### BRIDGE ARCHITECTURE

PAUL KINDERMAN PE AIA
STATE BRIDGE AND STRUCTURES ARCHITECT
WASHINGTON STATE DEPARTMENT OF TRANSPORTATION

# Bridge Piers



# Standard



Architectural



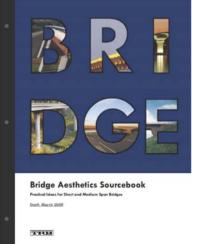
Artistic

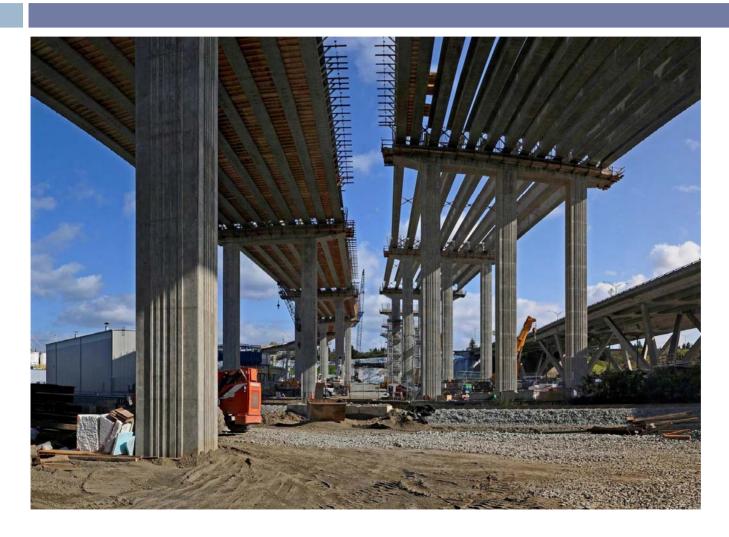
Most bridges are standard 'workhorse' types.



Blend differing superstructure types.

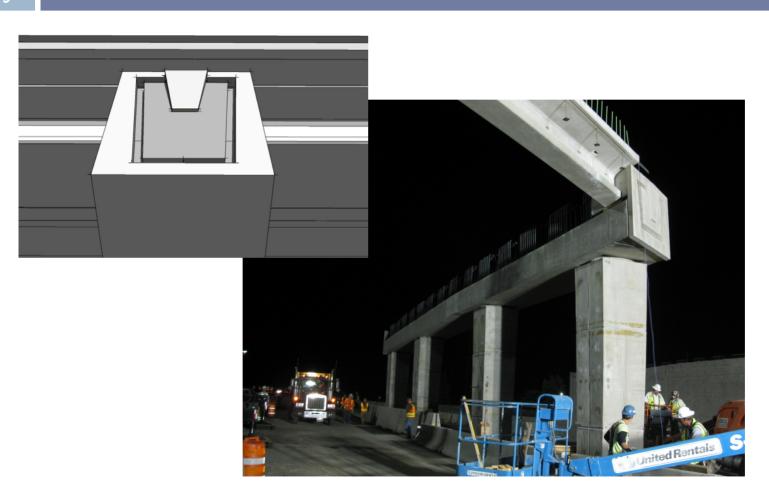
Source Book Section D





"Slender elements that reduce the silhouette and are as transparent as possible...."

Sourcebook C3



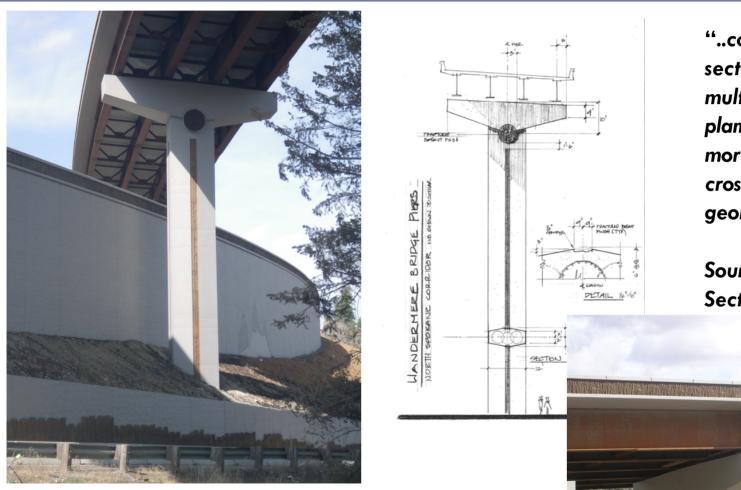
ABC:
Precast
Columns and
Cap

"If ornament is appropriate, use it sparingly"

Sourcebook Section C

## Standard

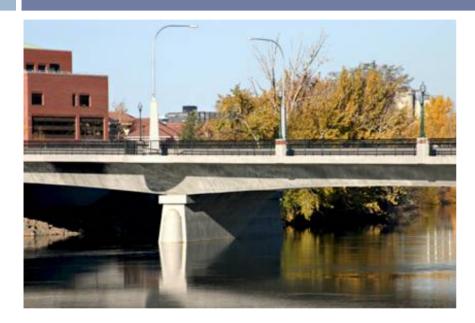
#### **US 395 North Spokane Corridor**



"..columns cross section with multiple surface planes...or more complex cross section geometry"

Sourcebook Section C6

Paul Kinderman PE AIA Bridge Architect WSDOT







Piers Reference Existing Historic Bridge:

"The new work shall be differentiated for the old....."

Secretary of Interiors Standards for Rehabilitation.

# **Architectural**

#### I 405 Canyon Park

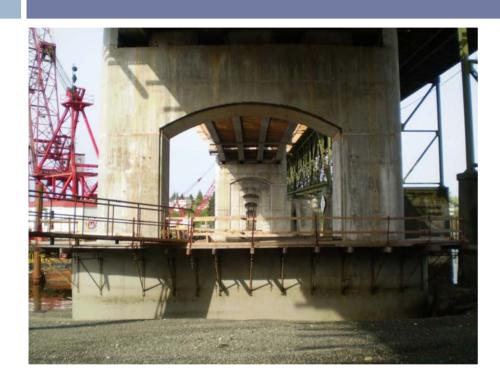




"...use curved flares at the column capitals..."

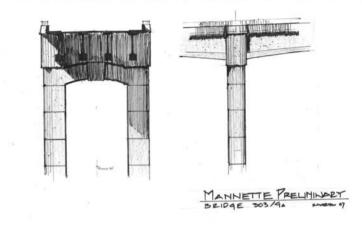
Sourcebook Section C6

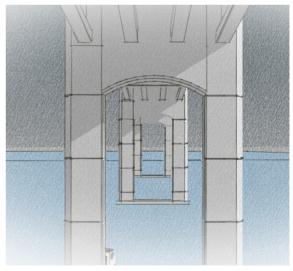
Note: HNTB corridor column concept.
WSDOT final detailing and design.



"Test promising options with 3D views taken from important viewpoints"

Sourcebook B3





### **Architectural**

#### I 90 Snow Shed Portal

10



Context: "What is the nature of nearby land use?"

Sourcebook Section B







**Cascadian Architecture** 

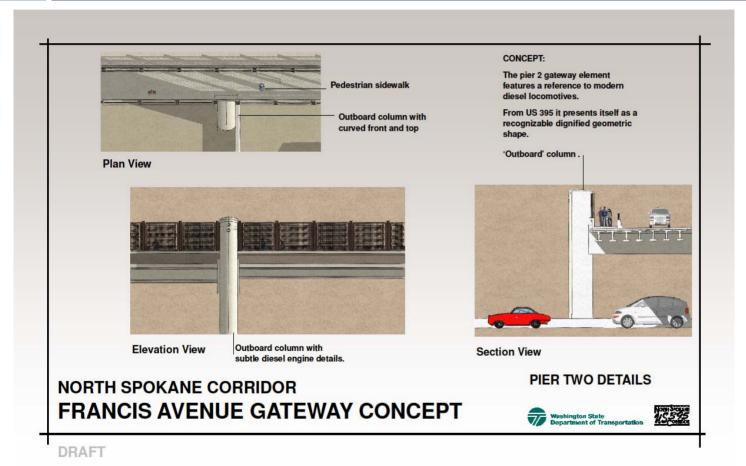
"...the
elaborate
character...
must not be
contradicted by
its parts.."

J.B. Johnson 1912

Sourcebook C9

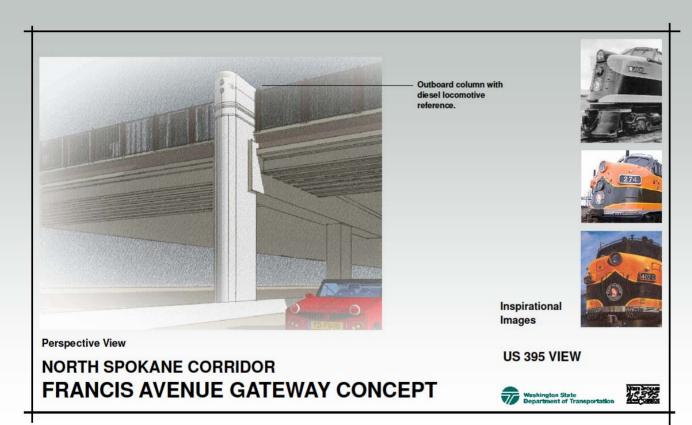
## **Artistic**

#### **US 395 North Spokane Corridor**



"Place the
exterior column
at the outside
face of the
cap...to
emphasize the
vertical lines...."

Sourcebook C6



DRAFT



"Develop alternatives... give a range of possibilities..."

Sourcebook D3

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