

Local 17 Completes Over Three Miles of TIG Welding



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Local 17 member Bill Adams has been an SMWIA welder for 18 years now, and he says that the Boston Convention and Exhibition Center roof repair project by Titan Roofing, Inc. is the biggest Tig (GTAW) welding operation he's seen or taken part in since he started welding 22 years ago. Titan Roofing, Inc. is a signatory contractor with Local 17 and is the General Contractor on the roof repair project.

Due to a design flaw in the original roof construction, snow would accumulate against the parapet and build up past the gutter panel transitions, resulting in numerous leaks and the need for multiple repairs. The critical task of the roof repairs project has been the cutting and removal of over 3,000 linear feet of the existing Bemo aluminum standing seam panel roof in order to raise the height of the gutter liner. This is accomplished by welding additional stainless steel sheets onto the existing 5' wide gutter.

All the new gutter extensions are

fully Tig welded, and overall there are over three miles of joints and seams to be welded, including approximately 3,000 feet of new fully welded stainless steel parapet cap, new fully welded gutter expansion joints every 28' on center along the entire length of gutter, 42 stainless steel sumps with fully welded drain flanges and downleaders, two new complicated and fully welded 40' long x 18' wide crickets, along with hundreds of feet of miscellaneous welding at building expansion joints and other details.

No fewer than eleven welders are onsite working within their wind-shield tents to complete the work. Titan Roofing, Inc., the engineer's metallurgist, and an independent inspection agency inspect each weld. All inspectors involved have been impressed with the quality of the welds, especially considering the weather, wind, and difficulty of the various welding positions. All welding personnel are AWS certified and are held to high expectations regarding

weld quality.

Titan Roofing's foreman is overseeing, on average, 24 men completing various tasks on all locations of the roof. The crew is staying ahead of the welders with cutting, underlayment, sheet layout and the panel un-seaming and seaming procedures that need to occur prior to the welding. They are also responsible for many other details such as the installation of 3,000 feet of aluminum coping cap, miscellaneous flashings, bracket installation for the heat trace system, and the relocation and reinstallation of over 9,000 linear feet of snow guards.

John Maguire, project manager for Titan Roofing, states, "The professionalism of the Local 17 crew and welders continues to move the project along while providing the building owner with a high quality, re-designed, and more effective finished product." Congrats to Local 17 for setting such a fine example of SMWIA excellence!

