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Segmental Bridges in the U.S.A

Ponts à voussoirs aux États-Unis

Fertitgeil Brücken im U.S.A

Jean MULLER

Chairman of the Board
Figg and Muller Engineers Inc.
Paris, France

Name and Location		Bridge Type Construction Method (x)	Max. Span (m)	Deck Area (1000 m ²)	Cost (M\$)	
HIGHWAY BRIDGES (x)	CIP	Lake Washington, WA	CBG	81	25.0	26
		Red River, LA	CBG	113	7.1	9
		Gastineau Bridge, AK	CBG	192	5.3	15
		Houston Channel, TX	CBG	229	8.4	20
	P/C	San Antonio Y, TX	S/SBG	33	120.3	65
		Long Key, FL	S/SBG	36	43.3	15
		Niles Channel, FL	S/SBG	36	17.6	6
		Wiscasset, ME	S/SBG	37	11.3	8
		Seven Mile, FL	S/SBG	41	128.0	45
		Channel Five, FL	S/SBG	41	16.3	7
		I110-Biloxi, MS	S/SBG	42	57.1	40
		Glenwood Canyon, CO	S/SBG	45	7.0	6
		Linn Cove, NC	PBG	55	4.4	8
		Albemarle Sound, NC	S/SBG,CBG	68	58.2	23
		Escatawpa River, MS	S/SBG,CBG	91	22.6	12
		Wando River, SC	S/SBG,CBG	120	68.9	32
		Dauphin Island, AL	S/SBG,CBG	120	15.3	13
		James River, VA	S/SBG,CSC	192	50.2	35
		Neches River, TX	CSC	195	49.1	23
Sunshine Skyway, FL	CSC	365	68.5	115		
RW (x)	MARTA (Atlanta), GA	S/SBG	42	20.0	10	
	Escambia Bay, FL	S/SBG	52	22.7	16	
(x) Symbols		TOTAL		m ² 826.600	\$ 549 M	

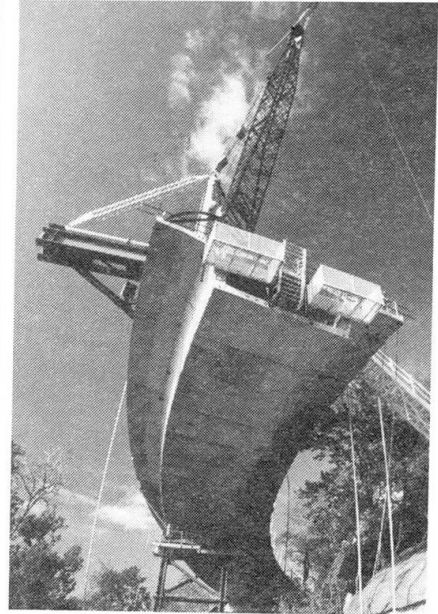
- CIP Cast in Place
- P/C Precast
- RW Railway Bridge
- CBG Cantilever Box Girder
- CSC Cable Stay Cantilever
- S/SBG Span By Span Box
- PBG Progressive Box

- Short span precast segmental box girder decks are adapted to repetitive structures such as trestles or elevated highway or railway urban bridges.
- Precast segmental cantilever box girder bridges have been used in spans of up to 120 m.
- Cast-in-place cantilever box girders built on travelers are used on longer single spans of up to 230 m.

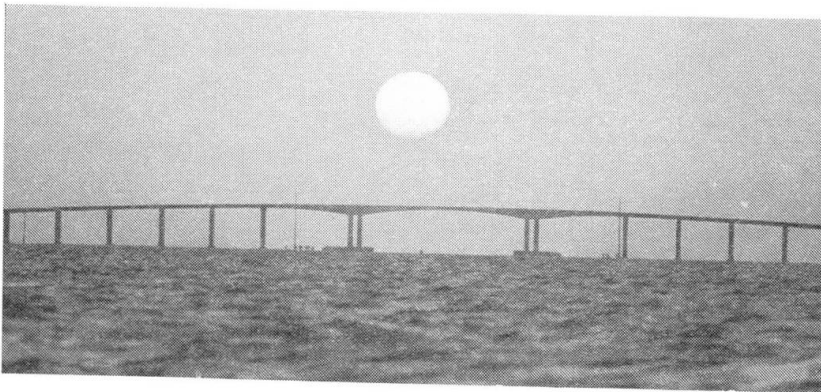
- Cable-stayed concrete box girder bridges combine economy in spans of 180 m to 400 m with the intrinsic advantages of rigidity and stability of concrete constructions.
- Concrete segmental bridges have proven their economy over conventional concrete or steel designs in a great variety of structure types and over a large span range.



▲ Linn Cove Viaduct, NC ▶



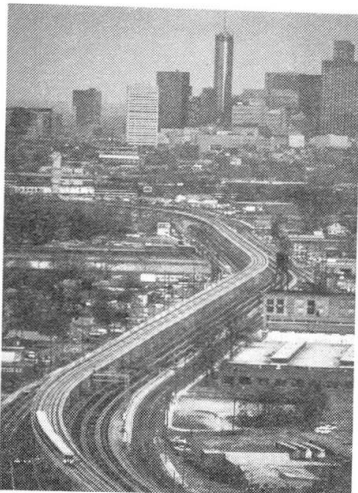
▼ Dauphin Island, AL



▼ Seven Mile Bridge, FL



MARTA Urban Viaduct, GA ▼



▼ Model of Cable Stayed Bridge

