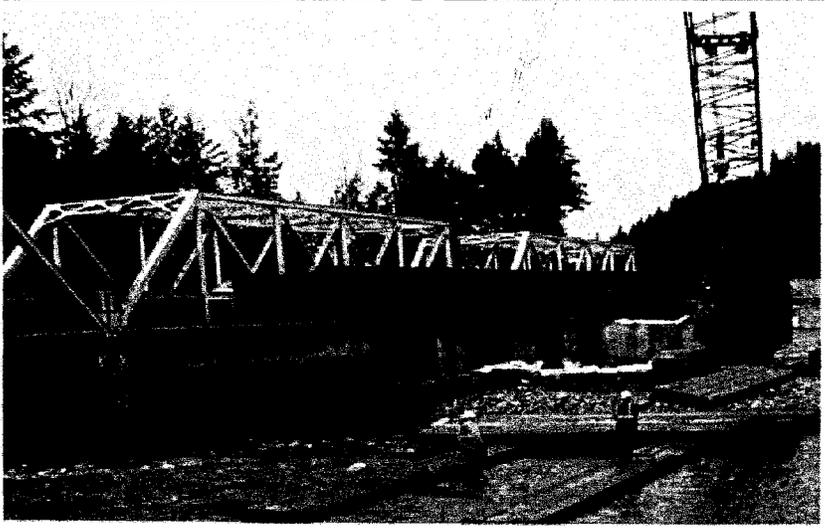
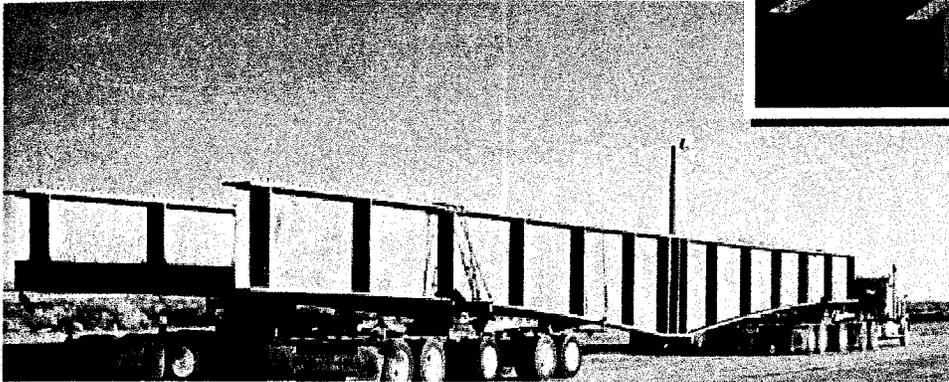
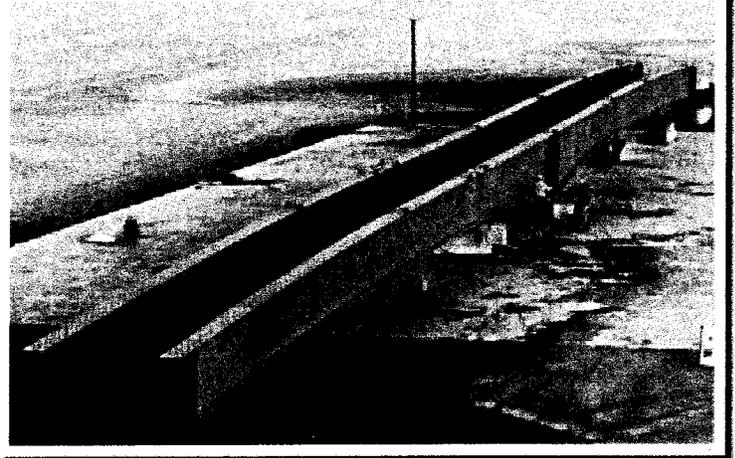
Lightning Creek Vehicle Bridge

General Contractor/Erector: *Sletten Construction*

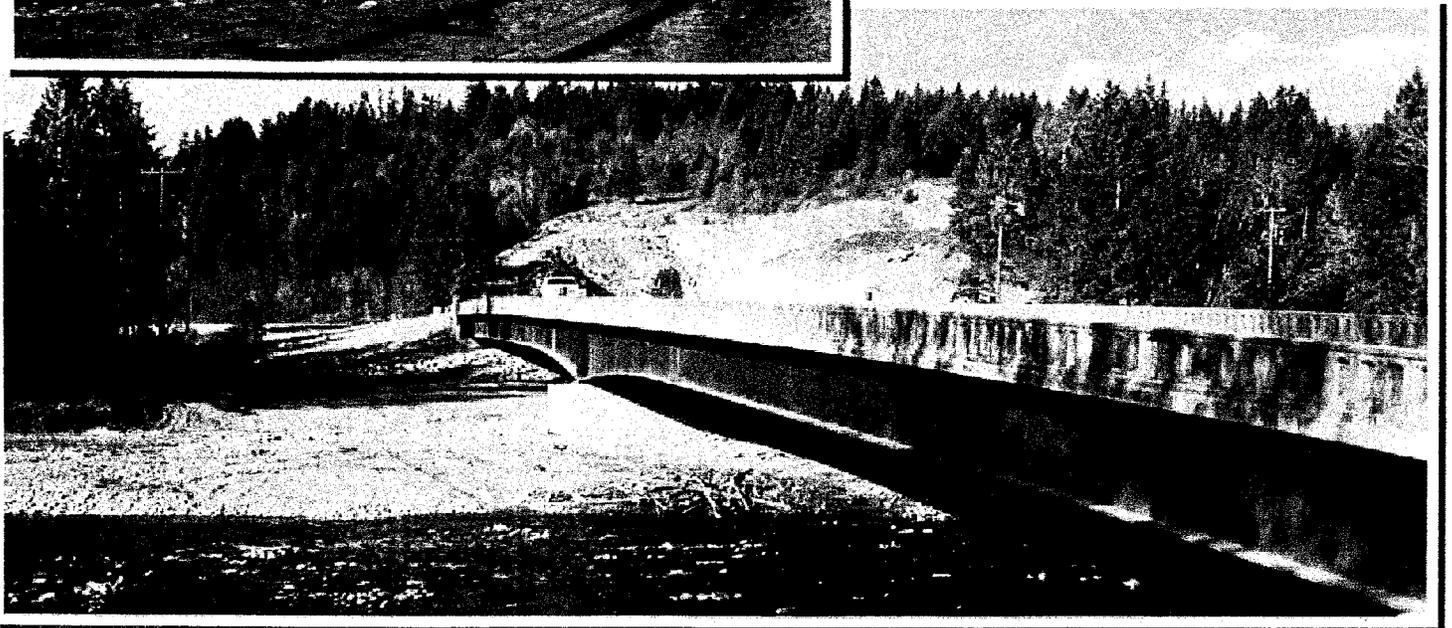
Owner/Engineer: *Idaho Transportation Department*

Fabricator: *Stinger Welding Inc - Montana*

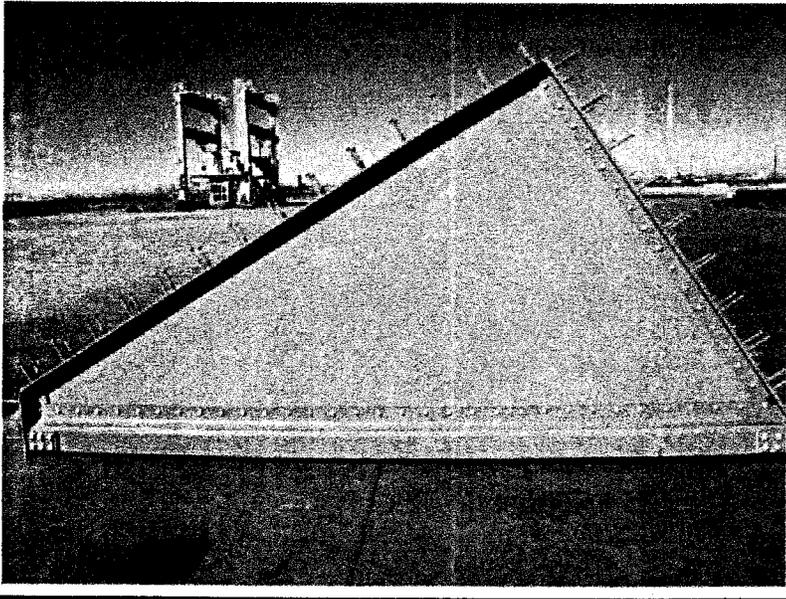
Location: *Clark Fork, Idaho*



The original Lightning Creek Bridge was constructed in 1939 as a through truss structure allowing two lanes of traffic to pass freely over the creek. As the bridge aged to structural inadequacy, the county needed a new solution to maintain traffic. Stinger Welding provided the steel girders for Sletten Construction. The new bridge consists of four plate girders made from weathering steel side by side crossing two spans of 210 feet. The removal of the original bridge combined with the low profile of the new structure allows for open views of the surrounding hills.



FEATURED PROJECT



Doyle Drive/Presidio Parkway

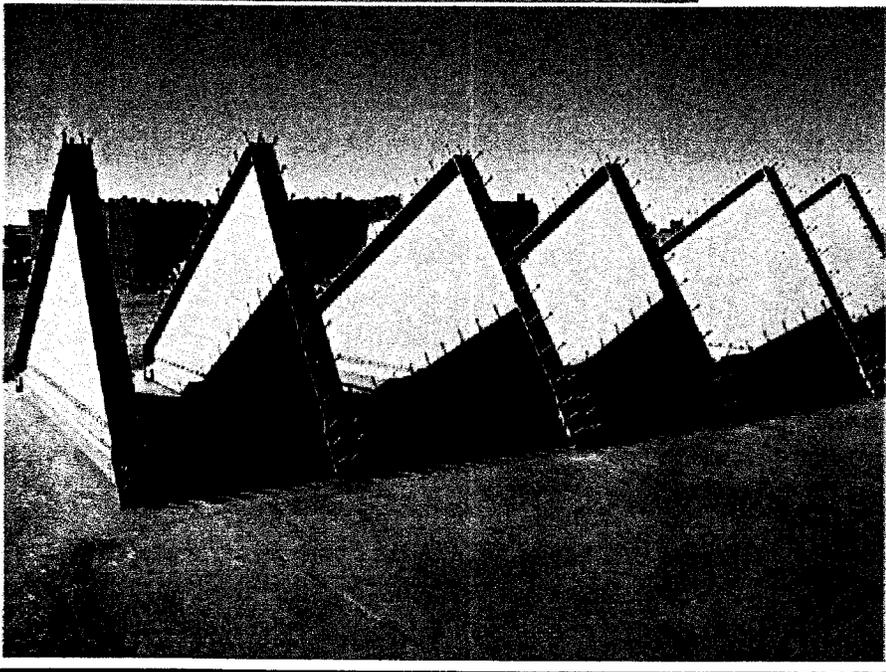
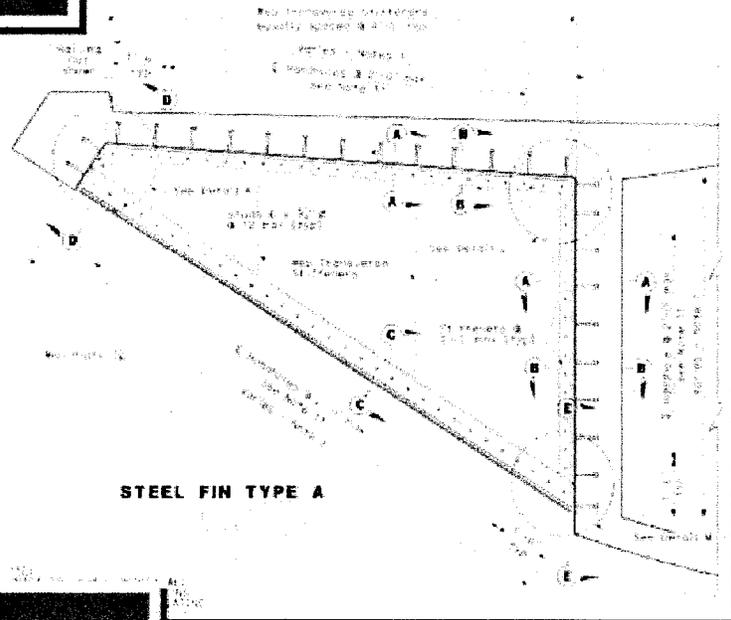
General Contractor: *CC Meyers Inc.*

Owner/Engineer: *CALTRANS*

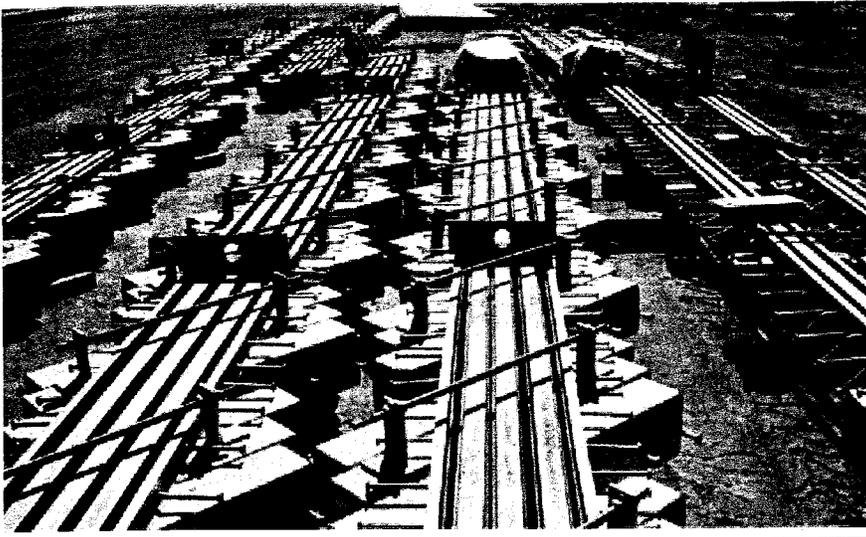
Fabricator: *Stinger Welding Inc. - Arizona*

Location: *San Francisco, CA*

In December 2009, Stinger Welding was given the go ahead by C.C. Meyers to begin work on the CALTRANS State Highway Route 101 project in San Francisco. The project encompassed the construction of a permanent roadway section, the Southbound Presidio High Viaduct Bridge, the Southern Park Presidio Interchange, and the Ruckman Undercrossing. Stinger was hired to detail and fabricate 9,100 LF of California standard handrail as well as 541,000 lbs of structural steel fins shown pictured on this page. Stinger's fabrication shop has been working incessantly on the steel fins since award of the project. The steel fins are to be strategically distributed throughout the edges of the bridge to improve structural integrity and complement the historic architecture of the Presidio.



FEATURED PROJECT



Single and three center beam modular expansion joints for Kiewit Construction in Redding, CA.

Expansion Joints

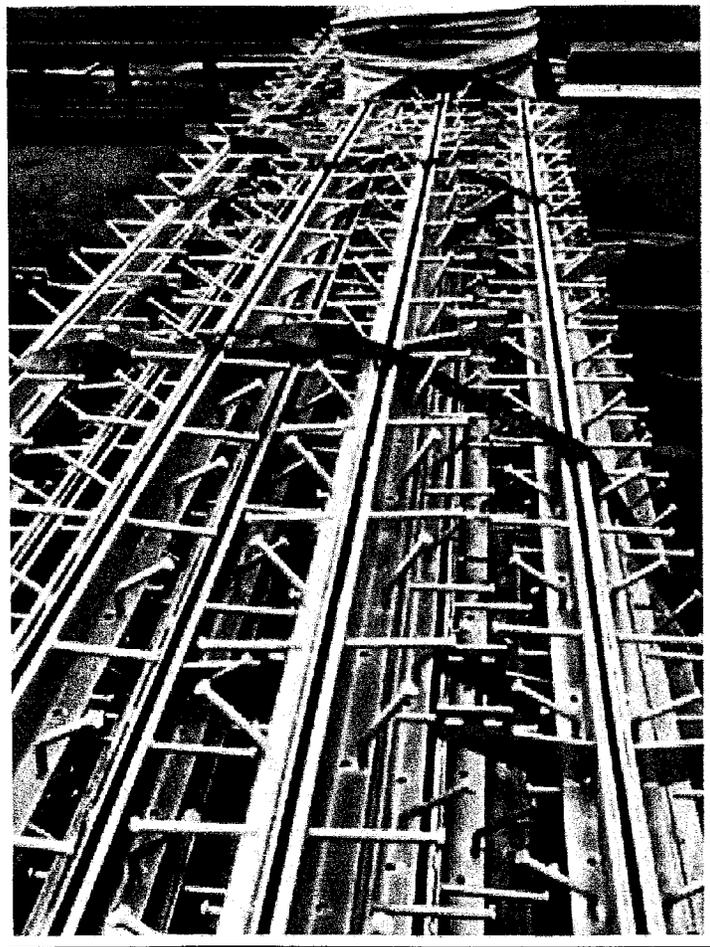
Stinger's expertise in the fabrication of deck joint assemblies has earned them a notable reputation as one of our nations top steel fabricators. SWI is equipped to engineer any number of custom expansion joint configurations including:

- Modular Expansion Joints
- Strip Seal Assemblies
- Compression Seal Assemblies
- Plate Joint Assemblies
- Finger Joint Assemblies

Stinger Welding Inc specializes in the fabrication of deck joint assemblies and continues to excel at what they do best.



Finger Joint Expansion Device post fabrication being shipped to Oklahoma for installation.



Sign Structures

Stinger Welding Inc. is certified to fabricate and install a variety of overhead sign structures including:

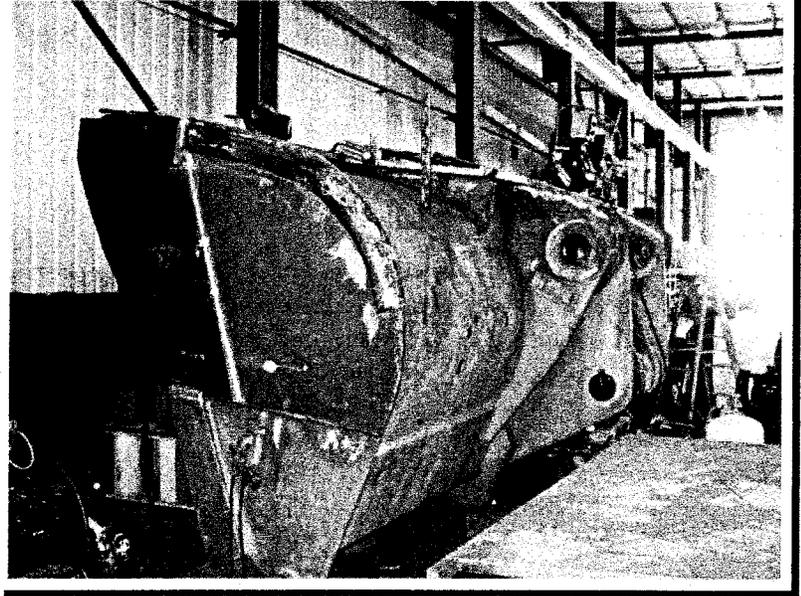
- Cantilever
- Truss
- Tubular
- Lightweight

Recently, Stinger finished a project for Graybar Electric involving a 20,000 LB cantilever sign structure in Montana.

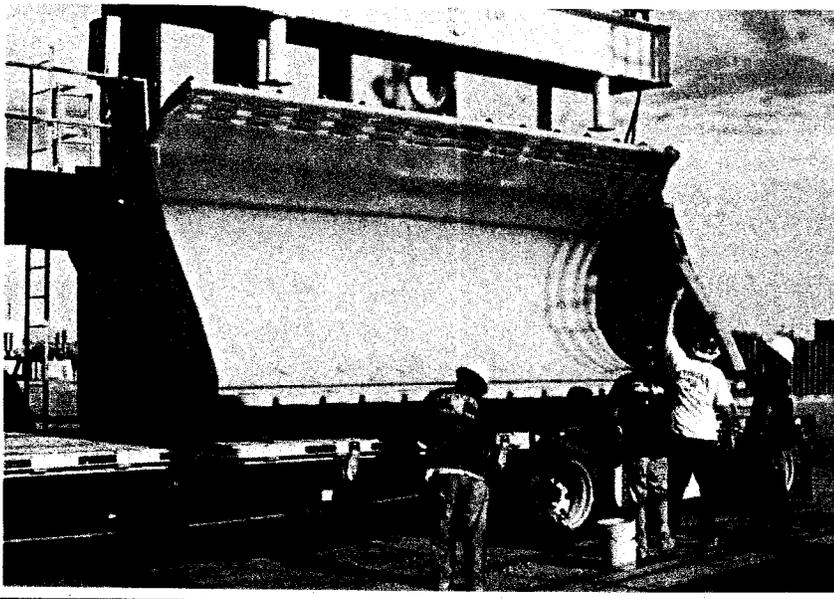
994 Loader Bucket Repair

Stinger Welding provides a wide variety of services and recently expanded their scope of work to include repairs for mining and industrial companies. To the right is a 994 loader bucket that was brought to Stinger in need of major restoration. Stinger Welding inspected the loader bucket for critical fractures and areas of severe wear. Once in shop, Stinger replaced the entire bucket lip and teeth assembly as well as installed extra reinforcing steel plates in lieu of the current wear plates. Stinger also repaired several cracked regions, adding new steel plates to increase durability and completed a line boring to repair and realign pin connections. Once completed, Stinger sand blasted and painted the bucket resulting in the final product pictured below. Stinger has performed a number of comparable bucket repair jobs and is avidly developing services to encompass all aspects of the growing mining and industrial trade.

MINE & INDUSTRIAL WORK



BEFORE



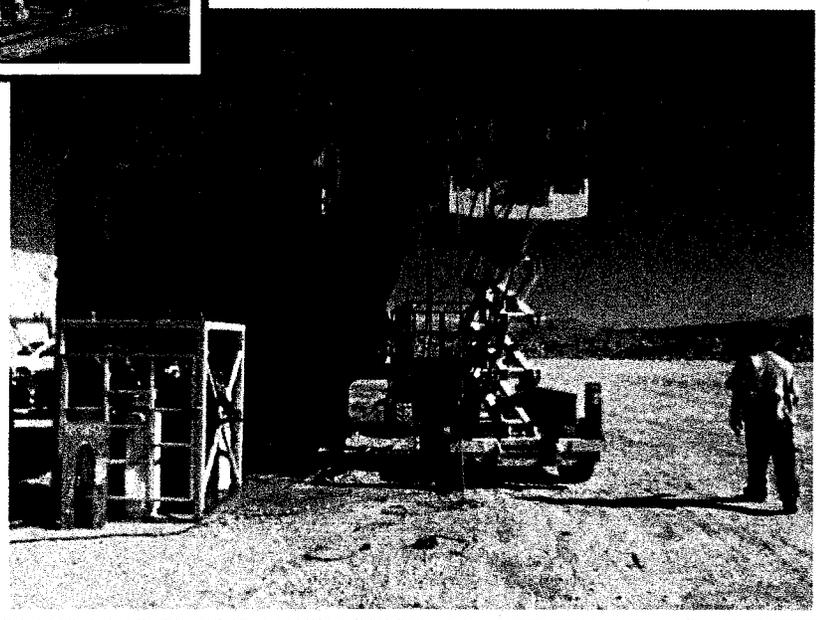
AFTER

Mine Services

- Modify Shovel and Loader Buckets
- New Lips, Wear Plates, Adapters
- Repair Truck Beds
- Hardface Equipment

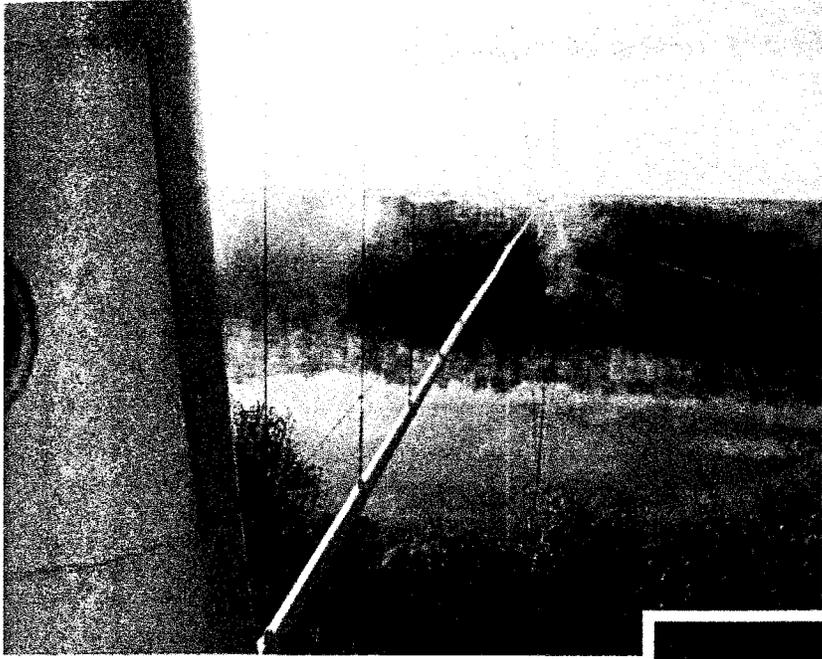
Industrial Services

- Repair Machinery
- Modify Buildings
- Platforms and Handrail
- Re-Sheet Containers
- Repair Steel Tanks



Shovel Bucket Modifications

BRIDGE INSPECTION & REPAIR WORK

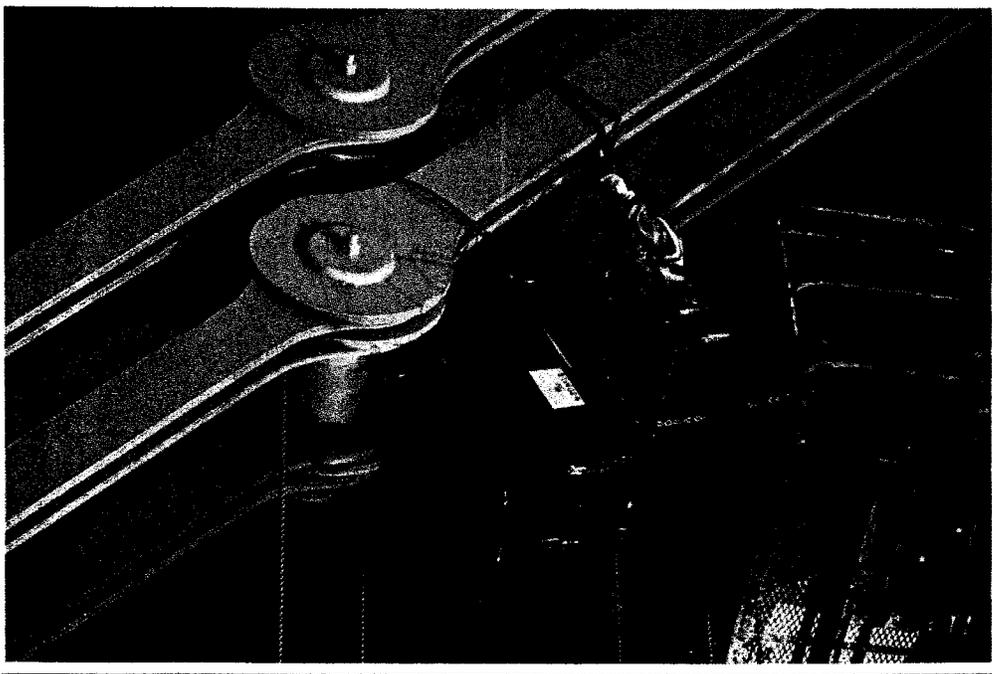
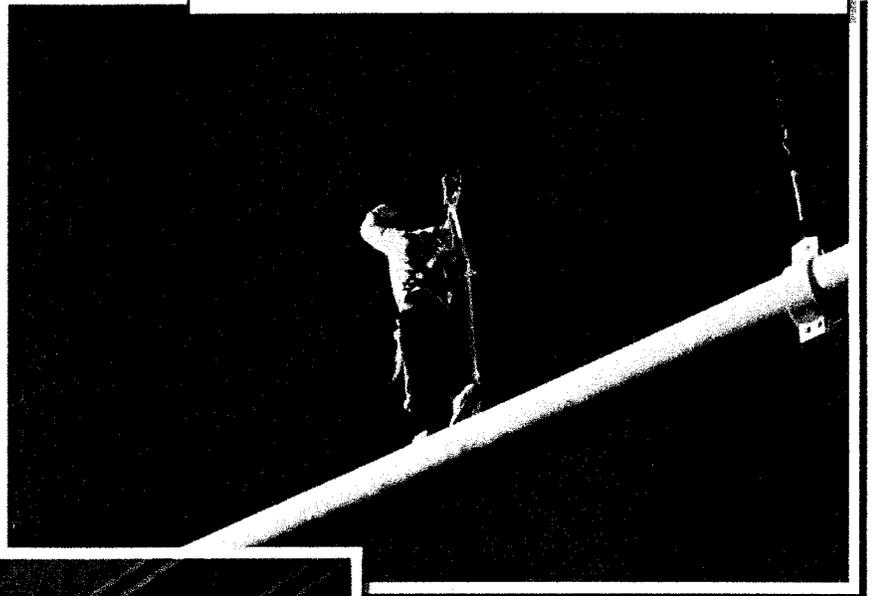


Chesapeake & Delaware Canal Pipeline Bridge Inspection

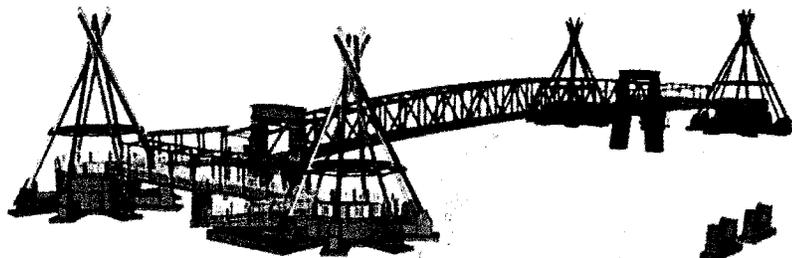
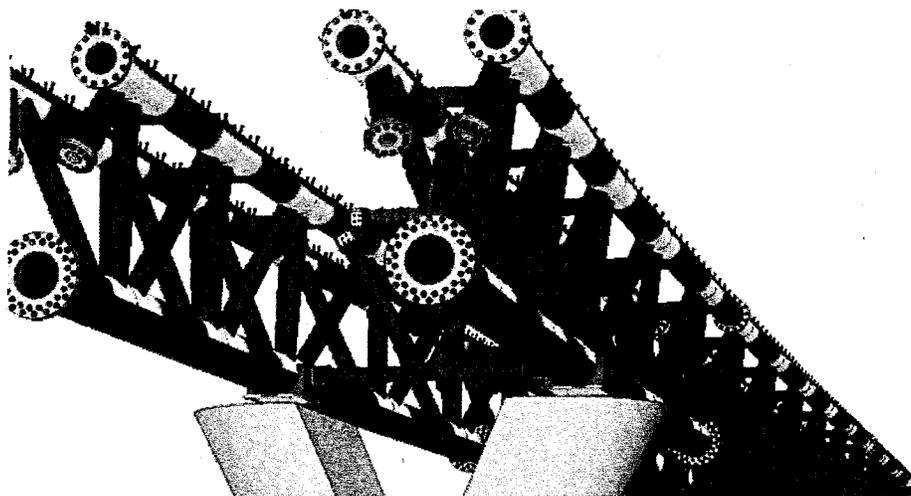
ClearSpan Engineering Inc. teamed with Stinger Welding Inc. to participate in a thorough inspection of the Chesapeake & Delaware Canal Pipeline Bridge. Three members of the SWI engineering team flew to Chesapeake for the on-site inspection. Two engineers performed a detailed walk through of the two 150 ft towers, while the other safely scaled the 1,200 ft long pipeline spanning the entirety of the channel. Photo documentation allowed for post site visit assessment of the existing conditions and supplemented the project report. Stinger is excited about future inspections and will participate in repairs and maintenance of these bridges.

Oakland Bay Bridge Emergency Repair

While the SF-Oakland Bay Bridge was closed for installation of the 3 million pound Stinger fabricated truss, a major crack was found elsewhere on the bridge. Stinger went into action to fabricate and deliver 18,000 pounds of repair assemblies in 24 hours to allow the bridge to open on time. Note crack on tension bar.

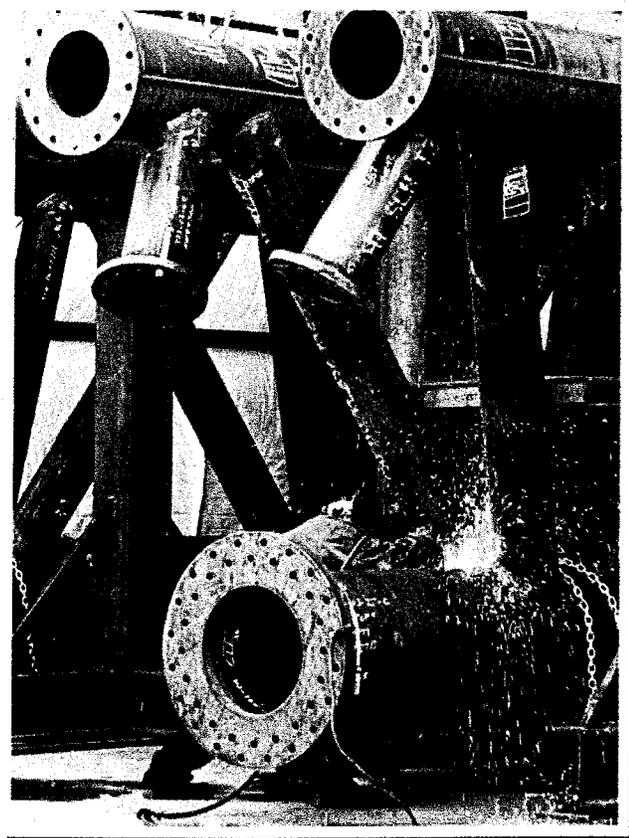
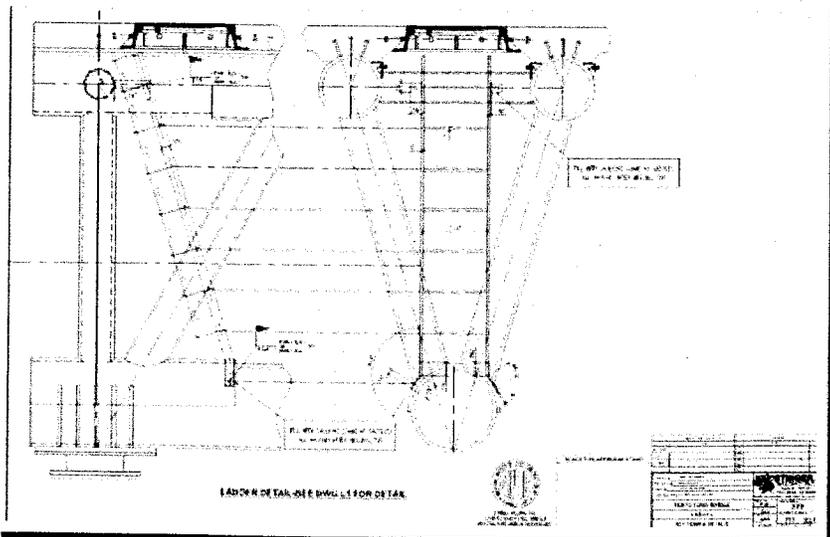


ENGINEERING AND DETAILING



TEKLA Drawings of Tempe Town Lake Light Rail and Pablo Pedestrian Bridge

One key component to Stinger Welding's ability to expedite the job process from start to finish is the in-house engineering and detailing departments. Working in unison with the project engineer, Stinger Welding's engineering department provides full service engineering and detailing for design builds, project plans and shop drawings. Having a staff of both Professional Engineers as well as Engineers-in-Training equips Stinger Welding with a unique blend of experience and ambition driving each project forward. Using the cutting edge detailing software, TEKLA, our detailing department in Mumbai, India, is able to work during our nights in order to provide quick and accurate drawings.



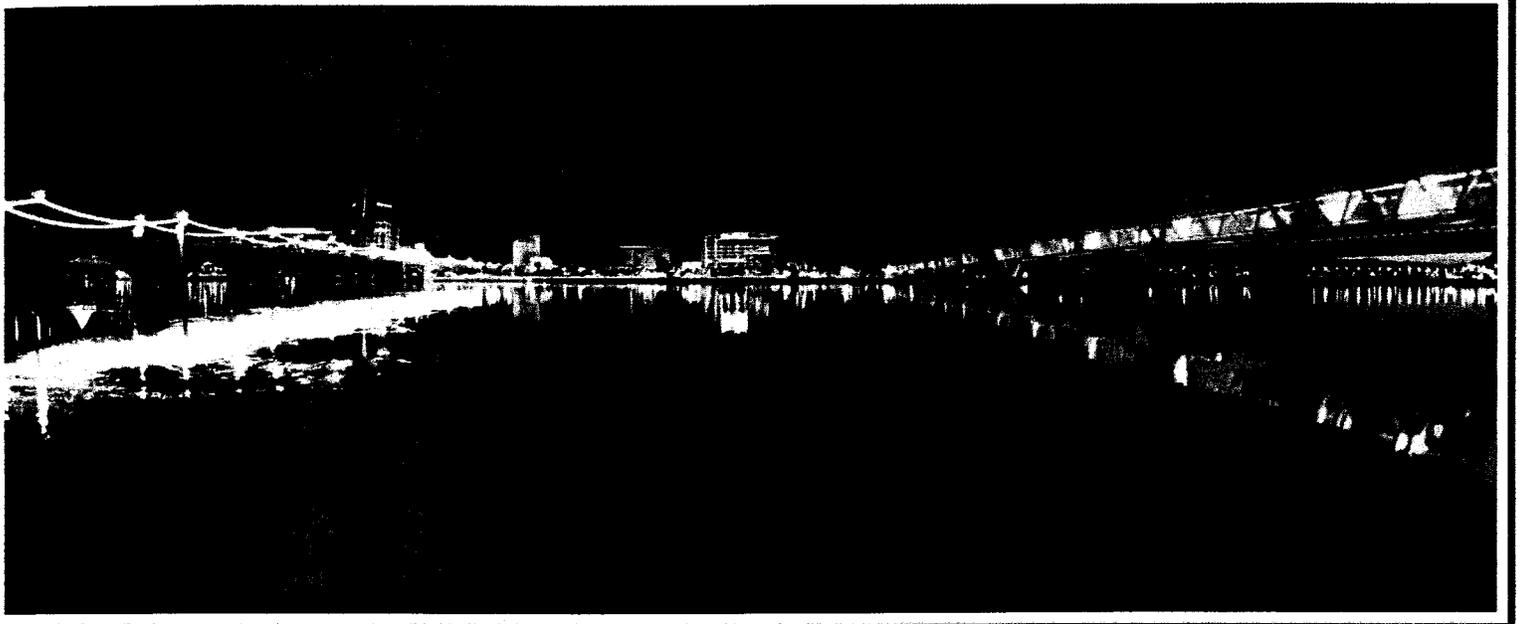


Photo of Tempe Town Lake Light Rail by Grant Brummett

CERTIFICATIONS

AISC Certified Fabricator of Simple and Major Steel Bridges with Fracture Critical Endorsement

- Simple Steel Bridges (SBR)
- Major Steel Bridges (CBR)
- Bridge Component Standard (CPT)
- Fracture Critical Endorsement (F)
- Sophisticated Paint Endorsement-Covered (P2)
- Sophisticated Paint Endorsement-Exposed (P3)

AWS Certified Welding in accordance with:

- D1.1 - Structural Steel - including T-Y-K connections
- D1.2 - Structural Aluminum
- D1.3 - Structural Sheet Steel
- D1.4 - Structural Reinforcing Steel
- D1.5 - Bridge - including fracture-critical
- D1.6 - Structural Stainless Steel



Stinger Engineering group has a professional license in all major states of the US (AZ, CA, CO, FL, ID, IL, MS, MO, MT, NV, NJ, NM, NC, OR, SC, SD, UT, WA, WV, WI, WY) and is affiliated with ASCE, AISC, NSBA, AWS, and AZ-AGC.

STINGER

WELDING INC.

Corporate Office
P.O. Box 280
4248 Highway 87
Coolidge, AZ 85228
Tel: 520-723-5383
Fax: 520-723-7084

Montana Facility
60 Port Blvd Suite T2
Libby, MT 59923
Tel: 406-293-6330

www.stingerbridge.com
www.deckjoint.com

