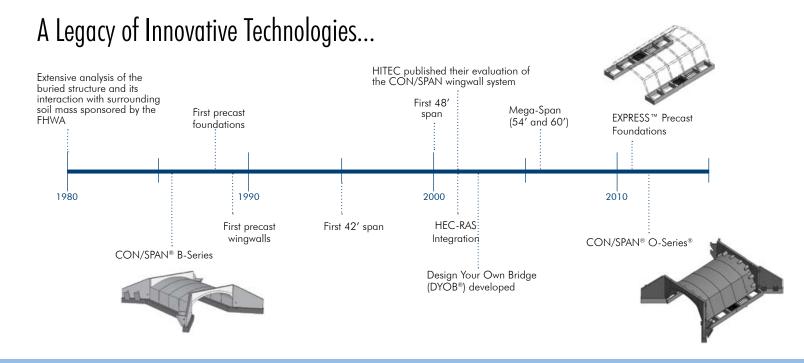
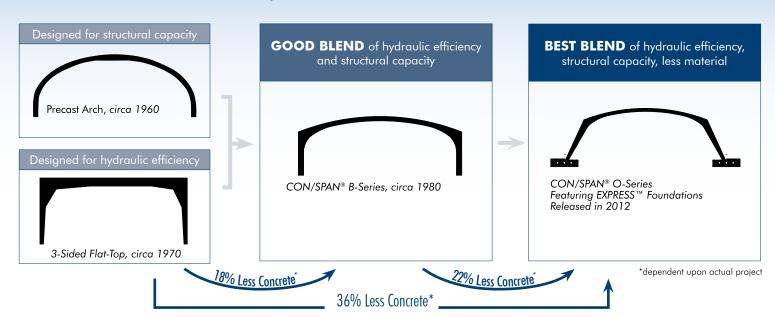




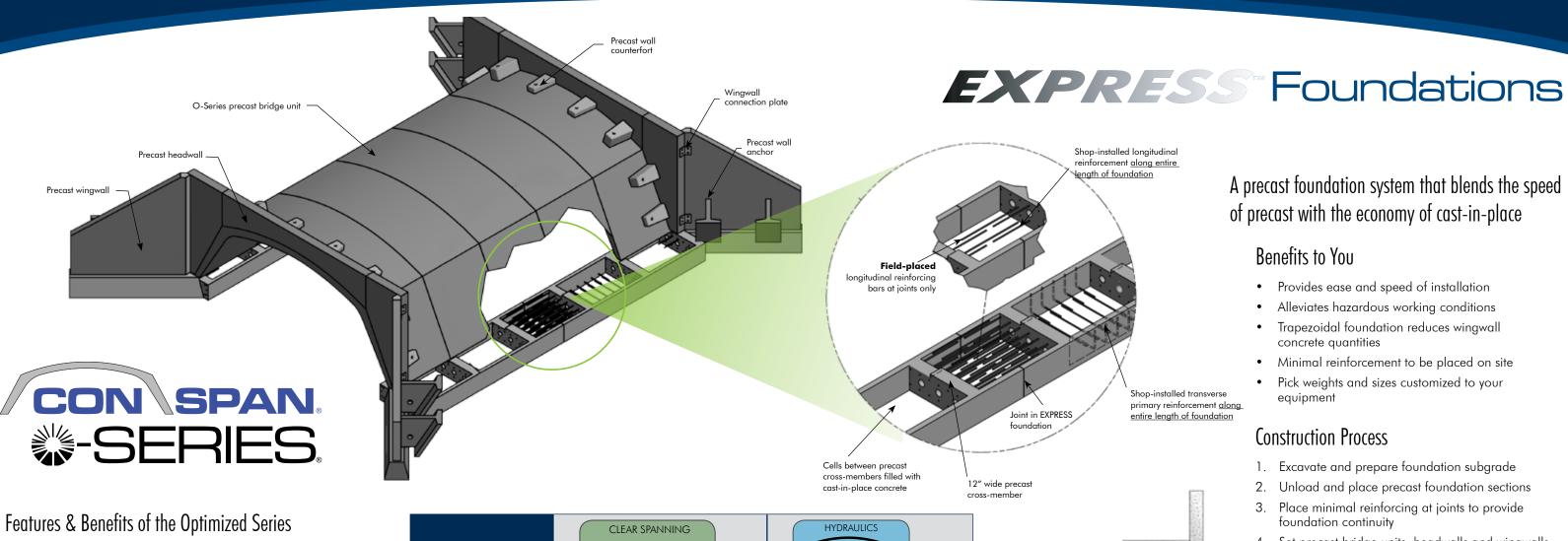
With a history of innovation and experience, Contech has taken precast buried bridge systems to the next level with the optimization of the **CON/SPAN® O-Series®**. Requiring less concrete per open area than any other precast buried bridge structure, the O-Series is the ideal blend of hydraulic efficiency and structural capacity.



Taken to the Next Level of Optimization...

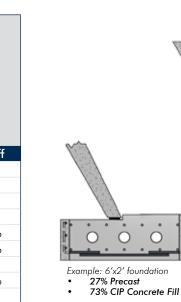






- Complete system precast foundations, units, headwalls and wingwalls
- Rapid installation
- Material savings concrete and steel
- Lighter piece weights or longer lay lengths for most projects
- Cost savings
- Outward horizontal reactions one-sided keyway, reduced forming and grouting
- Maximized clear span and clear distance between footings
- Lower maintenance cost
- Proven design methodology
- Total reliability

Design Challenges »	 CLEAR SPANNING Clear span required = 25' Required rise = 4' min / 10' max Structure length = 24' No hydraulic ramts, clear-span only 			• Clear span required = 25' • Waterway required = 190 sf • Structure length= 72' • Roadway to stream invert = 13'		
, and the second se	O-Series	B-Series	% Diff	O-Series	B-Series	% Diff
Shape	0425	-		0327	-	
Span (ft)	25	28	-11%	27	28	-4%
Rise (ft)	5	6	-17%	9.4	8	18%
WW Area (sf)	-	-		194	195	
Concrete (tons/ft)	1.96	2.84	-31%	2.46	3.14	-22%
Steel (lb/ft)	108	211	-49%	137	227	-40%
Piece lay length (ft)	8	6	33%	8	6	33%
Trucks loads (total pieces)	3	4	-25%	9	12	-25%
Weight (tons/unit)	15.68	17.04	-8%	21.12	18.84	12%



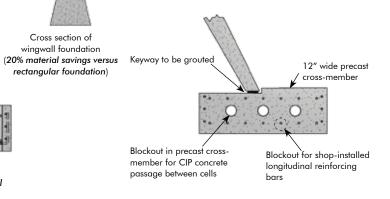
A precast foundation system that blends the speed of precast with the economy of cast-in-place

Benefits to You

- Provides ease and speed of installation
- Alleviates hazardous working conditions
- Trapezoidal foundation reduces wingwall concrete quantities
- Minimal reinforcement to be placed on site
- Pick weights and sizes customized to your

Construction Process

- 1. Excavate and prepare foundation subgrade
- Unload and place precast foundation sections
- Place minimal reinforcing at joints to provide foundation continuity
- Set precast bridge units, headwalls and wingwalls
- Fill cells with cast-in-place concrete
- Seal joints, grout wingwalls and backfill



ACCELERATED BRIDGE CONSTRUCTION

ABC is bridge construction that uses innovative planning, design, materials and construction methods in a safe and costeffective manner to reduce the onsite construction time that occurs when building new bridges or replacing and rehabilitating existing bridges.

ABC improves

- Site constructability Total project delivery time
- Work-zone safety for the traveling public Weather-related time delays

ABC reduces

- Traffic impacts
- Onsite construction time

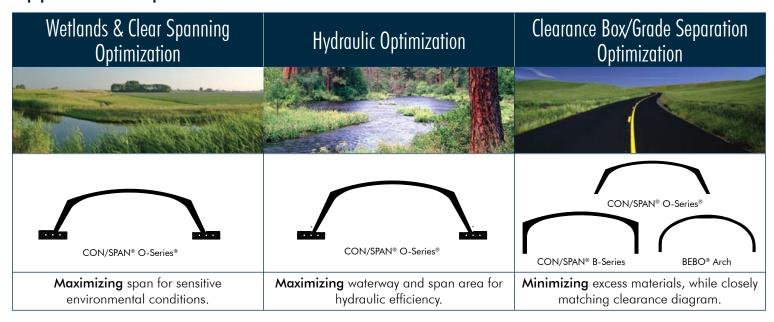


Cross section of

wingwall foundation

rectangular foundation)

Application Optimization

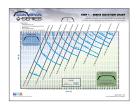


Contech. Your Project Partner.

Experience the value of Contech's products and extensive technical support. Our proven innovative approach and engineering resources can help you discover the most economical solution for your site without compromising your expectations for safety, reliability and performance.

CONTECH can provide design tools and info to help optimize your project:

- Series Selection Chart
- Waterway Area Charts
- O-Series Drawing Details
- Hydraulic Coordinates for HEC-RAS and HY-8
- Wetted Perimeter Charts
- Vertical and Horizontal Foundation Reactions











WWW.CONTECHES.COM/COS) FOR MORE INFORMATION.