

BioPod[™] System with StormMix[™] Media in Fredrickson, Washington

CUSTOMIZED STORMWATER BIOFILTRATION

| Contractor

Miles Resources

| Consulting Engineer

Barghausen Consulting Engineers, Inc.

| Solution

BioPod Underground

During the development of a large commercial warehouse, tight site constraints made it nearly impossible to install a standard configuration stormwater treatment system. Replacing the existing design required a new solution that met site requirements and could be delivered on schedule. As part of the development, a custom underground BioPod biofiltration system was designed.



CHALLENGE

Having previously worked with Oldcastle Infrastructure, the contractor reached out seeking an economic alternative that would satisfy the treatment requirements and meet site specifications.

This installation provided a number of challenges along the way:

- | Accommodating a tight right of way at the development site.
- | Customizing a solution that eliminated a multiple unit design configuration and a number of flow splitter manhole hydraulics.
- | Reducing the lead times and installation window with a more economic product.
- | Ensuring design approvals and delivery were within the project timeline.

SOLUTION

The Oldcastle Infrastructure team identified a unique opportunity to design and install a custom BioPod system to replace the originally specified units. The Oldcastle team's ability to deliver a solution on time while meeting site constraints was crucial in being awarded this project.

Designing the custom BioPod required a new 15x51 layout to achieve a high treatment flow rate and an expedited process to ensure delivery times. The new unit was successfully installed within 8 hours, saving the contractor time and money.

BENEFITS

ENVIRONMENTALLY-FRIENDLY

| The BioPod system delivered a low-impact development solution that meets green infrastructure requirements and offers a reduced footprint compared to traditional stormwater treatment systems.

TIME-SAVING

| Oldcastle Infrastructure was able to work swiftly and precisely to present and submit designs in 2 weeks, with the system ready to deliver in just 7 weeks after approvals. And with a perfectly executed delivery and installation, the custom BioPod was delivered to the exact project specifications.

FLEXIBLE

| From design to installation, the Oldcastle team offered an experience tailored to the contractor's need, and BioPod's unique design allows for seamless integration with other stormwater systems in the future.



“

“The BioPod was the most cost effective solution for this project applicatio. Large treatment requirements, tight site constraints equals perfect solution.”

Property Developer