SCOPE:
PCL Agile was awarded the contract to design and construct the BESS Battery Energy Storage Solutions project. The site consists of two battery buildings with an overall capacity of 14MWh. Agile manufactured 14 modules 39' long and 10' wide, in the shop, to be landed on site. Each building had mechanical and electrical systems integrated into each module before shipping to site where the interconnections took place.

“As the owner’s rep and payment certifier for the BESS project, I must say the experience of working with the PCL team to provide the full turnkey solution has been exceptional, we are challenged almost daily to bring together a diverse team of EPC suppliers, design partners and subcontractors and to say the least PCL have done a great job. We look forward to a seamless completion and an opportunity to do this again on many future projects.”

Uel McFall, Director Construction Services, Deltro Group Ltd.

GENERAL

2017 YEAR COMPLETED
14 MODULES

COST

$5M PROJECT VALUE
$240K DESIGN COST

SCHEDULE

10/11/2016 - 07/21/2017 FABRICATION
06/30/2017 SUBSTANTIAL COMPLETION

10 MONTHS UNDER CONSTRUCTION ON SITE
6 MONTHS FOR DESIGN

2 MONTHS FAB IN SHOP
20 DAYS TO ERECT AND MATELINE

$357K PER UNIT
10% MORE COST EFFECTIVE
25% FASTER CONSTRUCTION
SCOPE:
PCL Agile was awarded the contract to design and construct a modular Exit SPIL Stair for emergency egress at Toronto Pearson Airport’s Terminal 1. The modules consist of one 60’-long bridge module and three stair modules. The total structural steel consumption was 179,690 lbs.

PCL Agile had to convert the traditional stick-built design into a workable off-site solution. By manufacturing off site, the on-site team saved approximately six weeks of on-site work.

The scope of this project consisted of structural steel modules, steel stairs, basic interior finishes, metal insulated panels, mechanical and electrical systems, concrete flooring and roofing work.

GENERAL

2017 YEAR COMPLETED

4 MODULES: 1 BRIDGE & 3 STAIRS

COST

$510K PROJECT VALUE

$10K DESIGN COST

SCHEDULE

3 MONTHS UNDER CONSTRUCTION ON SITE

1.5 MONTHS FOR DESIGN

3 MONTHS FAB IN SHOP

4 DAYS TO ERECT

20% MORE COST EFFECTIVE

50% FASTER CONSTRUCTION
WINDSOR AND SOUTHGATE SOLAR OPERATIONS & MAINTENANCE BUILDINGS

SCOPE:
PCL Agile was awarded the contract to design and construct the wood-framed operations and maintenance buildings for the Southgate and Windsor Solar projects. Each building consisted of three modules making up the office portion and a modular flat pack wall system for the maintenance portion which was erected on site. The roof was also modularized and sent to site in sections for ease of installation.

The Windsor O&M building was the first PCL modular building to receive CSA attestation which was a requirement for the building permit.

With the help of Agile’s OFW team, the deployment and matelining of all the modules and flat pack wall system took 15 days after landing on site.

GENERAL

2016 YEAR COMPLETED

3 MODULES: + FLAT PACK SYSTEM

COST

$439K PROJECT VALUE

$26K DESIGN COST

SCHEDULE

05/17/2016 - 07/21/2016 Windsor FABRICATION
06/01/2016 - 07/21/2016 Southgate
08/17/2016 09/07/2016 TOTAL COMPLETION

3 MONTHS UNDER CONSTRUCTION ON SITE

2 MONTHS FOR DESIGN

2 MONTHS FAB IN SHOP

15 DAYS TO ERECT AND MATELINE

$146K PER UNIT

5% MORE COST EFFECTIVE

10% FASTER CONSTRUCTION
SCOPE:
PCL Agile was awarded the contract to design and fabricate 413 exterior wall panels for the Presentation Manor project. One hundred and twenty-eight of the panels had windows pre-installed which reduced the amount of trades on site resulting in a more productive, safer work environment. The exterior panels have exterior sheathing, semi-rigid insulation, and brick ties installed to reduce installation time on site.

“Working together with the Agile team has given our project team a greater appreciation of the complexity of the planning and prefabrication process. It has prompted the team to revisit the building envelope during the design and early construction stages to address any questions or potential problems that may occur down the line. It is truly a benefit to have the ability to build off-site mock-ups at the Agile plant and perform any required testing with subtrade, consultant, and owner present at the early stages and to be able to monitor subtrade quality during prefabrication within the confines of the shop. Enhanced quality performance and productivities, and safer and more comfortable indoor working conditions for both subtrade and PCL hourly workers is what I see as being the key benefits of utilizing Agile for prefabrication of envelope panels and parapet capping.”

Dan Kozmevski, Project Manager, PCL

GENERAL

2017 YEAR COMPLETED
413 WALL PANELS

COST

$1.1M PROJECT VALUE
$13K DESIGN COST

SCHEDULE

08/14/2017 - 12/01/2017 FABRICATION
12/22/2017 PANEL INSTALLATION COMPLETION
01/12/2018 BUILDING ENVELOPE COMPLETION

4 MONTHS UNDER CONSTRUCTION ON SITE
3 MONTHS FOR DESIGN
3 MONTHS FAB IN SHOP
80 DAYS TO ERECT

$2,616 PER UNIT
25% MORE COST EFFECTIVE
50% FASTER CONSTRUCTION
SCOPE:
PCL Agile was awarded the contract to fabricate and deliver 21,760 helical piles. Activities in the shop included building dunnage, cutting pipe, punching holes, welding, logistic arrangements to the galvanizer and to the site.

Maintaining an extremely tight schedule regarding incoming material, production/fabrication and trucking to galvanizer and site was imperative to the success of this project due to the space constraints in the manufacturing plant and the installation schedule on site.
SCOPE:
PCL Agile was awarded the contract to fabricate and deliver 40 emergency eye wash stations. The stations consist of an emergency shower, a hands-free sink, eye wash, and accessories all mounted to a wall unit. Traditionally, each individual component would be installed in the lab piece by piece which would greatly increase disruption to the lab users. By using an off-site solution, the on-site disruption was minimized. A small hoarding was erected and the users were able to remain in their labs as the units were installed. The installation included hanging the units, completing the mechanical connections for the supply and return lines for the sink and the showers, and installing the accessories.

GENERAL

2014 YEAR COMPLETED 100 UNITS

COST

$410K PROJECT VALUE $4.1K UNIT COST

ADVANTAGES

COST

Provide direct cost savings to client

SCHEDULE

Significantly reduced installation time

NON-INVASIVE

Minimized disruption to building occupants

QUALITY

Manufactured procedures ensure high quality and consistent product

SCHEDULE

04/01/2014 - 05/10/2014 Phase 1 (40 units)
06/30/2014 - 07/04/2014 Phase 2 (30 units)
01/26/2015 - 03/06/2015 Phase 3 (30 units)

FABRICATION

100 FABRICATION DAYS

AVERAGE PRODUCTION

1 (UNITS/DAY)