

McNEIL ENGINEERING™

Economic and Sustainable Designs, Professionals You Know and Trust

EPICENTER

SUMMER 2023



THIS CALLS FOR A CELEBRATION!

To each of our trusted partners and clients I am writing to express our heartfelt gratitude for your unwavering confidence and support throughout our journey. Your trust has been the cornerstone of McNeil Engineering's success, and we are honored to have served you as esteemed clients. It was an absolute joy to see so many of you at our 40th-anniversary celebration at TopGolf in June, and your presence made the occasion truly special.

As we reach this milestone, we deeply value each and every one of our employees and team members, past and present, who have contributed to our firm's growth and achievements. Their hard work, dedication, and passion are the driving forces behind our success. As we look ahead to the future, we are excited about the prospect of continuing our collaboration and building a better tomorrow together.

Once again, thank you for your continued support, trust, and friendship. We are grateful to have you as part of our extended McNeil Engineering family, and we eagerly anticipate many more successful years ahead.

With warmest regards,

Mike Hoffman
President, McNeil Engineering

MCNEIL ENGINEERING
SUMMER 2023
NEWSLETTER

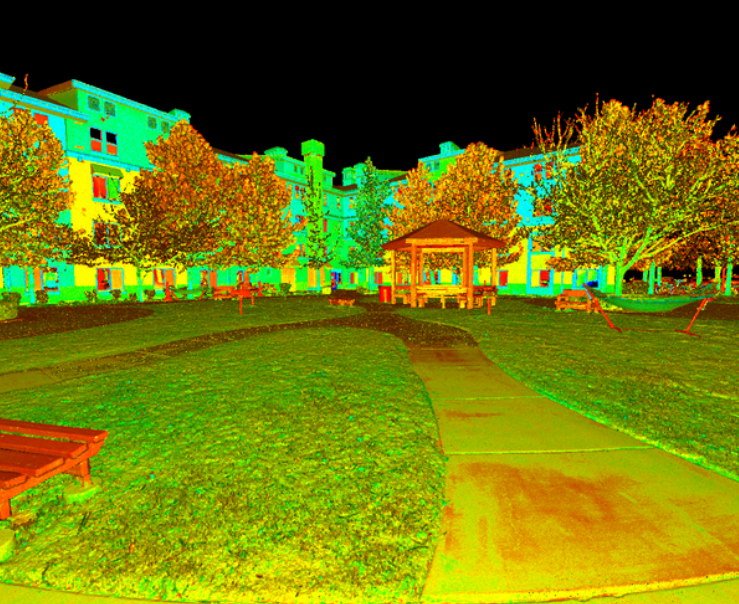
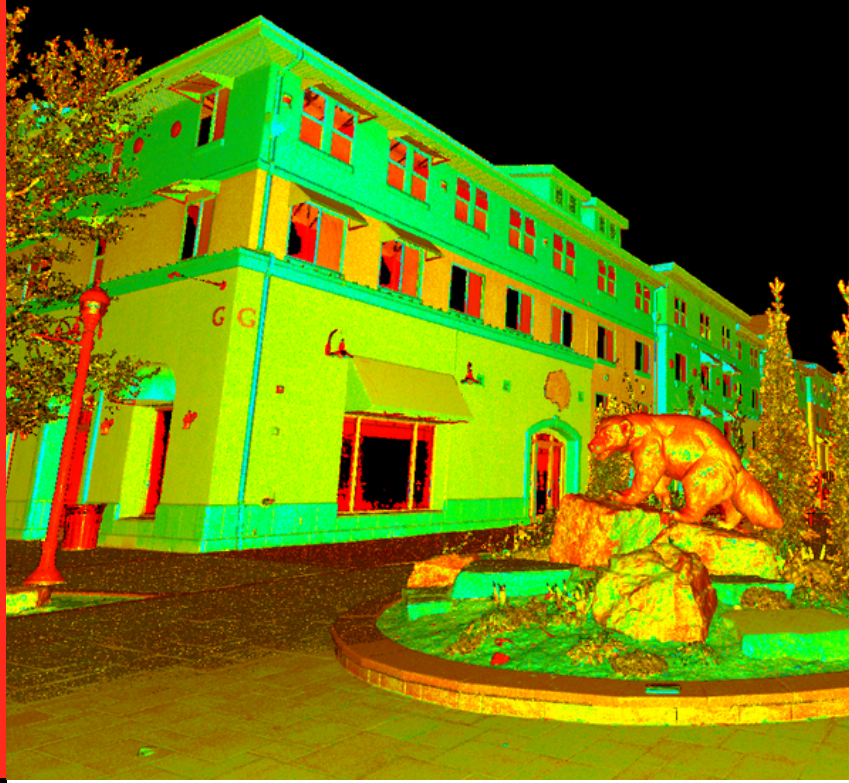
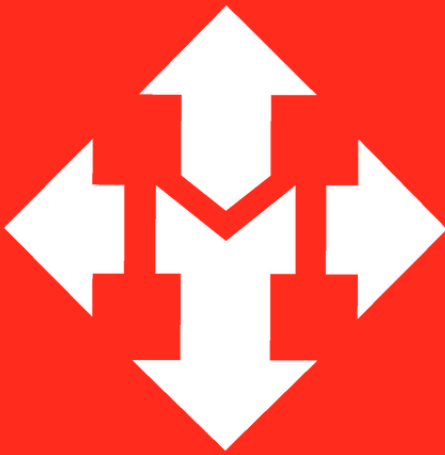
EPICENTER

40 Year Celebration

Project Highlights

Employee Spotlight

WOLVERINE CROSSING



Contact

Michael D. Hoffman, P.L.S
Survey Manager
mike@mcneileng.com
801.255.7700

MCNEIL SURVEYING

Led by Elizabeth McReynolds and Hudson Draper of our Surveying Department, this project involves an ALTA/NSPS Land Title Survey of the Wolverine Crossing Off-Campus Student Housing near Utah Valley University.

ALTA stands for American Land Title Association, while NSPS stands for National Society of Professional Surveyors. These are two organizations that have established standards for land surveys, which are designed to provide accurate and comprehensive information about a property's boundaries, easements, and other related details. Our team was brought on to ensure these standards are being met as the

University continues to grow and develop. To perform this survey, our team used specialized equipment and software, such as a Leica P40 Scanner, which is a high-tech device capable of capturing precise 3D images and measurements of a property. The scanner is used to gather data on the property's features, including the structures on the campus as seen in the images here.

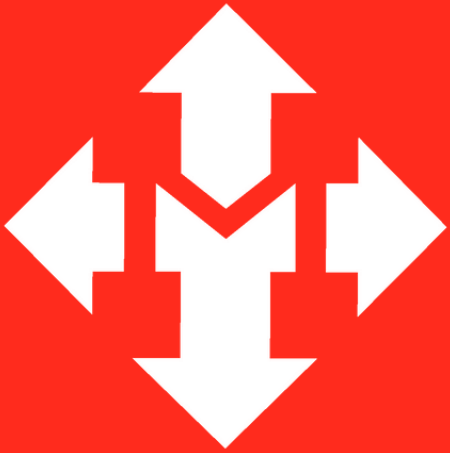
After collecting the data in the field, our team has to interpret and analyze it in the office. Using specialized software and high-powered computers our team inputs the data and creates a detailed land parcel map. This map includes an extremely detailed breakdown including information such as the location of property boundaries, the placement of structures and other improvements, and any easements or other encumbrances that affect the property.

The final product of all of this effort is a comprehensive report that includes all of the information gathered during the survey and via the Leica P40 scanner and includes detailed maps and diagrams that help to illustrate the results.

Overall, performing an ALTA/NSPS Land Title Survey is a complex and time-consuming process that requires a high level of skill and expertise. By using specialized equipment and software, our team can gather and analyze data in a highly accurate and efficient manner, which helps to ensure that the resulting report is as comprehensive and useful as possible. Don't hesitate to reach out to our team here at McNeil Engineering with any questions about your property or Surveying in general.



MUNICIPAL ELEMENTARY



Contact

Carl Greene
Consulting Manager
carl@mcneileng.com
801.255.7700

MCNEIL CONSULTING

Our Consulting Department at McNeil Engineering recently completed an exceptional project, the Municipal Elementary School Re-Roof, in collaboration with the Weber School District. Our team's well of experience and commitment to excellence allowed us to tackle the unique challenges of the project with confidence and precision.

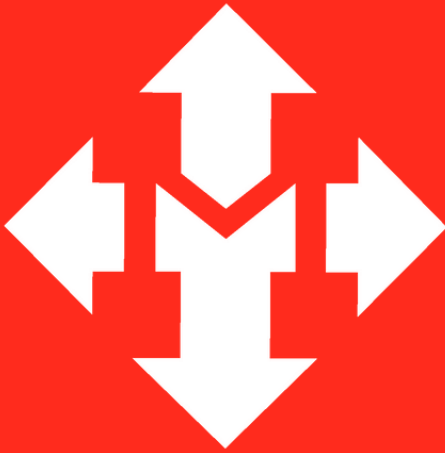
From the outset, we prioritized a thorough approach. We meticulously removed all existing roofing materials down to the insulation and wood decking, ensuring a solid foundation for the new single-ply roofing system. Sustainability was also a core focus, as we recycled existing metal flashing and counterflashing, promoting environmental responsibility.

Our expertise came into play as we addressed the specific concerns of the Weber School District team. We installed a new 80 mil PVC fully adhered roofing system over 1/2" coverboard per our stringent specifications. With the help of tapered insulation, we created new crickets behind mechanical units, curbs, and chimneys, ensuring efficient drainage and preventing water pooling.

The Municipal Elementary School Re-Roof project stands as a testament to our collaborative and detail-oriented approach. We take pride in delivering solutions that not only meet industry standards but also cater to the unique needs of our clients. The result is a durable, reliable, and sustainable roofing system that provides lasting protection for the school. Our commitment to excellence remains unwavering, and we look forward to continuing to deliver exceptional results for future projects.



IN N' OUT



MCNEIL CIVIL ENGINEERING

McNeil Engineering's exceptional Civil Engineering team, led by Ted Didas, played a pivotal role in the expansion of In n' Out Burger to Logan, Utah. With a well of Civil Engineering expertise, the team crafted ingenious site layouts, meticulously designed paving plans, and expertly executed grading and drainage strategies. Their experience in site utility design seamlessly integrated critical infrastructure. These remarkable Civil site plans laid the bedrock for In n' Out Burger's prosperous venture, illustrating McNeil Engineering's indispensable contribution to the restaurant chain's new chapter of success. Moreover, the team's synergy extended to encompass Surveying and Landscape Architecture, adding layers of excellence to this achievement.

But McNeil Engineering's expertise doesn't stop there. With dedicated Surveying and Landscape Architecture teams working in tandem, the project reached new heights of efficiency and excellence. The meticulous ALTA and topographic surveys ensured accurate groundwork, while construction staking provided a seamless bridge between concept and realization. Furthermore, the Landscape Architecture team's artistry shone through in their thoughtful planting plans and innovative irrigation system designs. This all-encompassing collaboration, nurtured in-house, exemplifies McNeil Engineering's commitment to delivering unparalleled results with harmonious synergy, making their mark as the driving force behind In n' Out Burger's Logan success story.

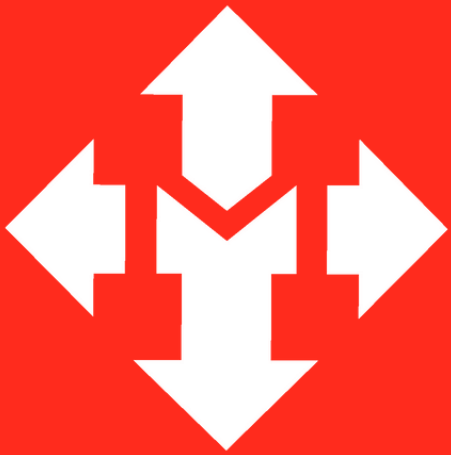


Contact

Robert Poirier
Civil Engineering Manager
rob@mcneileng.com
801.255.7700



STATE CAPITOL



MCNEIL LANDSCAPE ARCHITECTURE

Under the leadership of Landscape Architect Scott Schoonover, the McNeil Engineering team assisted with the Utah State Capitol Tree Irrigation project, a pivotal endeavor that epitomizes Utah's steadfast commitment to responsible water management. In the face of the state's resolute water conservation initiatives, the project was strategically devised to address potential lawn irrigation restrictions while safeguarding the health and vitality of the iconic Capitol trees.

Guided by Schoonover's expertise, the entire team at McNeil Engineering Landscape Architecture demonstrated an unwavering dedication to innovative solutions that marry environmental consciousness with cutting-edge engineering. This approach aligned seamlessly with the broader goals of Utah's water initiatives. Through the strategic integration of state-of-the-art irrigation technologies, meticulous water distribution planning, and meticulous scheduling, the team orchestrated an irrigation system that serves as a testament to their dedication to eco-conscious practices. By ensuring the essential hydration of the Capitol's trees even in the face of water conservation measures, the project highlighted the team's meticulous commitment to quality design.

Scott Schoonover's leadership and the collective ingenuity of the McNeil Engineering team not only underscored the importance of efficient water management but also set a commendable precedent for responsible resource utilization. Through their innovative endeavors, they not only safeguarded the grandeur of the Utah State Capitol's landscape but also contributed to the ongoing dialogue surrounding ecological stewardship and thoughtful engineering practices.

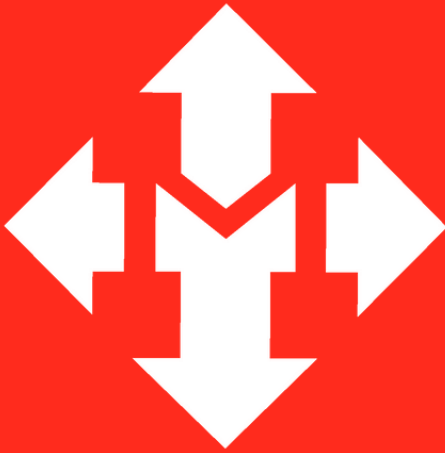


Contact

Scott Schoonover
Landscape Architecture Manager
scott@mcneileng.com
801.255.7700



SUGAR HOUSE CROSSING



MCNEIL STRUCTURAL ENGINEERING

In the heart of the rapidly growing community of Sugar House, Utah, is Sugar House Crossing. Led by Brian Warner and the skilled team at McNeil Structural Engineering, it's a mixed-use development featuring three levels of below-grade parking, a bustling street-level commercial space, and five levels of lovely timber-framed apartments—200 of them, to be precise.

The site came with its share of challenges, but Brian and his team tackled them head-on by incorporating a sophisticated shoring system to support the foundation. Their engineering approach was nothing short of visionary.

With the latest in architectural technology, the design team, along with Richardson Design and Oakland Construction, collaborated seamlessly with McNeil Structural Engineering, utilizing CAD software Revit Structures to create a fully integrated physical and analytical model. This streamlined the entire BIM design process, resulting in a functional yet aesthetically pleasing space. The parking and commercial areas boast stable post-tensioned floors, while the foundation comprises solid concrete walls and columns. On the upper floors, you'll find charming timber walls with plywood web joists, and the roof structure stands out with impressive prefabricated trusses.

Sugar House is undeniably one of Utah's fastest-growing communities, and Sugar House Crossing adds to its charm with a remarkable project that is a testament to the quality approach of all involved. It's a testament to their skill and commitment, enhancing the area with a blend of modern design and practicality.



Contact

Matthew Roblez
Structural Manager
matt@mcneileng.com
801.255.7700



EMPLOYEE SPOTLIGHT



ELIZABETH MCREYNOLDS

How long have you worked at McNeil Engineering?

I have been with McNeil for 12 years (as of April 2023) 😊 Since I was 16 years old.

What do you find the most challenging working at McNeil Engineering?

I feel challenged with my work at McNeil in an extremely positive way, every single day. I'm learning so much, and I'm excited to see where it takes me. I would say in general though, as a parent, finding balance and juggling everything that comes with it and my professional life has been a challenge. Special shoutout to everyone that does it or has done it, it's not for the weak!

What do you like most about working at McNeil Engineering?

Being able to shadow my own father and learn the art of surveying from his expertise has been one of the most rewarding challenges of my life. The surveying team at McNeil is supportive in furthering our education and personal growth and I'm extremely fortunate to benefit from it. I appreciate the flexibility for those of us who are juggling multiple "life things" at once-the option to work from home has saved me so much being a mom of two small kids, and it really feels like McNeil empathizes with their employees a lot in that way.



What has been your favorite project at McNeil Engineering?

At this point in my time with McNeil, there are so many. It's difficult to pinpoint just one, because one of my favorite things about surveying is how it's always somewhere different. If I had to pick one though, I would say the one that sticks out to me the most was when we scanned a famous person's house in California. I helped stitch the data together in the office-I wasn't the person on site, but it was still so cool to be a part of!

Where were you born and raised?

Born and raised in Salt Lake City, Utah!

Motto or personal mantra?

As above, so below.

What are three career lessons you've learned thus far?

1. Trust yourself- if you can arm yourself with the tools you need to break through the barriers you have within your own mind, you can do anything you set your mind to.
2. Trust the process-professional evolution can take time but every second counts.
3. Mistakes are lessons-learn from them. Don't be afraid to try because you are afraid of failing.

What is something you've always wanted to try and never have?

I always thought it would be so cool to be a gymnast if I hadn't gone down the dance route initially.

What do you like to do in your spare time?

I'm a mom of two small boys close in age so if I'm lucky enough to have spare time you'll find me sleeping 😊 Otherwise, I love to be in the mountains or adventuring somewhere. I love to read, keep a various number of plants alive (mostly), hoop dance and going to concerts. I love candle magic, crystals and studying the supernatural. Spending quality time with the people I love is the most important thing to me in the world.

What are your top 5 bucket list items you want to accomplish?

1. See a ballet at the New York City Ballet.
2. Visit Paisley Park & First Avenue in Minneapolis, Minnesota.
3. Take my kids to every single National Park in the US 😊
4. Ireland- need I say more?
5. Join a Hoop Troupe

What is your hidden talent?

I would say hooping 😊 Lots of people don't know how many cool things you can do with a hula hoop. I've been self-teaching with YouTube, Instagram and TikTok since 2017. I was a ballet dancer from ages 3-18 until I had to have surgery on both of my feet, so hula hooping has been a way for me to keep dance incorporated into my adult life since healing.