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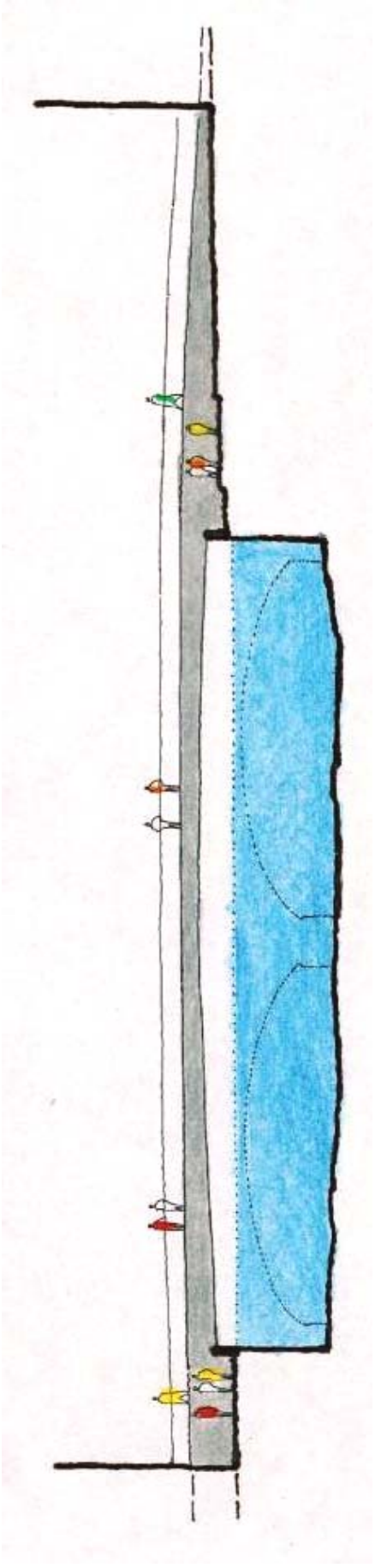
## **Appendix G**

### **Simulations and Architectural Renderings**

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## Existing Channel

Results in Shorter Higher Bridges



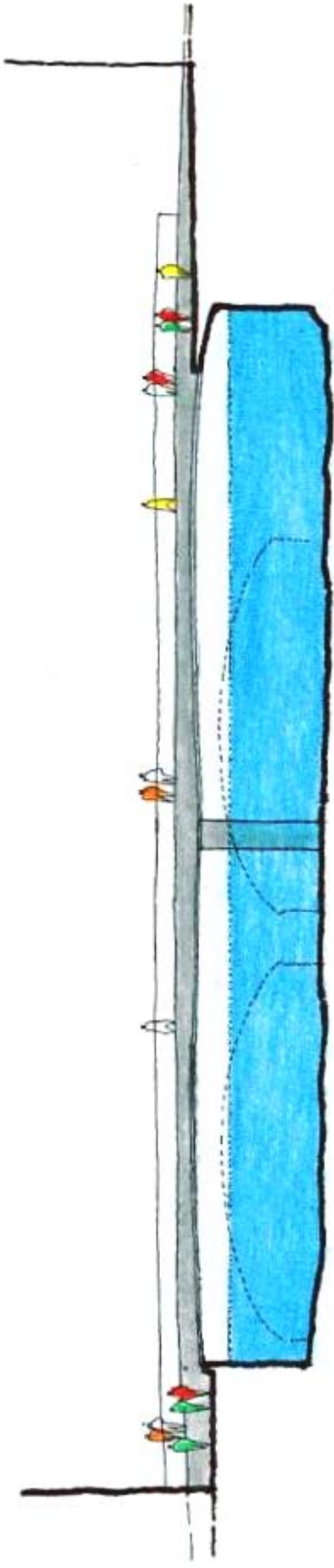
## Deck Supported from Below Clear Span Shallow Concrete Arch Shown

Concrete river channel flood walls at or above pedestrian eyelevel are required. These walls, along with higher bridge structures and abutments, hide views of river and river edge pedestrian activity. Higher bridge decks must ramp to meet existing street levels requiring long transitions, some over a block long. At ground level, buildings bordering river flood walls and ramping streets may experience a 'daylight basement' storefront quality. New raised pedestrian promenades on portions of the north shore and most of the south shore may be required for a river walk experience.



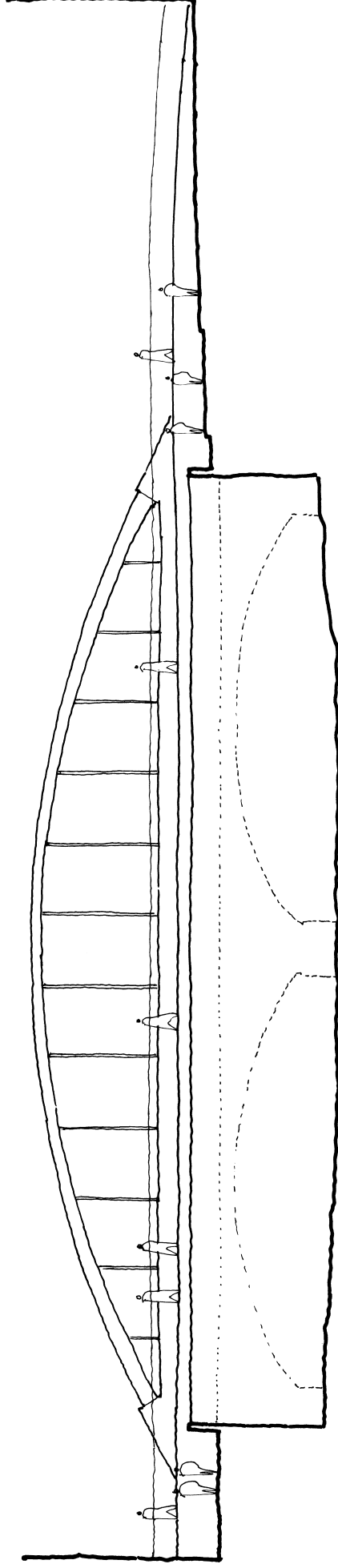
## **Widen Channel**

Results in Lower Longer Bridges



## **Deck Supported from Below Two Span Shallow Concrete Arch Shown**

The south embankment is moved back twenty-five to thirty-five feet. A new pedestrian promenade will be required on the south shore. This new promenade may be twenty-five to thirty-five feet wide and is shared with service vehicles. This concept lowers bridges and channel flood walls in an attempt to keep the urban setting as flat as possible.



### EXISTING CHANNEL

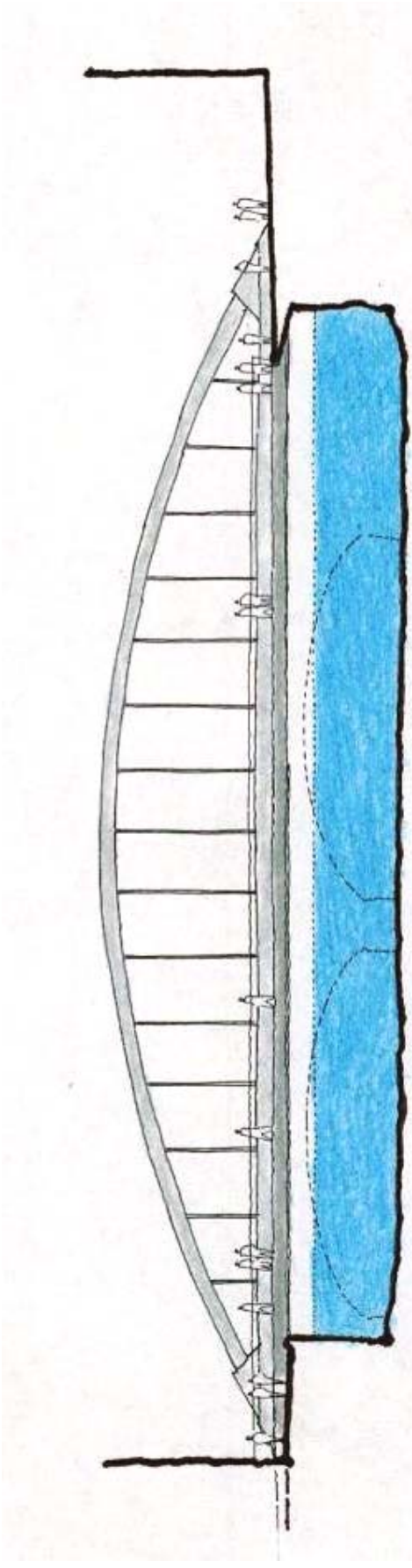
#### RESULTS IN SHORTER HIGHER BRIDGES

#### DECK SUPPORTED FROM ABOVE – TIED ARCH SHOWN

Concrete river channel flood walls at or above pedestrian eyelevel are required. These walls, along with higher bridge structures and abutments, hide views of river and river edge pedestrian activity. Higher bridge decks must ramp to meet existing street levels requiring long transitions, some over a block long. At ground level, buildings bordering river flood walls and ramping streets may experience a 'daylight basement' storefront quality. New raised pedestrian promenades on portions of the north shore and most of the south shore may be required for a river walk experience.

## **Widen Channel**

Results in Longer Lower Bridges

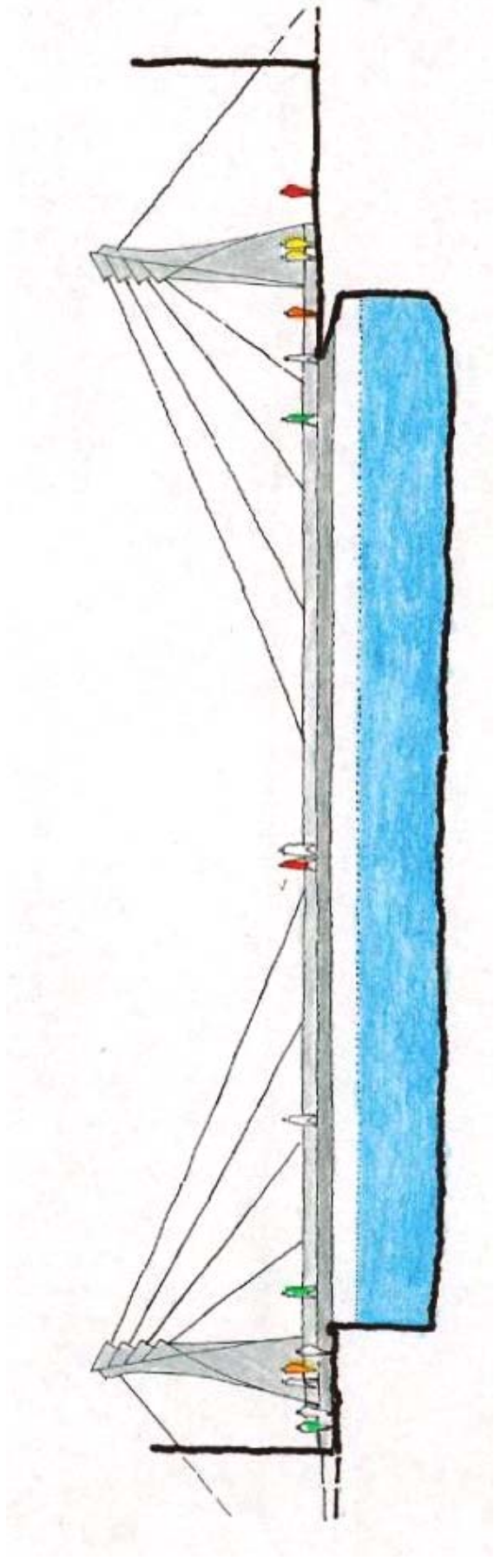


## **Deck Supported from Above Clear Span Tied Arch Shown**

The south embankment is moved back twenty-five to thirty-five feet. A new pedestrian promenade will be required on the south shore. This new promenade may be twenty-five to thirty-five feet wide and is shared with service vehicles. This concept lowers bridges and channel flood walls in an attempt to keep the urban setting as flat as possible.

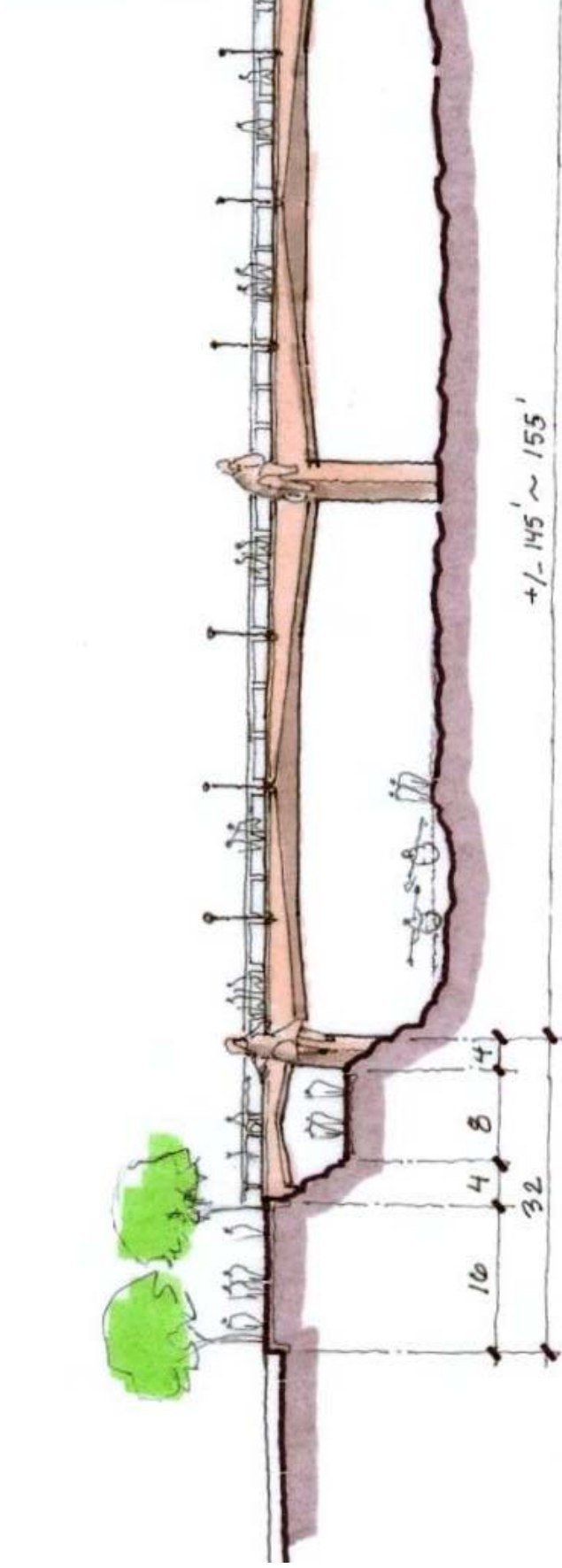
## **Widen Channel**

Results in Longer Lower Bridges

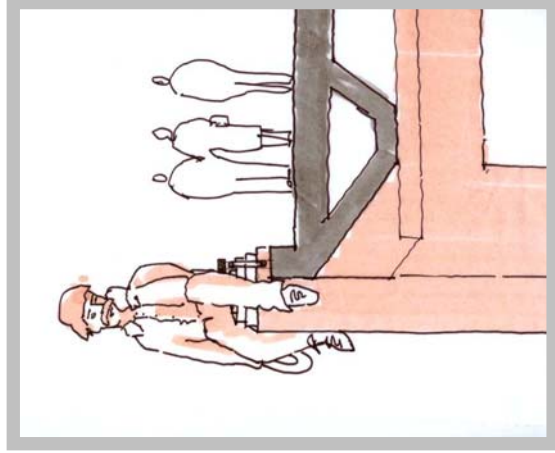


## **Deck Supported from Above Clear Span Cable Stay Shown**

The south embankment is moved back twenty-five to thirty-five feet. A new pedestrian promenade will be required on the south shore. This new promenade may be twenty-five to thirty-five feet wide and is shared with service vehicles. This concept lowers bridges and channel flood walls in an attempt to keep the urban setting as flat as possible.

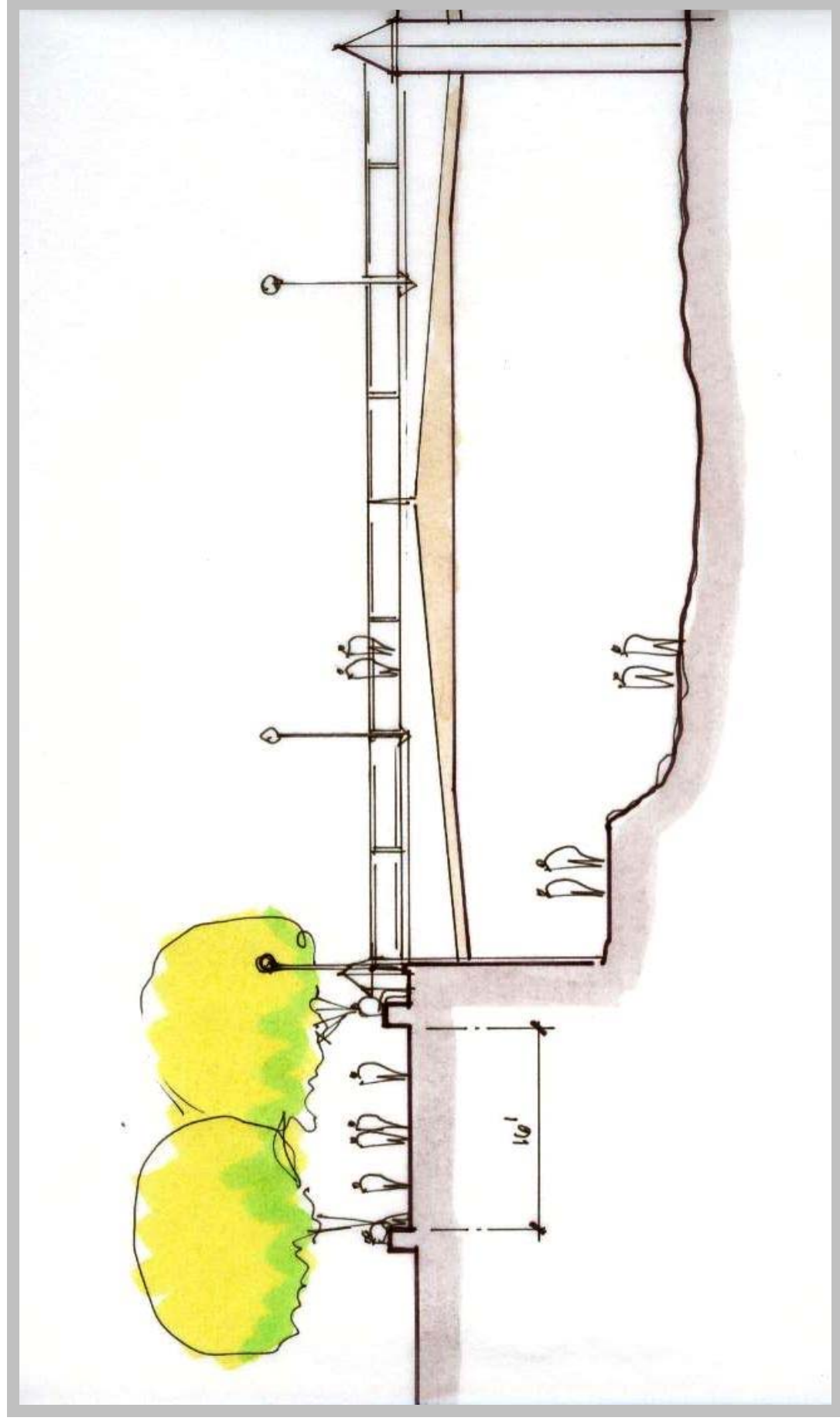


Bridge Structure Supported from Below



Bridge Structure Integrating Art / Sculpture

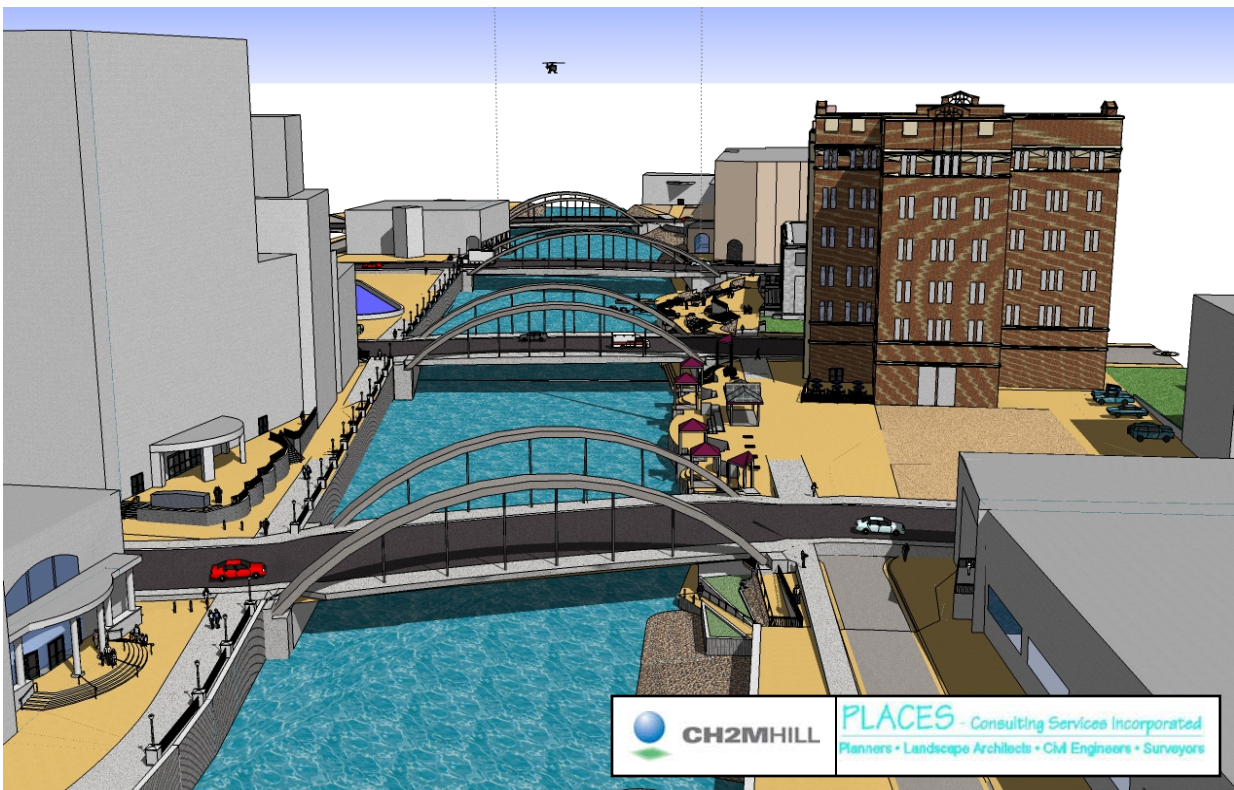




Promenade and Bridge



*Bridges Supported From Above With Cable Stays*



*Aerial view, tied arch bridges looking east.*



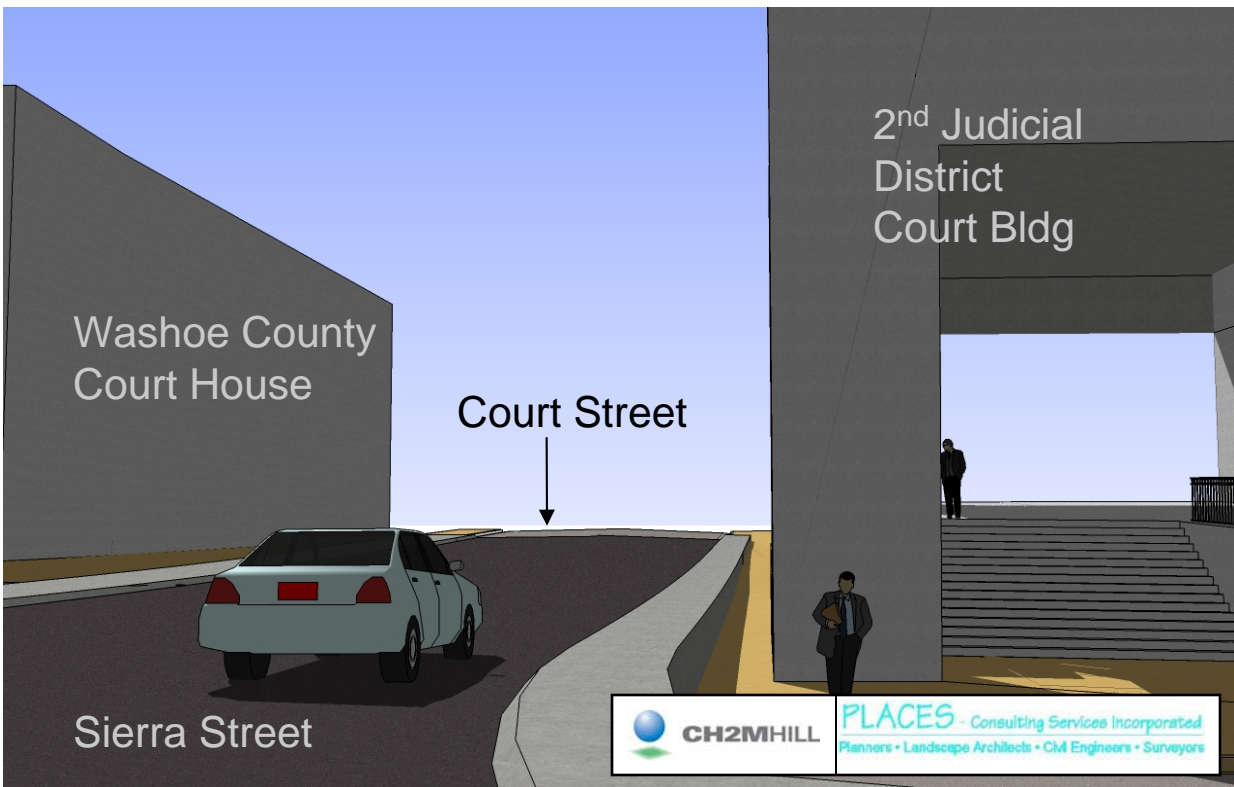


74 Year Flood Protection  
Sierra Street – Looking East

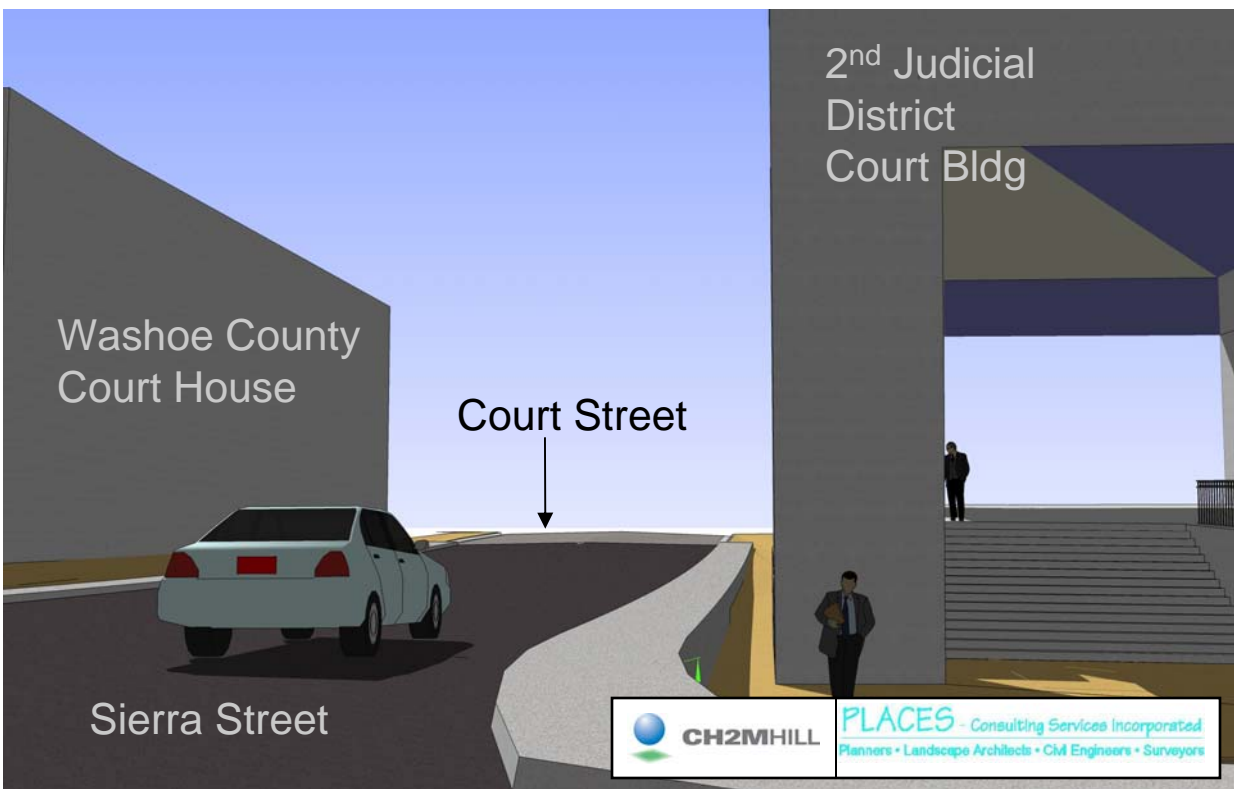


100 Year, Flood Protection  
Sierra Street – Looking East

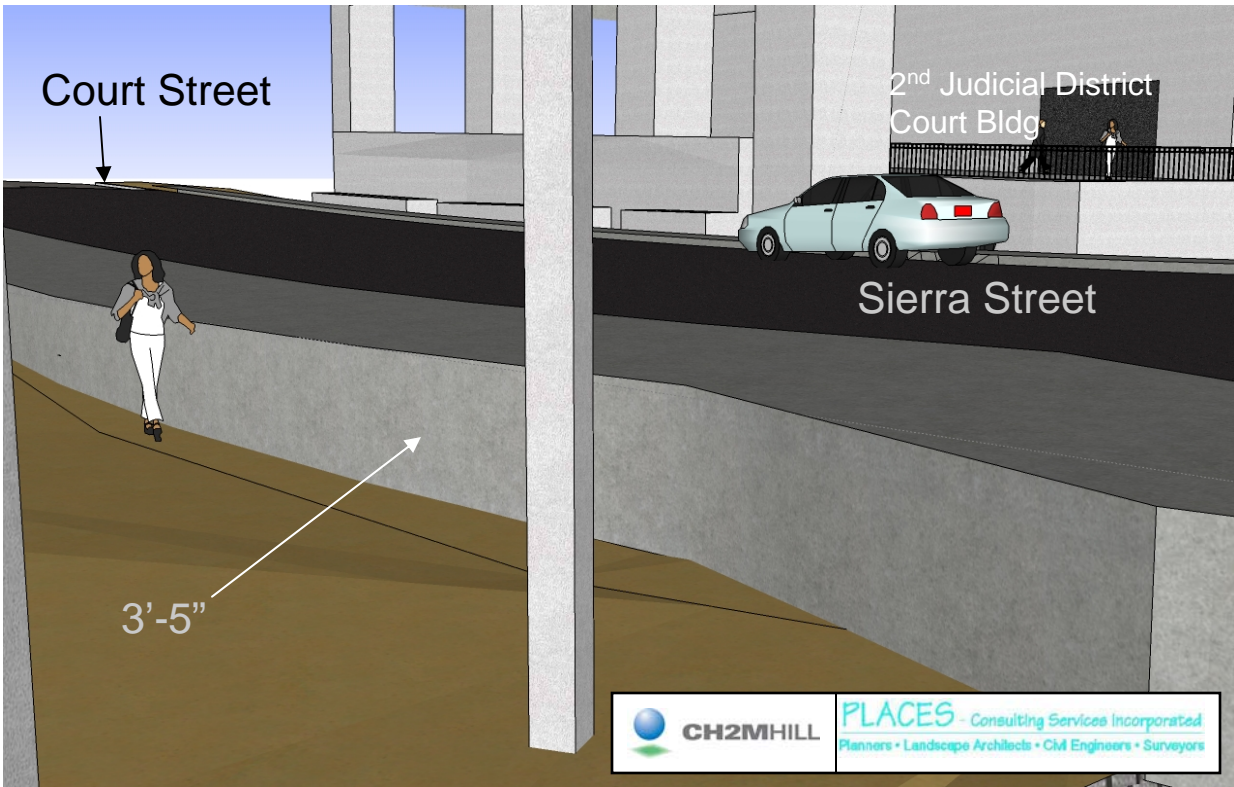




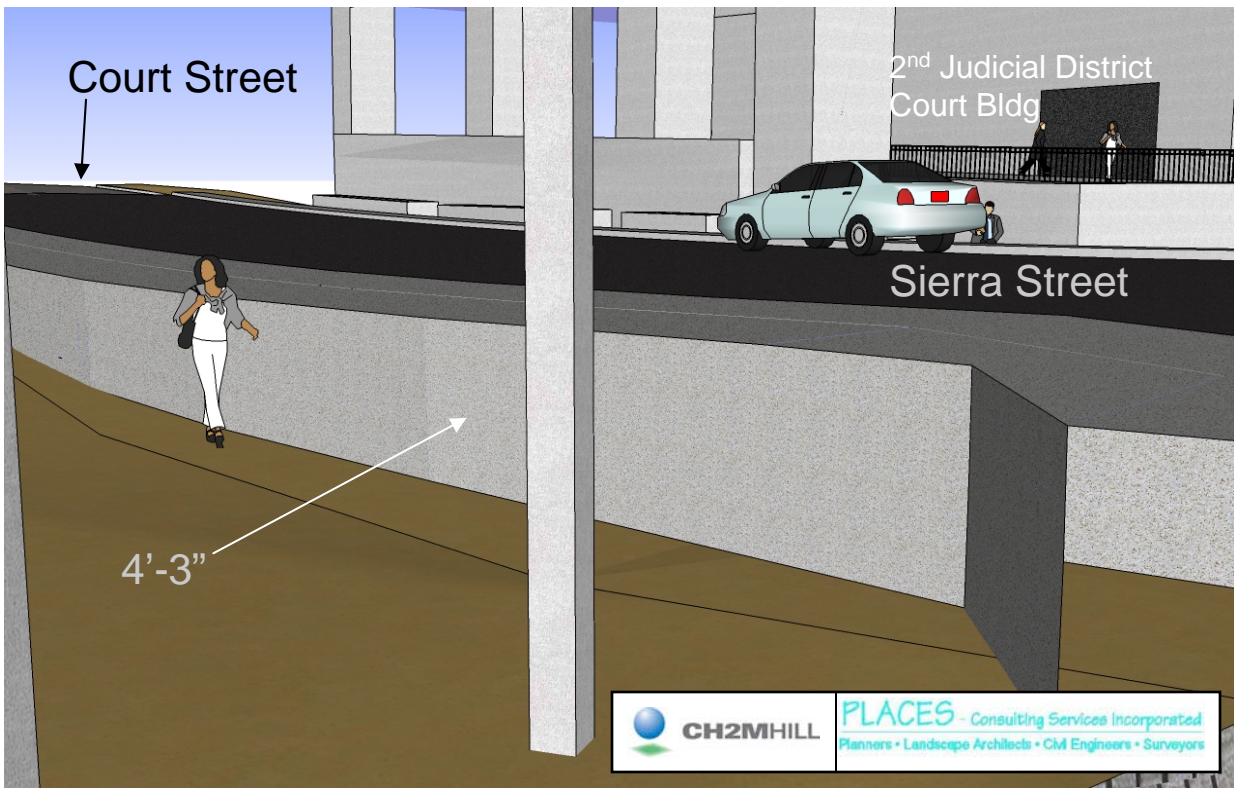
*74 Year Flood Protection  
Sierra Street - Looking South*



*100 Year Flood Protection  
Sierra Street - Looking South*

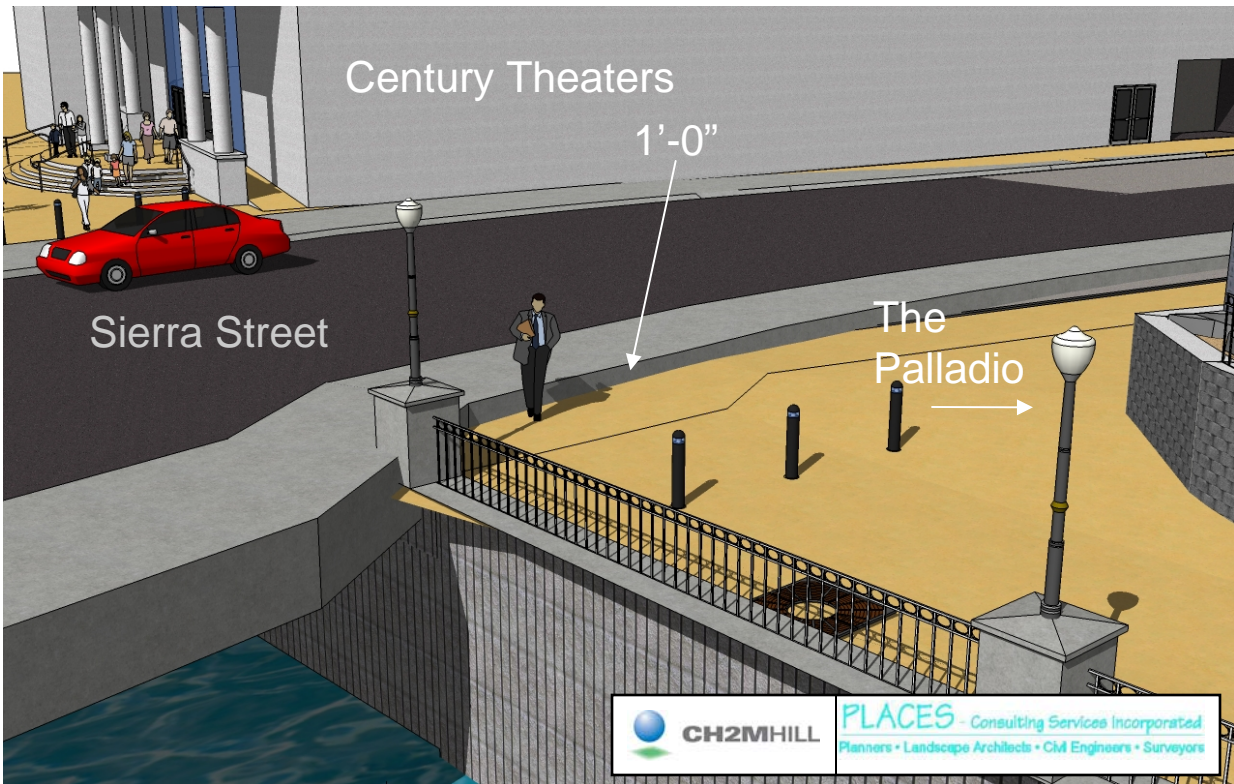


*74 Year Flood Protection  
Sierra Street – Looking West*



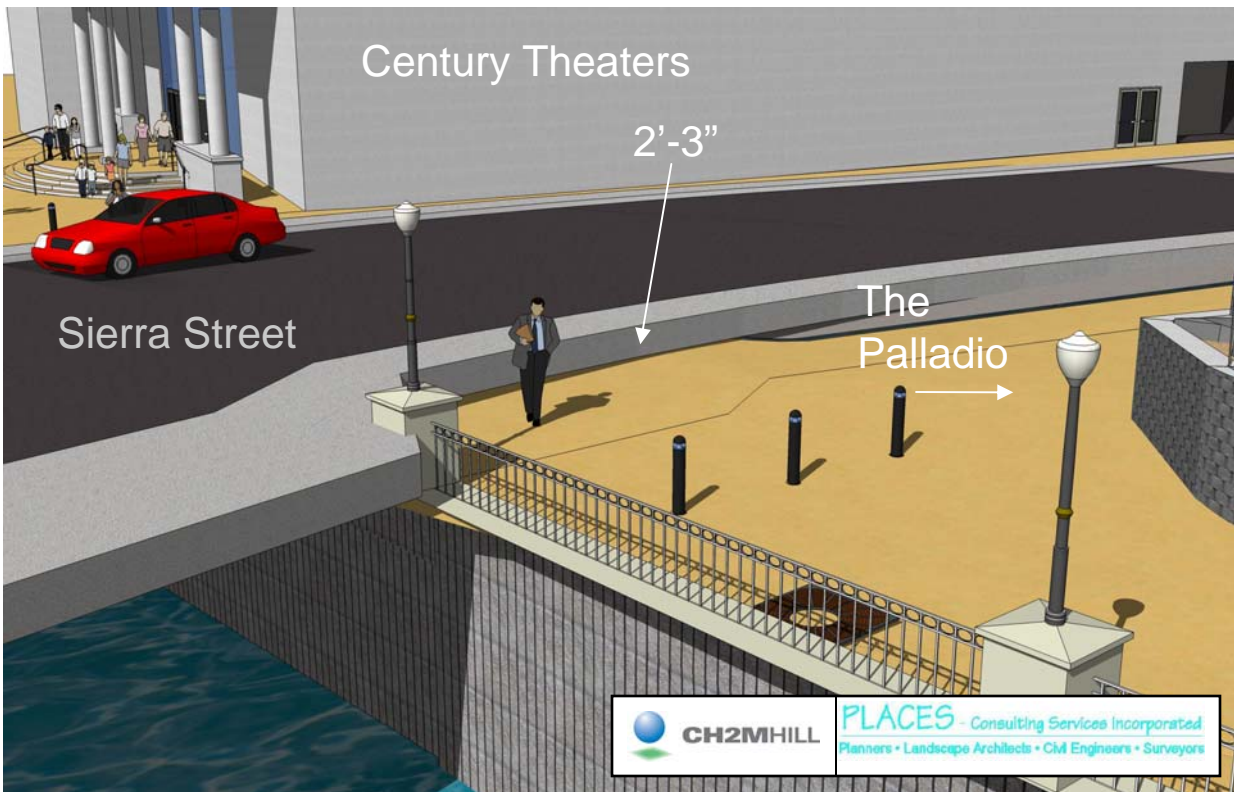
*100 Year Flood Protection  
Sierra Street – Looking West*





74 Year Flood Protection  
Sierra Street Looking West

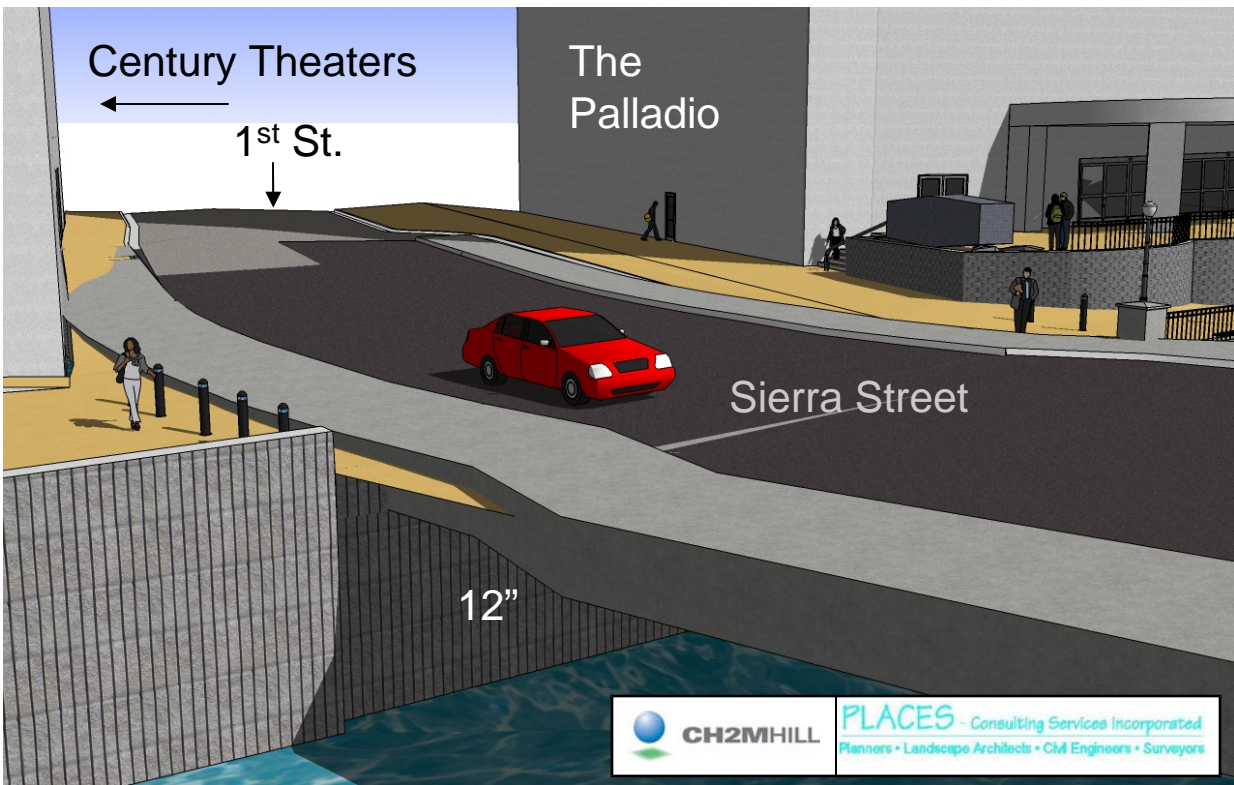
North Side  
of River



100 Year Flood Protection  
Sierra Street Looking West

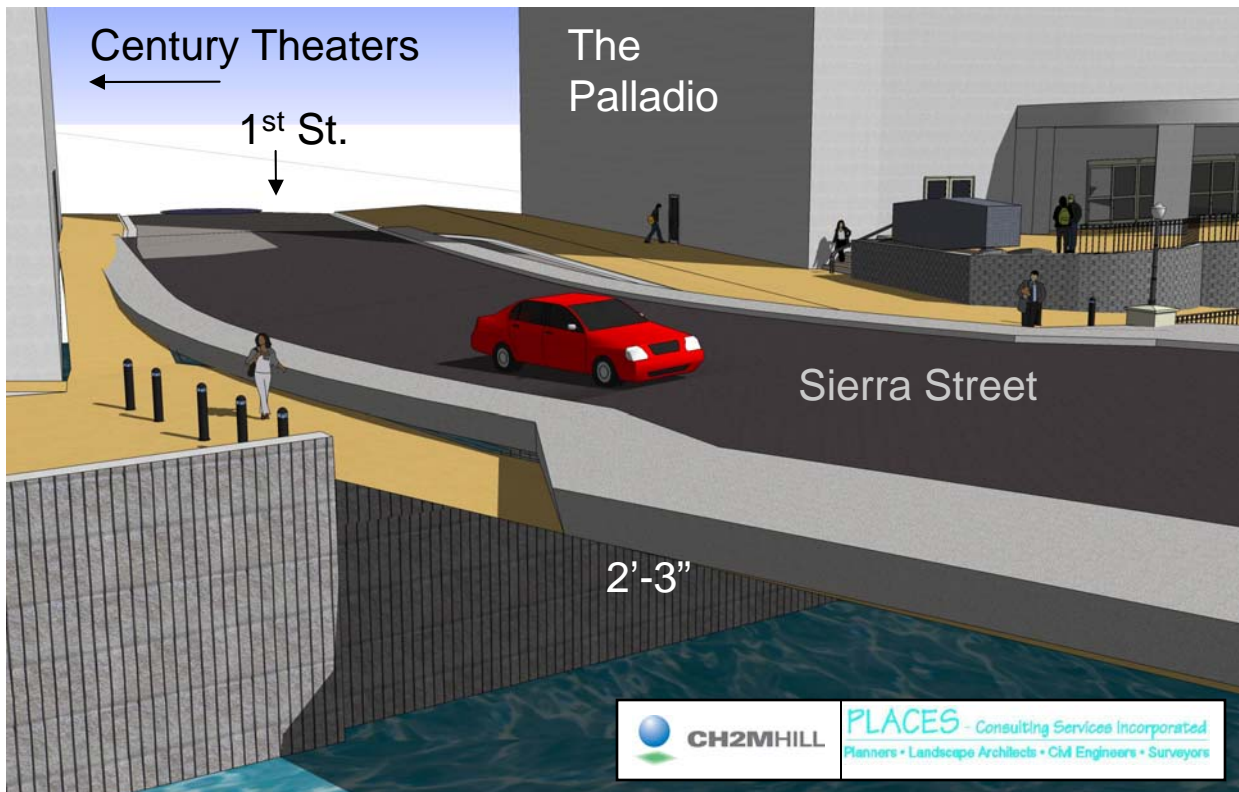
North Side  
Of River





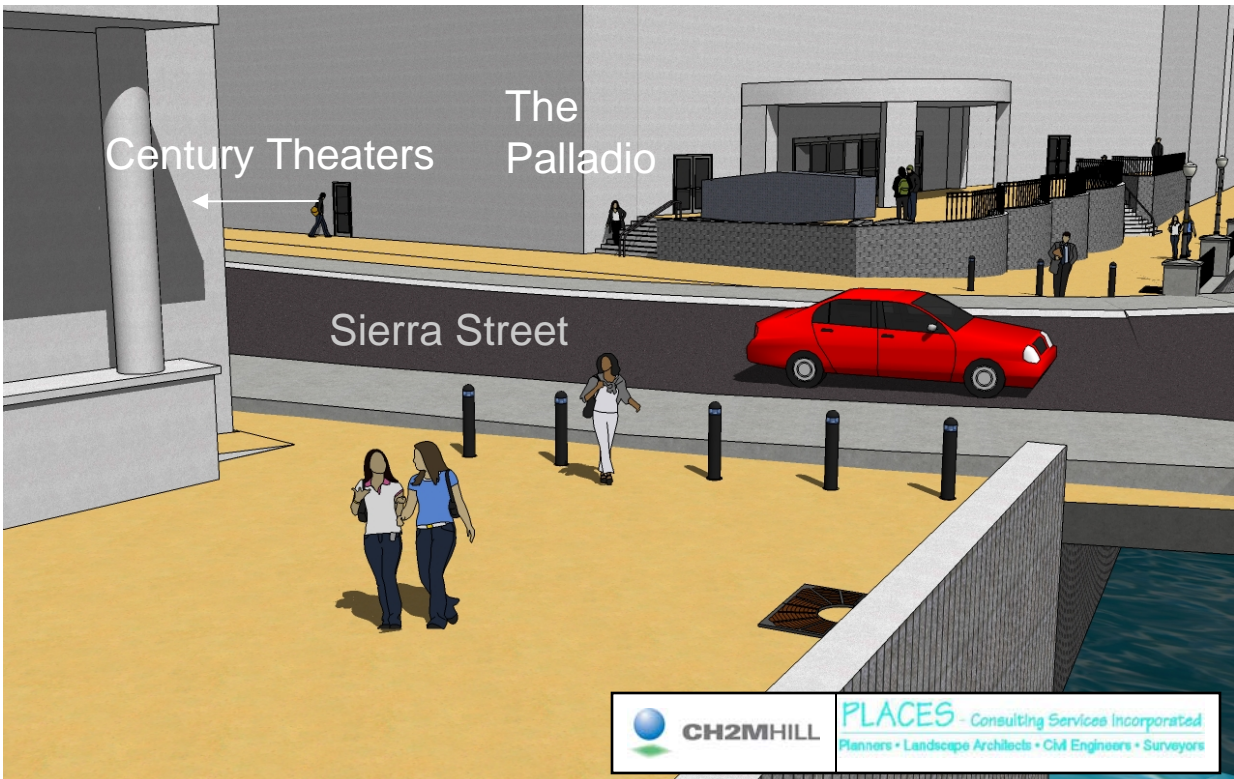
74 Year Flood Protection  
Sierra Street Looking North

North Side  
of River



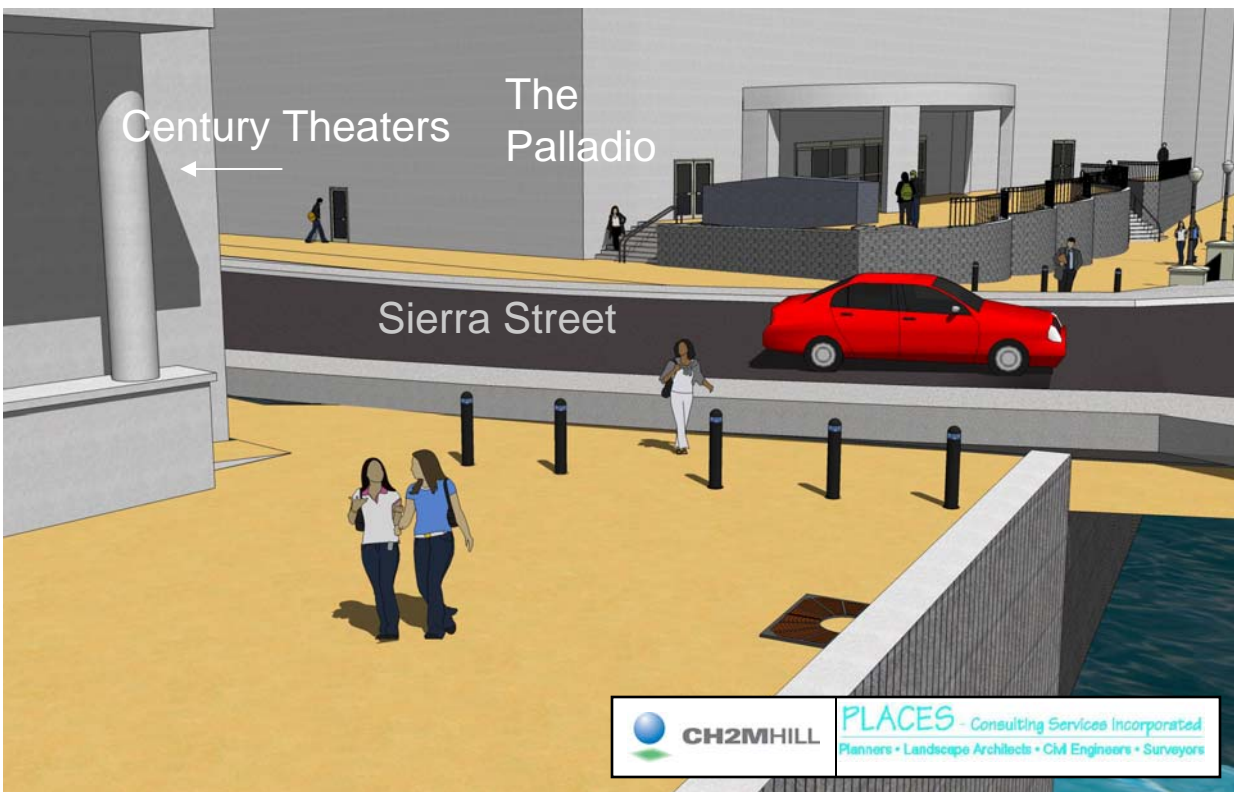
100 Year Flood Protection  
Sierra Street Looking North

North Side  
of River



74 Year Flood Protection  
Sierra Street Looking East

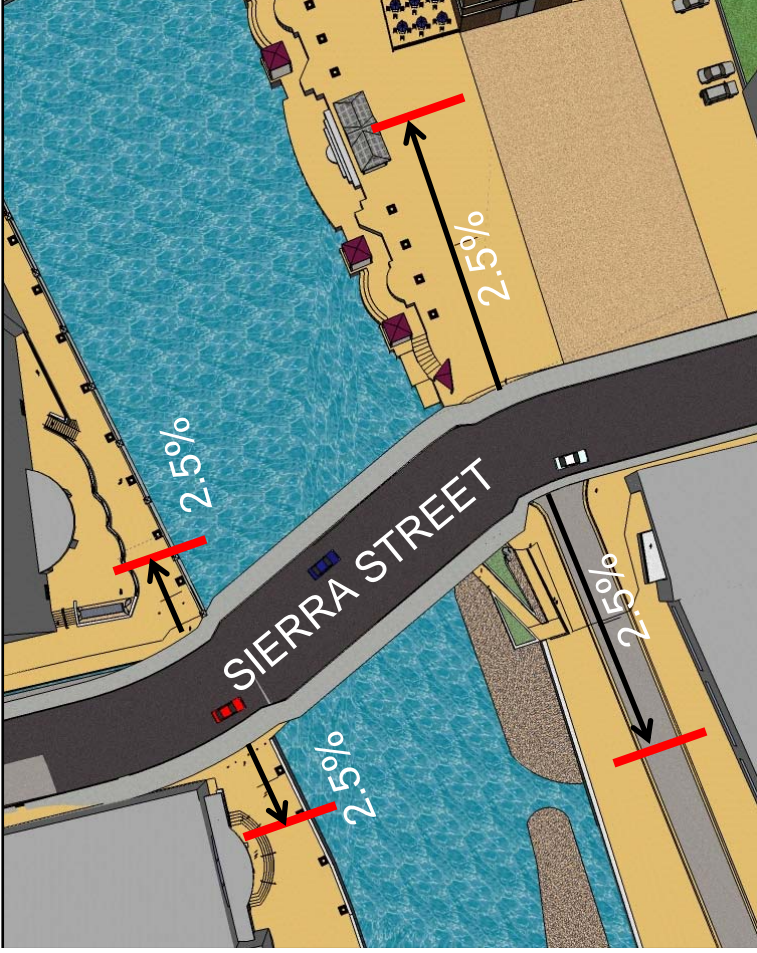
North Side  
of River



100 Year Flood Protection  
Sierra Street Looking East

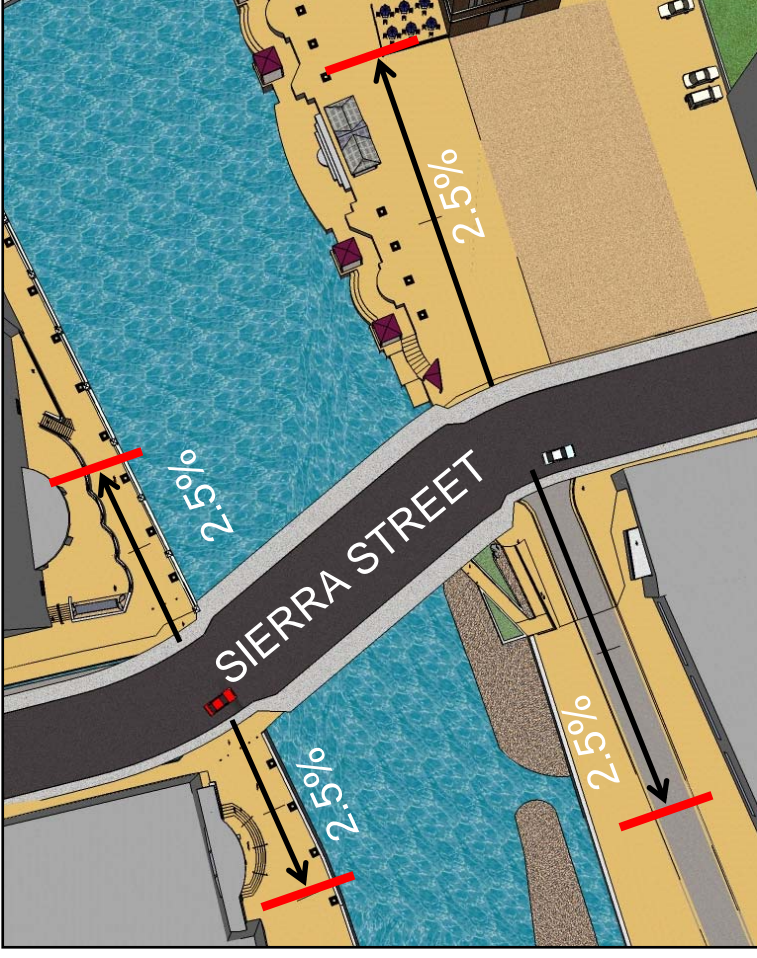
North Side  
of River





74-Year Flood Protection

Sierra Street – Plan View



100-Year Flood Protection

Sierra Street – Plan View

— Length of sloped sidewalk at 2.5% grade

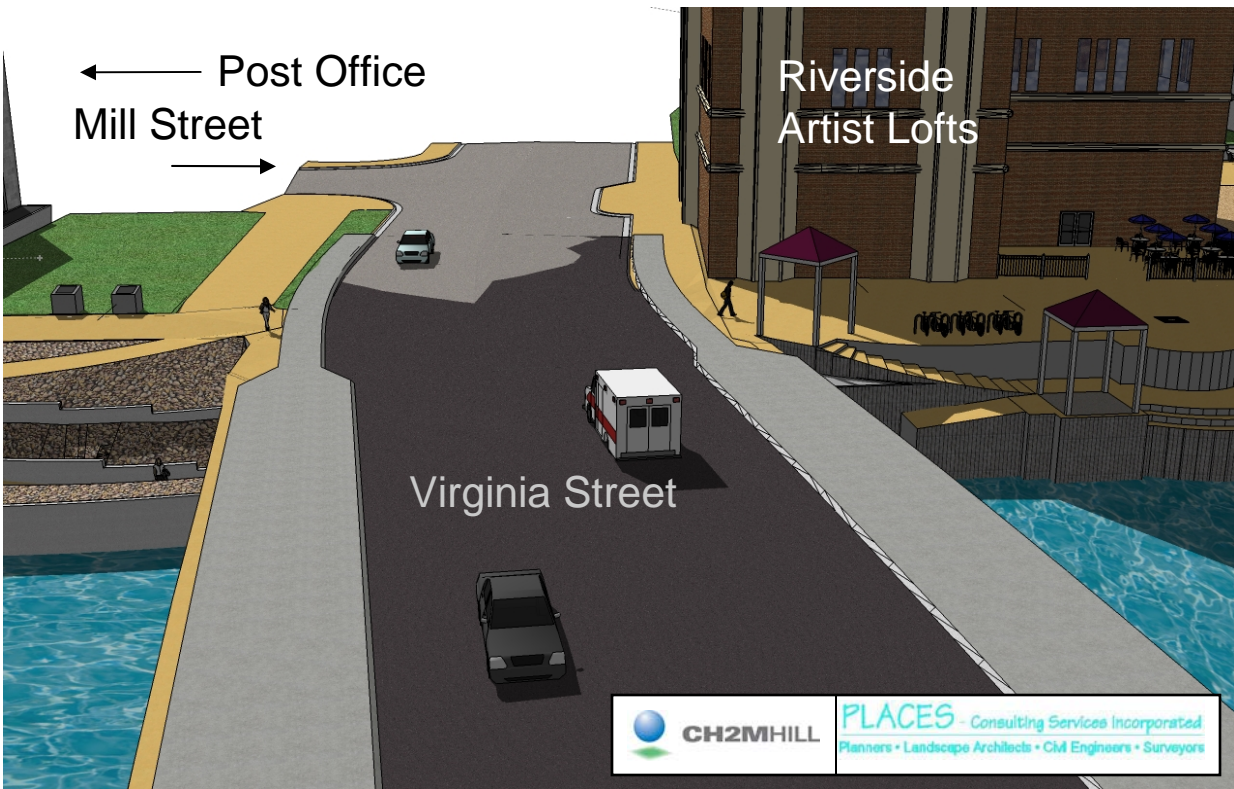




*74 Year Flood Protection  
Virginia Street Looking East*



*100 Year Flood Protection  
Virginia Street Looking East*

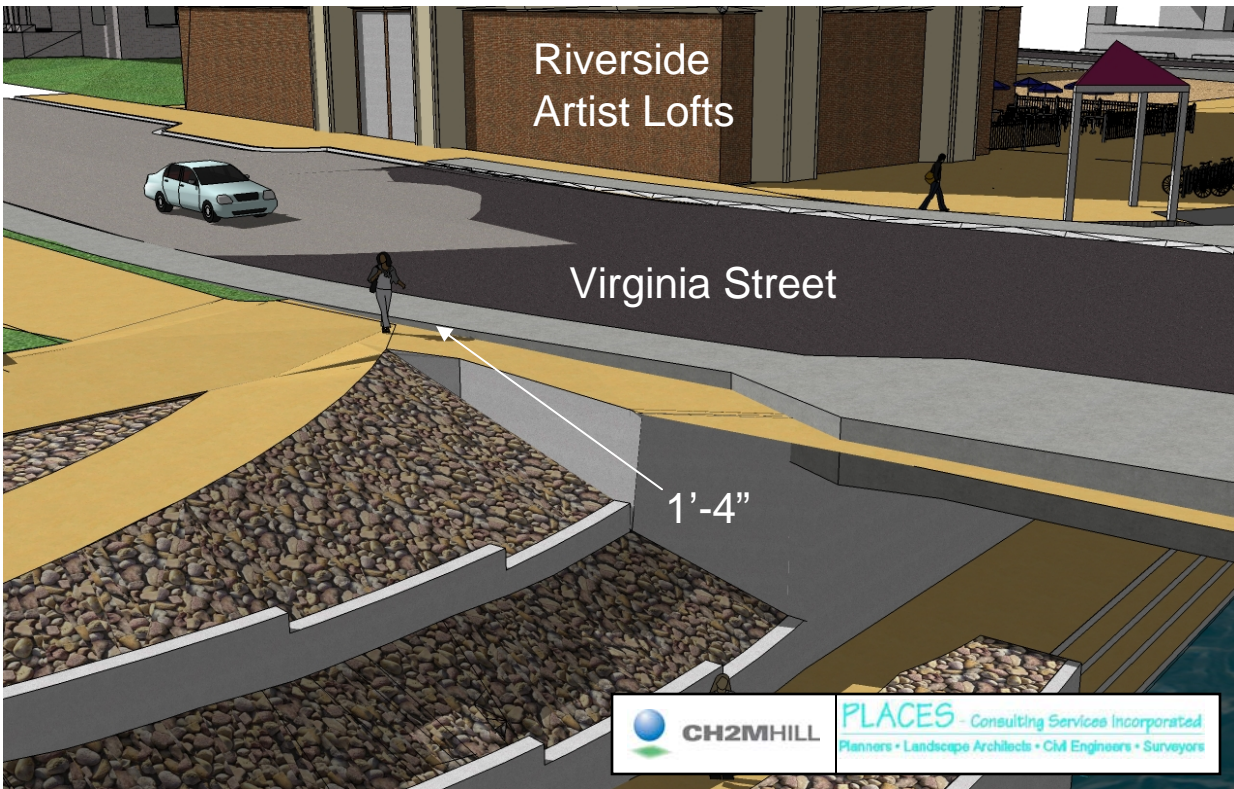


*74 Year Flood Protection  
Virginia Street Looking South*



*100 Year Flood Protection  
Virginia Street Looking South*



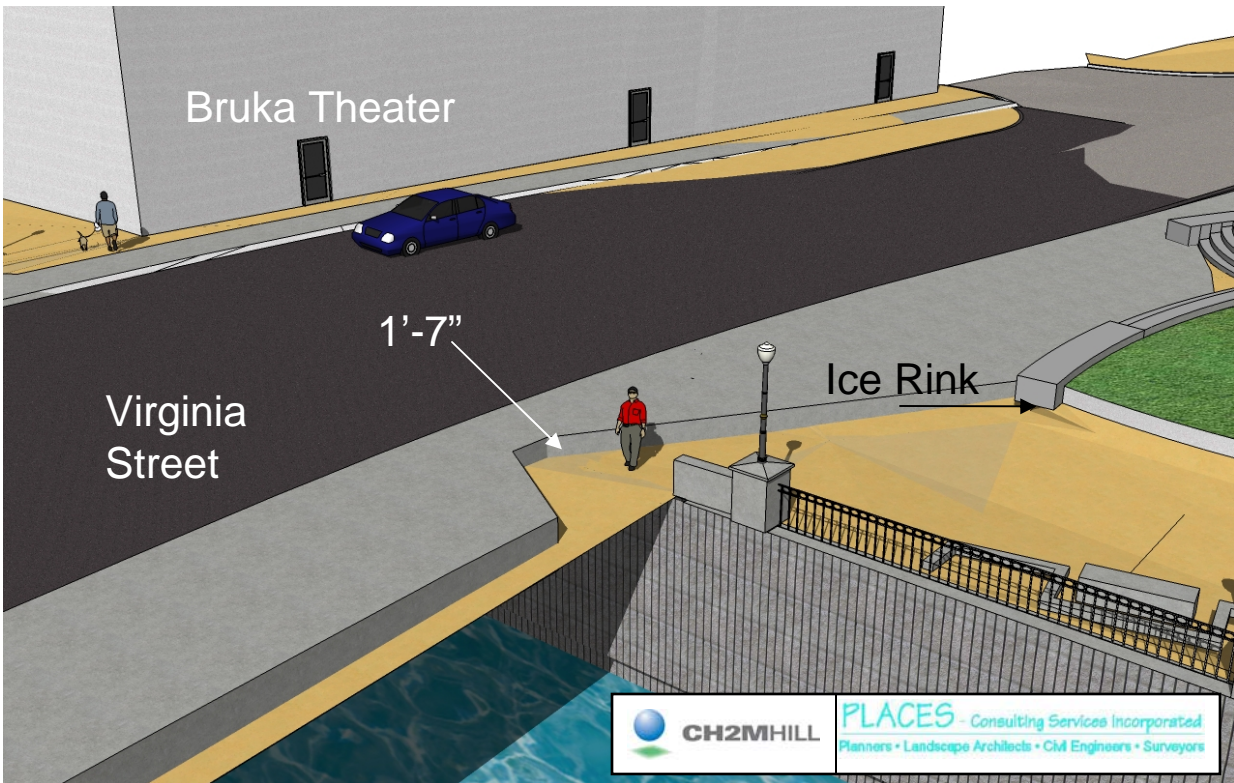


*74 Year Flood Protection  
Virginia Street Looking West*



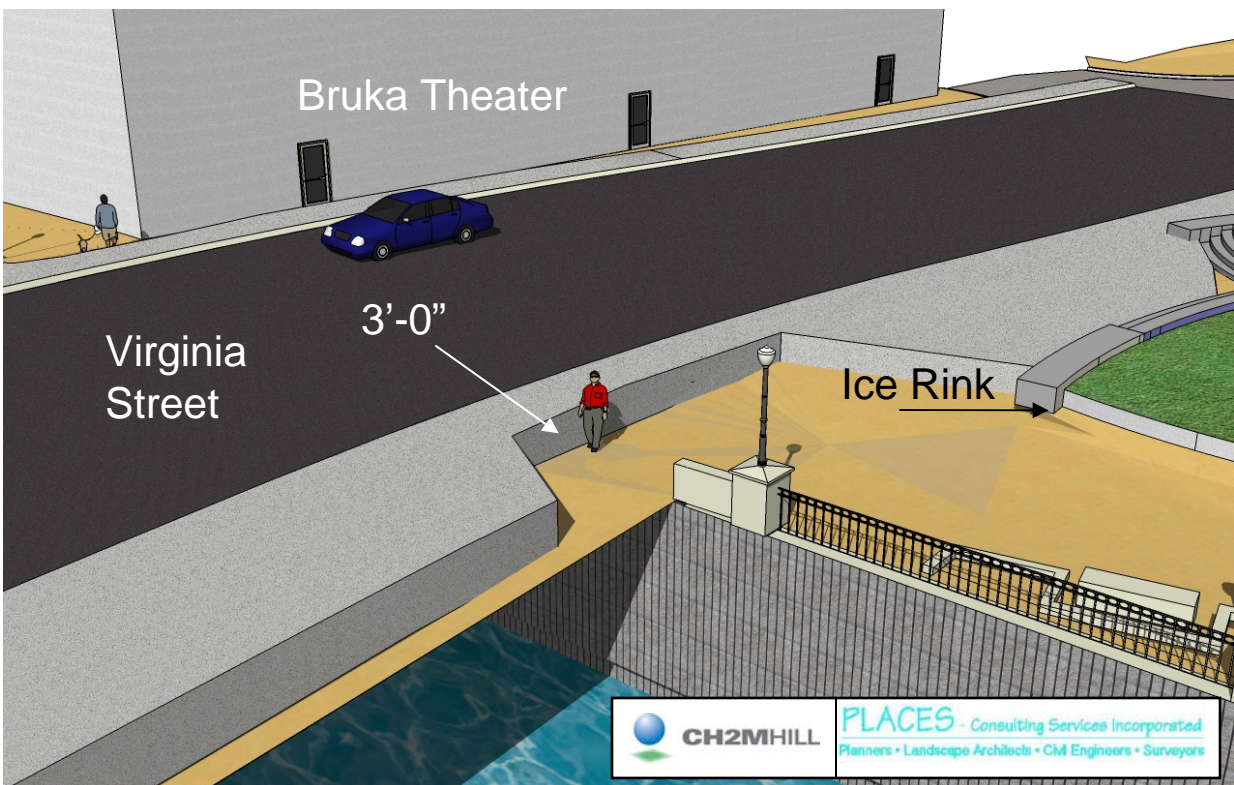
*100 Year Flood Protection  
Virginia Street Looking West*





74 Year Flood Protection  
Virginia Street Looking West

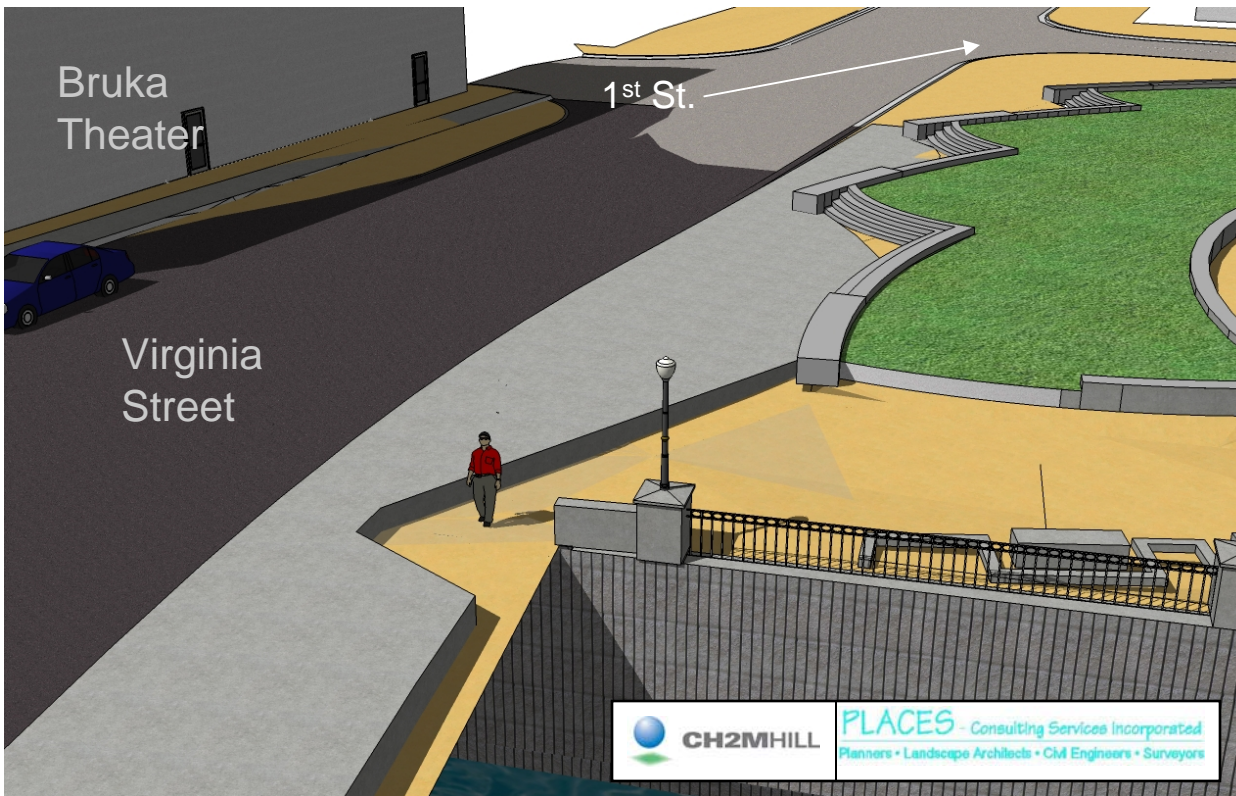
North Side  
of River



100 Year Flood Protection  
Virginia Street Looking West

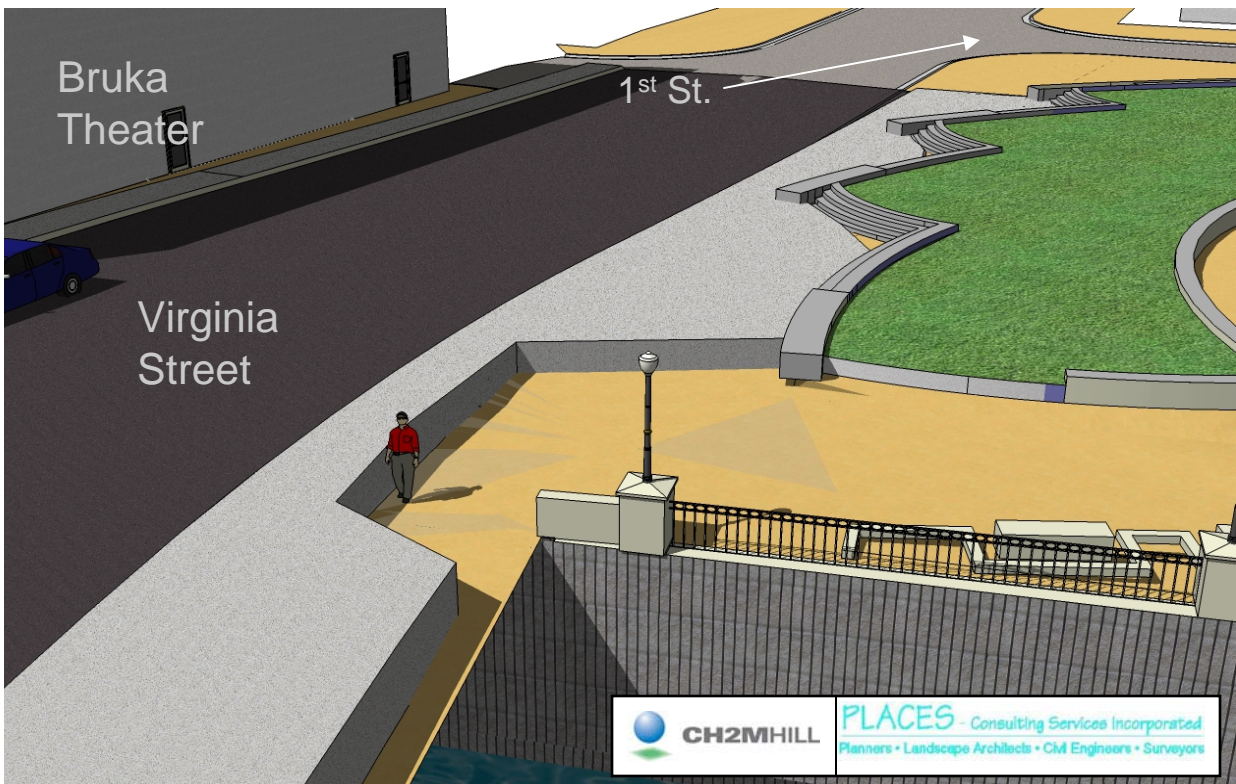
North Side  
of River





*74 Year Flood Protection  
Virginia Street Looking North*

*North Side  
of River*



*100 Year Flood Protection  
Virginia Street Looking North*

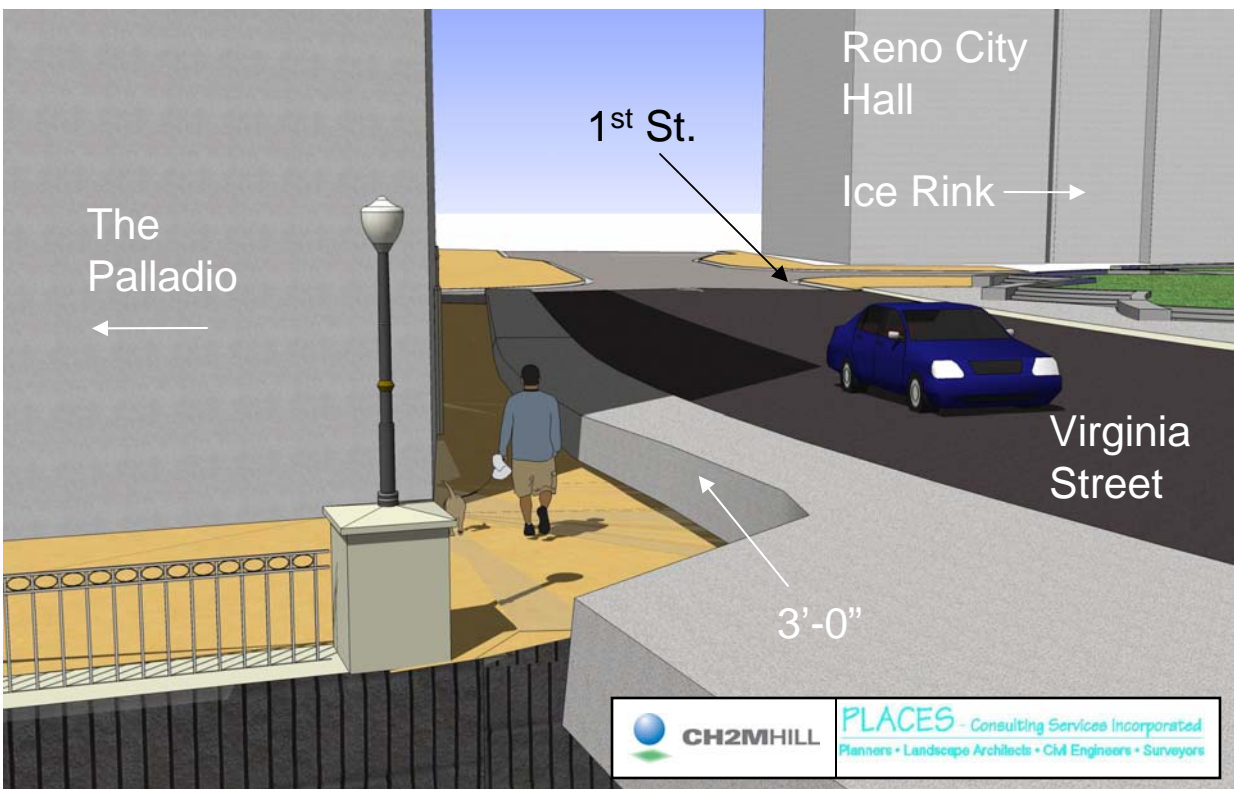
*North Side  
of River*





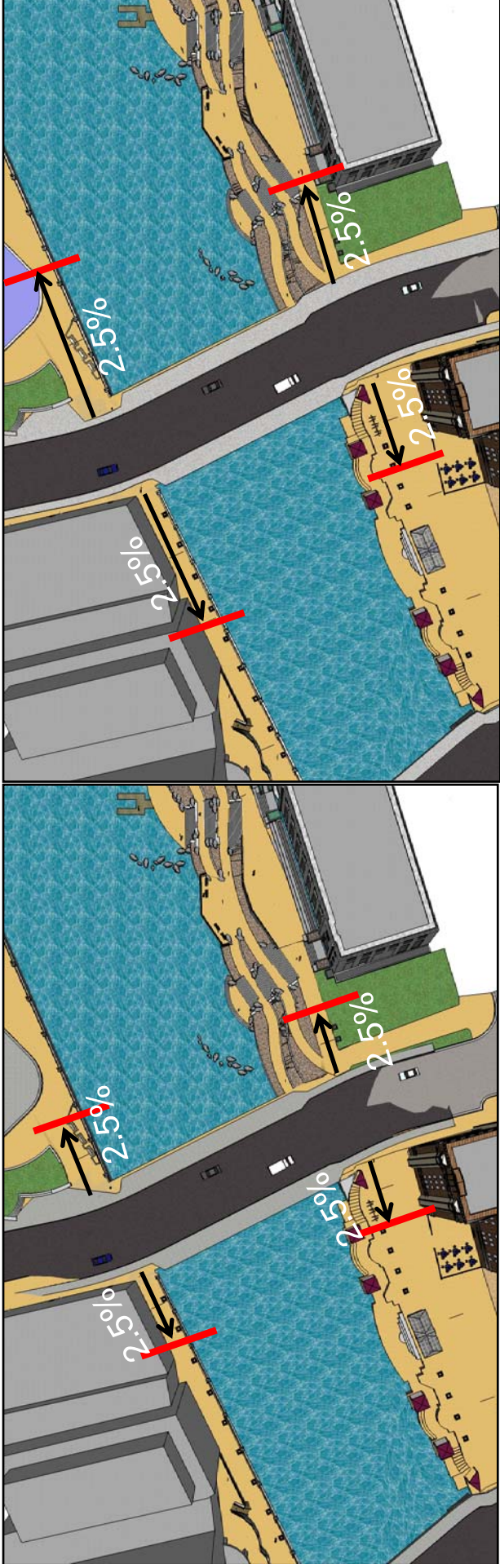
*74 Year Flood Protection  
Virginia Street Looking East*

*North Side  
Of River*



*100 Year Flood Protection  
Virginia Street Looking East*

*North Side  
Of River*



74-Year Flood Protection

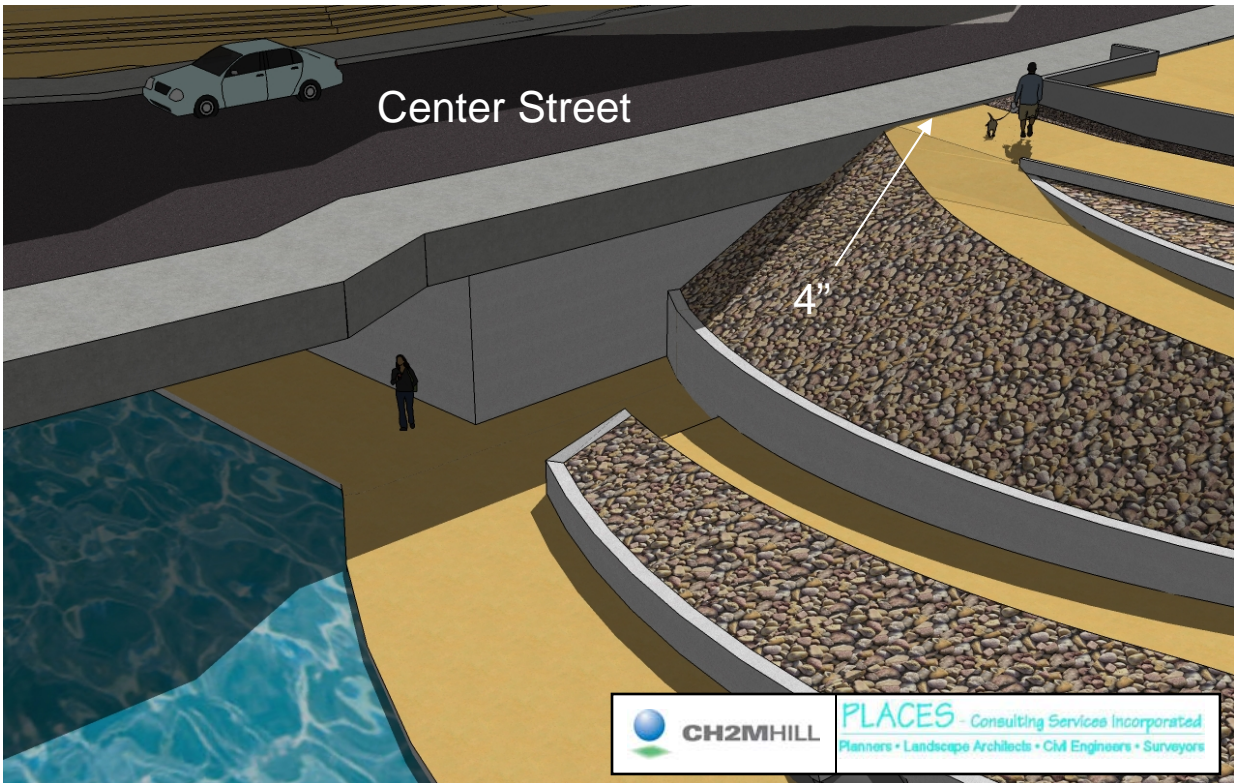
Virginia Street – Plan View

100-Year Flood Protection

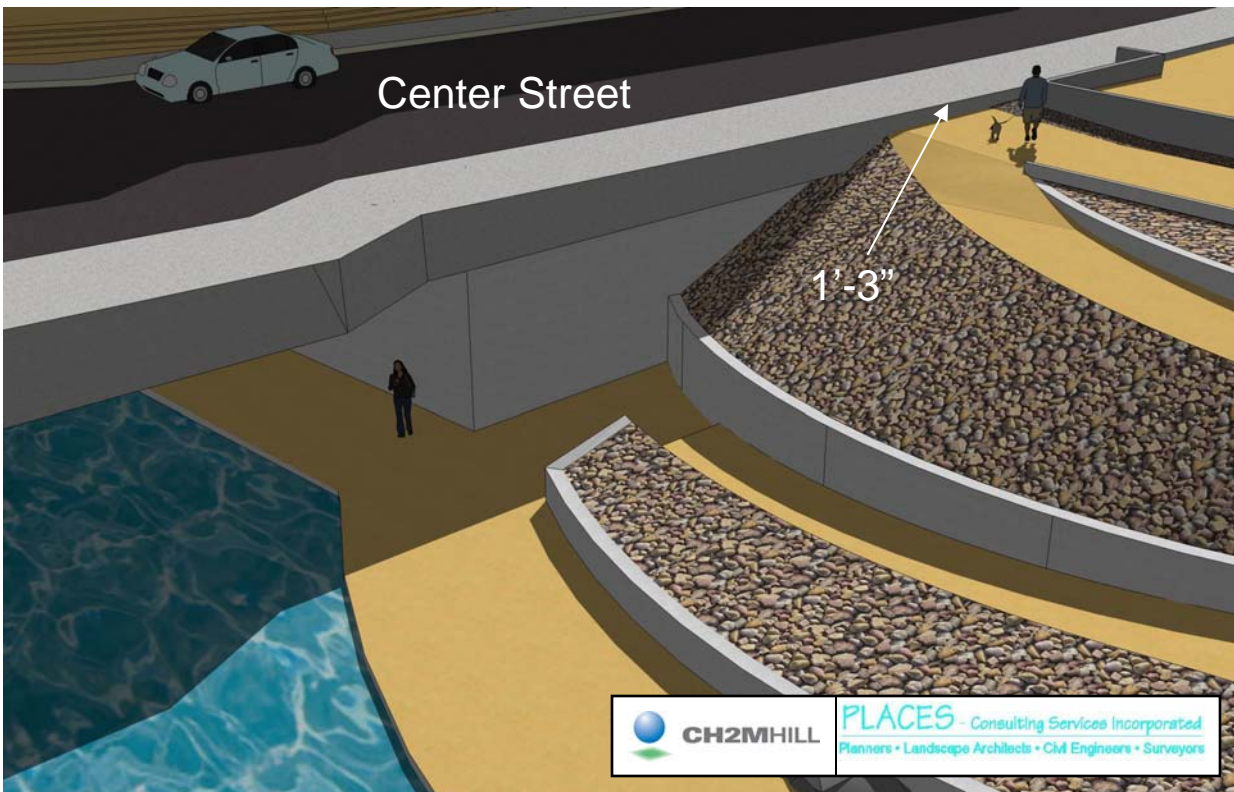
Virginia Street – Plan View

— Length of sloped sidewalk at 2.5% grade

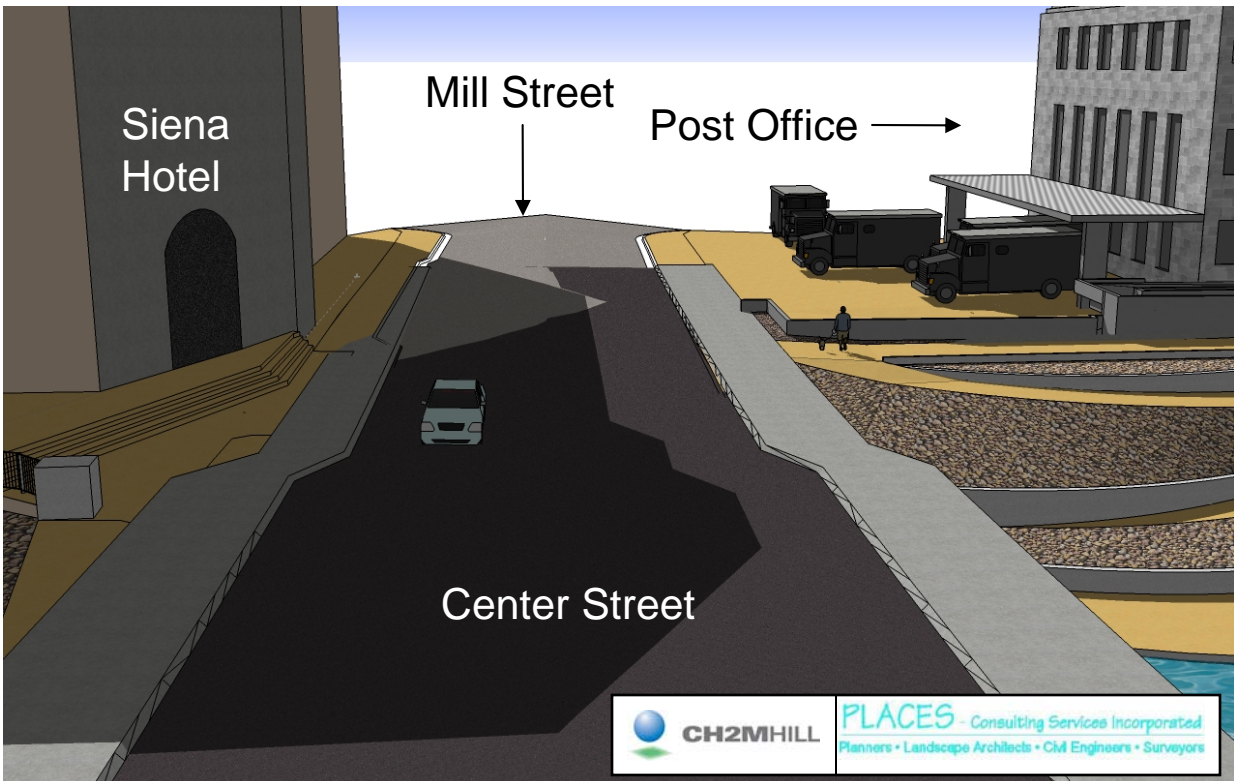




*74 Year Flood Protection  
Center Street Looking East*



*100 Year Flood Protection  
Center Street Looking East*

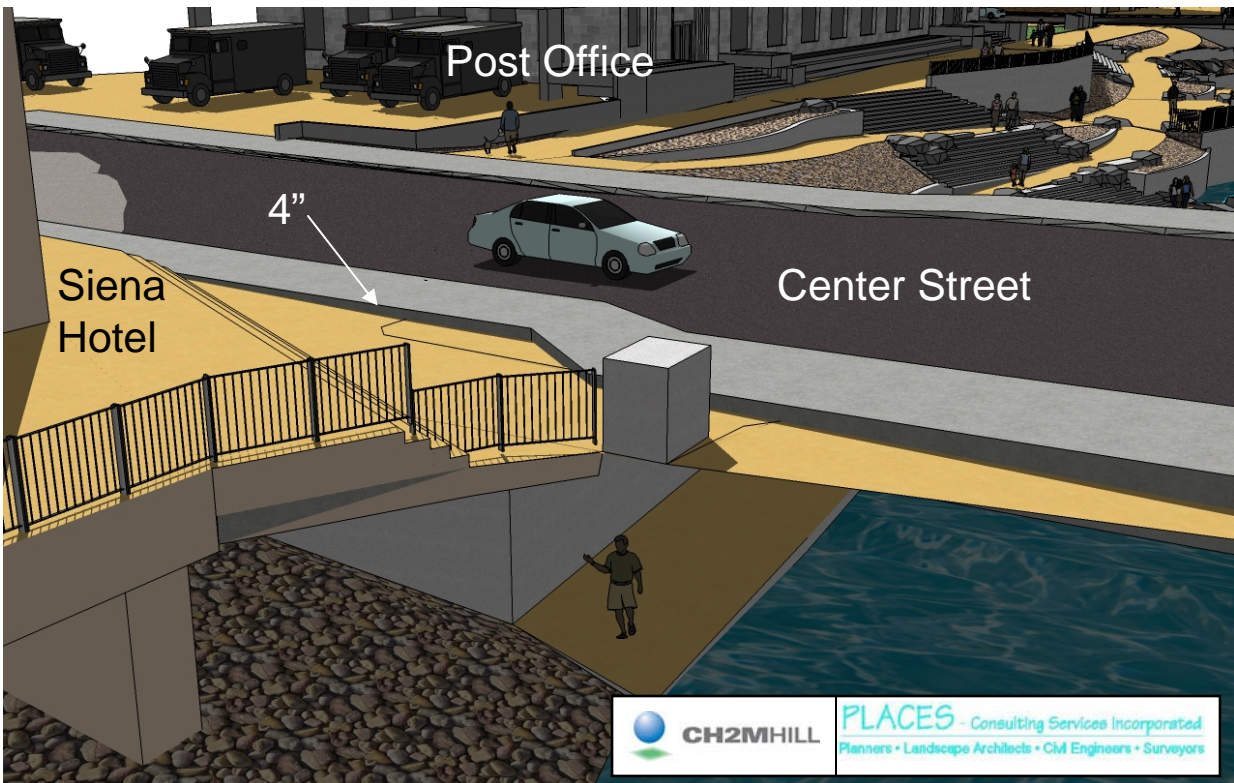


*74 Year Flood Protection  
Center Street Looking South*



*100 Year Flood Protection  
Center Street Looking South*



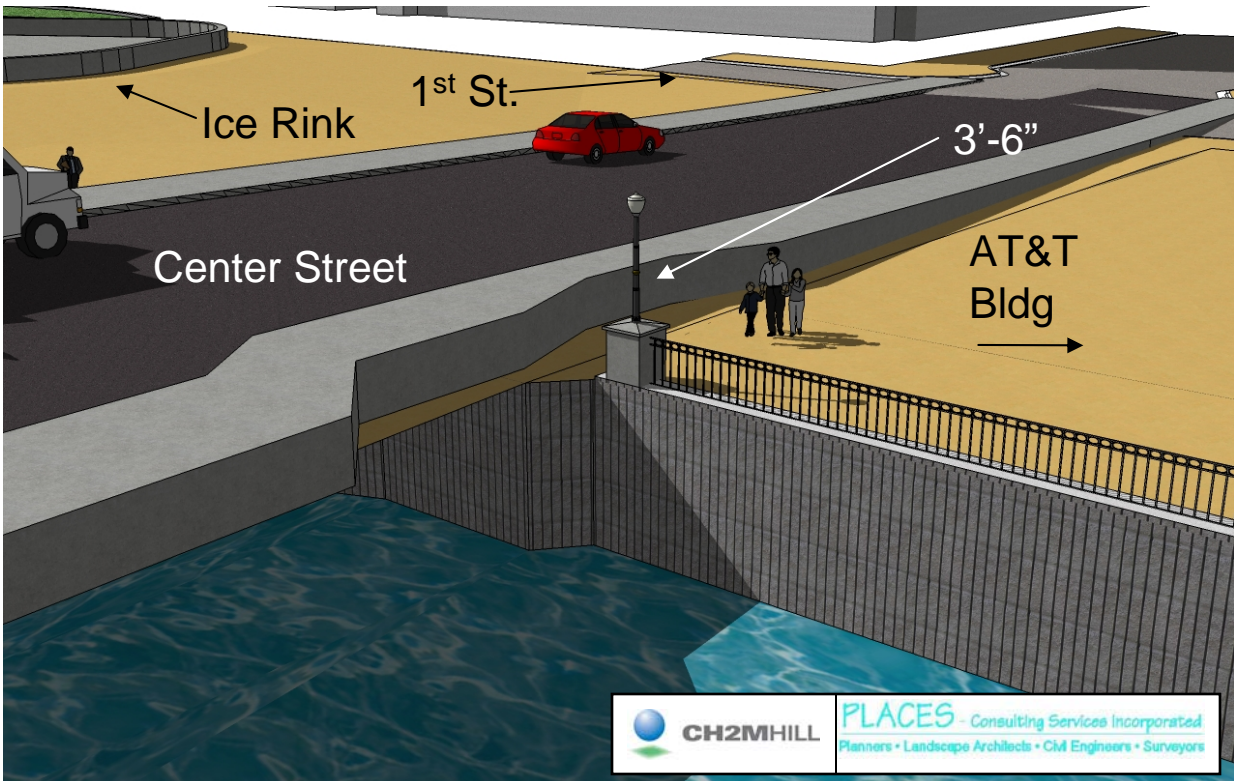


*74 Year Flood Protection  
Center Street Looking West*



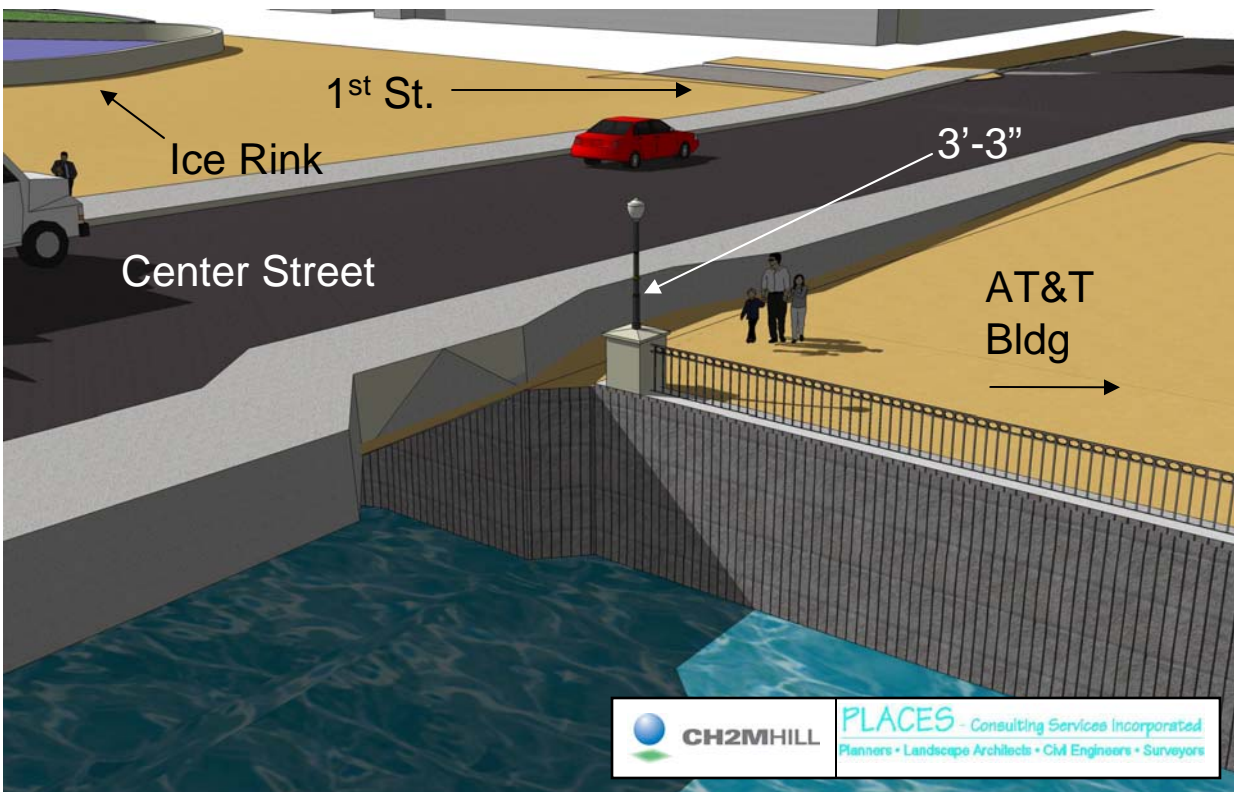
*100 Year Flood Protection  
Center Street Looking West*





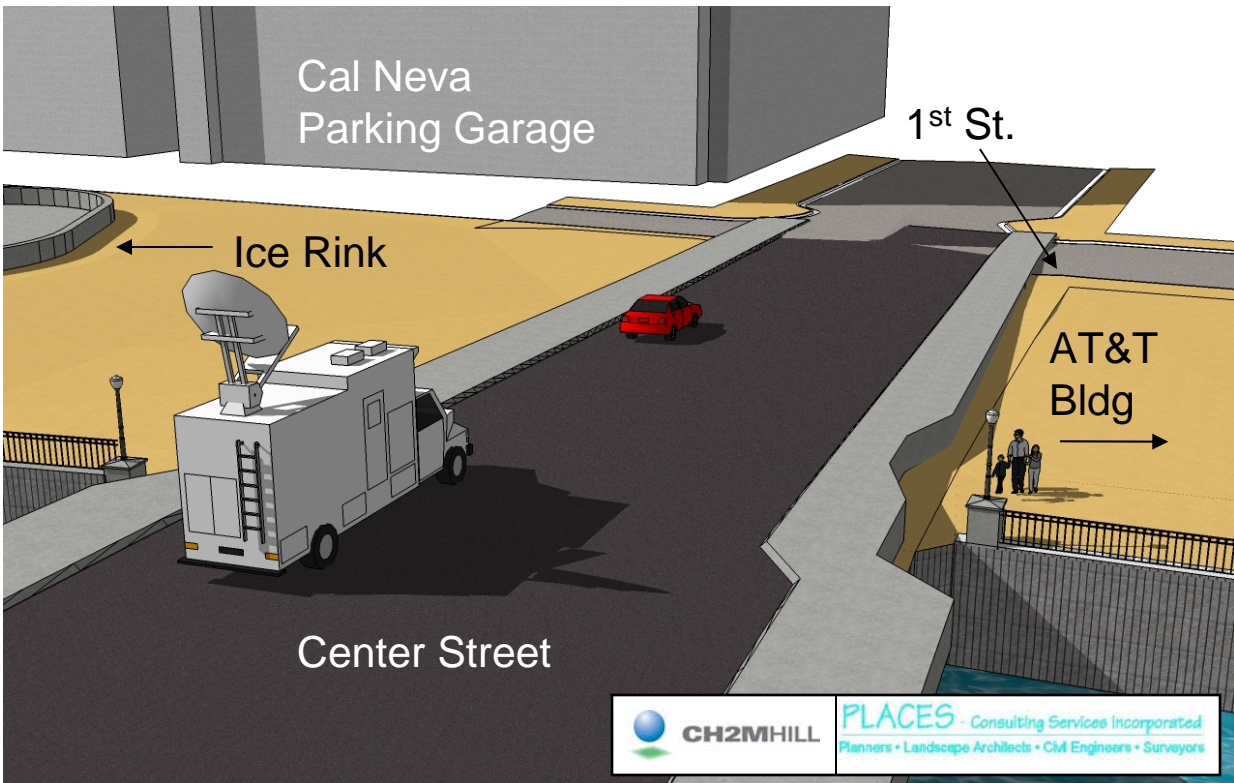
74 Year Flood Protection  
Center Street Looking West

North Side  
of River



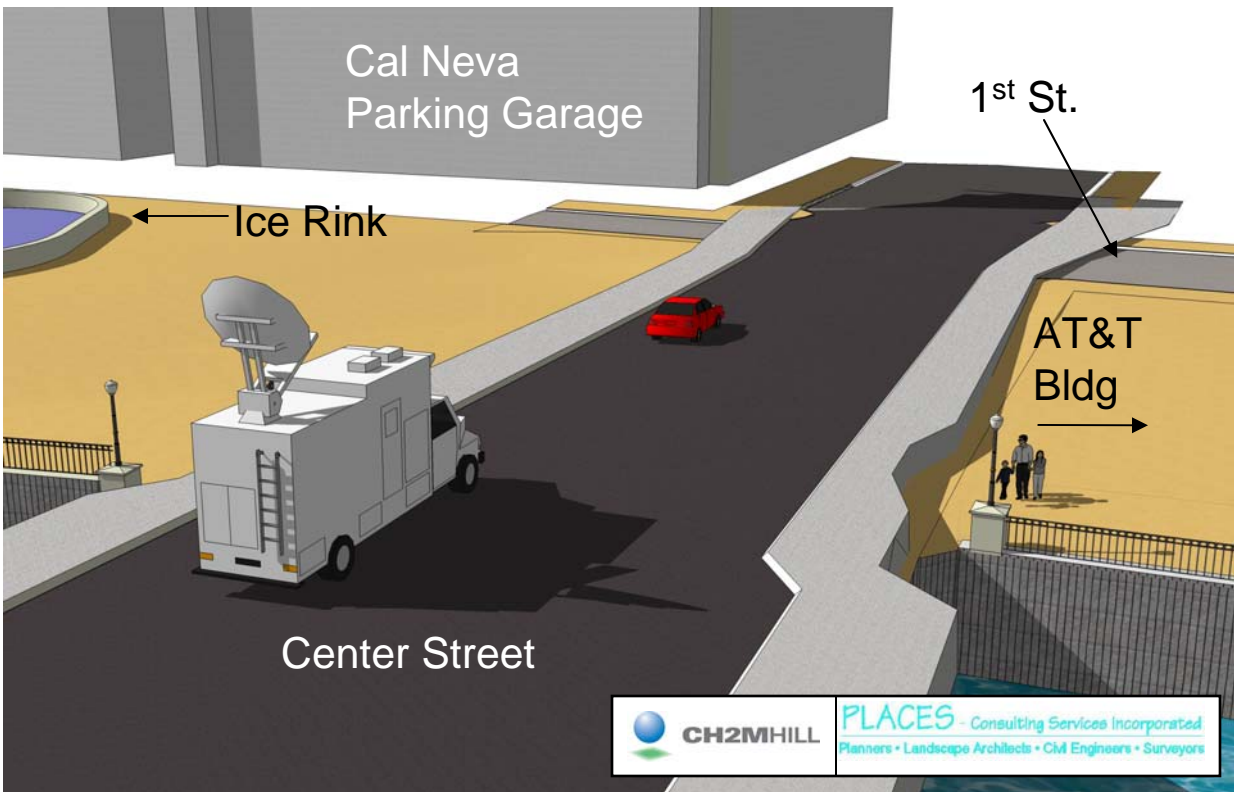
100 Year Flood Protection  
Center Street Looking West

North Side  
of River



*74 Year Flood Protection  
Center Street Looking North*

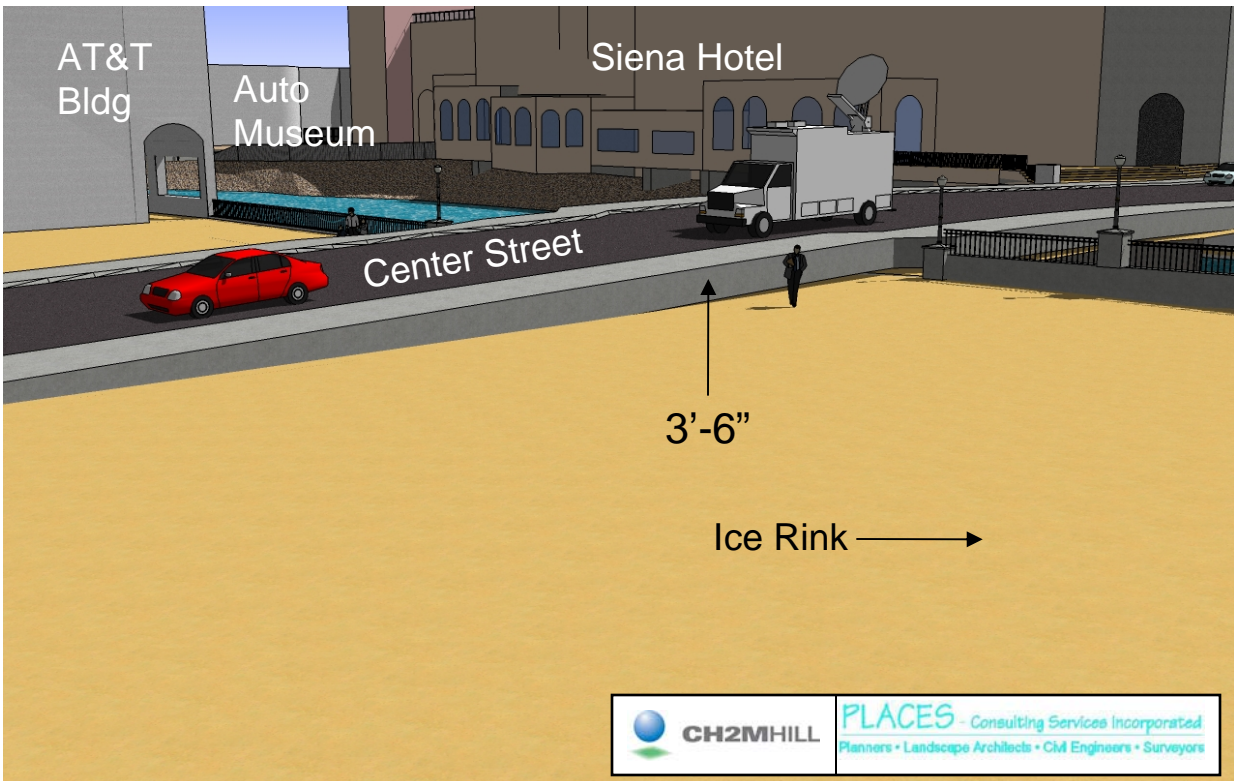
*North Side  
of River*



*100 Year Flood Protection  
Center Street Looking North*

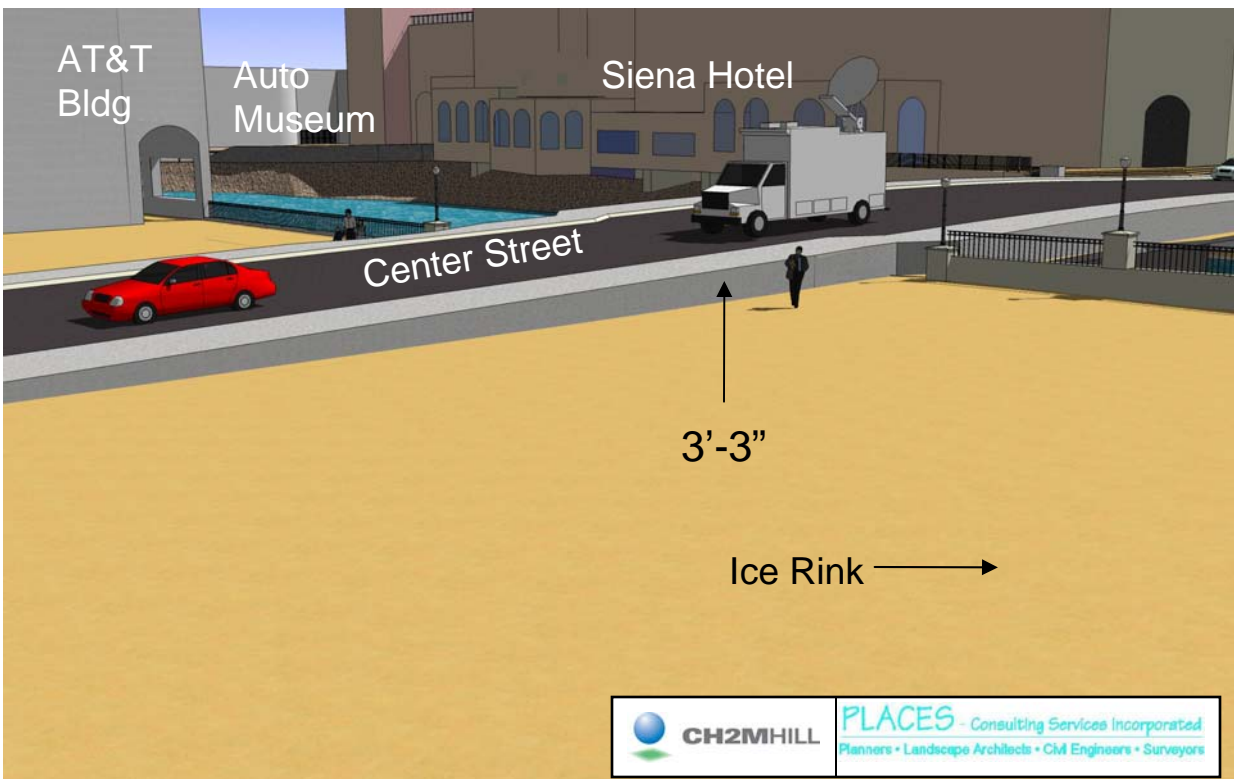
*North Side  
of River*





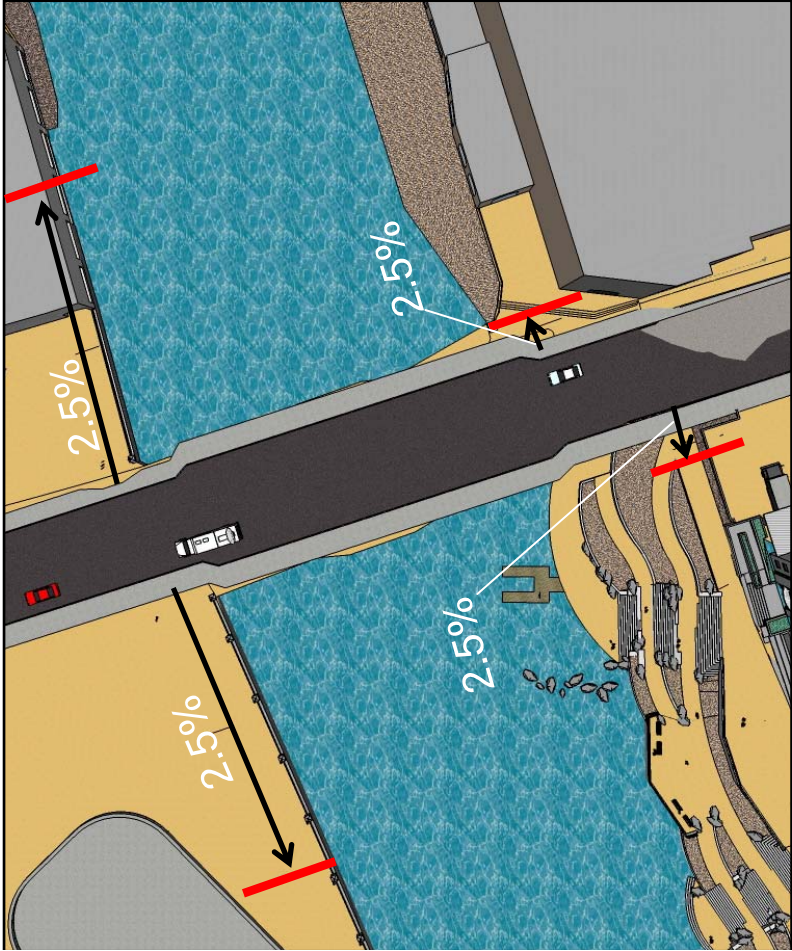
74 Year Flood Protection  
Center Street Looking East

North Side  
of River



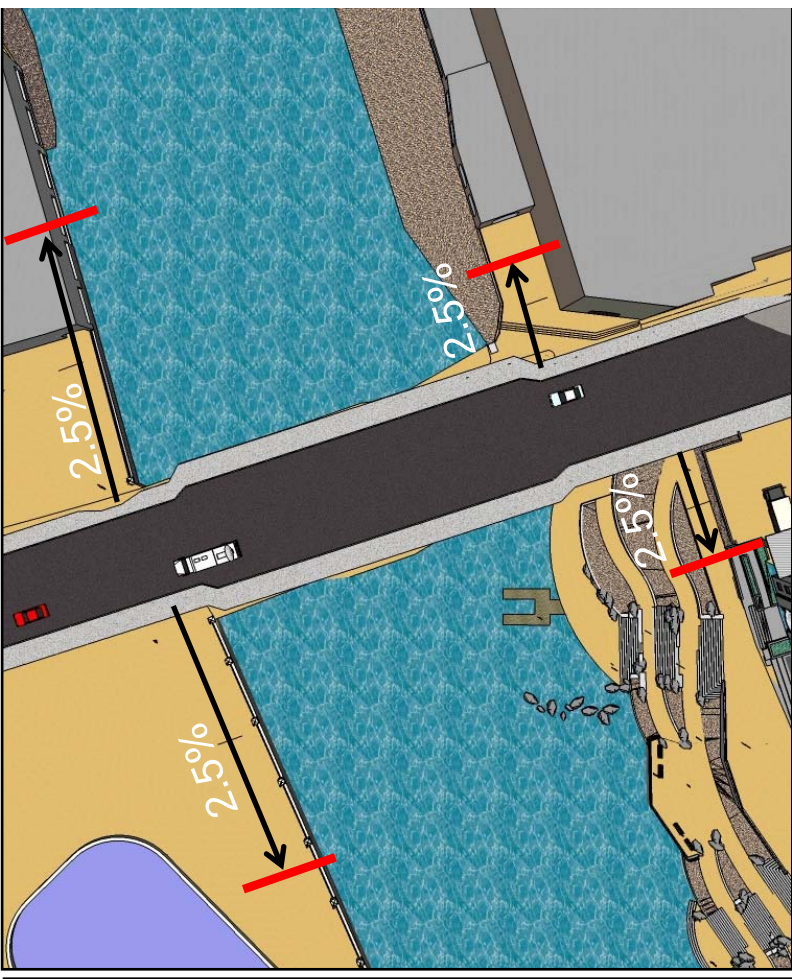
100 Year Flood Protection  
Center Street Looking East

North Side  
of River



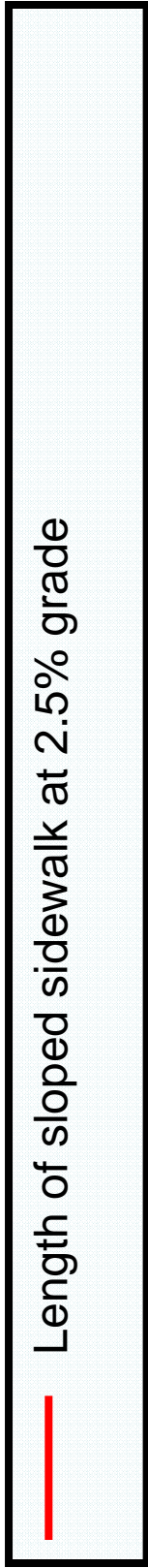
74-Year Flood Protection

Center Street – Plan View

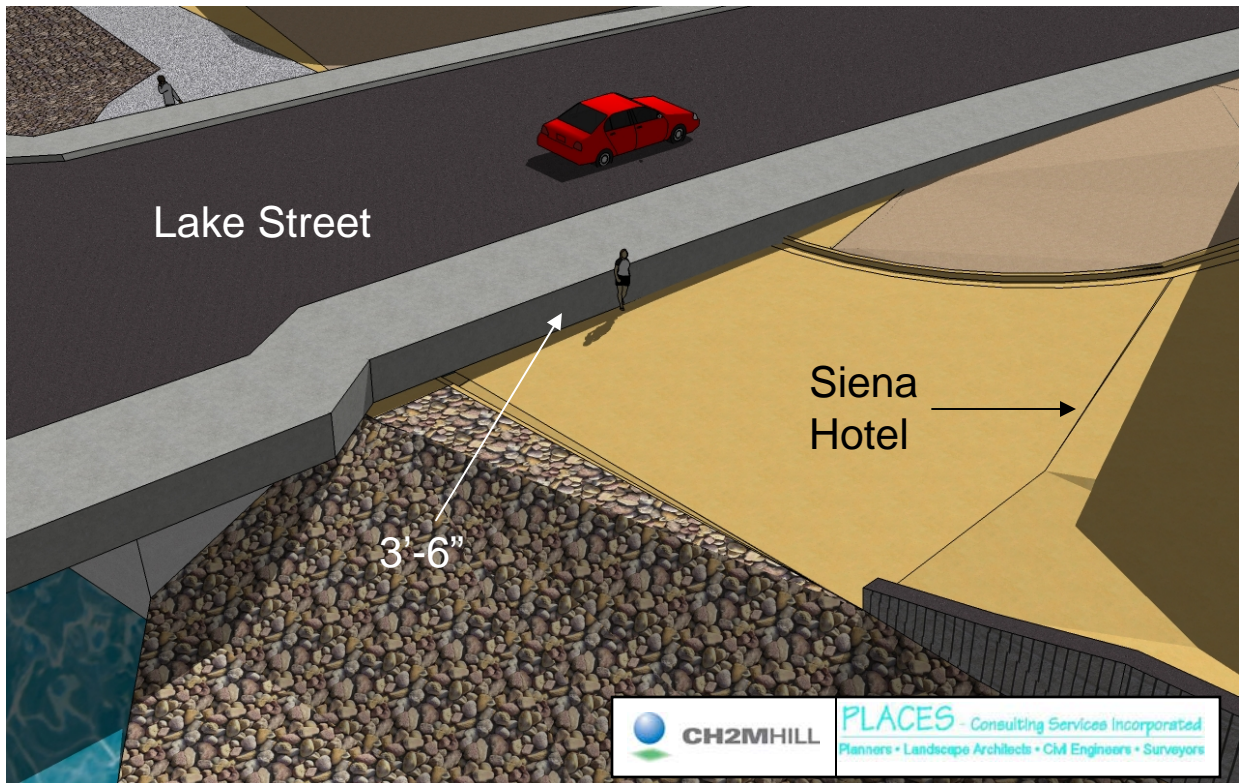


100-Year Flood Protection

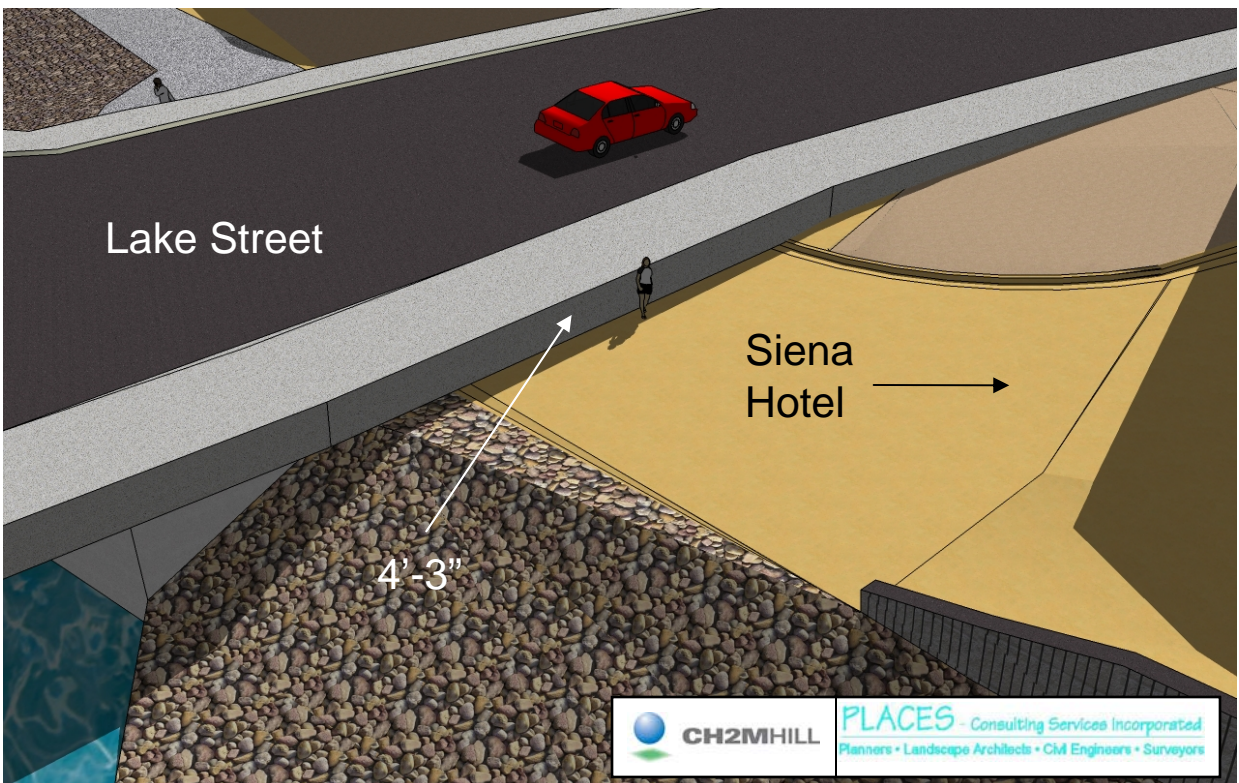
Center Street – Plan View







*74 Year Flood Protection  
Lake Street Looking East*



*100 Year Flood Protection  
Lake Street Looking East*



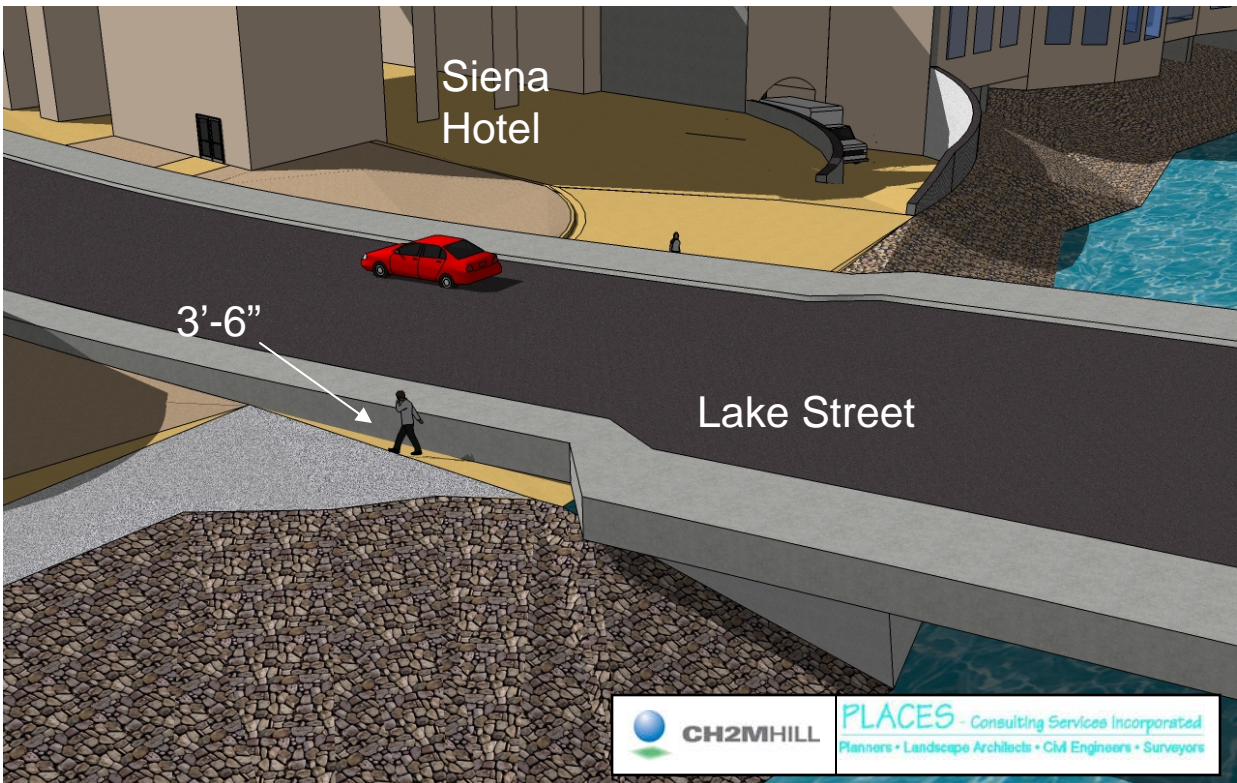


*74 Year Flood Protection  
Lake Street Looking South*

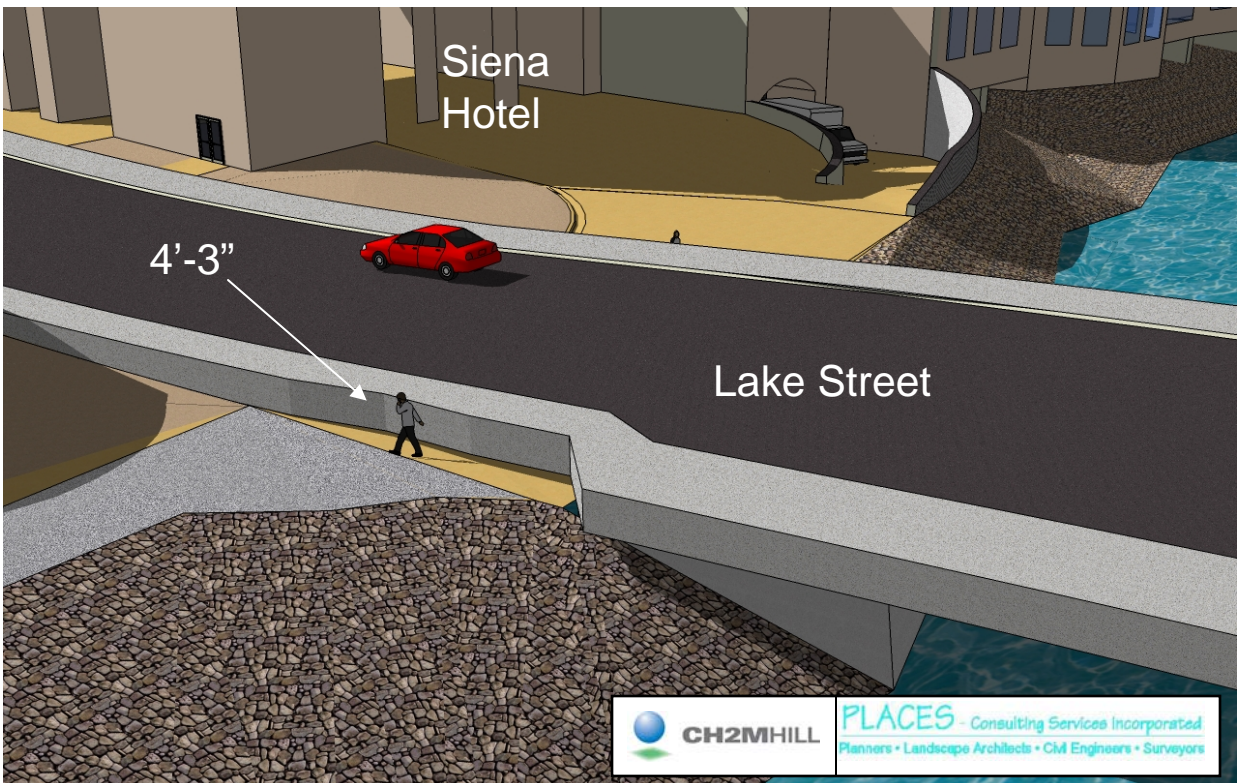


*100 Year Flood Protection  
Lake Street Looking South*



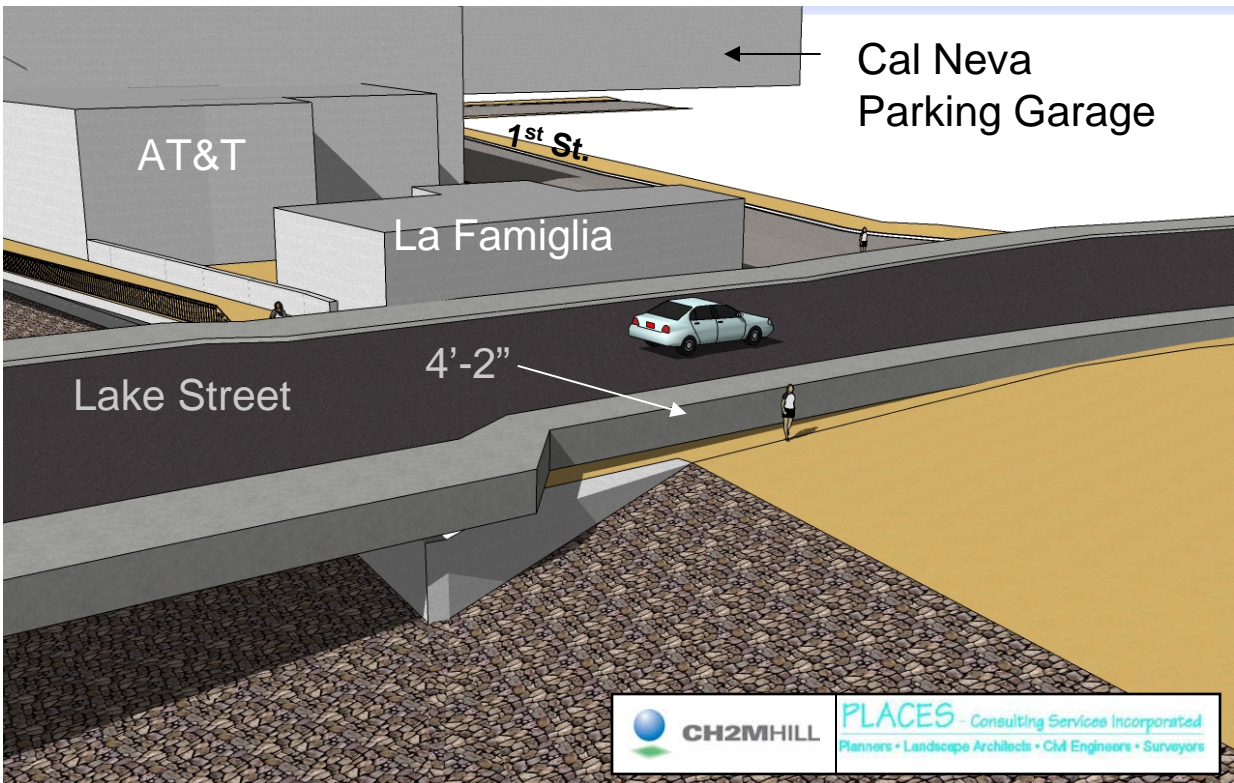


*74 Year Flood Protection  
Lake Street Looking West*



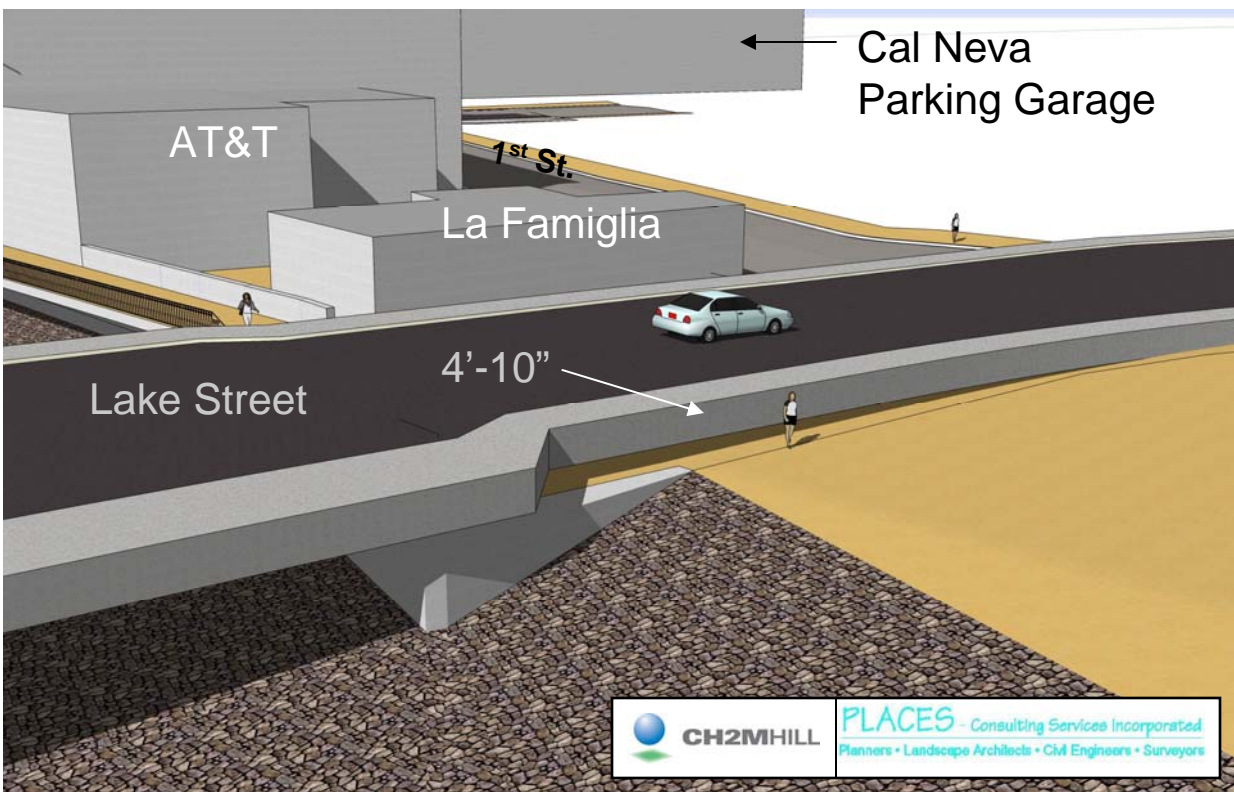
*100 Year Flood Protection  
Lake Street Looking West*





74 Year Flood Protection  
Lake Street Looking West

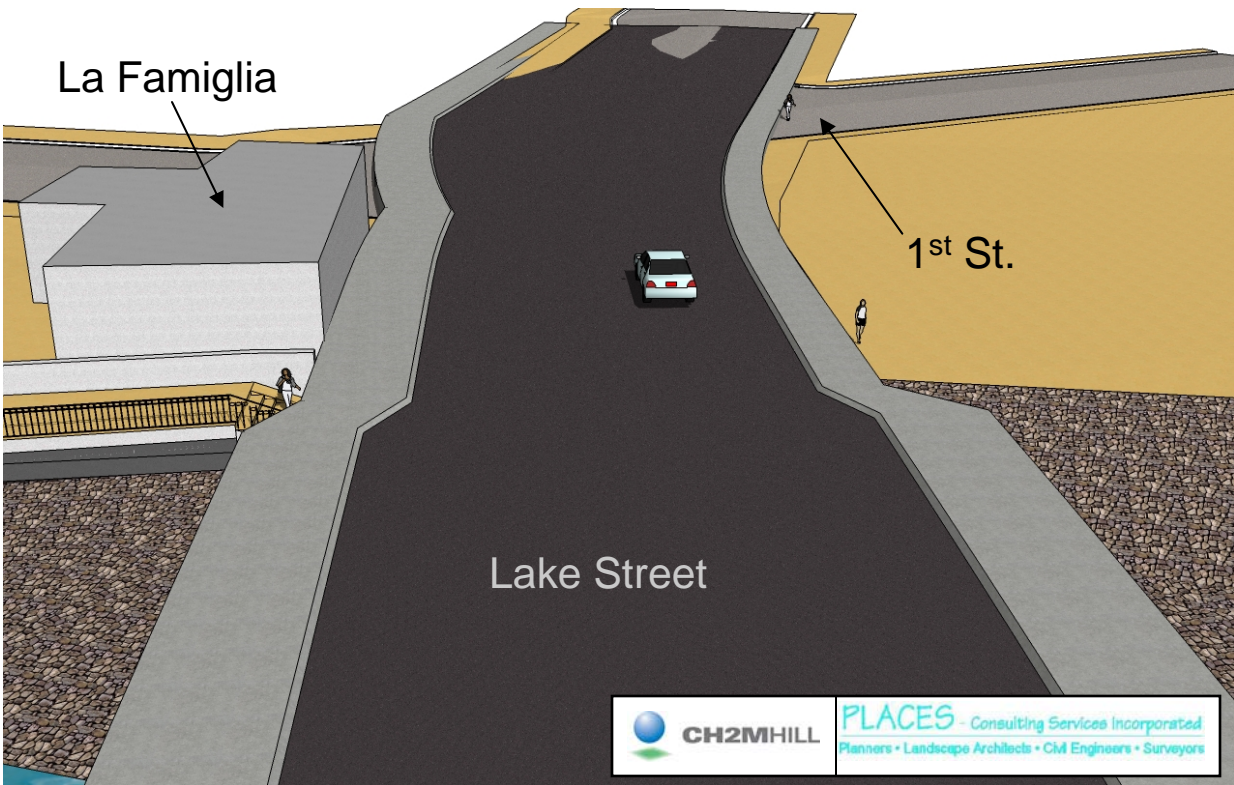
North Side  
of River



100 Year Flood Protection  
Lake Street Looking West

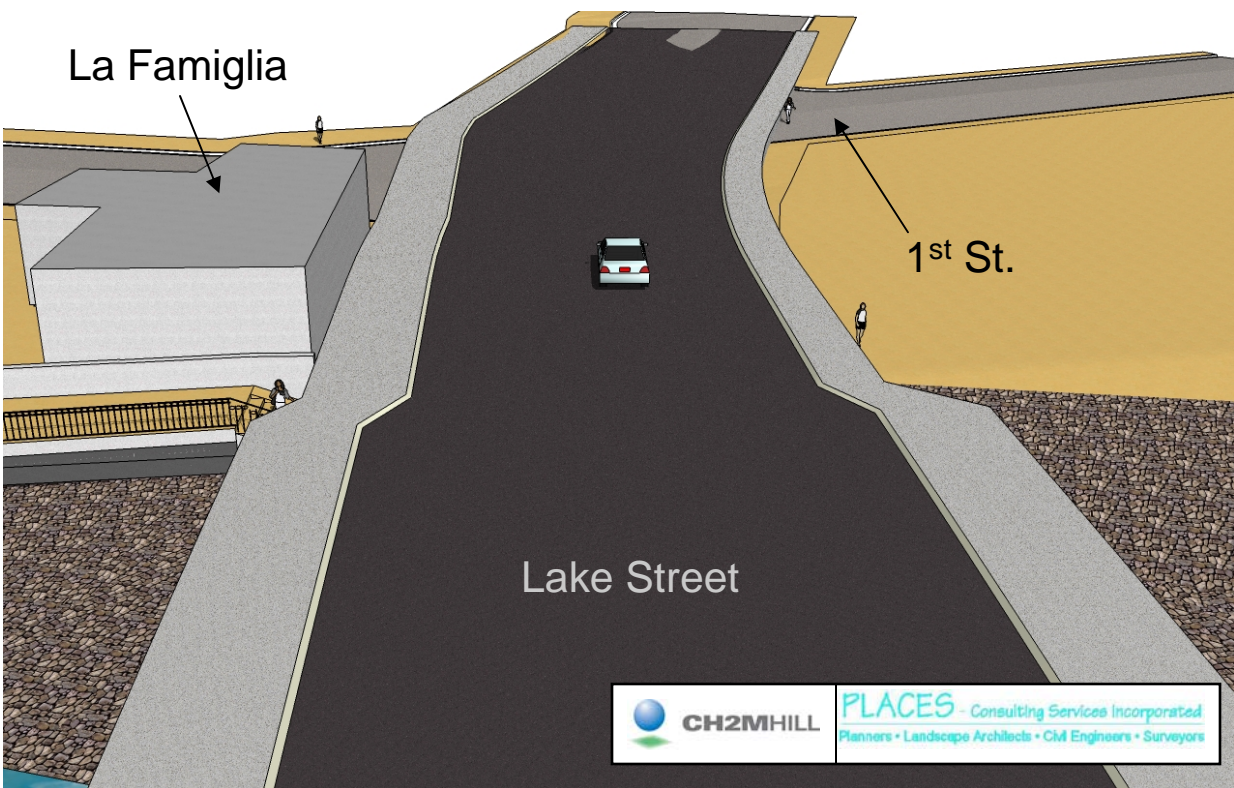
North Side  
of River





*74 Year Flood Protection  
Lake Street Looking North*

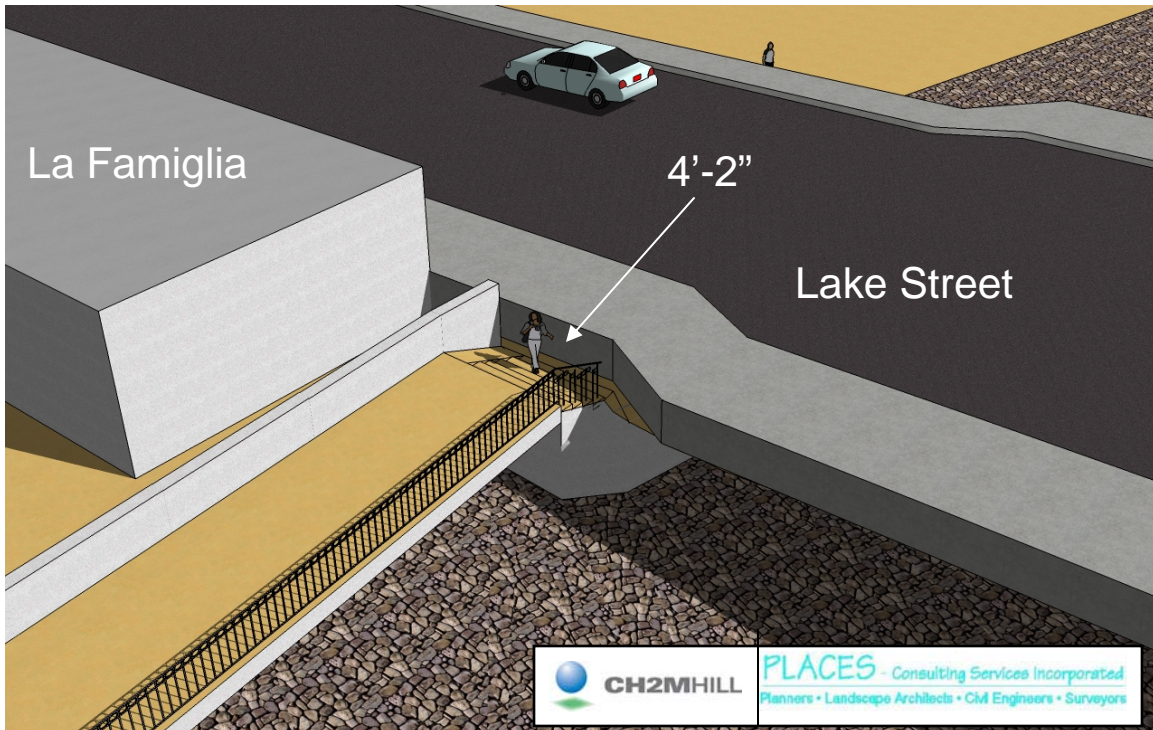
*North Side  
of River*



*100 Year Flood Protection  
Lake Street Looking North*

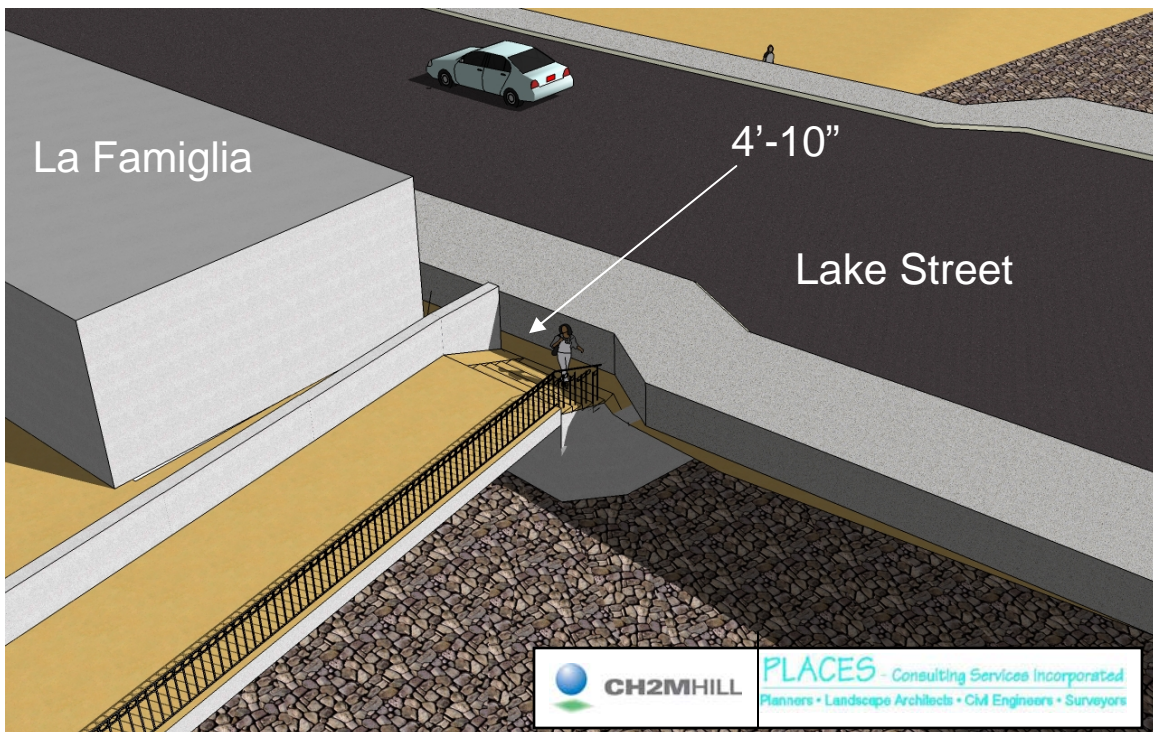
*North Side  
Of River*





*74 Year Flood Protection  
Lake Street Looking East*

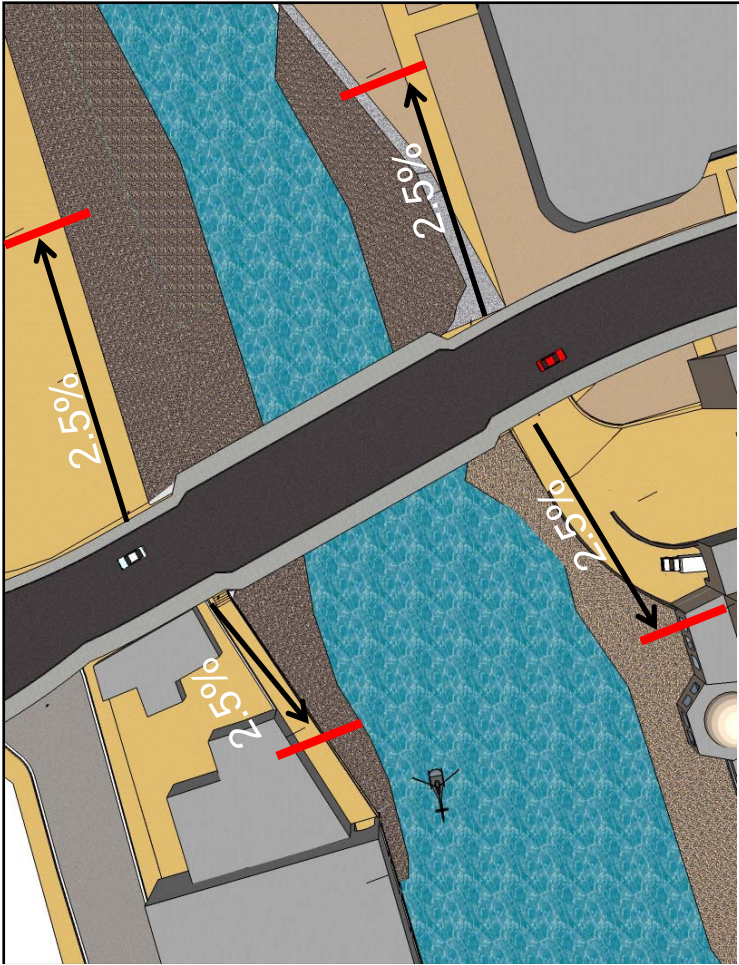
*North Side  
of River*



*100 Year Flood Protection  
Lake Street Looking East*

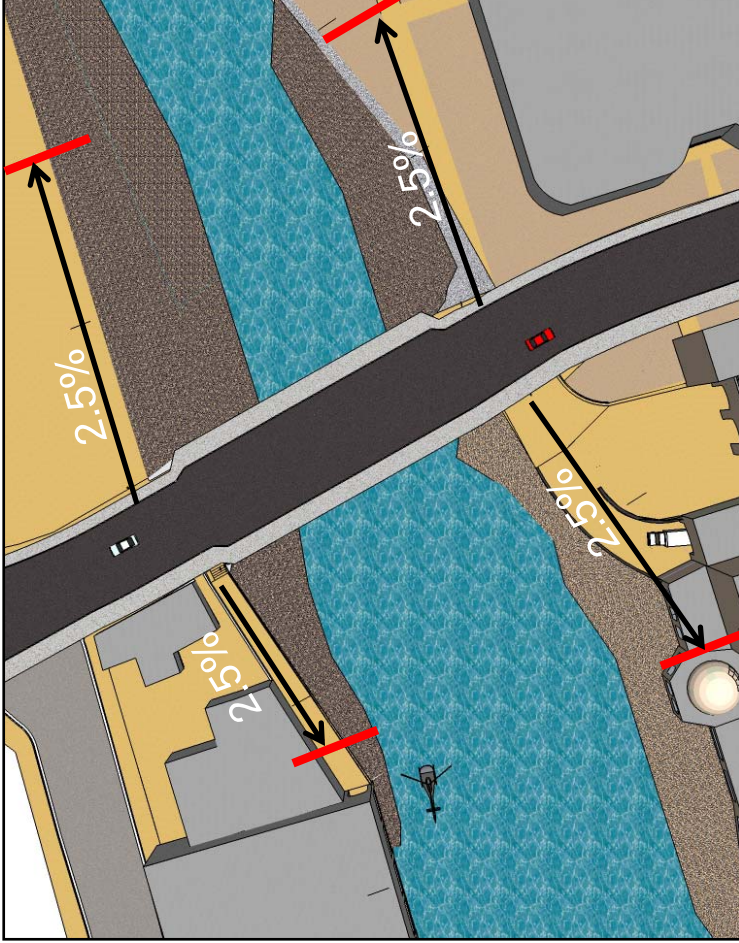
*North Side  
of River*





74-Year Flood Protection

Lake Street – Plan View



100-Year Flood Protection

Lake Street – Plan View

— Length of sloped sidewalk at 2.5% grade