

Criteria	Alternative 1: Cable-Stayed	Alternative 2: Steel Tied Arch	Alternative 3: Cast-in-place Segmental Concrete Box Girder	Alternative 4: 4a) Steel Girder or 4b) Segmental Precast Concrete Box	Alternative 5: Precast Concrete T-Girder
Example photo					
Span lengths (feet) and descriptions	<ul style="list-style-type: none"> • Twin 620' spans over both channels • 170' steel or concrete girder approach spans • Single bridge (structure) 	<ul style="list-style-type: none"> • 620' arch spans over both channels • 210' steel approach spans • Single bridge (structure) 	<ul style="list-style-type: none"> • 520' west channel span • 140'-280' concrete box approach spans • Side-by-side bridges (structures) 	<ul style="list-style-type: none"> • 300' spans over water • Side-by-side bridges (structures) 	<ul style="list-style-type: none"> • 170'-180' Precast Concrete Bulb T Girders • Side-by-side bridges (structures)
Aesthetic elements	<ul style="list-style-type: none"> • <i>Main spans:</i> Steel cable-stayed bridge with two 300' tall towers on the island 	<ul style="list-style-type: none"> • <i>Main span:</i> above-deck steel tied arch • <i>Approach spans:</i> steel girders 	<ul style="list-style-type: none"> • <i>Main span:</i> box depth (30') at piers • <i>Approach spans:</i> similar look, with 14' box depth 	<ul style="list-style-type: none"> • 4a) <i>Main and approach spans:</i> similar to Center and Marion St. Bridges • 4b) <i>Main and approach spans:</i> similar look, with 14' box depth 	<ul style="list-style-type: none"> • <i>Main and approach spans:</i> Precast Concrete Bulb T-Girders
Estimated bridge construction cost	<ul style="list-style-type: none"> • \$175 - \$245 million (from Marine Drive to Commercial Avenue; 4,000' long) 	<ul style="list-style-type: none"> • \$165 - \$210 million (from Marine Drive to Commercial Avenue; 4,000' long) 	<ul style="list-style-type: none"> • \$120 - \$170 million (from Marine Drive to Commercial Avenue; 4,000' long) 	<ul style="list-style-type: none"> • \$100 - \$140 million (from Marine Drive to Commercial Avenue; 4,000' long) 	<ul style="list-style-type: none"> • \$95 - \$120 million (from Marine Drive to Commercial Avenue; 4,000' long)
Number (area) of in-river piers	<ul style="list-style-type: none"> • 2 piers (total 800 sf) 	<ul style="list-style-type: none"> • 2 piers (total 900 sf) 	<ul style="list-style-type: none"> • 10 piers (total 1,700 sf) 	<ul style="list-style-type: none"> • 8 piers (total 1,300 sf) 	<ul style="list-style-type: none"> • 15 piers (total 1,300 sf)
Accommodates future widening	<ul style="list-style-type: none"> • Not feasible 	<ul style="list-style-type: none"> • Not feasible 	<ul style="list-style-type: none"> • Difficult: requires separate structure 	<ul style="list-style-type: none"> • 4a) Easily widened • 4b) Difficult: requires separate structure 	<ul style="list-style-type: none"> • Easily widened
Constructability and temporary work	<ul style="list-style-type: none"> • <i>Work bridge:</i> east bank to island • <i>Sheetpile cofferdams around island pier:</i> yes • 	<ul style="list-style-type: none"> • <i>Work bridge:</i> east bank to island • <i>Sheetpile cofferdams around island pier:</i> yes • <i>Falsework required in river:</i> temporary bents for arch required 	<ul style="list-style-type: none"> • <i>Work bridge:</i> east bank to island • <i>Sheetpile cofferdams around piers:</i> yes 	<ul style="list-style-type: none"> • <i>Work bridge:</i> east bank to west channel • <i>Sheetpile cofferdams around piers:</i> yes for 4b 	<ul style="list-style-type: none"> • <i>Work bridge:</i> east bank to west channel
Maintenance	<ul style="list-style-type: none"> • Medium: requires more detailed inspections • Painting costs (unless weathering steel used) 	<ul style="list-style-type: none"> • Medium: requires more detailed inspections • Painting costs (unless weathering steel used) 	<ul style="list-style-type: none"> • Low: little maintenance 	<ul style="list-style-type: none"> • 4a) Medium: steel painting costs (unless weathering steel used) • 4b) Low: little maintenance 	<ul style="list-style-type: none"> • Low: little maintenance • 3-column piers will require debris removal