

DGH PROJECTS:

CHARISONS TURKEY HATCHERY



Services Provided

- ✓ Precast Concrete Design
- ✓ Mechanical & HVAC Design
- ✓ Hydronic Heating
- ✓ Electrical Design
- ✓ Fire & Life Safety
- ✓ Code Review
- ✓ CFIA Certified Facility

Photographs:

Top left: Exterior, including precast wall panels, ventilation exhaust, & safety guarding

Top right: Egg transfer area

Bottom Right: Mechanical access in ceiling

Here to respond in person

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DGH Engineering Ltd. (DGH) has an established reputation for working with food producers and processors, including the poultry industry, in Manitoba and across Canada.

DGH recently provided Charisons Turkey Hatchery Ltd. (Charisons) with full-service engineering design for many building design, renovation, and expansion projects. By working together with Charisons to complete multiple projects, DGH has been able to develop a personalized approach to meet Charisons needs and achieve positive results for capital projects. The most recent success story resulting from DGH's personalized approach for Charisons is the new addition to Charisons hatchery facility. DGH provided building code, structural, mechanical, and electrical for the new 11,500 square-foot CFIA certified expansion, complete with hatching rooms, an egg transfer area, and poult pull and counting area.

This project was designed with durability, sanitation, and ease of maintenance in mind. The building envelope is constructed of precast concrete sandwich panels, providing excellent durability, as well as ease of constructability. As a CFIA certified facility, cleanability was a significant requirement for this project. All areas were designed to minimize the risk of contamination between separate areas of the facility.

Dedicated pressure washers were installed for cleaning. As a CFIA certified facility, cleanability was a significant requirement for this project. All areas were designed to minimize the risk of contamination between separate areas of the facility and pressure washers were installed in each area for cleaning.

The HVAC system used at Charisons new facility included a single-pass airflow system instead of a recirculation system to further reduce the chances of airborne contaminants moving between segregated spaces in the facility. To improve comfort for both the human occupants and hatchlings in the facility, DGH designed a hydronic heating and cooling system for the building. In-floor hydronic heating has long been known to provide a more stable, comfortable heating solution for buildings, and hydronic cooling is beginning to gain traction in Manitoba as well.

