



BDSTRUCTURALDESIGN

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BDSTRUCTURALDESIGN

If you want flawless plans delivered on time, on budget, every time, it is not enough to simply establish good policies and procedures.

The key to your success and that of your customers lies with the people you choose to work with.

You need a team...

A SPECIAL TEAM

One that has seen everything the industry can throw at it and that still delivers on time, on budget, and error free.

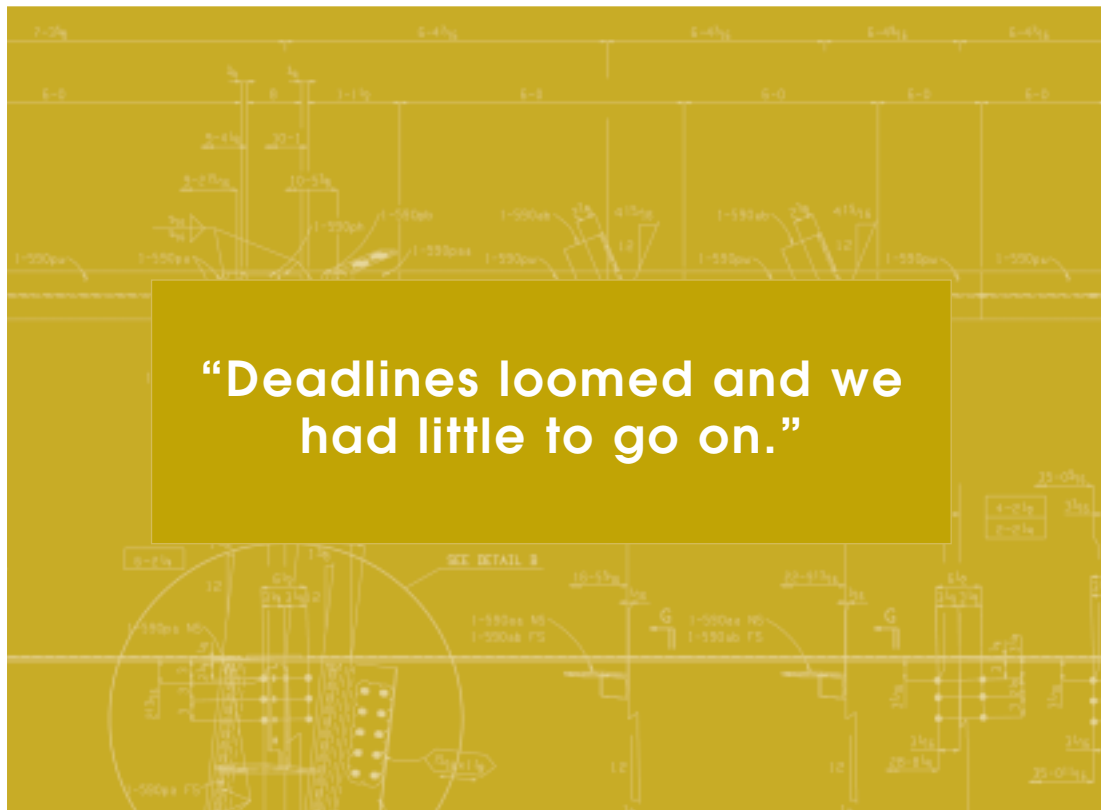
BD Structural Design has that special team. **How do we know?**

We know because our clients and partners have come back to us time and again, relying on us for the most difficult cost-sensitive and time-sensitive projects. And we know because our customers' faith, born of one

exceptional experience after another, has made us into one of the largest North American structural steel detailing offices east of the Mississippi.



Item	Quantity	Unit	Description	Material	Price
101	1.00	EA	1/2" PLATE	A36	100.00
102	2.00	EA	3/4" PLATE	A36	200.00
103	1.00	EA	1" PLATE	A36	300.00
104	1.00	EA	2" PLATE	A36	600.00
105	1.00	EA	3" PLATE	A36	900.00
106	1.00	EA	4" PLATE	A36	1200.00
107	1.00	EA	5" PLATE	A36	1500.00
108	1.00	EA	6" PLATE	A36	1800.00
109	1.00	EA	7" PLATE	A36	2100.00
110	1.00	EA	8" PLATE	A36	2400.00
111	1.00	EA	9" PLATE	A36	2700.00
112	1.00	EA	10" PLATE	A36	3000.00
113	1.00	EA	11" PLATE	A36	3300.00
114	1.00	EA	12" PLATE	A36	3600.00
115	1.00	EA	13" PLATE	A36	3900.00
116	1.00	EA	14" PLATE	A36	4200.00
117	1.00	EA	15" PLATE	A36	4500.00
118	1.00	EA	16" PLATE	A36	4800.00
119	1.00	EA	17" PLATE	A36	5100.00
120	1.00	EA	18" PLATE	A36	5400.00



“Deadlines loomed and we had little to go on.”

Showing our sense of initiative



MAURICE DESJARDINS
Project Manager

- With BD since 1993
- Has worked on more than 300 projects

Favorite steel building:
Becancour aluminum smelter, QC, Canada

Motto:
"It's all in the details..."

Having worked in the construction industry for over 35 years, I thought that I had seen everything. We've all learned to live with complex specifications and last minute change requests. But when I was assigned to do the detailing supervision of the extension to the Toronto airport, I saw something new.

The structural drawings of the existing buildings were not available. Pearson is a busy place and the area of concern had to be maintained in service up to a few days before erection.

Clearly, you can't do a 2,000 ton extension to Pearson International without the existing drawings. Deadlines loomed and we had little to go on.

We dispatched one of our most senior draftsmen, who spent two painstaking weeks surveying the project site and acquiring the required dimensions information.

In close cooperation with the fabricator and the erector, we were able to come up with a plan to get feasible field works into their hands without causing delays in the project.

Despite the obvious difficulties, the initiative and the efforts of our team allowed us to get all the detailing done in the most effective way and without the slightest error.

“We proposed to do it at cost and our client greatly appreciated the gesture.”



Sharing responsibility

Sometimes opportunity comes disguised as a problem.

A while back, Charles brought me in on the project to provide assembly plans and drafting for the Interquisa petrochemical facility in Montreal. Industrial work is complex and revisions to the Engineering drawings are common. BD is well-equipped to handle revisions efficiently and this has been a strong contributing factor in our success with industrial work.

In this case however, special circumstances created a situation where the extent of one revision was not carried out entirely.

That discrepancy was eventually discovered, but by that time, fabrication was well under way and, bottom line, some columns would have to be re-fabricated resulting in additional costs for our customer fabricator.

I wasn't happy and Charles

wasn't comfortable with this situation either. Rather than wasting time and energy to allocate blame or responsibility for what had obviously been a misunderstanding, we told this long-standing client we would absorb the cost of refabrication.

Our client, who had worked with us on the basis of a fair relationship for more than 25 years, refused immediately. They offered, instead, to let us name our price on the drafting of two viaducts for

which they could not find other reliable detailers. We proposed to do it at cost and our client greatly appreciated the gesture and accepted.

What could have been the end of a long relationship turned into an opportunity for two firms to deepen their ties and the trust they had in one another. The proof of the value of a relationship built on respect and fairness is that, to this day, we have been working with them on a continuous basis.



STEPHAN DUBEAU Project Manager

- With BD since 1988
- 100 projects under his belt

Favorite steel building:
Freemont Energy Center, OH, USA

Motto:
"Perfection is the only option!"

Every project plan 'enjoys' its fair share of changes. We've all seen it before. New equipment is added or changed. Things get rearranged. Complications arise. That's a typical Fast Track Project.

Sometimes, though, the changes are huge and require a monumental effort to get the job done on time. That's what happened when we were detailing Union Carbide's

petrochemical building in Alberta. We had two months of hard work invested to detail over 70% of the project and 50% of the tower. That's when the revisions came in. The tower was completely changed. New columns were added; the bracing system was doubled and made two to three times heavier; and, new connections meant three to four times more work.

Despite the mass of revisions and new work, the project demanded

that we adhere to the schedule while delivering the same high quality product. That's where I came in. I called the client and offered more overtime and a second crew to take care of the revision. Also, with close collaboration with the client, we were able to find the most effective solutions on the connections sketches. Working closely and in partnership with our client made us determined and confident that we would

deliver as promised. Though it was unlike any challenge we had faced before, we got the job done on time without any changes at time of erection.

That's a story of partnership and teamwork that's legendary here at BD.

True dedication



KATY MICHAUD, P.E.
Project Manager

- With BD since 1998
- 20 projects under her belt

Favorite steel building:
Harborside Plaza 10, NJ, USA

Motto:
"A late project is a failed project."

"The changes were huge and required a monumental effort to get the job done on time."





Anticipating problems



“All seven of our modules were installed without incident.”



CHARLES E. BLIER President

- Founded BD in 1975
- Experience covering more than 1,200 projects

Favorite steel building:
IBM Markham, ON, Canada

Motto:
"Efficiency, efficiency, efficiency!"

The project, a nickel mine in Northern Quebec, had a dozen modules, each weighing from 600 to 800 tons. Each of these was pre-assembled in Quebec harbor and shipped north on a huge barge to be assembled on site.

I was the lead and Normand was in charge of erection diagrams and coordination documents on the grinder module. As you can imagine, a huge grinding mill is not the kind of thing you

want to have sliding around on the deck of a barge; so, the engineering consultant designed a steel support that would be integrated into the module.

For this module, we received two sets of engineering plans, one for the building and one for the steel support. The engineer had come up with an original and sophisticated design solution to minimize the amount of site work to be carried out in the very difficult conditions of this remote Northern site.

We felt it was only normal that we took all necessary precautions to ensure that things would go as smoothly as planned.

One example of this was Normand's idea to combine together the Engineering plans for the buildings and for the support steel. This helped identify any potential interference in the detailing work. In cooperation with the Engineer the necessary design changes were made and the modules

were constructed, transported and assembled together at the site without incidents.

Some time later, we took our team to the site to have a look at the work. All seven of our modules were installed without incident. Going beyond our client's expectations is a habit at BD and one which makes us particularly proud to be a member of that team.

Equipment

- 11,000 square foot drafting room
- OCE 9600 printers and scanners
- Custom FTP application
- Custom time tracking application
- 40 SDS/2 detailing software licenses



The Team

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Our Capabilities

- Heavy industrial buildings
- Complex geometry buildings
- Power plants
- Refineries
- Pipe racks
- Multi-story structures
- Skyscrapers
- Bridges
- Schools
- Auditoriums
- Heavy-duty equipment
- Pulp and paper mills



The Company

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THE TEAM TO SERVE ALL YOUR

DETAILING NEEDS

Our Detailing Services

- Shop drawings
- Erection plans
- Anchor bolts diagrams
- 3D modeling
- Steel interchange CIS/2
- Connection sketches and design calculations
- Coordination with sub-contractors
- Reports (Drafting progress, ABM, Bolt list, etc...)
- File management (DXF, TIFF, PDF, DWG, BIF, CNC, etc...)
- Additions and revisions management

