



	Structure Type	Structure Base Cost* (2006 \$)	Advantages	Disadvantages	Advance?
	15 th Avenue Overpass S	Structure Types			
A	Prestressed Concrete Girders	\$ 3,000,000	 Lower cost Straightforward to construct, no temporary shoring Shorter construction duration Low maintenance 	 Span limitations on curved alignments Girder depth step changes Less aesthetically pleasing 	
В	Haunched Cast-in-Place Concrete Box Girder	\$ 3,100,000	 Average cost Accommodates curved alignments well Low maintenance Aesthetic haunched shape over 15th Ave Long span capability 	 Longer construction duration Requires temporary shoring Increased impacts below bridge during construction 	
С	Straight Cast-in-Place Concrete Box Girder	\$ 3,100,000	 Average cost Accommodates curved alignments well Low maintenance Aesthetically pleasing Long span capability 	 Longer construction duration Requires temporary shoring Increased impacts below bridge during construction 	
	Steel Plate I-Girders (Not shown, appearance similar to Prestressed Concrete Girders)	\$ 3,400,000	 Average cost Accommodates curved alignments well Shorter construction duration Minimal temporary shoring Long span capability Lower seismic loads due to less weight; Reduced foundations 	 Higher superstructure cost High maintenance/Life cycle costs 	
	Mainline Structure Type	es			
A	Prestressed Concrete Girders	\$ 19,500,000	 Lower cost Straightforward to construct, no temporary shoring Shorter construction duration Low maintenance 	 Does not accommodate width transitions well Less aesthetically pleasing 	
В	Straight Cast-in-Place Concrete Box Girder	\$ 20,800,000	 Average cost Accommodates width transitions well Low maintenance Aesthetically pleasing 	 Longer construction duration Requires temporary shoring Increased impacts below bridge during construction Steel Box Girder over railroad 	
	Steel Plate I-Girders (Not shown, appearance similar to Prestressed Concrete Girders)	\$ 20,000,000	 Average cost Accommodates width transitions well Shorter construction duration Minimal temporary shoring Lower seismic loads due to less weight; Reduced foundations 	 Higher superstructure cost High maintenance/Life cycle costs 	





	Structure Type	Structure Base Cost* (2006 \$)	Advantages	Disadvantages	Advance?
	23 rd Avenue Ramps Stru	cture Types			
A	Prestressed Concrete Girders	\$ 6,500,000	 Lower cost Straightforward to construct, no temporary shoring Reduced environmental permitting required for construction Shorter construction duration Low maintenance 	Less aesthetically pleasing	
В	Straight Cast-in-Place Concrete Box Girder	\$ 6,700,000	 Average cost Low maintenance Aesthetically pleasing Long span capability 	 Longer construction duration Requires temporary shoring Increased environmental permitting required for construction Increased impacts below bridge during construction 	
	Steel Plate I-Girders (Not shown, appearance similar to Prestressed	\$ 7,100,000	 Average cost Shorter construction duration Minimal temporary shoring Reduced environmental permitting required for construction 	 Higher superstructure cost High maintenance/Life cycle costs 	
	Concrete Girders)		Long span capabilityLower seismic loads due to less weight; Reduced foundations		
	Magnolia Bluff Structure	e Types			
A	Prestressed Concrete Girders	\$ 18,900,000	 Lower cost Straightforward to construct, no temporary shoring Shorter construction duration Low maintenance 	 Span limitations on curved alignments Less aesthetically pleasing 	
В	Haunched Cast-in-Place Concrete Box Girder	\$ 19,800,000	 Average cost Accommodates curved alignments well Low maintenance Aesthetically pleasing Long span capability 	 Longer construction duration Requires temporary shoring Increased impacts below bridge during construction 	
	Haunched Steel Box Girder (Not shown, appearance similar to Cast-in-Place Concrete Box Girder)	\$ 27,200,000	 Higher cost Accommodates curved alignments well Shorter construction duration Minimal temporary shoring Long span capability Lower seismic loads due to less weight; Reduced foundations 	 Higher superstructure cost High maintenance/Life cycle costs 	





Structure Type	Structure Base Cost* (2006 \$)	Advantages	Disadvantages Advar	nce?		
Column Type (Cost provided based on Bluff Structure Columns)						
Curved Flare Column	\$6,000,000	 Texture opportunity on surfaces Positive relationship to haunched bridge type Classic appearance 	 Custom forms May require minor repairs post seismic activity 			
Angular Flare Column	\$5,800,000	 Texture opportunity on surfaces Positive relationship to haunched bridge type Timeless architectural style 	 Custom forms May require minor repairs post seismic activity 			
Tapered Column	\$5,600,000	Reduced forming costsClean appearance	Limited opportunity for textures and highlights			