

# PIPELINE

IT'S WHAT'S INSIDE THAT COUNTS

## SURLY BREWERY

Language barriers, working with a specialty brewery equipment engineer overseas, and unique soil conditions weren't enough to keep MMC from completing the new Surly Brewery project. MMC was the design-assist mechanical contractor on this exciting new project built for Owner Omar Ansari and Todd Haug, Director of Brewing Operations. MMC worked alongside General Contractor McGough Construction and HGA Architects and Engineers as well as Hunt Electric and other key contractors to build this highly anticipated attraction. After months in construction, the Surly Beer Hall opened for business on December 19, 2014. The 48,000 sq. ft. brew hall serves a full menu and, as you can imagine, offers many Surly beers on tap!

After the initial concept was designed by HGA, MMC's Design Team, led by Bill Hicks and Jamie Stark got to work designing the systems. Because of the brewing process and equipment, there were some unique heating and cooling requirements that factored into this mechanical design. Heavy steam is required for sterilizing equipment and heating the kettles involved in the brew process. The boiler plant consists of (2) 200 HP boilers capable of providing 13,800 lbs. of steam per hour and reaching full capacity within five minutes. The boiler plant provides steam not only for the brewing process, but it also provides steam to the domestic water heat exchanger that heats both 140 and 120 degree domestic water loops for the building. Chilled water is also needed for the process. The chilled water system maintains the temperature of the (6) 600 barrel fermentation tanks to a chilling 34 degrees, among the other brewery processes. Each one of the 600 barrel tanks can provide enough beer for 148,800 cans of Surly's many varieties of brews; over a dozen are on tap at time at their new Destination Brewery. Taking the design to a 3D fabrication drawing, MMC's CAD-BIM team led by Kip Olson, Jim Sicard and Cesar Sarzoza modeled 34,000 lbs. of sheet metal (equivalent to one million cans of beer); 3,800 feet of piping (which is almost  $\frac{3}{4}$  of a mile); and 12,200 feet (almost 2.3 miles) of above and below ground of plumbing.

During the installation, MMC worked along-side German brewery equipment manufacturing company Rolec. Rolec is world renowned for their brewery expertise and sends a traveling team all around the world to install their brewery equipment. Working alongside this team of German-speaking foremen paired with the fact that their equipment plans were drawn using the metric system presented unique challenges for our team that required one additional specialty team member—a translator! With occasional translation assistance from Omar Ansari's mother and a couple of metric-converting tools they worked through the language barrier and successfully installed the supply piping to the equipment. Unfavorable soil conditions in the area meant that 3,300 feet of the underground piping had to be installed by suspending the piping from the concrete of the ground floor above. Needless to say this was a complex system of piping and ductwork to install. Thanks to MMC Piping Foreman Mark Carlson, Sheet Metal Foreman Doug DeWeese, and Plumbing Foreman Paul Tinberg for working through these adverse conditions and successfully installing the systems!



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## MARK'S MESSAGE

What a winter we have had! I hope you found some time to get out of town and get a little warmth. Here's an update on what MMC has been up to.

### SOCIAL MEDIA

We are ramping up our social media program. We recently hired Laura Neary to be in charge of all MMC social media. I look forward to seeing more images and content concerning our great employees and our projects.

### LEADERSHIP

It's important in every company to develop leaders in every part of our business. We have been sending project managers and foremen to various leadership training programs. The majority of the programs are sponsored by APi Group. These programs teach current and future leaders about the practical aspects of being a leader.

### PEER GROUPS

MMC helped restart the APi Mechanical Construction Peer Group this winter. The concept is to bring together all of the mechanical companies. The agenda of these meetings involves: best practices, safety and other various hot topics. It is a great format to exchange ideas and to help each other improve. In addition, MMC is a member of a national Peer Group. The other companies are from California, Texas, Massachusetts, and Pennsylvania. The format is the same as the local group, but it adds a further dimension with the national point of view. It's interesting to learn what other companies have discovered and we have found value in the exchange of ideas.

That's about it for now. I'm looking forward to spring!

## SAFETY FIRST

Winter brings us many challenges and among them is driving. Whether it is a fleet of vehicles at your company or your own personal car, we all need to be reminded of the risks of driving in winter. Here are a few tips to help keep you safe while driving this winter season:

Keep your vehicle in good condition. Check your tires, battery, wipers and make sure all your fluids are topped off.

Don't let your gas tank get too low (in case of unexpected delays or emergencies).

Add extra weight over rear axle for added traction if needed.

Make sure you have an emergency survival kit (blanket, flashlight, jumper cables, shovel, food and water).

Don't use the cruise control on snow covered or slippery roads.

**SLOW DOWN** and increase your distance between cars.

Always buckle up for safety.

Be prepared and be safe while driving!



## FUN FACTS

Congratulations to Casey Campbell (assistant project manager), and his wife Michelle, on the birth of their son Hudson Fox who was born on January 28th. He weighed 7 pounds and was 18" long.

Congratulations to Katie Rendahl (accounting), and her husband Nick, on the birth of their son Jack O'Brien who was born on February 18th. He weighed 7 pounds, 9 ounces and was 21" long.

One of MMC's traditions is our annual chili contest which was held in the end of January. Congratulations to Project Manager Jon Fox who won first place for his amazing white chicken chili.

MMC's APM-2 Academy Series started this winter. The first session was all about project scheduling and schedule management. The APM-2 Series will run through the spring, followed by the start of a new internship/APM-1 Series where we will train in a new crop of APMs and interns.

MMC participated in the Adopt-A-Family Program this year by sponsoring two families in need during the holiday season.

## HOLIDAY CELEBRATIONS

MMC held its annual field holiday party in December at our shop in Eden Prairie. MMC was able raise over \$2,000 during a raffle, where all the money will be donated to Adopt-a-Family Program next holiday season. MMC also had an office holiday party in January at the Radisson Blu Mall of America, one of MMC's past projects. Employees enjoyed dinner, drinks and hotel stay. It has been a few years since MMC had an office holiday party. Everyone was excited to see the tradition come back!

During the field holiday party, we recognized MMC's 2014 retirees:

- Gerry Larsen, tinner
- Ron Wallraff, fitter
- Owen Schilling, plumber
- Gene Erdman, plumber
- Scott Handschug, fitter
- Steve Payne, fitter
- Paul Tinberg, plumber
- Dave Tinberg, plumber
- Don Jorgensen, plumber
- Bill Carlson, fitter
- Dan Haugan, tinner
- Tom Rieman, tinner
- Pat Omalley, fitter
- Brad Landsman, tinner
- Kevin Ryan, plumber
- Dan Snyder, fitter

Congratulations on your retirement!



Pictured Above from Left to Right: Mark Anderson, Dan Snyder, Kevin Ryan, Owen Schilling, Dave Tinberg, Gene Erdman, Bill Carlson, Tom Reiman, Dan Haugen, Chad Nelson, Brad Landsman, Joe St Martin, and Kristin Schultes



## NEW YEAR, NEW GOALS

### CONSTRUCTION

MMC's construction group is going into the 2015 construction season with a strong backlog. We are focusing on project selection and growth for the future. MMC construction noticed the need for a special projects division. Small to mid-sized specialized projects that have a need for design-build and a quick turnaround are what this project team will be focused on. Project Manager Jim Pexa will be taking the lead of this group to get a greater hold of this market.

Our emphasis on training and career development continues this year. The APM Academy session # 2 will focus on the lessons taught last year like estimating and design of plumbing, piping and HVAC systems but will also go a step further with coding, budgeting and scheduling of a project. After we finish session #2 towards the beginning of summer, we will run session #1 again. This will give new hire APM's and our summer interns a fresh start with all the basic knowledge of mechanical systems and project management.

### TECHNOLOGY

The MMC technology group is celebrating success in 2014, being awarded Honeywell ACI Elite status. This status ranks our technology group in the top 20 Honeywell contractors in the nation. In 2015, the technology group is focusing on growing our design-build presence and energy services market. The focus of our growth targets enterprise, campus style technology integrations including building automation, lighting control, security and video analytic and electrical power monitoring all on one truly open platform. With this growth comes the necessity of a new technology group APM academy starting April of 2015.

### SERVICE

The MMC service group is always on the lookout for ways we can improve productivity and create a safer and more efficient work place for our employees and customers. In past years we have addressed the technology side to streamline our processes and generate better documentation for our customers. This year we are shifting our focus to the fleet of service vehicles in the field. Currently in a pilot a stage, MMC is experimenting with new types of service vehicles. During the testing phase, MMC will be looking at three main metrics; road safety, worksite productivity, and fuel efficiency. We are looking forward to improving this aspect of our department to provide the best possible workplace for our employees while continuing to place emphasis on providing a better product for our customers.

### DESIGN

On January 26th, Kelly Brandenburg joined the design group. Kelly is a recent graduate from the University of St. Thomas with a degree in Mechanical Engineering. Kelly spent the last two summers as an intern at MMC in both the construction and design groups. We are fortunate to have her join our team full-time.

The design group continues to move forward utilizing Revit design software. This is a great design tool when working with architects and building owners. Revit design will help streamline the fab process with our in-house virtual building systems group.

### VIRTUAL BUILDING SYSTEMS

MMC's Virtual Building Systems group has grown with the market over the past few years and has logged over 40,000 man hours in 2014. Our 20 BIM experts support a field workforce with an impressive 1:25 ratio. A recent article in a construction publication stated "All the interest in and adoption of BIM in virtual design and construction (VDC) contractors and owners demand access to BIM capabilities in order to streamline project completion. Forecasts for BIM in Construction foresee a 17% increase over the next few years and that is an increase in the use of BIM alone. One of the major factors driving the growth of BIM market is the reduction in cost and increased production efficiency of the entire project." The BIM team is looking forward to these great opportunities.



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### EMPLOYEE SPOTLIGHT

DEAN THOMPSON  
Plumbing Foreman

Dean Thompson started with Doody Mechanical in 1981 and became part of MMC when the two companies merged back in 2011. Dean is a plumber foreman currently working at Methodist Hospital.

Where did you grow up?  
St. Paul, MN

What is one of your greatest traits?  
Loyalty

What is your favorite TV show?  
The Big Bang Theory

What is the one, single food that you could never give up?  
Steak

If I wasn't doing this I'd be...  
A hunting guide.

Something most people don't know about me?  
I like to garden.

The thing I am most afraid of is?  
Sailing

What is the best advice you ever received?  
Have a plan before you start.

What is your most missed memory?  
My high school rodeo days.

What is your worst pet peeve?  
Excuses

The world would be a better place if...  
People would talk less and listen more.