

# ROADS & UTILITIES

**CLIENT:** Confidential Client  
**LOCATION:** Springfield, Oregon

This project focused on security improvements at an industrial plant in the Pacific Northwest. The primary goal was to provide a new security access point into the research and development building. Evergreen worked with the client in conjunction with the local municipality to modify construction plans in a mutually acceptable manner.

## Entrance Road Design



Plan options were reviewed and planned with an optimal entrance location, and alignment for truck access to the R&D building was determined. Evergreen provided final design drawings of the site plan.

Automatic gate and card reader systems were specified, as well as the closest available power source and terminal point for communications data. This included preliminary routing of the electrical conduit to the automatic gate and card reader.

Road design required relocation of existing sewer and water line. Evergreen worked closely with the local municipality to accomplish this.

Evergreen coordinated permitting with the local jurisdiction.

Evergreen developed preliminary plans for the demolition of the existing equipment and buildings. Our final design plans included the following:

- Existing conditions
- Demolition
- Grading and paving
- Pavement striping
- Utilities
- Erosion and sedimentation control
- Guard house foundation, building, and security gate
- Electrical layout
- Electrical panel schedule
- Electrical control and communication wiring diagram

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**EVERGREEN ENGINEERING**

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Evergreen performed daily construction oversight throughout construction. Our construction management services included:

- Applying for and negotiating the building permit with local authorities
- Reviewing, negotiating, and documenting resolution of change order requests
- Reviewing and responding to contractor submittals
- Documenting work progress and preparing monthly pay estimates
- Observation of material testing
- Facilitation of weekly contractor meetings
- Preparing and implementing punch lists
- Preparing record drawings
- Construction staking and surveying

Our engineering services overall comprised project management, final design plans and specifications, permitting assistance, erosion sedimentation control, and construction management services.

