

**CONTECH**<sup>®</sup>  
ENGINEERED SOLUTIONS

## Wastewater Solutions





## SANITARY SEWER CONVEYANCE/YARD PIPING



### Eastern Idaho Sanitary Interceptor *Shelley, Idaho*

- ≈ 4 Miles of 36-in dia.
- ≈ 2.5 Miles of 42-in. dia.
- ≈ 7 Miles of 48-in. dia.

In Phase I of 3, the Eastern Idaho Regional Wastewater Authority evaluated the performance of DuroMaxx® Steel Reinforced PE (SRPE) as their large diameter sanitary interceptor line. The integrity of the gravity sewer installation was tested and the DuroMaxx was chosen for all 14 miles due to its exceptional pipe performance in the proposal evaluation process.

A2000™ PVC was also included for some of the smaller diameters needed.

## STORAGE



### Bryan's Lift Station Improvements *Monticello, Indiana*

- DuroMaxx® CSO System
- 395,000 gallons of storage

Bryan's Lift Station originally was constructed in the 1950s and served combined sanitary and storm sewers.

During peak water events, the lift station was overwhelmed and unable to handle the full flow resulting combined sewer overflow events. Contech's DuroMaxx® SRPE technology was engineered into a CSO detention and drainage system that met the challenges of having a small footprint, watertight joint performance and long-term durability.

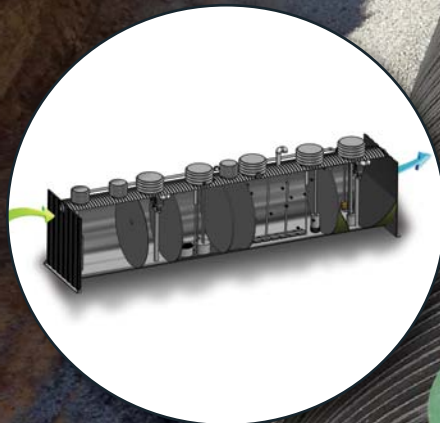
This project is a recipient of the Indiana ACEC 2012 Engineering Excellence Honor Award.



## DECENTRALIZED WASTEWATER TREATMENT

Avg. daily influent of 572 mg/L BOD

EFFLUENT TEST	Required Results	Actual Results
CBOD	10 mg/L	2 mg/L
TSS	10 mg/L	2.8 mg/L
TKN	3.0 mg/L	2.3 mg/L
Phosphorus	2.0 mg/L	0.88 mg/L
E.Coli	126 N/CML	NR



### Locust Grove Town Center Locust Grove, Virginia

- Magellan® Decentralized Treatment
- 8' x 37' system
- Effluent BOD & TSS

The Virginia Department of Environmental Quality (VA DEQ) required the Locust Grove Town Center to upgrade its 4,500-gallon-per-day (GPD) wastewater treatment tank to comply with regulations.

The retail center owner considered multiple systems and in the end selected a Magellan® Wastewater Treatment System from Contech that uses steel-reinforced polyethylene (SRPE) technology to create a simple, cost-effective system that is easy to install.

## REHABILITATION

### South Kansas River Pump Station Topeka, Kansas

- SPE™ PE steel reinforced HDPE
- 453 LF of structural lining for a 78" diameter reinforced concrete pipe

The City of Topeka had scheduled the repair of several hundred feet of deteriorating reinforced concrete pipe (RCP) sanitary sewer line at their South Kansas River Pump Station.

Given the 18 feet of cover over the existing reinforced concrete pipe, SPR™ PE pipe liner supplied by Contech Engineered Solutions was the selected material of choice for this project. In this way, they could reline the system completely from one access hole and under live flow conditions.

## Providing Water & Wastewater Solutions since 1963.

WASTEWATER SOLUTION OFFERING					
PRODUCT LINE			APPLICATION	VALUE	
CONVEYANCE	   	SDR 23.5	Drain fields (4"-6")  Laterals	<ul style="list-style-type: none"><li>PVC pipe that provides optimum combination of strength, hydraulics, stiffness, joint integrity and economy</li></ul>	
		TRUSS PIPE®	Interceptors, Trunk Lines and Outfalls (4"-15")		
		A-2000™	Interceptors, Trunk Lines and Outfalls (8"-36")		
		A2 Liner Pipe	Trenchless Slip Lining/Rehabilitation (12"-36")	<ul style="list-style-type: none"><li>Meets joint tightness test requirements of ASTM D 3212</li><li>Tremendous cost savings over cured-in-place pipe</li></ul>	
		SPR™ PE SPR™ EX	In Situ Rehabilitation (6" to 120")		
		DuroMaxx® Steel Reinforced Polyethylene (SRPE) Sanitary Pipe	Trunk Line, Outfalls or Rehabilitation (30"-120")	<ul style="list-style-type: none"><li>HDPE with fully-encapsulated 80 ksi steel-reinforced ribs and pressure rated polyethylene provides incredible strength and durability</li><li>Optional high performance reinforced ElectroFusion joints</li></ul>	
STORAGE		Tanks	Sanitary Sewer Overflow  Combined Sewer Overflow  Septic  General Storage	<ul style="list-style-type: none"><li>Permanent watertight storage</li><li>Up to 15 psi rating</li><li>Size range – up to 1,000,000+ gallons</li></ul>	
		Wastewater Components	Pump/Lift Station Vessels  Sanitary Sewer Overflow  Grit/Sludge Storage		
TREATMENT	Decentralized		Magellan Wastewater Treatment System	Onsite treatment of 2,000 to 250,000 gallons of wastewater per day.	<ul style="list-style-type: none"><li>Pre-engineered</li><li>Plug-and-play installation</li><li>Quick startup and easy maintenance</li></ul>
		Magellan Mobile Wastewater Treatment System	Mobile wastewater treatment systems available in 20 and 40 foot standard ISO container lengths.	<ul style="list-style-type: none"><li>Rapid deployment</li><li>Compact footprint</li><li>Quick startup and easy maintenance</li></ul>	
	Centralized		DuroMaxx SRPE for Municipal Wastewater	Odor control, yard piping, tertiary treatment and outfalls	<ul style="list-style-type: none"><li>Corrosive resistant</li><li>Leak-free</li><li>Fabrication flexibility</li><li>Cost-effectiveness</li></ul>

NOTHING IN THIS CATALOG SHOULD BE CONSTRUED AS AN EXPRESSED WARRANTY OR AN IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE. SEE THE CONTECH STANDARD CONDITION OF SALES (VIEWABLE AT [WWW.CONTECHES.COM/COS](http://WWW.CONTECHES.COM/COS)) FOR APPLICABLE WARRANTIES AND OTHER IMPORTANT INFORMATION.

Get Social With Us!



Wastewater Solutions Bro - PDF 3/14 MC

**CONTECH**  
ENGINEERED SOLUTIONS

©2014 Contech Engineered Solutions LLC  
All rights reserved. Printed in USA.