



POWERING
Today's
Business

MASTER  **ELECTRIC**

For Those Who Choose Quality

WE ARE *Master Electric*

—
Master Electric is a leader in the electrical industry specializing in design/build services, owner-direct predictive and preventative maintenance plans, and quality, responsive 24/7 service for the commercial and industrial markets.

TABLE OF *Contents*

<i>Our Story</i>	4
<i>Our Services</i>	6
<i>Our Promise</i>	8
<i>Our Work</i>	10
<i>Contact Us</i>	28

Our Story



QUALITY SERVICE *Integrity*

—

John Loftsgaarden founded Master Electric in 1972. Every day since then we have worked tirelessly— providing quality design, construction, and preventive maintenance services—to earn the trust and respect of our customers and employees. This legacy has been embraced by each and every one of us at Master Electric. We believe the hallmark of any great organization resides in their ability to consistently provide quality services. Our commitment to this sustained excellence has made us one of the foremost electrical services providers in our market. The legacy continues with the 3rd generation of Master Electric owners – Tony Loftsgaarden, Matt Pirkl and Larry Stier.

Our Services



CREATING *Solutions*

—

THE MOST STRINGENT QUALITY AND EFFICIENCY STANDARDS IN THE INDUSTRY. We boast a dynamic and creative team of project managers, engineers and field supervisors with combined design experience and installation expertise that ensures our capability to rise above all challenges. In fact, we are so confident in our commercial, industrial, and multi-family design/build services that we offer up to a three-year warranty on all commissioned projects.



Our Promise

ON TIME *On Budget*

—

At Master Electric, our dedication to standing at the summit of electrical design and installation methods, technological advances, and management practices is paramount. This commitment has continually provided our customers with added benefits including on-time project completion, strict budget adherence and energy-savings practices, and the most stringent quality and efficiency standards in the industry.



Our Work

PRIME Pork

COMPLETE INTERIOR DEMOLITION AND REHAB OF A 457,000 SQUARE FT PORK PROCESSING PLANT IN WINDOM, MN

PROJECT DETAILS

This was a complete renovation of an existing pork processing facility in Windom Minnesota. The old facility was shut down and completed demolished internally and then re-built as a state of the art automated facility. The project entailed 13.8kv utility relocation. Installation of 5 services: (1)4000amp, (1) 2500amp & (3) 2000amp. All new power and lighting infrastructure. Wiring and controls for a glycol freezer system. All new production lines as well as Integration and Automation of the entire process.

DISCIPLINES INVOLVED

- 13.8kv Utility Relocation
- Underground
- Concrete Work
- Service Installation
- Power Distribution
- Site Lighting
- UL Panel Shop construction
- Automation Controls
- Conveyor Wiring & Control
- Glycol Freezer Wiring & Controls
- Integration
- Engineering
- Hazardous/Classified Area Wiring

CHALLENGES

One of the biggest challenges of this project was the marrying together of three separate automated production lines. Each line was manufactured and built in a separate country and then shipped to Windom where it was our job to integrate these systems together. At the end of the project the number of pigs processed exceeded the capacity to store them (over 5100 per day).

CATEGORY

Food Processing

PROJECT VALUATION

\$7 Million

KEY PLAYERS

- R.W. Carlstrom*
- Taylor Corporation*
- Windom Public Utility*
- ISG Architects*
- LaBlanc Equipment*
- Jarvis Equipment*
- Meat-Process Systems Co.*

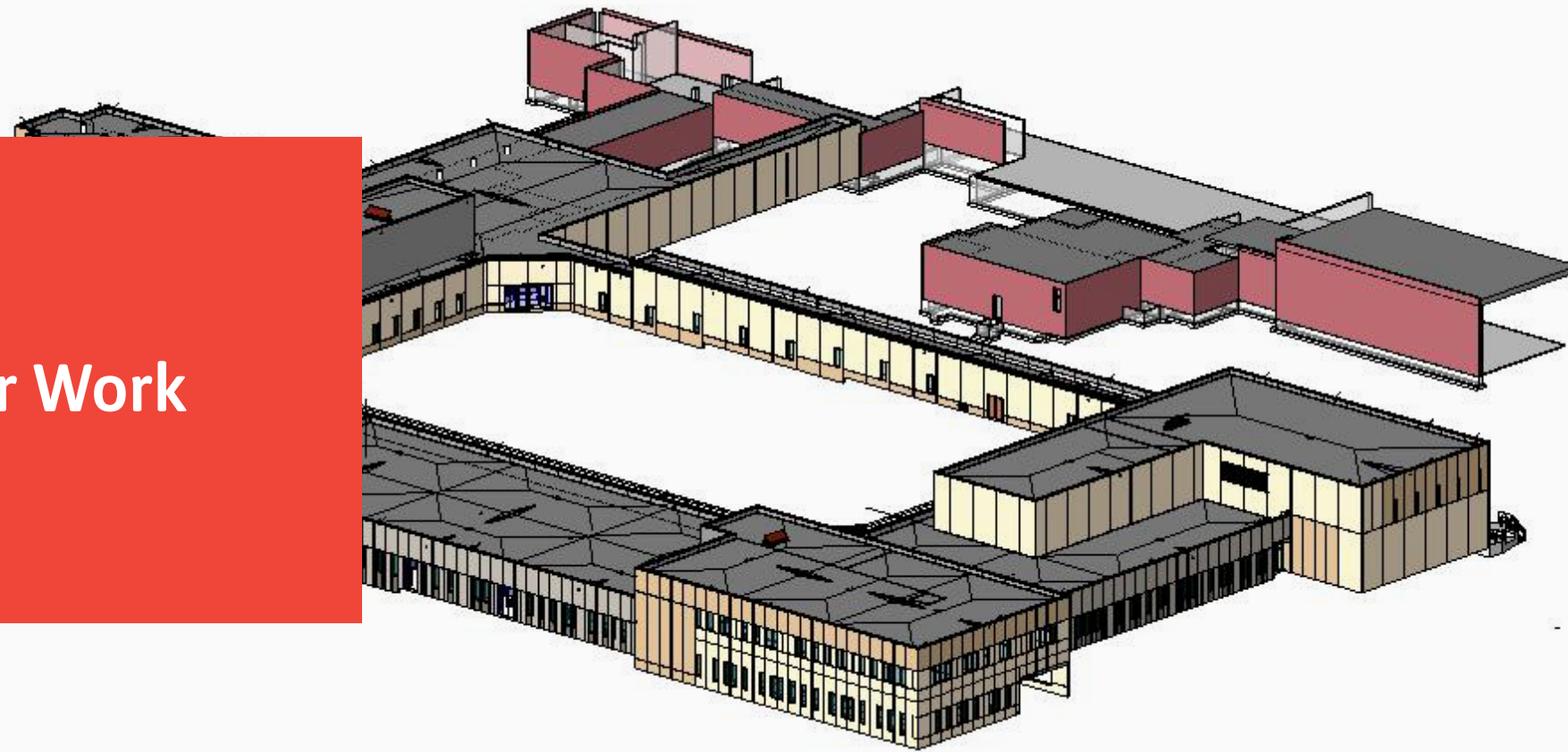
YEAR COMPLETED

2017

PEAK MANPOWER

48

Our Work



SAINT PETER *Security Hospital*

367,000 SQUARE FOOT HOSPITAL RENOVATION LOCATED
IN ST. PETER, MN

PROJECT DETAILS

Construction for this project began in 2018 and consisted of Demolition/Reconstruction of the existing 367,500sq ft Hospital as well as the addition of a new Administration Building.

DISCIPLINES INVOLVED

- Underground
- Pre-cast Concrete Structure
- Power Distribution upgrade
- Emergency Systems
- Lighting Controls
- Motor/HVAC upgrades
- Low Voltage Systems:
 - Telephone-Data Systems
 - Security System
 - Camera System
 - Fire Alarm Upgrade
 - Door Lock System

CHALLENGES

One of the biggest challenges we faced at the Saint Peter Security Hospital was that the facility had to remain open for business. This particular project housed women and men convicted of crimes who suffer from mental illness. Our team was able to accomplish this effort over a 3 year process without causing any downtime for the client. We were able to maintain current operations of power systems and security surveillance while upgrading and switching systems with zero downtime.

CATEGORY

Institutional

PROJECT VALUATION

\$7 Million

KEY PLAYERS

*Adolfson/Peterson
Construction*

St Peter Public Utilities

BWBR Architect

Dunham Engineering

YEAR COMPLETED

2020

PEAK MANPOWER

18



Our Work

JORDAN *Middle School*

RENOVATION/REMODEL & ADDITION OF A PUBLIC MIDDLE SCHOOL
LOCATED IN JORDAN, MN

PROJECT DETAILS

This was a complete renovation/remodel and addition of the existing middle school which required multiple key vendors such as the building sound systems and auditorium lighting/controls. This was a fast track project and required intensive project management in order to meet the expected deadlines.

DISCIPLINES INVOLVED

- Underground
- Concrete Work
- Electrical Infrastructure & Service Upgrades
- Engineering
- Site Lighting
- Building Sound
- Auditorium Lighting
- Telephone/Data
- Low Voltage Lighting Controls

CHALLENGES

The biggest challenge faced with on this job was the compressed schedule. The vast majority of the work was performed during the short 3 month period that school was out. This provided a unique challenge in acquiring manpower during the busy summer construction months. We feel that it was a major accomplishment to finish this project on time and in budget.

CATEGORY

Institutional/ School

PROJECT VALUATION

\$2.65 Million

KEY PLAYERS

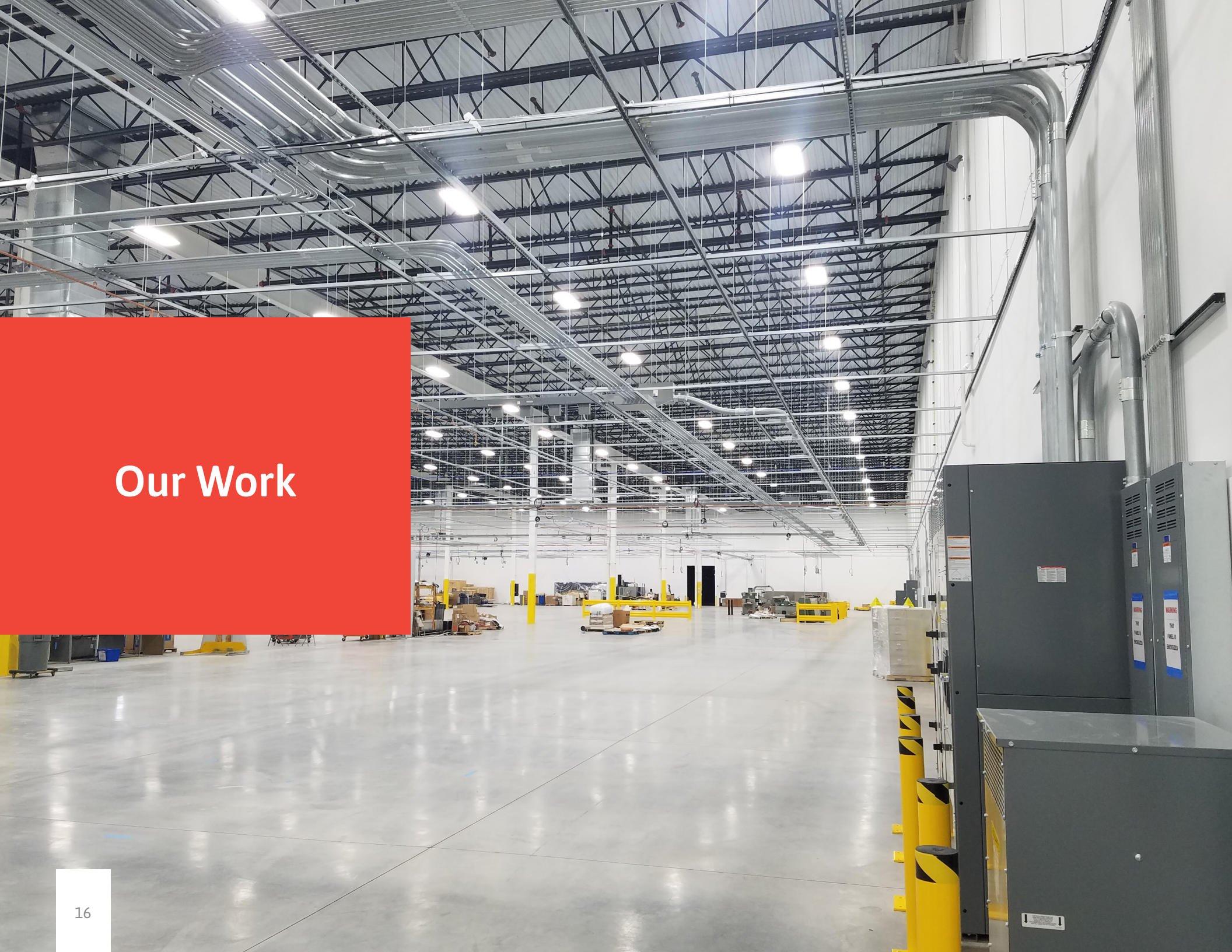
Wenck Construction
DLR Group Architects & Engineers
Gopher Stage Lighting
Lifeline Audio/Visual

YEAR COMPLETED

2016

PEAK MANPOWER

39



Our Work

TAYLOR Communications

350,000 SQ FT PRINTING FACILITY IN FRIDLEY, MN

PROJECT DETAILS

A Design/Build Project. This project began in 2018 as a ground up concept in which Taylor Corporation took 3 separate printing facilities: Print Craft, Curtis 1000 & Litho Tech, and moved them all into a single large facility. This facility includes a 5,000 square foot chemical storage room, a humidity/temperature controlled Digital Printing Area, 100,000 square feet of automated warehouse and 175,000 square feet of printing production area.

DISCIPLINES INVOLVED

- Underground
- Design/Build
- Power Distribution
- Engineering
- Hazardous Area Wiring
- Energy Management
- Building Automation
- UL Panel Construction

CHALLENGES

Due to the height of the ceilings (40ft) we designed and installed a versatile 10'x10' Unistrut grid system throughout the production area. This allowed us (and other trades) to run our conduit/piping/cabling and various infrastructures at a height that is more workable, saving us from having to go all the way to the deck and back down for each utility.

CATEGORY

*Industrial
Printing*

PROJECT VALUATION

\$2.5 Million

KEY PLAYERS

Taylor Corporation

Xcel Energy

*Oleson + Hobie
Architects*

LS Engineers

YEAR COMPLETED

2019

PEAK MANPOWER

14



Our Work

LUNDS & BYERLY'S — *Edina*

NEW CONSTRUCTION OF RETAIL GROCERY STORE IN EDINA, MN

PROJECT DETAILS

The creation of this 48,000 square foot upscale grocery store involved extensive integration of lighting, HVAC and refrigeration controls into a single control system called Verisae. This project also included installation of twin parallel 300kw generators which are used to back up the entire store in the event of a power outage. The store is an excellent example of high-end lighting, complex energy management systems and controls integration.

DISCIPLINES INVOLVED

- Underground
- Concrete
- Utility Relocation
- Engineering
- Site Lighting
- Interior Lighting & Controls
- Generator Wiring
- ATS Wiring
- UPS Wiring
- Energy Management System
- Refrigeration Controls

CHALLENGES

Because the new store was built on the same site as the old store—and because Lunds wanted to keep the old store up and running during most of the construction, numerous challenges were created with the existing infrastructure of power, site lighting and parking which overlapped. Through creativity and ingenuity we were able to separate in phases and create a smooth transition between the old and the new buildings.

CATEGORY

*Grocery/
Retail*

PROJECT VALUATION

\$2.4 Million

KEY PLAYERS

*Anderson Construction
Shea Architects
Lund Food Holdings Inc.
Xcel Energy
City of Edina*

YEAR COMPLETED

2016

PEAK MANPOWER

21



Our Work

CITY OF BURNSVILLE Waste Water Treatment Plant-Generator Project

INSTALLATION OF A NEW 2 MEGAWATT 13.8KV GENERATOR,
CONTROLS & TELEMETRY

PROJECT DETAILS

This project consisted of removal of the old medium voltage switchgear, installation of a new 2 megawatt 13.8kv generator and ATS, installation of controls and telemetry systems as well as upgrade of all motor controls.

DISCIPLINES INVOLVED

- 13.8kv Utility Relocation/Upgrade
- New 2000KW 13.8V Diesel Generator
- New Incoming Main Paralleling Switchgear
- Upgrade Plant Telemetry System
- Revise/Install Motor Controls

CHALLENGES

The biggest challenge on this project was demolition and installation of the new switchgear into an operating water plant. The key to this was to create temporary power for the plant while simultaneously coordinating connections to the new utility and generator.

CATEGORY

*Municipal/
Critical
Infrastructure*

PROJECT VALUATION

\$2.4 Million

KEY PLAYERS

Magney Construction

Xcel Energy

*Black & Veitch
Engineers*

*Process/Telemetry
Controls*

*Ziegler Power
Generation*

YEAR COMPLETED

2018

PEAK MANPOWER

8



Our Work

MAC DATA Center

NEW CONSTRUCTION OF DATA CENTER FOR MINNEAPOLIS AIRPORT COMMISSION (MAC) IN MINNEAPOLIS, MN

PROJECT DETAILS

New ground-up Data Center
Connect paralleling 500KW Diesel Generators
Provide/Install Underground duct back cabling
Provide/install Paralleling Switchgear
Provide/install Paralleling UPS/Auto-transfer Switches/Lightning Protection/Remote Power Panels/Voice-Data Cabling/Stationary Load Bank

DISCIPLINES INVOLVED

- Underground:
 - Piercing, Boring, Trenching
- Concrete Ductbank
- Utility Installation
- Site Lighting
- Zeigler/Cat Power Systems
- Simplex/Grinnell
- GE Power Systems
- Cutler-Hammer Power Systems
- Access Controls
- Lighting Controls

CHALLENGES

Extensive below grade power and grounding
Interconnection and coordination of standby power
Multiple UPS/Battery
Compatibility of LV systems Wiring
Space Confinement
Commissioning to Exacting Standards

CATEGORY

Data Center

PROJECT VALUATION

\$2.4 Million

KEY PLAYERS

*Shaw-Lundquist
Construction*

Xcel Energy

Ziegler Power Systems

Simplex/Grinnell

Michaud Cooley Erickson

Architectural Alliance

YEAR COMPLETED

2017

PEAK MANPOWER

18



Our Work

CENTRAL PARK Commons

50 ACRE INFRASTRUCTURE DEVELOPMENT FOR A RETAIL SHOPPING DESTINATION

PROJECT DETAILS

Site Infrastructure installation of over a 100,000 feet of conduits for utility primary, fiber optic and street lighting. Installation of power infrastructure for 14 new retail buildings. This was the first retail complex that was 100% exterior LED.

DISCIPLINES INVOLVED

- Underground:
 - Piercing, Boring, Trenching
- Concrete
- Utility Relocation
- Design/Build Engineering
- Site Lighting – 176 poles
- Fiber Optic Infrastructure – Conduits and Vaults
- Street lighting for City of Eagan

HIGHLIGHTS

First 100% Exterior LED retail complex in Minnesota
(14) Shell buildings
Multiple Tenant Build-Outs

CATEGORY

*Utility
Infrastructure
& Retail
Development*

PROJECT VALUATION

\$1.8 Million

KEY PLAYERS

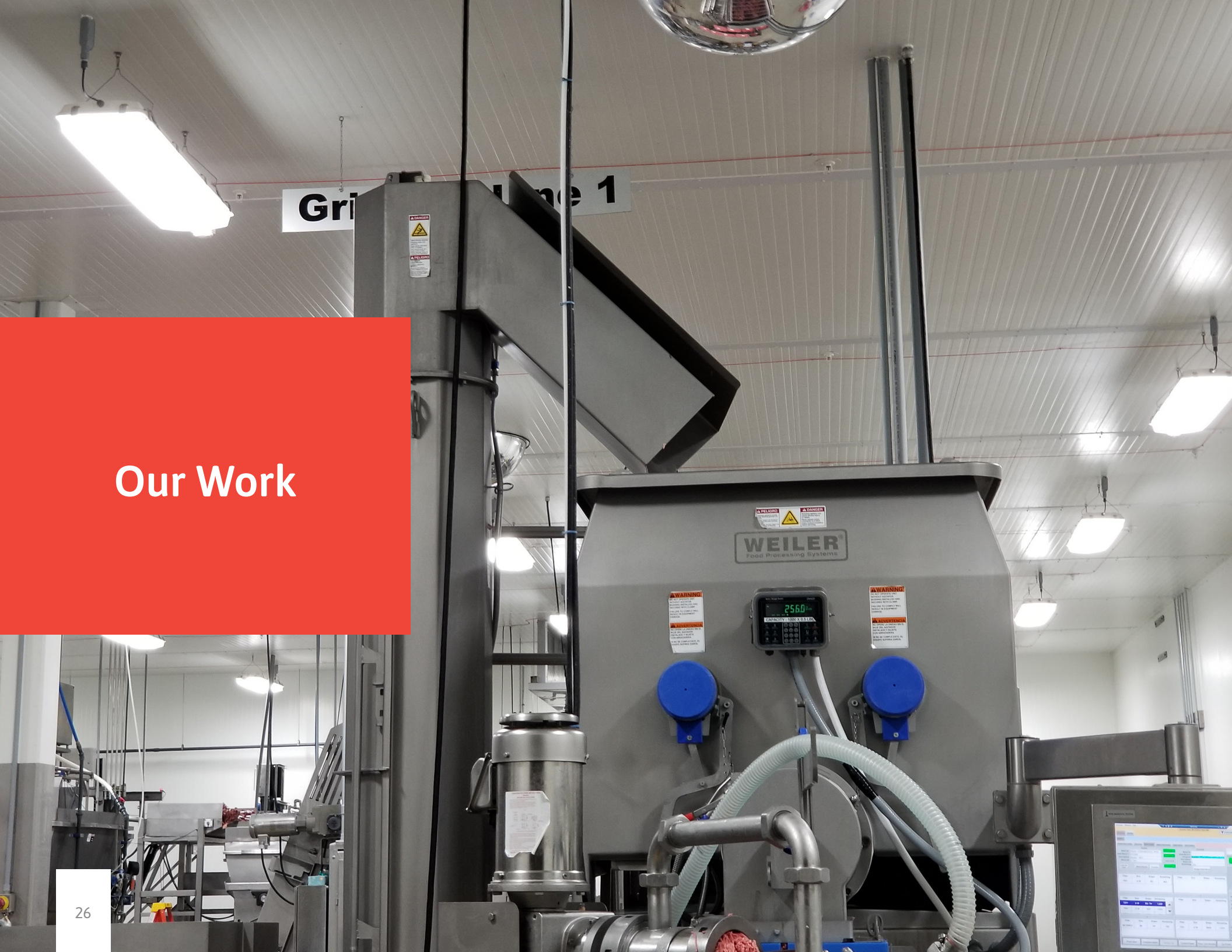
*CSM Corporation
Xcel Energy
RSP Architects
Alliant Engineering
City of Eagan*

YEAR COMPLETED

2017

PEAK MANPOWER

18



Our Work

J&B GROUP Production Facility

ELECTRICAL SERVICE & DISTRIBUTION UPGRADE PLUS LINE AND PACKAGING EXPANSION IN ST. MICHAEL, MN

PROJECT DETAILS

Update existing service to 3000amp. Installed new electrical distribution systems. Installed and wired new controller cabinets for 3 new production lines and 3 new packaging lines.

DISCIPLINES INVOLVED

- Service/Distribution
- LED Lighting
- Production Equipment
- Conveyor Wiring and Controls
- Packaging Equipment Wiring and Controls
- Mechanical Systems Wiring

CHALLENGES

Maintaining existing service for production while updating the service size to 3000amp. As there was no room left in the electrical room to expand—and because the facility could not be shut down, the service upgrade was accomplished by installing the new service on the roof of the facility and then backfeeding the old service gear.

CATEGORY

Food Production Facility

PROJECT VALUATION

\$1.1 Million

KEY PLAYERS

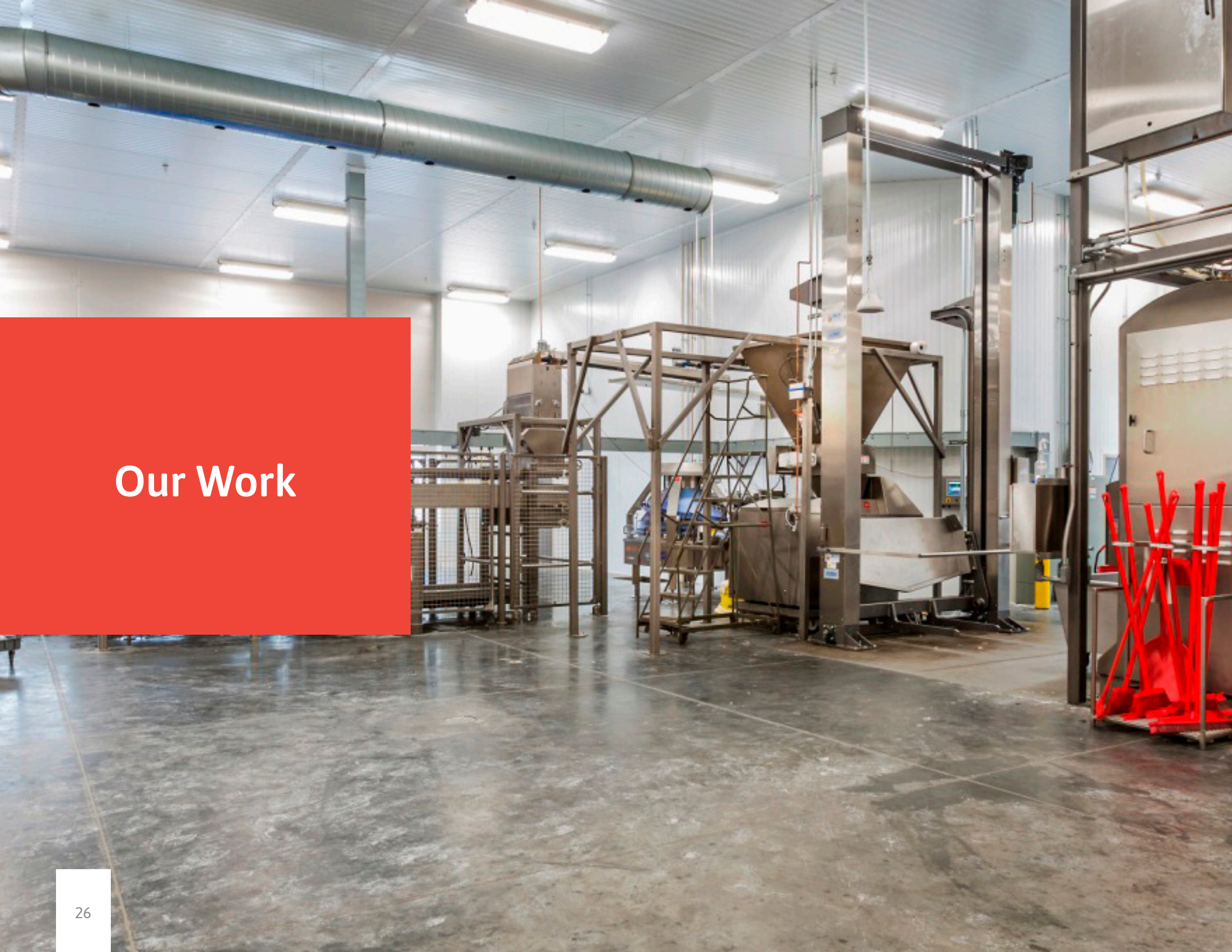
J&B Group
Food Tech
Xcel Energy

YEAR COMPLETED

2018

PEAK MANPOWER

12



Our Work

AK Pizza

A 320,000 SQUARE FOOT PIZZA CRUST MANUFACTURING FACILITY IN PRIOR LAKE, MN

PROJECT DETAILS

This project entailed a significant amount of up-front design work prior to construction commencing. The existing building was completely gutted on the interior and then was expanded via two additions. We designed and installed (3) new 3000amp services plus new electrical distribution throughout. We designed, built and UL listed all the automation control panels. Wrote and programmed all the code for the automation controls. Programmed all the equipment and integrated the process controls with an outside refrigeration vendor's process equipment.

DISCIPLINES INVOLVED

- Underground
- All interior electrical lighting and power
- Automation controls
- Programming/Integration
- UL listing of Control Panels
- Refrigeration controls/Integration
- Flowable fill Concrete
- Utility Relocation
- Engineering/design
- Site Lighting

CHALLENGES

Production goals for this project was 4800 crusts per hour. Upon completion of the project crust production was over 5500.

CATEGORY

*Food Production
Automation*

PROJECT VALUATION

\$3.2 Million

KEY PLAYERS

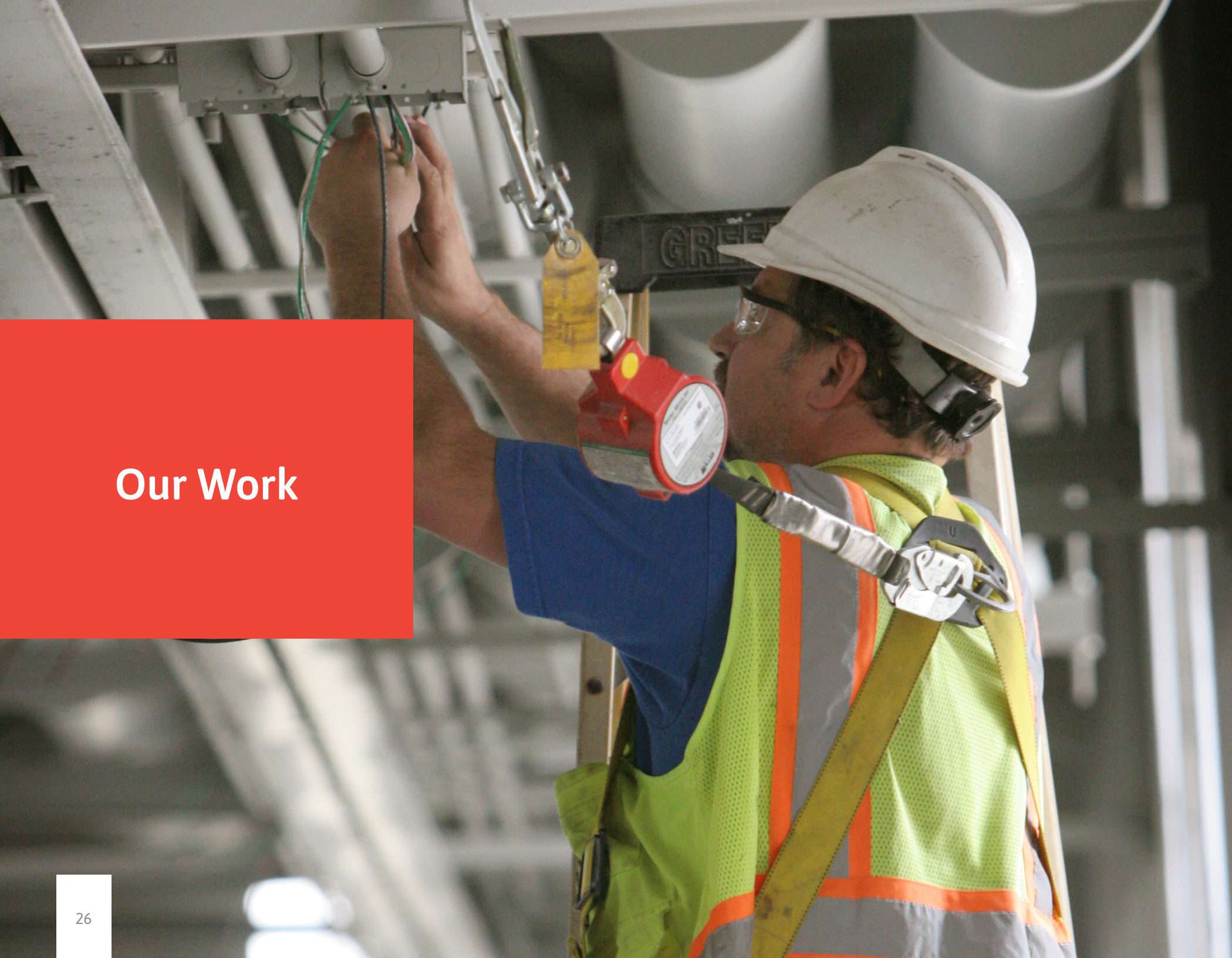
*RJ Ryan Construction
Xcel Energy
M&M Refrigeration
Master Electric
Design/Build*

YEAR COMPLETED

2019

PEAK MANPOWER

19



Our Work

HUMBOLDT High School

A SCHOOL INFRASTRUCTURE AND SYSTEMS REHABILITATION PROJECT IN ST. PAUL, MN

PROJECT DETAILS

This project entails both a remodel and a significant addition of existing structure. Install a new 2000 amp 480 volt main electrical service plus additional distribution. We also installed new 80KW diesel emergency generator, new LED lighting and controls, upgrade FA system, new and upgraded sound/PA and technology systems.

DISCIPLINES INVOLVED

Underground
New Service Installation
Subcontractor Management /Construction Management
Low Voltage Systems

- Data
- Fire Alarm
- Public Address

Lighting Controls
Energy Management Controls
Automatic Transfer Switch (ATS)
Generator Installation

CHALLENGES

One of the unique challenges of a project such as this is remodeling of the existing school while classes are in progress. Although much of the work takes place during the summer, the duration and scope of this project is scheduled to exceed 2 years to complete. Therefore all emergency and communications systems must remain active and functional.

CATEGORY

*Public/
Institutional*

PROJECT VALUATION

\$4.4 Million

KEY PLAYERS

*Wenck-HU Construction
Cunningham Architects
Ericksen/Ellison Engineers
Border States
Electric Supply
Viking Electric Supply
Pulse Electric*

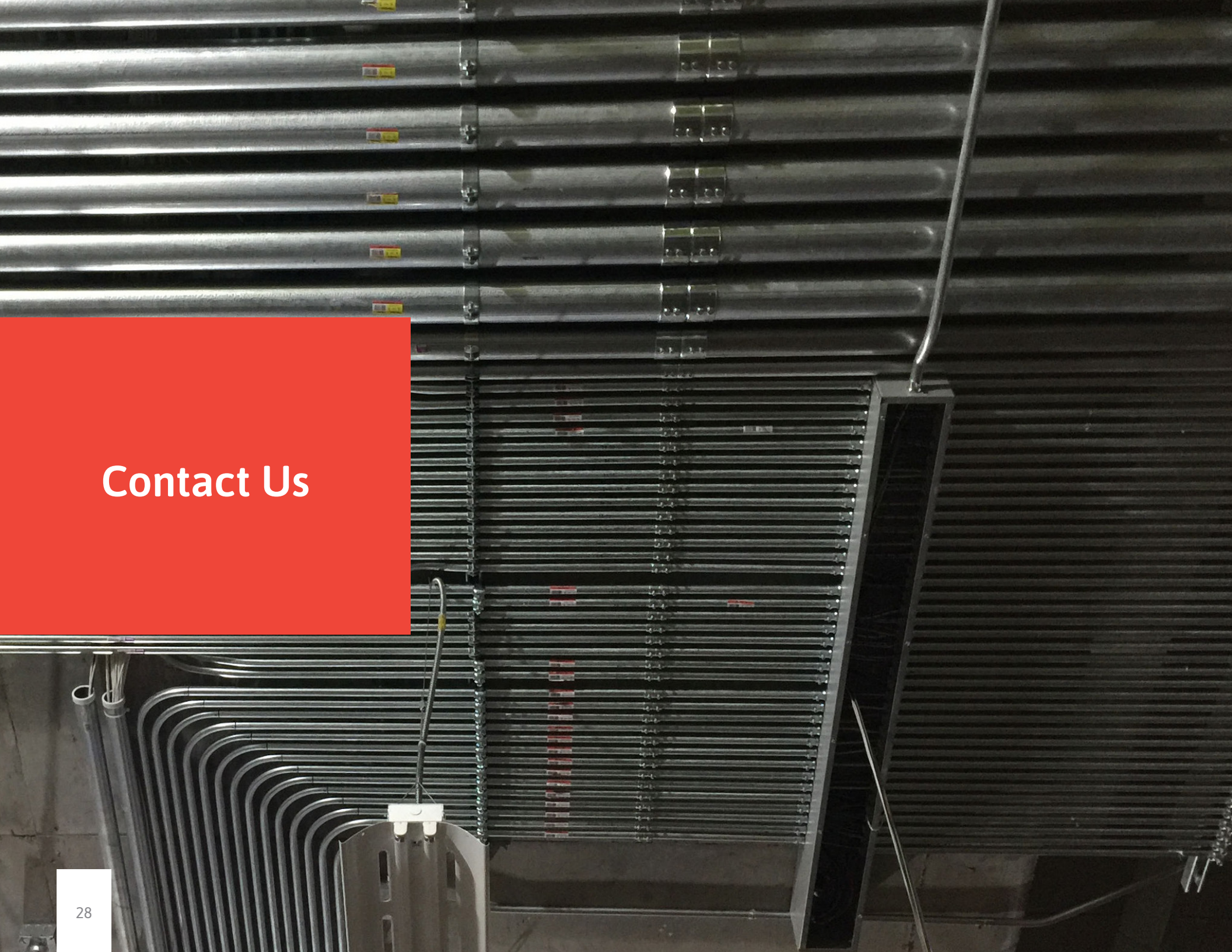
YEAR COMPLETED

IN PROGRESS--ESTIMATED
COMPLETION DATE SEPTEMBER

2020

PEAK MANPOWER

14



Contact Us

FOR THOSE WHO *Choose Quality*

Contact Us For
Your Next Project

8555 123rd Street W
Savage, MN 55378

Phone 952.890.3555
masterelectric.com



For Those Who Choose Quality