

#### Les Conseillers **BCA** Consultants Inc.

Valued Engineering Since 1985





Montreal - Toronto – Vancouver - Morocco

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All photographs contained in the following presentation are actual BCA projects.



#### Les Conseillers BCA Consultants Inc.





- About BCA
- Clients
- Organization
- Projects













- BCA Consultants is a consulting engineering firm specializing in building structures.
- Founded in 1985.







Majority of staff in Montreal, approximately 30 employees total.





#### Les Conseillers BCA Consultants Inc.

Montreal, Qc, Canada

Structural Engineering

#### Sister companies



#### **Groupe Conseil Genisecure**

 Safety assessments for building façades and parking structures



#### BCA Vancouver Inc.

- Regional Office
- Affiliated with Tash Engineering



#### **BCA** Toronto Inc.

Regional Office



#### BCA Morocco Inc.

- Regional Office
- Affiliated with Sam Structures









Licensed in all Canadian provinces and territories:





APEGA Engineers and Geoscientists of Alberta



















#### Member:

- National Research Council of Canada (NRC)
- CSA Group (Canadian Standards Association)
- Canadian Society of Civil Engineering (CSCE)
- Canadian Institute of Steel Construction (CISC)
- Canadian Geotechnical Society (CGS)
- Canadian Wood Council (CWC)
- Cement Association of Canada (CAC)
- American Concrete Institute (ACI)
- ASP Construction (Association paritaire CSST)
- International Concrete Restoration Institute (ICRI)

































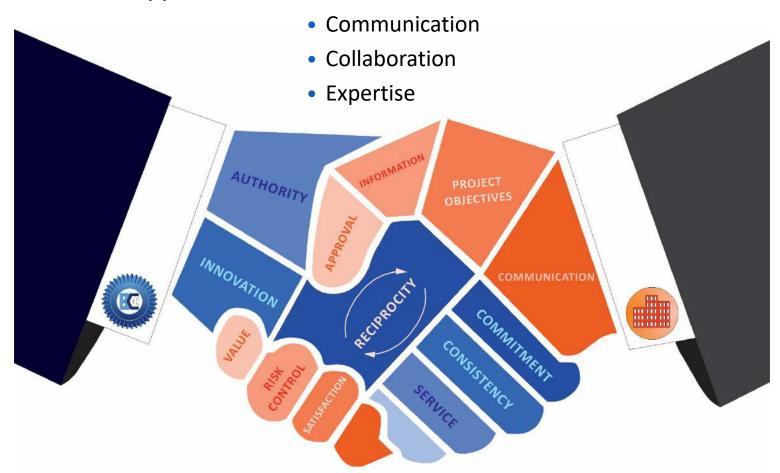
- BCA is proud to be involved in sustainable construction:
  - LEED (Leadership in Environmental and Energy Design) projects
  - Novoclimat







What is BCA's approach?













- BCA has developed a reputation for priority service and value engineering, founded on the use of appropriate materials, efficient systems and construction experience.
  - In consequence, many of BCA's projects are fast-track, design-build construction.





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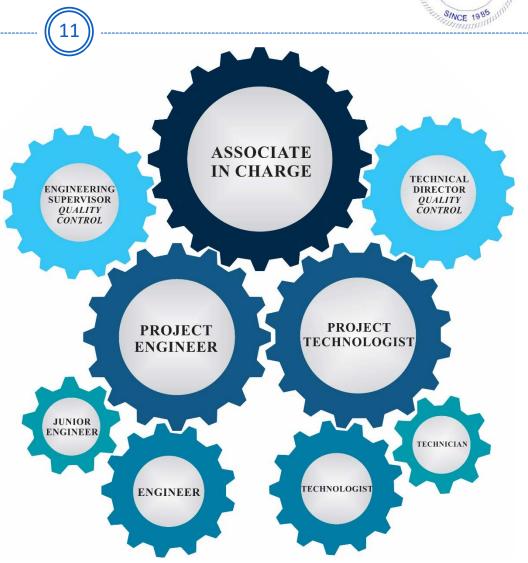
 Efficient project coordination through simple client communication structure







 Collaborative project management organizational structure





#### **BCA Clients**











**Real Estate** 

Developers





















Architect











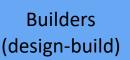














EROTERN









JONES LANG

LaSalle

**Institutions** 





























## **BCA Clients**





BCA is proud of its strong, long-term relationships.



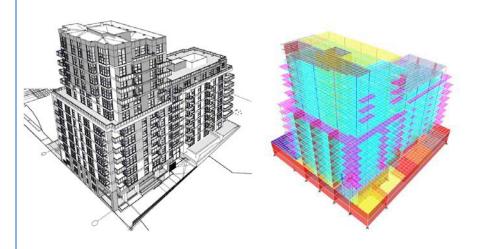


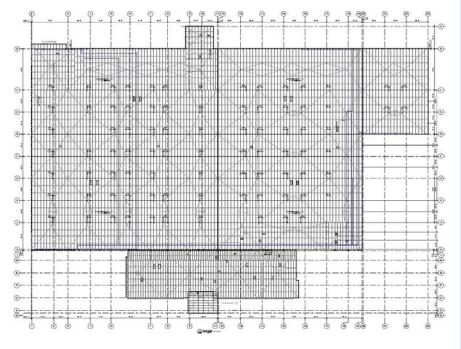
## **Organization**





- Dedicated, specialized staff
  - 1) Engineering department
  - 2) Technical/ BIM department
  - 3) Research and development department







## **Engineering Department**



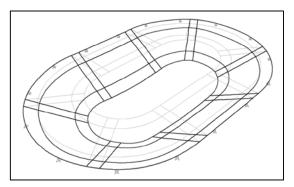
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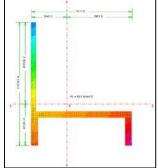
Advanced modelling and computations with sophisticated design software

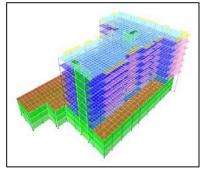
Reinforced concrete slabs (SAFE), Frame analysis (SAP2000), Column and wall sections (CSiCol), Gravity and lateral force resisting systems (ETABS)

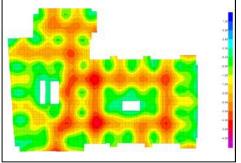
Extensive Professional Development Program

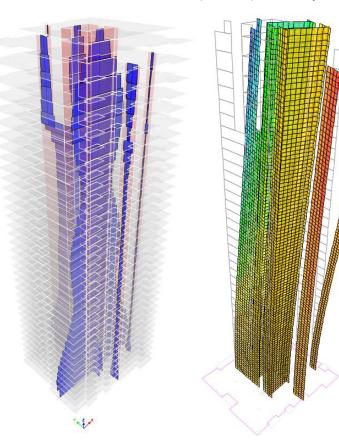
Conferences, Seminars, Literature Review













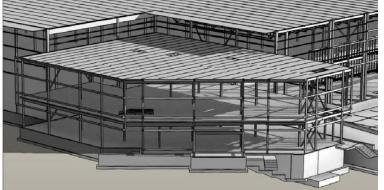
# **Technical and BIM Department**



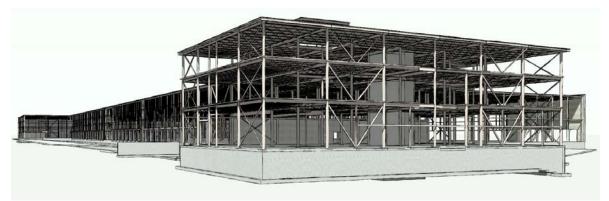


- Building Information Modeling (Revit)
  - Active member of BIM QC
- Computer-Aided Drafting (CAD)











## **Research and Development**



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- Created in 2015
- Supports the ongoing development of the BIM and engineering departments







## **Research and Development**





- Researches and evaluates new developments in the structural engineering field
  - New software, methods, systems
- Evaluates different options for complicated or unusual conditions
- Interfaces with university researchers and code developers
- Evaluates and optimizes standard practices





# **BCA Projects**





Expertise categories:



Special Consulting

Concrete Rehabilitation

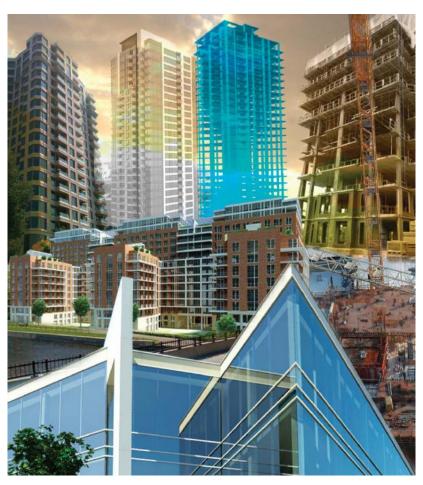












- Corporate Complexes
- Residential Multi-Storey
- Industrial Buildings
- Residential Buildings
- Renovation Expansion
- Seismic Upgrading
- Commercial Retail
- Institutional Buildings
- Office
- Single-Family Homes
- Special Structures







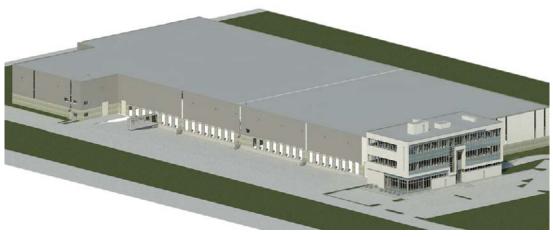
Corporate Complexes





















Residential Multi-Storey





























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Industrial Buildings

















Residential Buildings

























Renovation – Expansion





















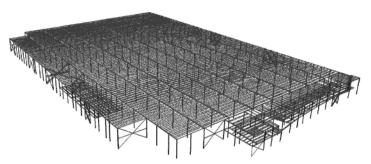


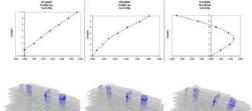


Seismic Upgrading



























Commercial Retail

























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Institutional Buildings























#### Office

























Single-Family Homes



























Special Structures







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Balconies



Parking arages









#### Parking Garages



















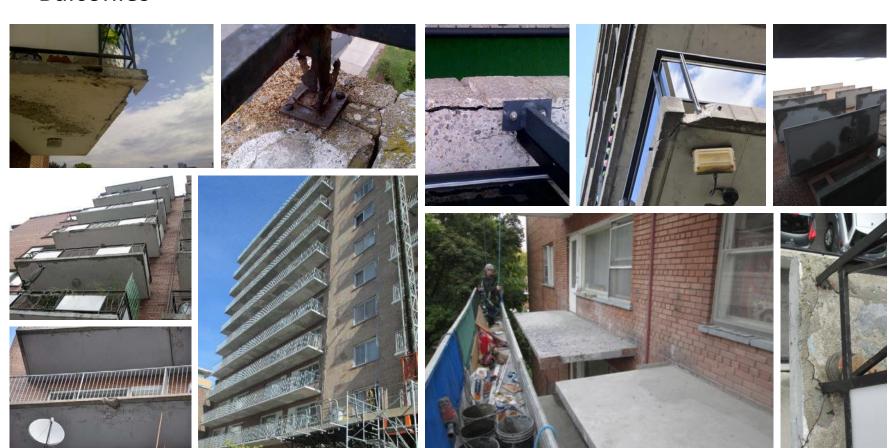








#### Balconies









General Concrete Structures



















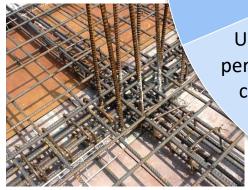




Building Façade
Assessments



Racking structures



Ultra high
performance
concrete
Slab on
grade

**Legal Expertise** 











**Legal Expertise** 





















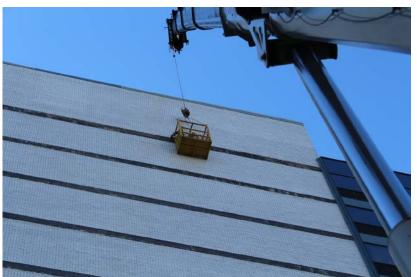








Building Façade Assessments























Fire/Flood Damage



















Capacity Evaluations



















Racking Structures















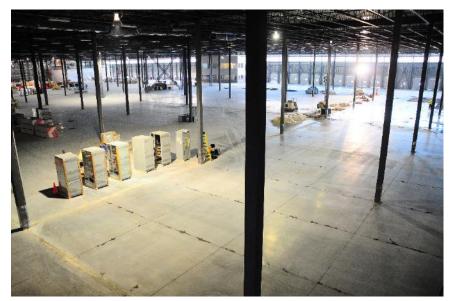








• Slab on grade









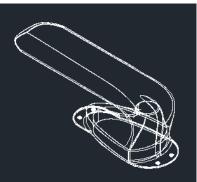






Ultra High Performance Concrete



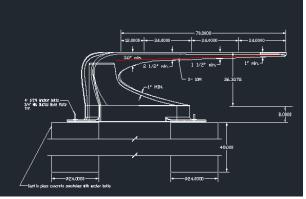














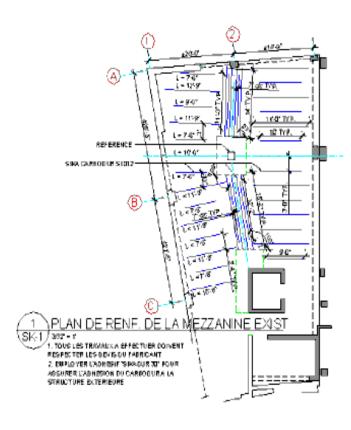




Carbon Fiber Reinforcement















#### **EXPERTS-CONSEILS ESTIMÉS DEPUIS 1985**

VALUED ENGINEERING SINCE 1985







#### "WE LOOK FORWARD TO WORKING WITH YOU!"

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