



LOCATION

WILLMAR, MN



MECHANICAL CONTRACTOR

CHAPPELL CENTRAL, INC



REP FIRM

SVL, INC.



BlueDuct is approved by all major mechanical codes and arrives as a complete system from main trunks to diffusers (no field-fabrication required)

This Habitat for Humanity home was built to provide a safe, reliable, and energy-efficient living environment for a local family. The project brought together manufacturers, contractors, and distributors to deliver a high-performance HVAC solution that supports long-term comfort, durability, and sustainability—while keeping installation efficient and cost-effective for affordable housing.

### ~ The Challenge

Residential projects like this require systems that are both high-performing and simple to install, especially when working within tight budgets and timelines. The HVAC system needed to meet strict building codes, deliver long-term energy efficiency, and avoid common underground duct issues such as air leakage, corrosion, and moisture infiltration. At the same time, the installation had to be straightforward for the contractor while ensuring reliable performance for the homeowner.



Left to right: Maury Erickson, master installer for Chappell Central; Dylan Olson journeyman installer for Chappell Central; Kevin Herrema, sales engineer for SVL

### ~ The Solution

AQC Industries partnered with SVL and Chappell Central to design and install an optimized underground duct system using **The BlueDuct®**. The system was selected for its direct-burial design, eliminating the need for additional insulation, drain tile, or concrete trenching—simplifying installation while reducing labor and material costs.

**The BlueDuct®** system is pre-insulated and engineered for airtight and watertight performance, helping ensure energy efficiency and long-term reliability. Its advanced polyethylene construction protects against corrosion, mold, radon, and air leakage, making it ideal for residential applications where durability and indoor air quality are critical.

### ~ The Result

The completed system delivered a code-compliant, energy-efficient HVAC solution that was easy to install and built to last. By combining thoughtful design with durable materials, the project supports Habitat for Humanity's mission—providing a comfortable, sustainable home environment while minimizing long-term maintenance and operating costs.