

## Featured Project

### Medford Police Station

Medford, Oregon



CITY OF MEDFORD  
POLICE DEPARTMENT

The City of Medford was incorporated in March 1885, and Marshall J.H. Redfield was the first law enforcement official, receiving a salary of \$41.66 per month. Over the years the department grew, with only 11 on the force in 1942, to 103 sworn officers today.

In 2014 the City approved designs for a 42,000-square-foot three-story building with a four-story secure parking garage. This building includes a multitude of specialty spaces such as men's and women's locker rooms, training rooms, armories, Faraday room, MLO room, and DUI testing as well as 'standard' spaces such as conference rooms, offices, break rooms, and restrooms. Project cost was in excess of \$10M.

ArcSine Engineering's MEP Revit design services included:

#### Power Distribution

- A 1,400 amp 480/277-volt service entrance and power distribution.
- A 500KW standby generator and segregated power distribution system, with multiple fuel sources.
- A 100kVA uninterruptible power supply for building-wide critical loads.

#### Mechanical/Plumbing Design

- Variable Air Volume (VAV) HVAC system with a 120-ton rooftop unit.
- Redundant ductless split systems to serve critical data/server rooms.
- Heating hot water system consisting of two modulating condensing boilers with variable speed primary/secondary pumping piped to reheat coils at the VAV boxes.
- Plumbing systems, including water, waste, vent, compressed air, parking structure drains, and roof drains.

#### Lighting Design

- LED general lighting.
- Exit, emergency, and egress lighting meeting NFPA Fire and Life Safety requirements.
- Site lighting.

#### Other

- Building-wide intrusion, access control, and video.
- Building-wide networking.
- Wireless access points throughout the building.
- Extensive security and specialty provisions.
- Fire alarm system and sprinkler system.
- Mechanical, electrical, and plumbing designs were coordinated to meet LEED Silver objectives.

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Design Completion Date

2015

Construction Completion Date

2017

Field Investigations  
Power Distribution  
HVAC  
Lighting  
Plumbing  
Revit  
Construction Services

