

# EXAMPLE

OF A WINNING PROJECT SUBMISSION

E X C E L L E N C E  
— I N —  
**CONCRETE**  
*Award Winner*

Oregon's Excellence in Concrete Awards is a collaborative program of the Oregon Concrete & Aggregate Producers Association and Oregon Chapter of the American Concrete Institute.

## Hannah Mason Pump Station

Craftsmanship *and* Judge's Choice Awards, April 2018



**EXAMPLE**  
OF A WINNING PROJECT SUBMISSION  
FOR THE OREGON  
EXCELLENCE IN CONCRETE  
AWARDS PROGRAM

## Project Name:

### Hannah Mason Pump Station

Willamette Park, SW Idaho Street, Portland, Oregon

**County:** Multnomah

**Completion Date:** 06/08/2017

## Project Category:

**Category Choices:** Industrial; Public Facility

# -----Technical Data Sheet -----

## Project Details:

**Size of Project** (cu. yds, sq. ft. etc.): 9,600 sf

**Strength Requirements:** 4000 PSI

**Water/Cement Ratio(s):**.45

**Unique or High Volume Admixtures:** Admixture is a colored, water-reducing, component containing no calcium chloride with coloring agents that are limeproof and ultra-violet resistant.

**Total LEED points attributed to concrete construction:** The project while sustainable, is not LEED certified as it is an unoccupied building.

**Describe unique mix designs:** 4000 PSI. Outer walls required integral Pigment added to mix – Scofield Chromix Admixture C-27 “Westwood Brown”.

**Describe unique specifications/requirements (flatness, color, etc.):** Outer walls required integral Pigment added to mix – Scofield Chromix Admixture C-27 “Westwood Brown”. Exterior Walls utilized Fitzgerald Formliner Pattern #16938 “1.5 inch wide Plank Random Depth”.

**Describe placement challenges or unique techniques:** Walls contained a lot of rebar including a corbel that was midway up the wall. The rebar for the corbel made performing a full height wall pour very challenging. Combine this with unique formliner and the concrete contractor (James W Fowler) and to do lower and upper wall pours to ensure proper consolidation and a quality formliner finish.

**Describe other special technical aspects:** James W Fowler installed an embedded template for the Pelton Water Wheel on a radius wall that also required formliner. Once concrete was complete a stained finish was used (Scofield Lithochrome Chemstain Classic CS-14 “Dark Walnut”) on the exterior concrete surfaces.

# EIC Project Narratives & Photo Captions

## Hannah Mason Pump Station



### Narrative/Photo Caption #1:

This new freshwater pump station for the Portland Water Bureau in Willamette Park replaces the aging 1912 Fulton Pump Station with a modern civic facility that serves many functions. The building is an integral park structure; in addition to five pumps, it also provides public restrooms and park equipment storage.



### Narrative/Photo Caption #2:

This new pump station's visual impact on the park is minimized by the use of native materials, a dark stained and textured concrete exterior, and installation of a concrete public art piece.



### Narrative/Photo Caption #3:

The textured formed concrete is intended to be durable and easily maintained, as well as to allow lichen and moss to cling to it. As the building ages it will become physically and visually more incorporated into its natural environment.



### Narrative/Photo Caption #4:

Multiple formwork techniques were required for the inclusion of curved and textured concrete. The exposed smooth concrete walls include walnut colored stain applied on top of the colored concrete.



**Narrative/Photo Caption #5:**

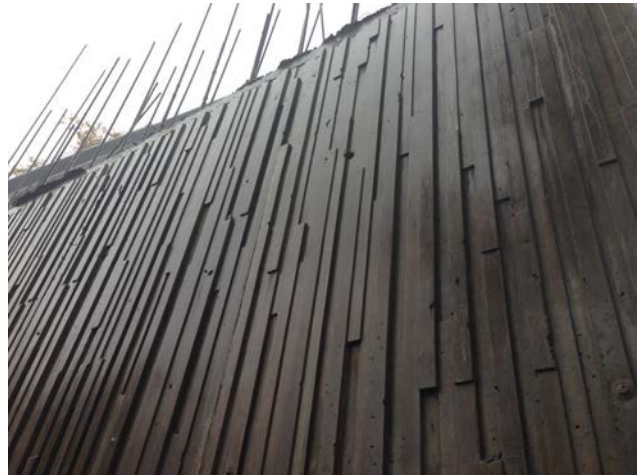
The concrete art piece celebrates the history of the Water Bureau with a graphic of the replaced 1912 pump formed with an embedded curved MDF template onto the radius wall. The gear is a laser steel plate attached with bolts.



**Narrative/Photo Caption #7:**

A variety of concrete types are creatively used including delicate formwork of textures and patterns with integral color and staining.

*Submission also included a 37 second MP4 video file, featuring a drone flyover of the finished project.*



**Narrative/Photo Caption #6:**

Formliner walls have integral color with a plank pattern.



**Narrative/Photo Caption #8:**

The use of colored and textured concrete helps blend the building into the backdrop of Willamette Park.



**Narrative/Photo Caption #9:**

The new park restrooms have steel doors and louvers and include exposed concrete inside the stalls for low maintenance.