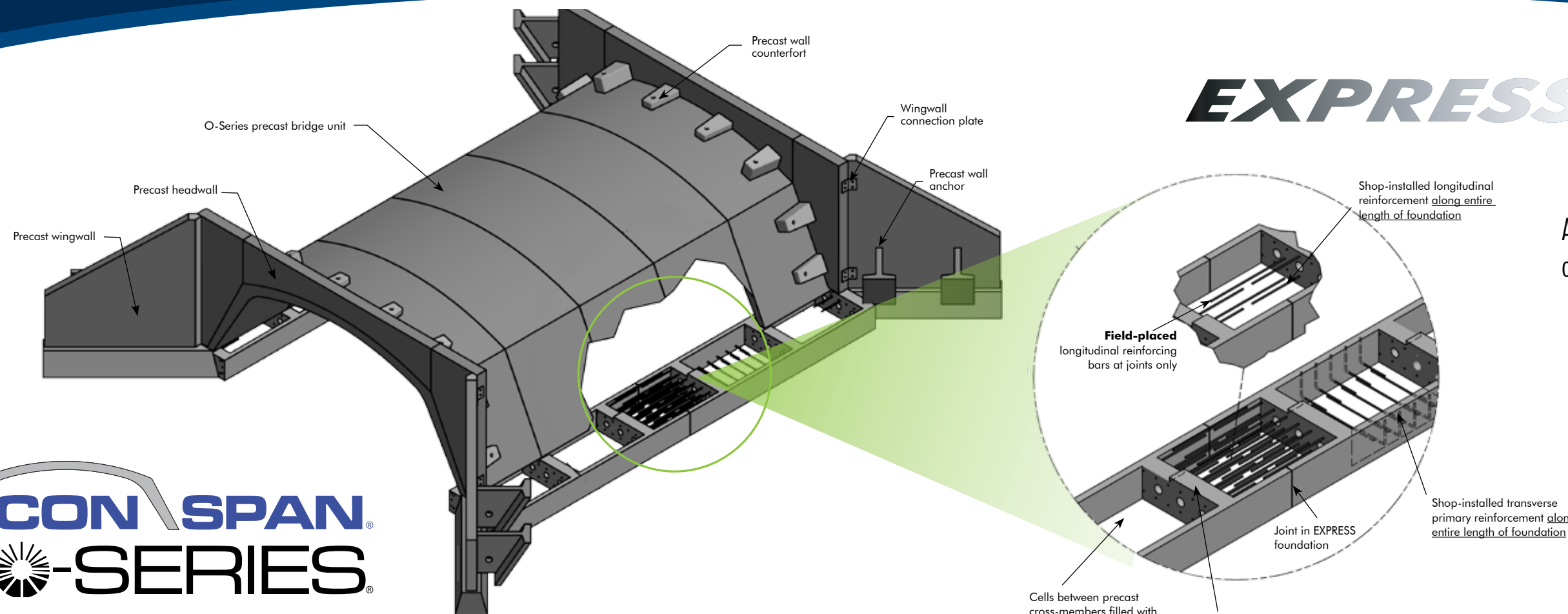


EXPRESS Foundations



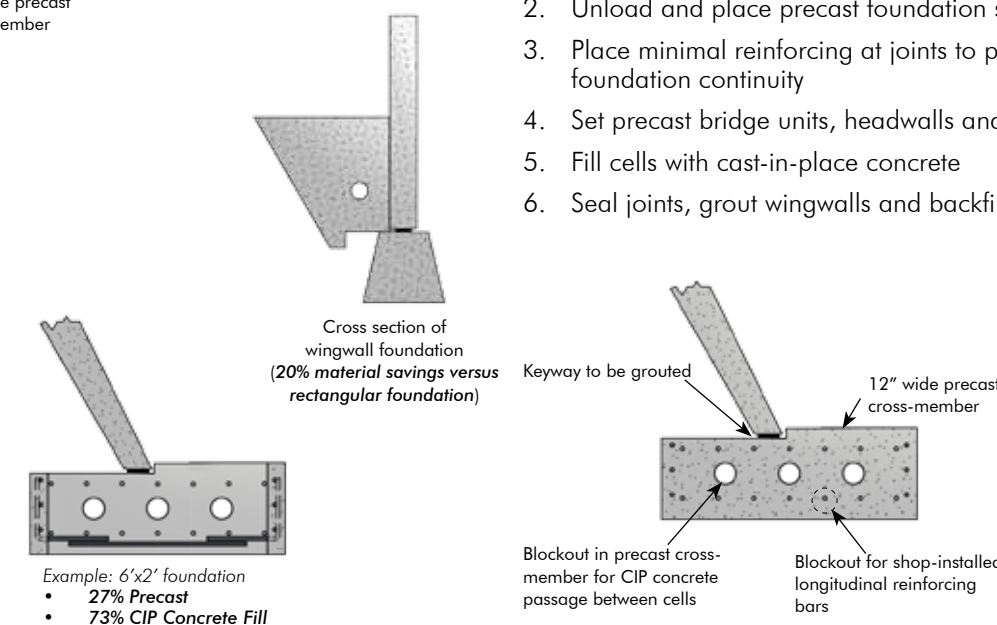
A precast foundation system that blends the speed of precast with the economy of cast-in-place

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 equipment

Construction Process

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



Features & Benefits of the Optimized Series

- 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			HYDRAULICS		
	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%

ACCELERATED BRIDGE CONSTRUCTION

ABC is bridge construction that uses innovative planning, design, materials and construction methods in a safe and cost-effective 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

ABC reduces

- Traffic impacts
- Onsite construction time
- Weather-related time delays

CON SPAN SERIES + EXPRESS Foundations = ABC