

- **Owner:**  
American Refining Group
- **Services:**
  - Site Engineering
  - Structural Engineering
  - Construction Administration
- **Year Completed:**  
2017

# American Refining Group Lab Addition

American Refining Group Lab, Bradford, PA



Stahl Sheaffer Engineering was part of a Design-Build team in partnership for the approximately 7,500-sf lab addition.



Original Structure

The structure is a combination load bearing masonry structure (exterior walls) and steel frame (interior column line) supporting a traditional steel framed flat roof with metal deck and bar joists. A steel-framed exterior canopy bearing on steel columns created a secure location for exterior storage. The floor is slab-on-grade with standard shallow spread foundations. Slab-on-grade is designed to accommodate equipment and traffic for the processes planned within the space. Interior revisions to the existing facility included new wall openings for doors and ductwork, and the design of a jib crane supported on an existing elevated floor for material handling.



New Structure

Stahl Sheaffer provided site and structural engineering for this project. Site amenities included an underground storage tank for waste materials from the laboratory testing processes, site paving, and vehicular routing including tanker trucks on the restricted site area. The site was designed to accommodate the owner's needs and processes. Stahl Sheaffer designed the building structure to accommodate the local environmental loadings, equipment and process loading, and user-induced loads.

