



ROTONDO PRECAST®

www.rotondoprecastma.com

3-Sided Bridge Systems



Rotondo Precast's reinforced 3-Sided Bridges are a cost effective solution to short span bridges such as underpasses, tunnels, streams and wetland crossings.

3-Sided Bridges can be installed with little impact on the existing waterway protecting the surrounding environment.

One piece bridges offer the ability to decrease construction time. Installation, backfill and surfacing can be done in less time than cast-in-place structures.

Rotondo Precast constructs tunnels for golf courses, ski areas, riding trails, campus building connections etc. We can custom build shapes, openings and keyways to meet your specifications.

the cost effective solution to short span bridges

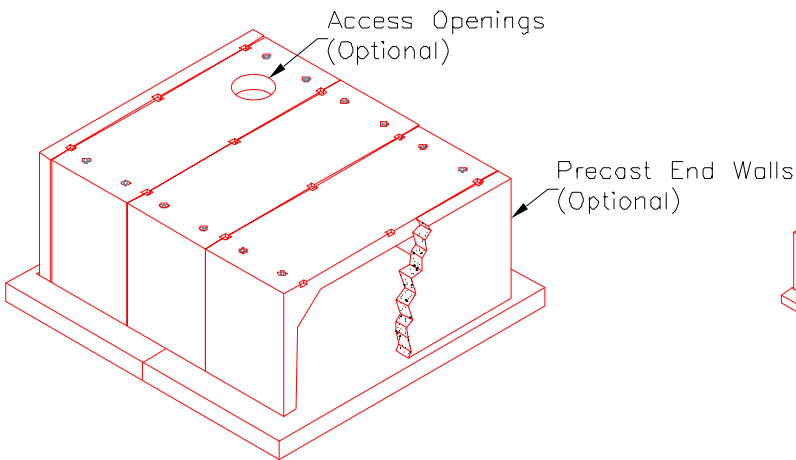
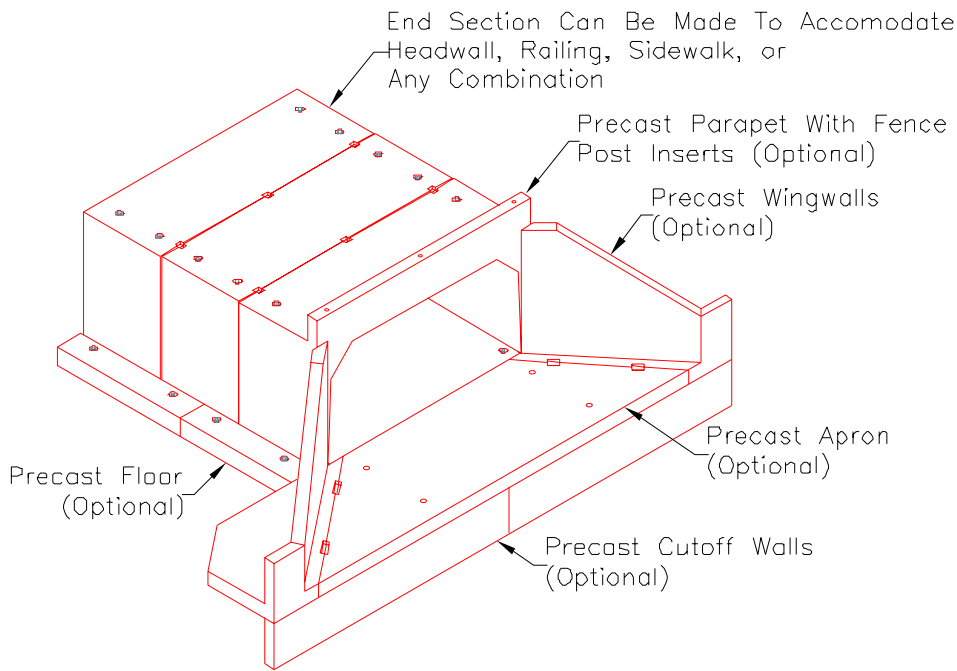
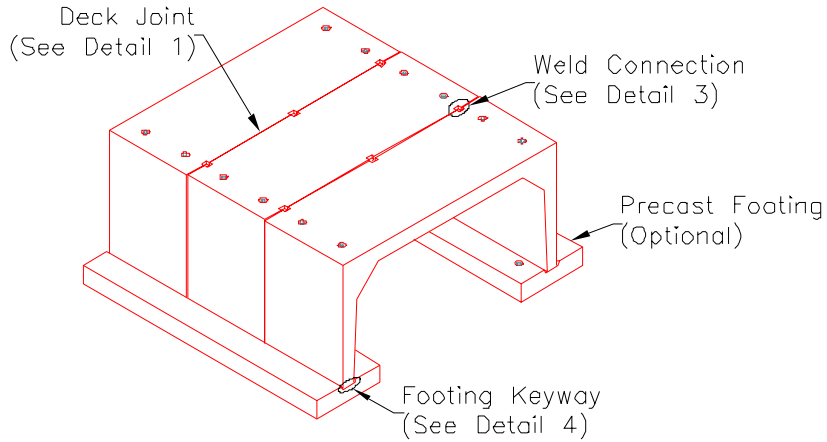


Applications
Underpass
Pedestrian Tunnel
Water Storage Tank
Stream Crossing
Vehicle Undercrossing
Wetland Crossing
Waterway Crossing
Custom Drainage

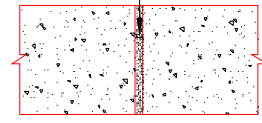
Features
One-piece design
Cost effective
Easy installation
Individual or multiple spans
Extra-support in special applications
Custom designs



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Oldcastle Precast®
www.oldcastleprecast.com



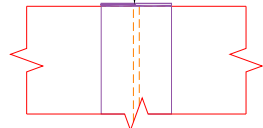
① Joint Gap Between All Mating Surfaces To Be Filled With Non-Shrink Grout By Contractor



Deck Joint

Typical Between Top Sections And Flat Slab Base Sections

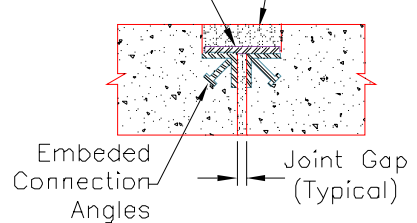
② Conwrap Over Exterior Joints



Exterior Wall/Top Joint

Typical For Mating Top Sections

③ Steel Weld Plate Field Poured Joint



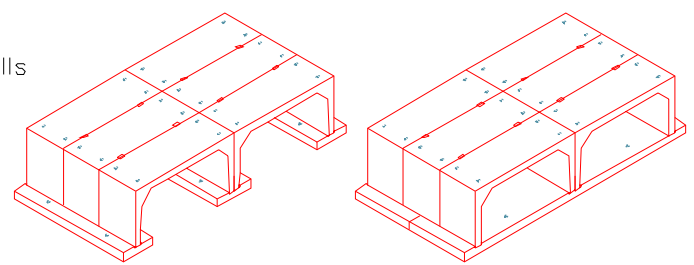
Weld Connection

Typical Between Top Sections And Flat Slab Base Sections

④ Fill With Grout Interior Wall



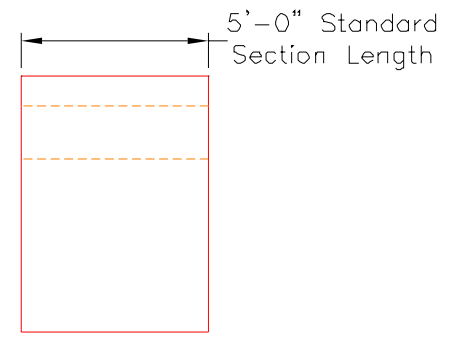
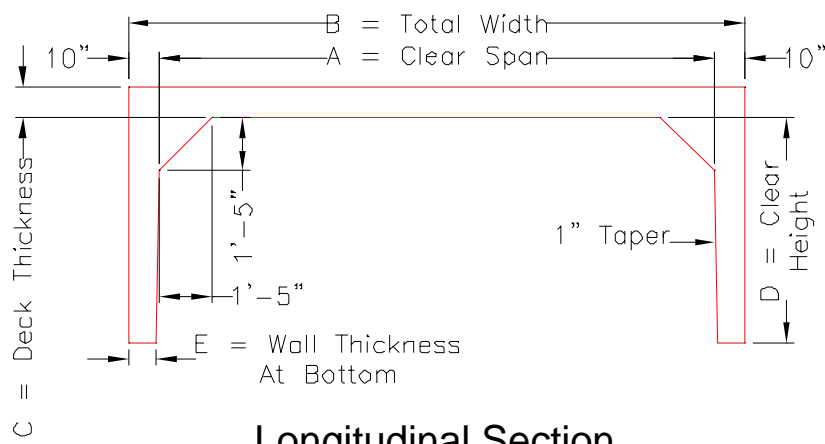
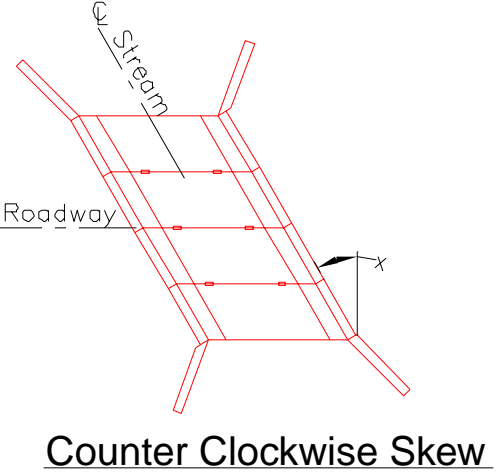
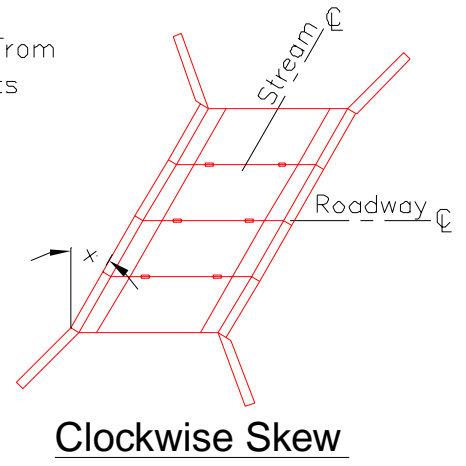
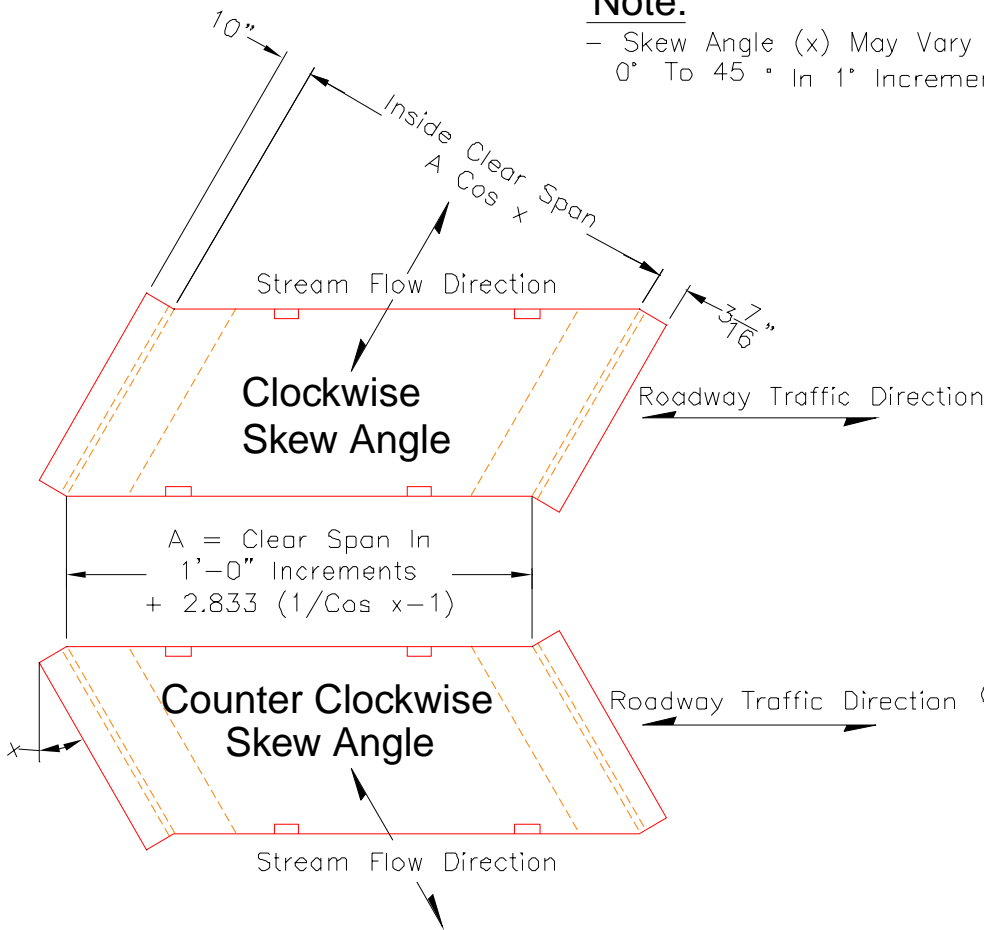
Footing Keyway



Multiple Cell Installations

Note:

- Skew Angle (x) May Vary From 0° To 45° In 1° Increments



Width May Vary From Standard To Economize On Freight And Labor

SIZING & WEIGHTS (TONS) FOR 5'-0" WIDTH PRODUCT																					
SPAN FT.	A	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	
LENGTH FT.	B	13.67	14.67	15.67	16.67	17.67	18.67	19.67	20.67	21.67	22.67	23.67	24.67	25.67	26.67	27.67	28.67	29.67	30.67	31.67	
DECK IN.	C	10	10	10	10	10	10	10	10	10	14	14	14	14	14	14	14	14	14	14	
D=3 FT.		6.9	7.2	7.5	7.8	8.1	8.5	8.8	9.1	9.4	12.5	13.0	13.4	13.8	14.3	14.7	15.2	15.6	16.0	16.5	E=9 5/8"
D=4 FT.		7.5	7.8	8.1	8.4	8.7	9.0	9.4	9.7	10.0	13.1	13.6	14.0	14.4	14.9	15.3	15.8	16.2	16.6	17.1	E=9 3/8"
D=5 FT.		8.1	8.4	8.7	9.0	9.3	9.6	9.9	10.3	10.6	13.7	14.1	14.6	15.0	15.5	15.9	16.3	16.8	17.2	17.6	E=9 1/8"
D=6 FT.		8.6	8.9	9.3	9.6	9.9	10.2	10.5	10.8	11.1	14.3	14.7	15.2	15.6	16.0	16.5	17.0	17.3	17.8	18.2	E=8 7/8"
D=7 FT.		9.2	9.5	9.8	10.1	10.4	10.7	11.1	11.4	11.7	14.8	15.3	15.7	16.1	16.6	17.0	17.5	17.9	18.3	18.8	E=8 5/8"
D=8 FT.		9.7	10.0	10.3	10.7	11.0	11.3	11.6	11.9	12.2	15.4	15.8	16.2	16.7	17.1	17.6	18.0	18.4	18.9	19.3	E=8 1/2"
D=9 FT.		10.2	10.6	10.9	11.2	11.5	11.8	12.1	12.4	12.7	15.9	16.3	16.8	17.2	17.6	18.1	18.5	18.9	19.4	19.8	E=8 1/4"

3-Sided Bridge Systems

Basic Components

One-piece precast concrete construction is designed for a fast and trouble-free installation saving time and money. With many sizes available this is the simple bridge solution for tunnels, bridges, walkways, drainage, storage and more.



Design Advantages

- Low Rise, Long Spans
- Skewed Applications
- Precast Detached or Monolithic Footers
- Varied Fill Depths
- Precast Monolithic Headwalls
- Minimal Cover Required
- Spans up to 50'
- Available from HS-20 to Cooper E-80 Loading
- Complete Bridge Systems
- Multiple Wing Wall Options
- PE Stamped Calculations and Drawings Available



Construction Advantages

- One Day Bridge Installation
- Precast Detached or Monolithic Footers
- Precast Monolithic Headwalls
- Cost Effective
- Minimal Wetland Disturbance
- Wing Walls Available



Contact your Rotondo Precast representative today:



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