

NEWS & VIEWS OF ELECTRICAL INSTALLATIONS, INC.



Looking Back on an Unforgettable Year

2020 was a year like no other with challenges that we never could have imagined. Unlike many businesses, we were fortunate to be deemed “essential” and we were allowed to continue working, our employees continued to receive weekly paychecks, and we were able to fulfill our contractual obligations for timely and successful project completion. It wasn’t quite business as usual but we are thankful to have enjoyed a normalcy that so many others had lost. Most of all, we are thankful that, although COVID-19 did penetrate our defenses, every member of the EI family is well and vaccinations are now underway.

Despite unprecedented challenges, 2020 was not without its accomplishments. These included a stellar safety record, major improvements to our property and buildings, and establishing a substantial project backlog that will challenge us in the months to come. Some of our most significant 2020 accomplishments are highlighted below.



- ◆ EI employees worked a total of 59,920 hours, all without a lost time injury.
- ◆ EI vehicles were safely driven 386,535 miles throughout New England without a mishap.
- ◆ We followed CDC guidelines and all who quarantined, and/or may have contracted COVID-19, have made full recoveries.



Repairs & Improvements

PARKING LOT PAVED
Long overdue—no more lumps, bumps, or rocks!



NEW SEPTIC SYSTEM
Failure of the old system was imminent.

NEW HVAC SYSTEM

Our ancient oil burner has finally retired!



LED lighting

LIGHTING UPGRADE

80 fixtures replaced with LED, earning a 75% rebate from our electric provider.





EMPLOYEE SPOTLIGHT



- 1/10 Annette Chamberlain**
- 1/18 Cory Glines**
- 1/18 Christian Brosious**
- 2/1 Ben Fritz**
- 2/4 Tom Therrien**
- 2/8 Iaian Thorner**
- 2/23 Mitchell Leary**



- Tom Therrien 24 Years**
- Mike Leary 22 Years**
- Chris Brosious 9 Years**

We are pleased to announce that, on November 5, 2020, Andy Fritz became EI's newest Master Electrician. This is a great accomplishment which will allow him to assume additional responsibilities. Way to go Andy!

UPCOMING PROJECTS

Bridgewater, MA—High Street WTP
Total Mechanical Services Corp.

Kingston, MA—Manganese Removal Treatment Facility
Winston Builders Corp.

Ossipee, NH—Berry Bay Dam at Ossipee Lake
Charter Contracting Co, LLC

Portland, ME—WWTF Aeration & Clarifier Upgrade
Penta Corp.

Portsmouth, NH—Madbury Backwash I & C
Northeast Earth Mechanics, Inc.

Sharing our Blessings

Throughout the years, we have always shared a portion of our profits with those in need at Christmas time. This year, however, the pandemic created even more need with lost jobs, quarantines, business closings, and other hardships.

We are proud to report that, as Christmas approached this year, EI donated over \$45,000 to 21 outreach-centered charities including The Salvation Army, St. Vincent de Paul, Cash-N-Cans, Habitat for Humanity, Interlakes Community Caregivers, Meals on Wheels, David's House, New Horizons, NH Food Bank, Dana Farber/Jimmy Fund, UMCOR, Visiting Nurse Home Care & Hospice, Lakes Region Food Pantry, Child Advocacy Center, Pine Street Inn, and others. Please know that you who enable our success have also touched the lives of many who are in need. Thank you for contributing to this wonderful team effort!

Factoid of the Month

In the US, about 190 million Valentine's Day cards are sent each year, not including the hundreds of millions of cards school children exchange.

Valentine's Day is a major source of economic activity with total expenditures topping \$18.2 billion in 2017, or over \$136 per person!

Number of hours worked
without a "Lost Time" Injury **138,398**

HAPPY Valentine's Day

Our apologies for this delayed edition of *The Conduit*. We can legitimately blame the pandemic and the additional challenges it posed at our most difficult time of the year.



The Conduit



Volume 18, Issue 2
March & April 2021

NEWS & VIEWS OF ELECTRICAL INSTALLATIONS, INC.

FEATURED PROJECTS SCADA & Telemetry Upgrades Hooksett, NH



For several years the Hooksett Village Water Precinct (HVWP) grappled with solving the problem of how to locate a new water storage facility in an existing crushed stone quarry—a location where there was no practical way to provide power. Working closely with Lewis Engineering, Electrical Installations played an important role in implementing what was found to be a resourceful solution. A utility building with a solar panel and standby LPG generator would be constructed. EI provided a solar-powered RTU in order to monitor tank level and seismic activity as blasting was still a part of the quarry's operation. We also replaced existing, outdated DEVAR radio monitoring equipment at the main well site and two existing tanks. All equipment for this project was supplied and installed with start-up and operator training by EI.

Subsequently, we were asked to assist in the electrical and control upgrades that were being performed at two of the well sites. Brian and Darlene Chevrette took the information that they were given and designed panels that were built, installed, and are presently in operation. At the same time, a VPN tunnel was set up between the main well site and the HVWP office. This connection allows the operators access to all of the tanks and well sites via a new SCADA computer. Lastly, we were asked to utilize the newly installed PLC/Radio system to more efficiently control the heat at all of the stations.

Special thanks to Neil Davis, Iaian Thorner,, Brian & Darlene Chevrette, Andy, Zack, Ben & Jimmy Fritz and to Project Manager, Jim Fritz, all of whom contributed to the successful completion of these innovative projects.





EMPLOYEE SPOTLIGHT

- 3/10 Eva Fritz
- 3/31 Shane Pouliot
- 4/21 Maggie Gouette
- 4/30 Brian Chevrette



Anniversaries

- Matt Blood 17 Years
- Tom Brosious 17 Years
- Jared Leary 11 Years
- Zack Fritz 11 Years
- Andy Fritz 9 Years
- Ben Fritz 8 Years

Congratulations!

We have added another Master Electrician to our ranks! Congratulations to Ben Fritz for passing his Master Electrician exam on February 5, 2020. Way to go, Ben, we're excited for your future!

YOUR VOTE COUNTS

Be sure to vote for your employee representatives to EI's Joint Loss Management Committee. Ballots will be counted March 15th.



Factoid of the Month



The shamrock, a three-leaf clover, has been associated with Ireland for centuries. It was called the "seamroy" by the Celts and was considered a sacred plant that symbolized the arrival of spring. According to legend, St. Patrick used the plant as a visual guide when explaining the Holy Trinity. By the 17th century, the shamrock had become a symbol of emerging Irish nationalism.

SAFETY SPOT



Construction has a much higher rate of eye injuries than any other industry with thousands of lost time eye injuries each year.

Our Safety Director reminds us to always wear goggles or safety glasses with side shields. If you wear contact lenses, wear unvented goggles. Goggles or safety glasses must fit over any prescription glasses you need and must properly fit you.

Always wear eye protection:

- If there will be a lot of dust
- For any overhead work
- When using any power tool

Fortunately, the eye injuries that EI has experienced over the years have been minor in nature but all were as a result of working without proper eye protection. Don't risk your eyesight...go for the goggles!

Number of hours worked without a "Lost Time" Injury **147,949**

Spring Forward!
March 14, 2021





The Conduit

Volume 18, Issue 3
May & June 2021

NEWS & VIEWS OF
ELECTRICAL INSTALLATIONS, LLC

FEATURED PROJECT

Cohas Pump Station Improvements Manchester, NH

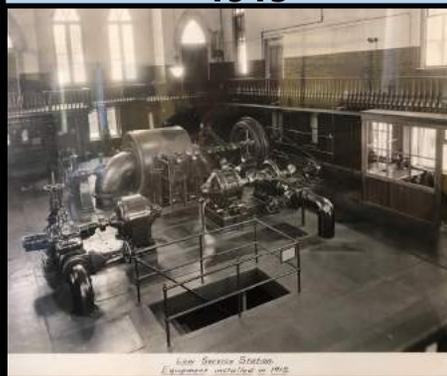
The Cohas Pump Station Project included a complete electrical and pump upgrade for Manchester, NH Water Works. The existing pump station structure was built in the 1800's and the hydro wheel we worked on was installed in the early 1900's. This challenging project included the demolition of an existing 34.5KV substation, installation of all new primary yard poles, 34.5KV disconnects and switching, along with a new 34.5KV surge protection system. Two new pad mount transformers were installed; one for the 480 volt secondary power system for pumps and lighting, the other for a 2500 volt hydro generation wheel that generates electricity when the lake elevation of Lake Massabesic supports spillover. This station has three water booster pumps (2-150hp and 1-300hp). They provide boosted, treated drinking water from the main treatment plant out to the system for customers' use, and they also fill two storage tanks in the Town of Londonderry.

Prior to this upgrade, the station had all variable frequency drives (VFD's) and lighting transformers running on a 2500 volt supply system. A portion of the project involved removal of all the old gear and replacement with a 480 volt system and new 480volt VFD's to meet the horsepower of the new pumps. This was a difficult task as the system needed to remain running 24 hours a day and down time was not an option.

This project posed many challenges and involved many of EI's areas of expertise. Work included High Voltage systems, VFD installation and programming, Programmable Logic Controllers (PLC's), UL listed industrial control panel fabrication, and programming of the system to meet the customers' needs. From lights and receptacles, to heating and ventilation, we did it all. Special thanks to Frank Capri, Neil Davis, Craig Sharpe, Andy and Ben Fritz, and to Project Manager, Chuck Fritz for meeting the challenges of this historic project.

1915

2020



Number of hours worked
without a "Lost Time" Injury

157,694





EMPLOYEE SPOTLIGHT



Anniversaries

Cory Glines	16 Years
Eva Fritz	15 Years
Casey Damon	14 Years
Mitchell Leary	7 Years
Iaian Thorner	2 Years

is now

Did you notice the small change in our name? This was done for tax purposes and, other than that, it is “business as usual”. It is very important that all use of our name and logo is now done in the LLC format. This includes all correspondence using our letterhead, email signatures, bid letters, and any other documents. Thanks for your help!

Factoid of the Month

The highest officially recorded number of children born to one mother is 69, to the first wife of Feodor Vassilyev (1707-1782) of Shuya, Russia. Between 1725 and 1765, in a total of 27 confinements, she gave birth to 16 pairs of twins, seven sets of triplets, and four sets of quadruplets. 67 of them survived infancy.

HAPPY MOTHER’S DAY!

SAFETY MAT-

The number 1 OSHA violation for 2020 was lack of adequate fall protection.

Importantly, when working at a height of over 6 feet you must use fall protection. In our business this most commonly entails “tie offs”. Generally, you must be secured with a safety harness to an approved anchor. The small amount of time required to tie off can prevent serious injuries.

Be sure to inspect ladders before use!



We are pleased to announce our new banking relationship with our friends at...

MEREDITH

VILLAGE SAVINGS BANK



The Conduit

Volume 18, Issue 4
July & August 2021

NEWS & VIEWS OF
ELECTRICAL INSTALLATIONS LLC



FEATURED PROJECT Peirce Island Wastewater Treatment Facility Upgrade Portsmouth, NH

After many years of planning, design, and construction, Electrical Installations' largest ever controls project is coming to a successful conclusion. This has been the largest and most ambitious capital improvement project in the history of the City of Portsmouth and final cost is estimated to be nearly \$100M. EI has been the sole systems integrator and instrumentation supplier on this, and many other projects, for the City of Portsmouth.

This has been an extremely challenging project. Spanning nearly 5 years, construction of this modern treatment facility, located on a very small site, while keeping all treatment operations fully functional, has been a daunting task. The technology employed by EI in this facility is absolute state-of-the-art and fully integrated high speed ethernet controls have been employed wherever possible. The Peirce Island WWTF project progressed smoothly and professionally due to close collaboration with project general contractor, Methuen Construction, and project engineer, AECOM. We are proud to report that the plant is now fully functional with final effluent well within limits set by the EPA and, overall, expectations have been exceeded. Many thanks to the numerous EI employees who assisted in the successful completion of this unprecedented project.





EMPLOYEE SPOTLIGHT



HAPPY WORK ANNIVERSARY

Brian Chevrette	25 years
Darlene Chevrette	25 years
Neil Davis	25 years
Jimmy Fritz	11 years
Annette Chamberlain	5 years
Shane Pouliot	4 years
Landon Keyser	1 year

Jimmy Fritz	July 1
Craig Sharpe	July 9
Darlene Chevrette	July 9
Landon Keyser	July 21
Charlie Fritz	July 28
Sheri Keirstead	August 9
Andy Fritz	August 11
Zack Fritz	August 26



WELCOME TO THE TEAM



We are excited to announce that we have two new additions to the EI Team!

Sheri Keirstead is our new Accounts Payable & Accounts Receivable Specialist. Sheri lives in Alton Bay. She comes to us with a vast amount of construction experience from her many years at PC Construction. In her spare time Sheri enjoys reading and going to the beach.

Caleb Drouin joins us as an Apprentice Electrician. Caleb lives in Belmont and is currently working with Neil Davis. He recently graduated from Lakes Region Community College where he studied electrical installations and maintenance. He enjoys playing hockey & golf in his spare time.

Congratulations!

We are proud to announce that Zack Fritz earned his Master Electrician license on March 12th. Zack has now assumed additional responsibilities as a result of this significant accomplishment. Way to go!

(The Editor apologizes that this news item did not appear in our previous edition)

UPCOMING PROJECTS

Manchester, NH – WWTF Solids Train Upgrade
PC Construction

Bangor, ME – Butler WTF Ozone Upgrade
T Buck Construction, Inc.

Hooksett, NH – Merrimack River WTP & PS
Methuen Construction

Deerfield, MA – WWTF Phase 1 Upgrades
Waterline Industries Corp.

Holliston, MA – Greensand Filtration
Facility Well No. 5
Robert B Our Co., Inc.

Factoid of the Month



Every 4th of July the Liberty Bell in Philadelphia is tapped (not actually rung) thirteen times in honor of the original thirteen colonies.



Number of hours worked
without a "Lost Time" Injury **167,129**

The Conduit

Volume 18, Issue 5
September & October 2021

NEWS & VIEWS OF ELECTRICAL INSTALLATIONS LLC

FEATURED PROJECTS Hampton, NH Wastewater Treatment Plant Phase 1 Upgrades

The Hampton, NH Wastewater Treatment Plant - Phase 1 Upgrade project, awarded to Penta Corporation in August 2020, is the first phase in a multiple phase approach to help bring the city in to compliance with current EPA requirements. The \$12 million project covers a vast scope of work including, comprehensive upgrades to the towns Headworks, Primary Clarifiers, Gravity Thickeners, Operations Building and Aeration Systems. Electrical Installations' \$2.3 million contract with Penta Corp. includes all electrical and instrumentation upgrades.



El Project Manager, Cory Glines, is spearheading the project, along with Supervisor, Craig Sharpe, and Foreman, Frank Capri. The electrical upgrades have been challenging, but the EI electrical team has worked professionally and safely to bring this old plant up to date, while keeping it operational. With the help of the EI instrumentation design team, Brian and Darlene Chevrette, all new ethernet based control panels have been built in the Moultonboro panel shop by Casey Damon and installed on site to upgrade the antiquated plant network. Equipment startups have commenced and EI is on track to finish well within the two-year time frame. A big thank you to everyone involved with this project, including those mentioned above as well as Neil Davis, Colby Sharpe, Caleb Drouin, and of course, the EI office staff.



Number of hours worked
without a "Lost Time" Injury

178,880

SAFETY IS



NO ACCIDENT



EMPLOYEE SPOTLIGHT



9/9	Chuck Fritz
9/14	Casey Damon
9/17	Jim Fritz
9/20	Jared Leary
10/8	Colby Sharpe
10/11	Frank Capri
10/28	Darlene Fritz

Anniversaries

Kim Souza	13 Years
Chuck Fritz	34 Years
Jim Fritz	34 Years
Darlene Fritz	34 Years
Charlie Fritz	34 Years

SAFETY MATTERS

According to the National Institute of Occupational Safety & Health in 2018, the most common cause of Confined Space deaths was due to atmospheric gases.

Utilizing gas detectors and ensuring they are properly calibrated is the most important way to remain safe when working in confined spaces.

If you have questions about your gas detectors contact your Supervisor or your Safety Director.



With summer coming to an end and schools reopening, it is important to remember to slow down and share the road with school buses, children walking and those riding bicycles.

Did You Know?



Casey Damon has been promoted to Panel Shop Manager. After 14 years working in the panel shop, he is more than capable, and we are excited to have him lead the manufacture of our UL listed industrial control panels.

Shane Pouliot was recently promoted to Safety Director. After 4 years with the company and noting his keen attention to detail, we feel he is uniquely suited to take on this role!

Factoid of the Month



Did you lose weight over the summer? As we move into the colder months remember, not all weight gain is food related. Researchers have found that lack of vitamin D reduces fat breakdown and triggers fat storage. So, the lack of sunlight has more to do with the extra gain than all the pumpkin spice lattes. Well, at least some of it.

Happy 34th Anniversary!



Electrical Installations, LLC
 Engineering • Construction • Control Systems
 ~Moultonboro, NH Westport, MA~

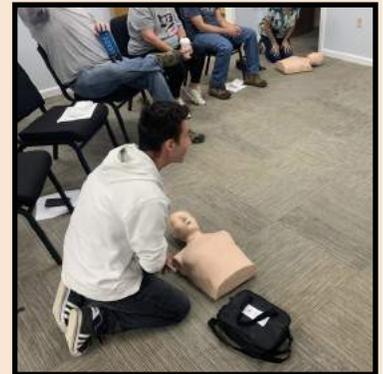
NEWS & VIEWS OF ELECTRICAL INSTALLATIONS, LLC



First Aid, CPR, & AED Training

Once again, the EI team has updated First Aid, CPR and AED certifications. This year we utilized a hybrid course that required new and recertifying employees to complete a four-hour online training portion prior to participating in the in-person skills session. Feedback on the two-part blended learning format was positive.

We are pleased to report that twenty-seven employees have successfully completed training and received two-year OSHA-compliant Red Cross certification. In an effort to accommodate this large group and maintain social distancing, two sessions were provided. Special thanks to Ashley Wright of Central New Hampshire Safety Instruction for sharing her knowledge, and to Horizon Solutions for use of its Manchester, NH facility.



**GIVE
THANKS**
FAMILY • FRIENDS • GRATITUDE

Number of hours worked
without a "Lost Time" Injury

188,153



EMPLOYEE SPOTLIGHT



Happy Birthday!

11/2	Mike Leary
11/9	Neil Davis
11/14	Tom Brosious
12/4	Aaron Triehy
12/20	Kim Souza

Happy Anniversary

Craig Sharpe	12 Years
Frank Capri	4 Years

welcome

Aaron Triehy is our newest electrician apprentice and is currently working alongside Zack Fritz on multiple projects. Aaron lives in Manchester and, in his spare time, enjoys hiking and photography.

Gracey Boucher, a participant in the Moultonborough Academy Apprenticeship Program, is working with Casey Damon in the Panel Shop, part-time, building control panels. When Gracey isn't in school or working, she enjoys soccer and hiking.

EI CHRISTMAS PARTY

Saturday, December 11, 2021
 6:00 PM—9:00 PM
 Lemon Grass
 64 Whittier Hwy (Route 25)
 Moultonborough, NH

*From all of us
to all of you*

*Christmas
Blessings*

**Fall Back
1 Hour**

NOVEMBER 7, 2021