

Fir Island Farm Ecosystem Restoration/Wiley Slough Tide Gate Replacement

Located on the Washington State Department of Fish & Wildlife's Snow Goose Reserve, Fir Island Farms Estuary Restoration project reclaimed over 100 acres of tidal marsh land and channels, important for juvenile Chinook salmon rearing; provided protection for snow goose foraging; and preserved valuable farmable area. DEI's work on the project included design of the pump station structure, intake pipes, trash rack, access bridges, pump house floors, walls, and pipes associated with dike setbacks. In conjunction with this project, DEI engineered a replacement tidal gate for the Wiley Slough on the same reserve

Location: Mount Vernon, WA
Owner: Washington State Department of Fish & Wildlife
Raymond Berg, Owner Representative
600 Capitol Way North
Olympia, WA 98501
Project Budget: \$9.5 Million



Coker Furnace Structural Steel Support

DEI reviewed the structural support design, foundation design loads, details, and specifications for all of the steel frames supporting the Coker furnace and its appurtenances. The review of heavy equipment anchorage to the frame was also performed. Guidance was provided as to the methods of analysis for use on the structural steel frames in accordance with the latest AISC and ASCE recommendations, as well as the 2015 IBC and various petrochemical facility design specifications and guidelines.

Location: Cherry Point Refinery, Blaine, WA
Owner: BP West Coast Products, LLC
Jonathan Caspersen
Heurty Petrochem (Petro-Chem Development Co.)
7666 East 61st St., Suite 400
Tulsa, OK 74133
Project Budget: \$10 Million (estimate)



Puget Sound Energy – Factoria Service Center

DEI provided structural design for this 32,622 sq. ft. LEED Gold Certified two-story office building at the Factoria Service Center. The new building a combined CMU and steel moment frame structure built adjacent to an existing PSE masonry building. The challenges of this project included meeting all the requirements of the LEED Gold Standards, detailing of large steel connections and a heavy HVAC system on the green roof.

Location: Factoria, WA

Owner: Puget Sound Energy
P.O. Box 97034 PSE 10S
Bellevue, WA 98004

Owner Contact: Glenn Steiner
Magellan Architects
8383 158th Ave NE, Suite 280
Redmond, WA 98052

Project Budget: \$14 Million (estimate)

