PROJECT CASE STUDY / SCHOOL DISTRICT · DESIGN-BUILD FABRICATION

Crawford High School Stadium & Athletic Facilities

4191 Colts Way, San Diego · San Diego Unified School District

Project CZ-15-0895-29 · Prime Contractor: T.B. Penick & Sons, Inc.



The school's name and its colt, cut from steel and built into the fence itself — not a sign hung on it. Galvanized, powder coated, and standing on the ridge above the stadium.

OWNER
San Diego Unified School District

PRIME CONTRACTOR
T.B. Penick & Sons, Inc.

ARCHITECT
LPA

IN-LINE ROLE
Design-build: draw, cut, coat, install

SPECIFICATIONS
32 31 19 · 05 52 13 · 08 71 00

AGREEMENT
Project Stabilization Agreement

THE PROJECT

San Diego Unified rebuilt the stadium and athletic facilities at Crawford High School. In-Line's scope was every piece of steel fence, gate and railing on the site — and the school's identity, built into it.

T.B. Penick & Sons held the prime contract. In-Line was issued a letter of intent on **5 June 2015** under a fast-track schedule, with a complete submittal package requested within ten days.

The address tells you what mattered. Crawford High School sits on **Colts Way**. The mascot is a colt. And the thing everybody driving past would see was going to be a fence.

WHY IT WAS HARD

The lettering is the fence. It is not a sign on the fence.

Look at the photograph again. **CRAWFORD HIGH SCHOOL** and the rearing colt are cut from steel plate and integrated into the picket line itself — reading against the sky, spanning multiple panels, sitting on a slope, following a fence that changes direction.

That is not a fence with signage attached. It is a single fabricated assembly that has to work as a barrier, as typography, and as a silhouette, all at the same time. Letters have to keep their spacing across panel joints and post lines. The colt has to read as a colt from a moving car at two hundred feet.

In-Line drew it, submitted it, revised it, and cut it — **design-build, in our own shop.**

Galvanized, then powder coated — a duplex system

Every piece was hot-dip galvanized after fabrication, and then powder coated. That combination is called a **duplex system**, and it is the longest-lived coating available on steel: the powder coat carries the colour and takes the sunlight, the zinc underneath keeps protecting the steel even where the coating is chipped or drilled.

On a high school, in the sun, next to a stadium, for the next forty years — that is the only honest answer. Here is why we do it that way.

Three specification sections, one subcontractor

Steel fences and gates. Pipe and tube rails. Gate hardware. In-Line carried all three — ornamental fence and panic gates, vehicular gates, corrugated metal gates, decorative railing, handrail, guardrail, cable rail, ramp railings, and the lettering package — under one contract and one submittal register.

DSA, LPA, and a district that checks

California school construction is reviewed by the **Division of the State Architect**. Every drawing goes through the architect and back through DSA. In-Line's package included **certified welding procedures and welder certifications**, and submittals were revised and resubmitted until LPA and the district signed them off.

Nothing about a school is approved quickly, and nothing about a school should be.

WHAT IN-LINE DELIVERED

- **Custom laser-cut lettering** — CRAWFORD HIGH SCHOOL, fabricated into the fence line.
- **The colt mascot**, cut from plate and integrated into the same assembly.
- **Ornamental steel fence and gates** throughout the stadium and athletic complex, Specification 32 31 19.
- **Panic-hardware gates** — egress from an assembly occupancy, Specification 08 71 00.
- **Vehicular and corrugated metal gates.**
- **Pipe and tube railing** — handrail, guardrail, decorative railing and ramp railings, Specification 05 52 13.
- **Cable rail systems** including added runs directed in the field.
- **Hot-dip galvanizing and powder coating** — duplex coating on the full package.
- **Certified welding procedures and welder certifications** submitted and approved.
- **A signed In-Line warranty** at completion.

SCOPE AT A GLANCE

Design-build | Laser-cut lettering | Custom mascot fabrication | Ornamental steel fence | Panic gates | Vehicular gates | Corrugated metal gates | Handrail & guardrail | Cable rail | Galvanized + powder coat | Certified welding

3
Specification sections carried

2
Coatings — zinc, then powder

1
Shop: drawn, cut, coated, installed

10 days

To full submittal package from LOI

Reviewed by the architect, the district and the Division of the State Architect. Delivered under a Project Stabilization Agreement with core workforce registration, letter of assent and pre-job conference requirements.

THE RESULT

Students walk past their own name in steel every day. It is legible from the road, it will not fade, and the coating under the colour is still working long after the colour stops being the point.

Twelve thousand schools in California have a chain link fence. This one has an identity.

Any fence company can enclose a stadium. Cutting a school's name into the thing that encloses it is a different order of work — and we drew it, cut it, coated it and set it ourselves.

WHY SCHOOL DISTRICTS CALL IN-LINE

A campus fence is the most-looked-at object a district builds. It is also a life-safety element, an egress path, and a security boundary.

- **We design-build.** Give us intent and we will draw it, detail it, submit it, cut it and install it — logo, lettering, custom picket, whatever the campus needs to look like itself.
- **We coat it to outlast the bond measure.** Hot-dip galvanized after fabrication, powder coated over it. Colour when you want it, zinc underneath forever.
- **We carry the whole steel scope.** Fence, gates, panic hardware, handrail, guardrail, cable rail — one submittal register, one crew, one warranty.
- **We survive DSA.** Certified welding procedures, certified welders, architect review, and as many resubmittals as the reviewer needs.
- **We work on live campuses.** Around students, on a school calendar, with the same morning safety discipline we run on a federal base.

- **We are certified, bonded, signatory, and safe.** DBE · SBE · SLBE · SB · HUBZone · SBA 8(a). Union affiliated, Local 89 & Local 12. CSLB C-13, C-51, C-32. Bonded through Old Republic Surety, rated A+ XV. **EMR 0.68.**

San Diego Unified, Los Angeles, Cabrillo Community College District, the University of California, County of Los Angeles, Caltrans, SANDAG, MTS, SDG&E, and four branches of the armed services. One standard.

HAVE A PROJECT LIKE THIS?

In-Line Fence & Railing has built fence, railing, and guardrail for Southern California public works, utilities, school districts, and government agencies since 1990.

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