



SH 82

GRAND AVENUE BRIDGE

Design Elements Issue Task Force

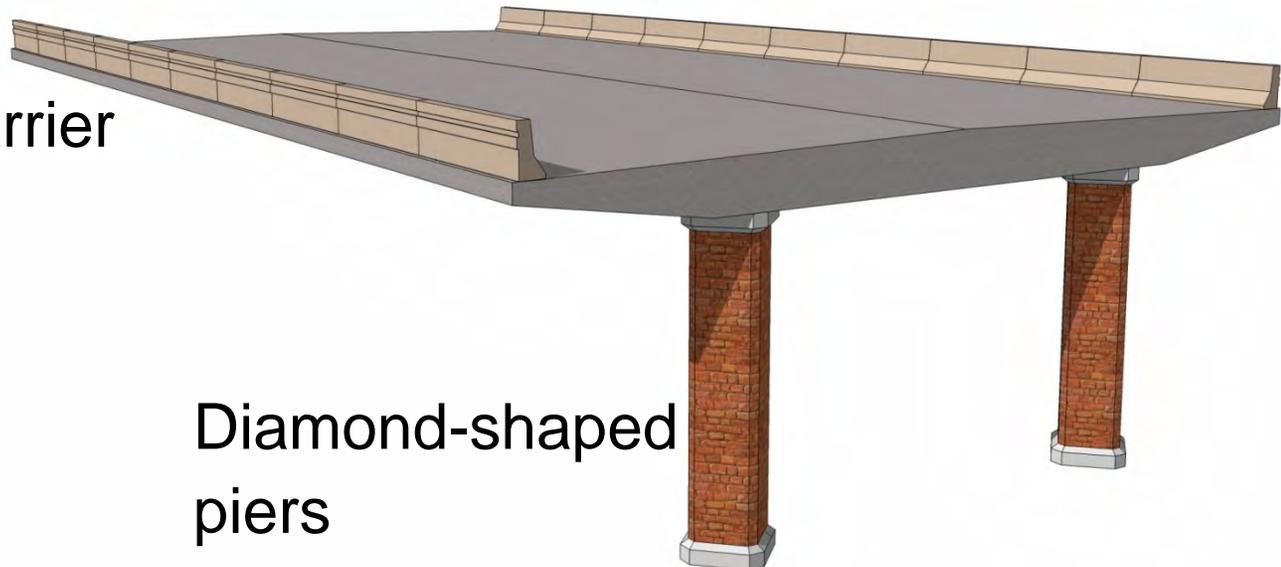
November 19, 2014

Meeting Objectives

- Describe how study team has used ITF input to make decisions on other design elements
- Obtain input on outstanding design elements related to aesthetics and urban design to inform final design

- No transparent barrier downtown or over the river
- No lighting in coffer
- Pier types and shapes all the same (diamond)

Solid barrier



Diamond-shaped piers



- Pedestrian bridge overlooks, rail monumentation and roof structures
- Elevator tower/stair layout
- Real stone/brick instead of stone form liners for walls and piers

■ Hardscape under downtown bridge

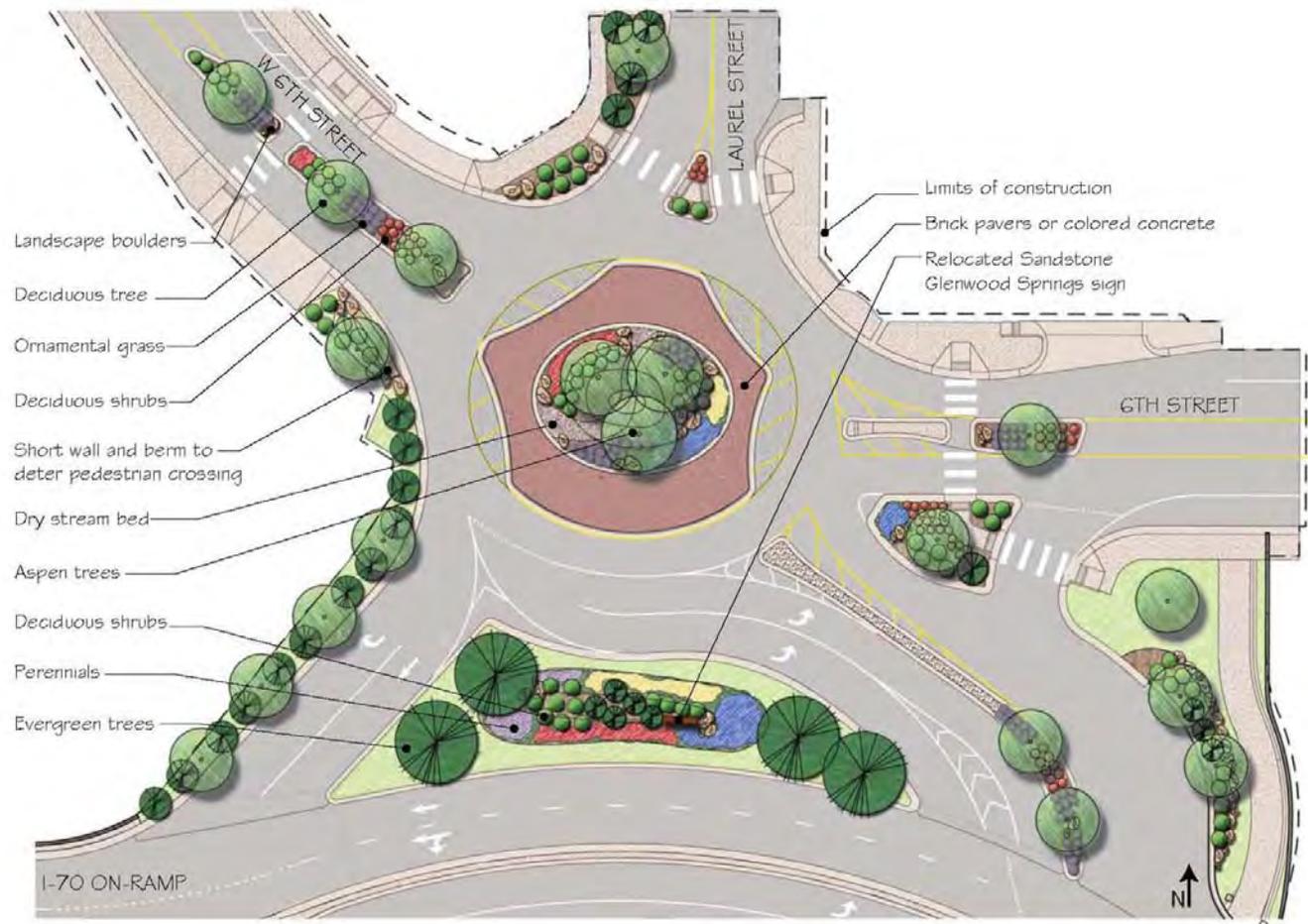
Donor bricks removed and reset in similar location.



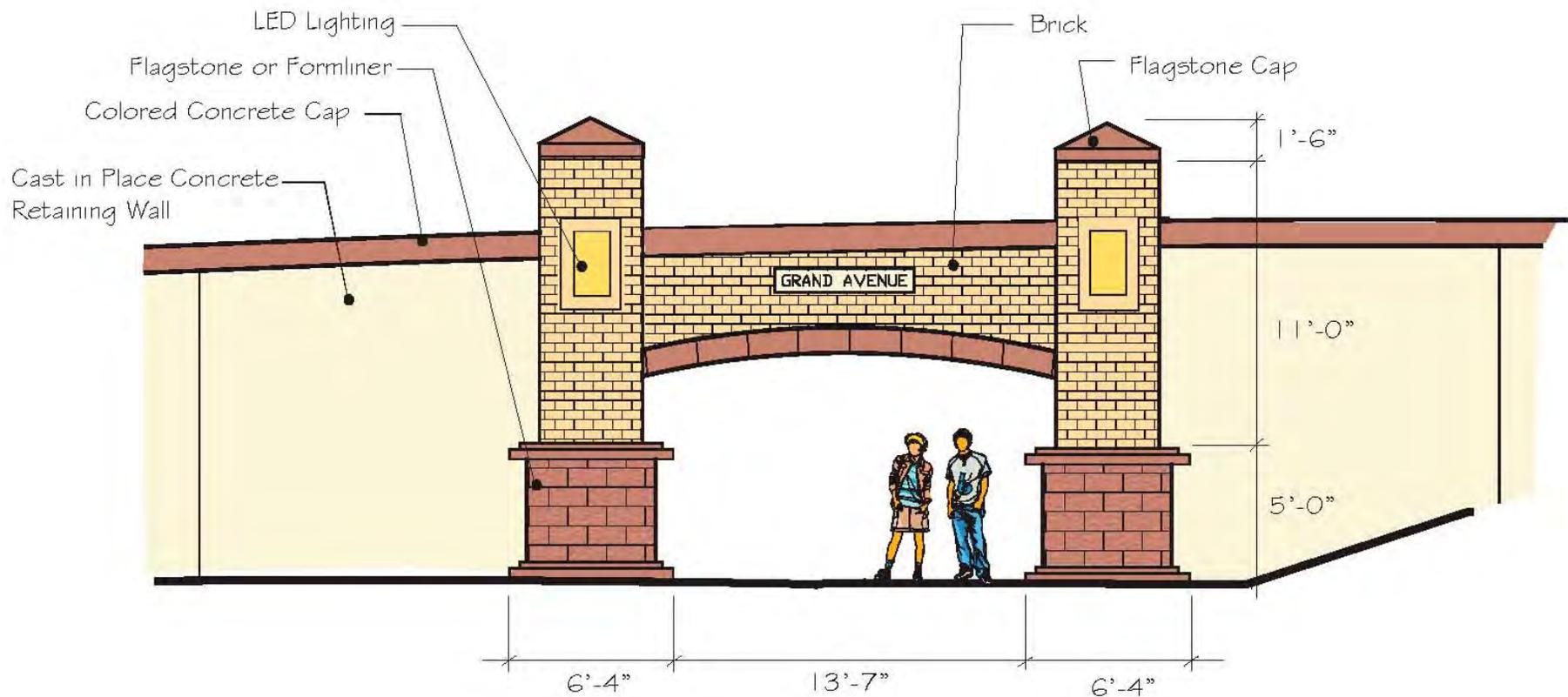
■ Hardscape under downtown bridge



- Landscaping by City; irrigation sleeves by project; past input from ITF



- Pedestrian/bicycle underpass - Historic Influence
 - Monuments designed to reflect the architecture of Glenwood Springs through color and materials
 - Monuments have high end finishes





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November 19, 2014

Proposed Materials



Colorado Rose/
Natural Cleft



Colorado Rose/
Split faced



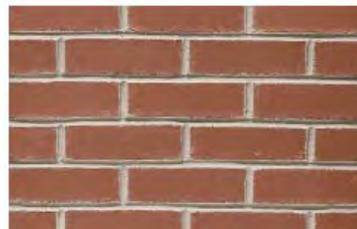
Forest Blend Chopped



Basilica



Clay Paver Iron Spot



Red Smooth Select



Clay Tile Roof



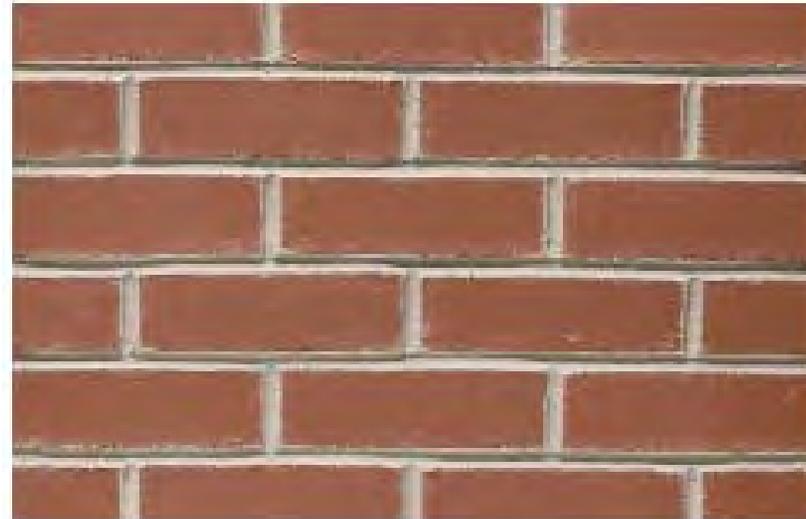
Weathering Steel

Proposed Materials



Characteristics:
Sandstone Natural Cleft or Split Face
Color- Colorado Rose
Bond Pattern
Large scale
Stone size varies- approx size 18" x 42"

Elements:
Piers



Characteristics:
Brick
Color- TBD
Bond Pattern

Elements:
Elevator Tower

Proposed Materials



Characteristics:
Clay Tile Roof

Elements:
Elevator Tower
Pedestrian Bridge Roof Structure



Characteristics:
Weathering Steel

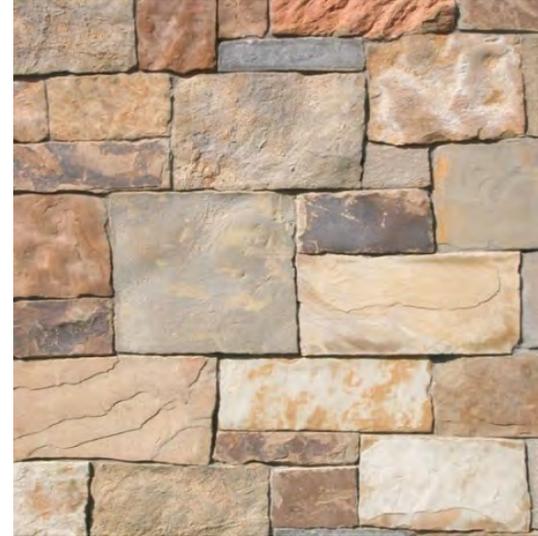
Elements:
Pedestrian Bridge Girder
Grand Ave Bridge Girder

Proposed Materials



Characteristics:
Sandstone Split Faced
Color- Colorado Rose
Ashlar Pattern
Small scale
Stone size varies- approx size 3" x 6"

Elements:
Walls
Seat Walls



Characteristics:
Sandstone Split Faced
Color- Forest Blend
Ashlar Pattern
Small scale
Stone size varies- approx size 3" x 6"

Elements:
Walls

Proposed Materials



Characteristics:

Clay Paver

Color- Iron Spot

Elements:

7th Street Pavers

Hardscape Medians



Characteristics:

Brick

Color- Basilica

Bond Pattern

Elements:

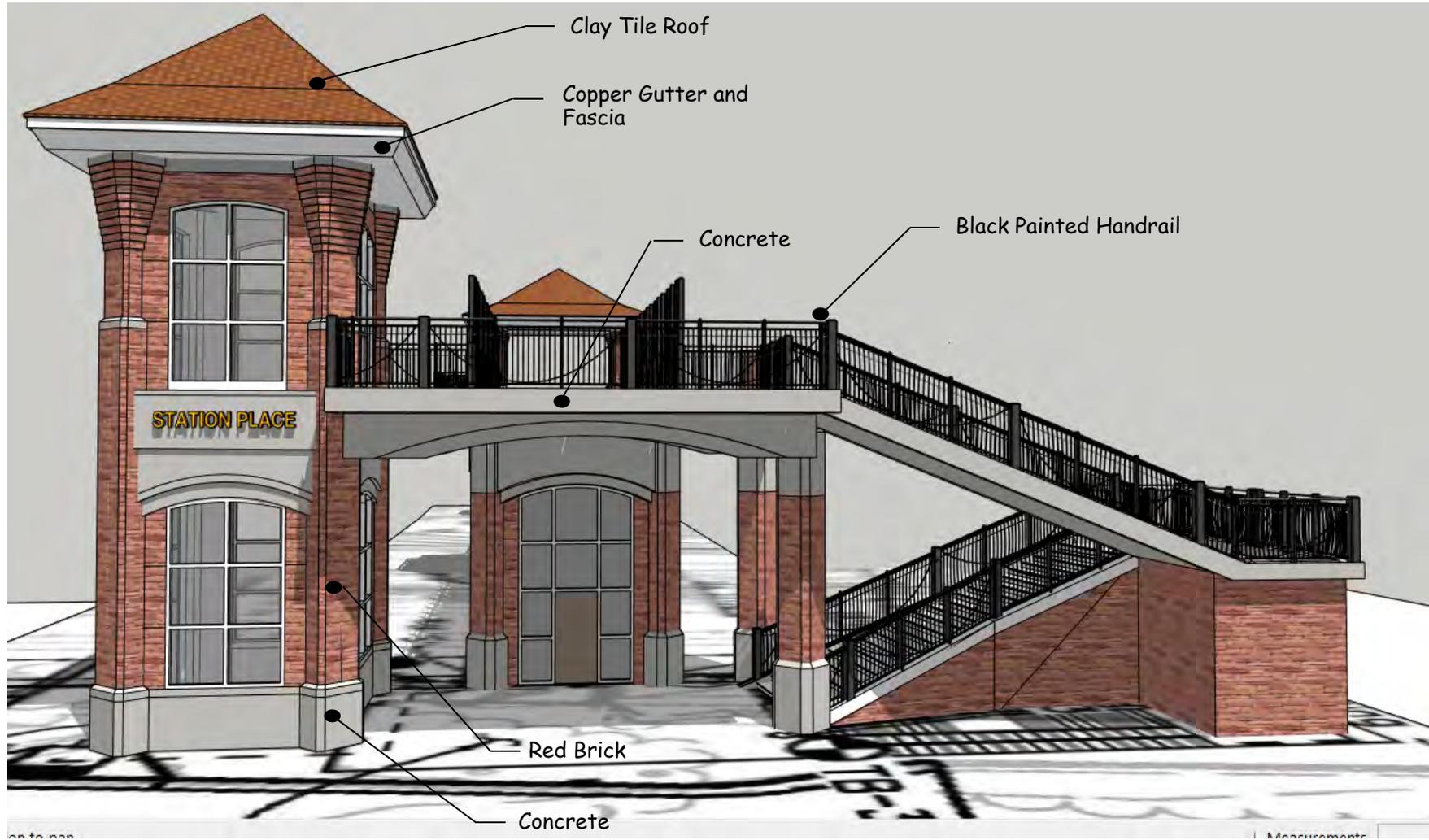
Monument Accent

Underpass Entry

Wall Accent

Tower Materials

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GRAND AVENUE BRIDGE



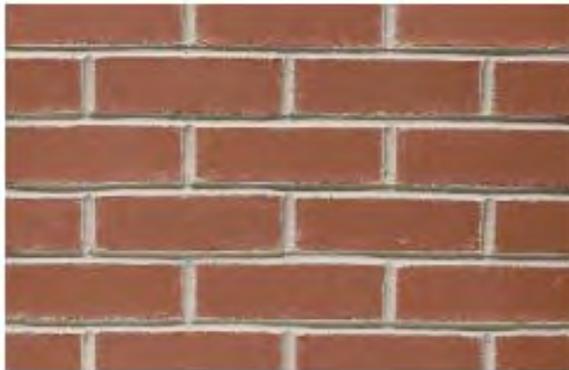
Tower Materials



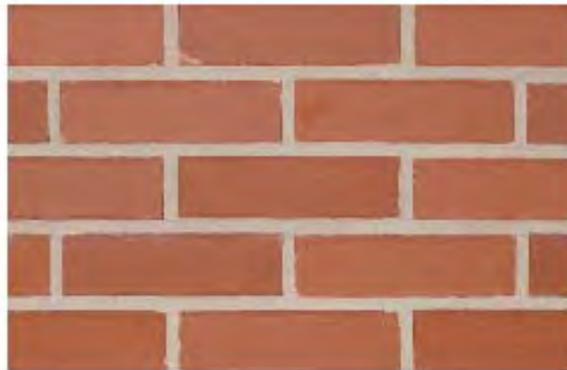
Clay Tile



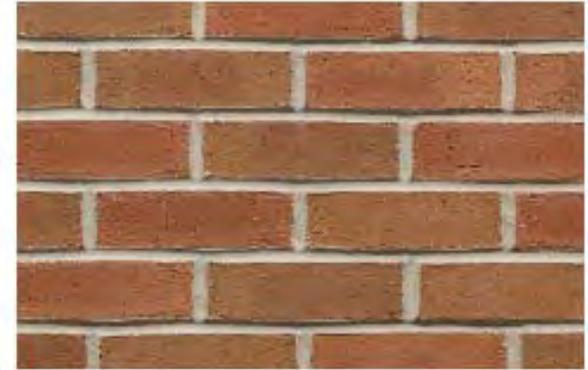
Copper Fascia and Gutter



Red Smooth
Select



Red Range Smooth



Campus Blend

Tower Materials



Smooth Finish



Textured Formliner



Textured Formliner



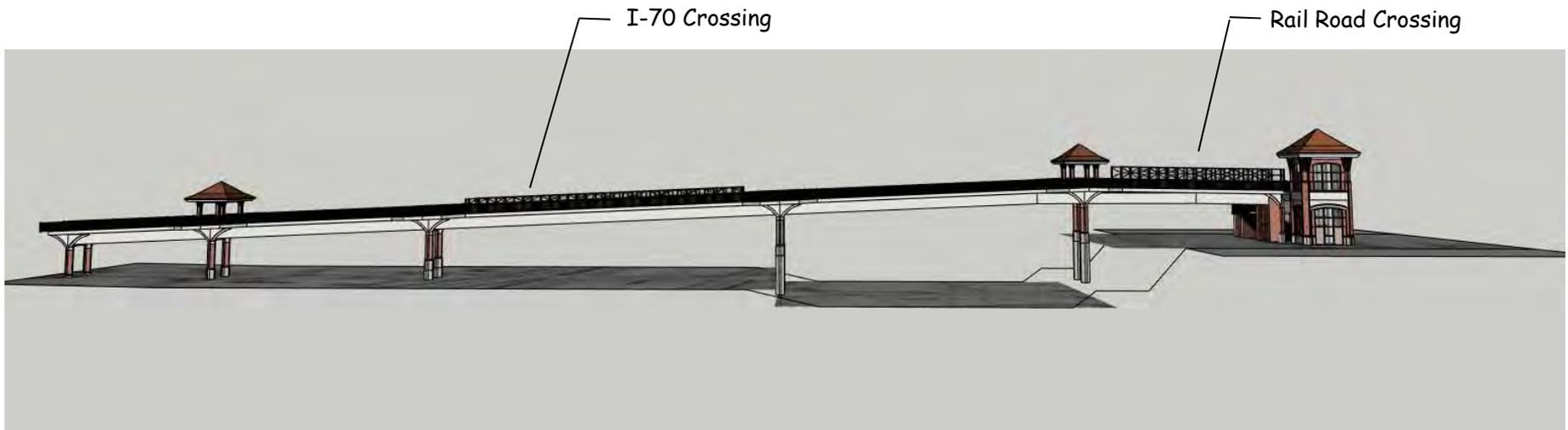
Formliner (Match Barriers)

- Concrete Finish Options

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Handrails



(lighting not shown)

■ Profile



- Tower and Stair Area

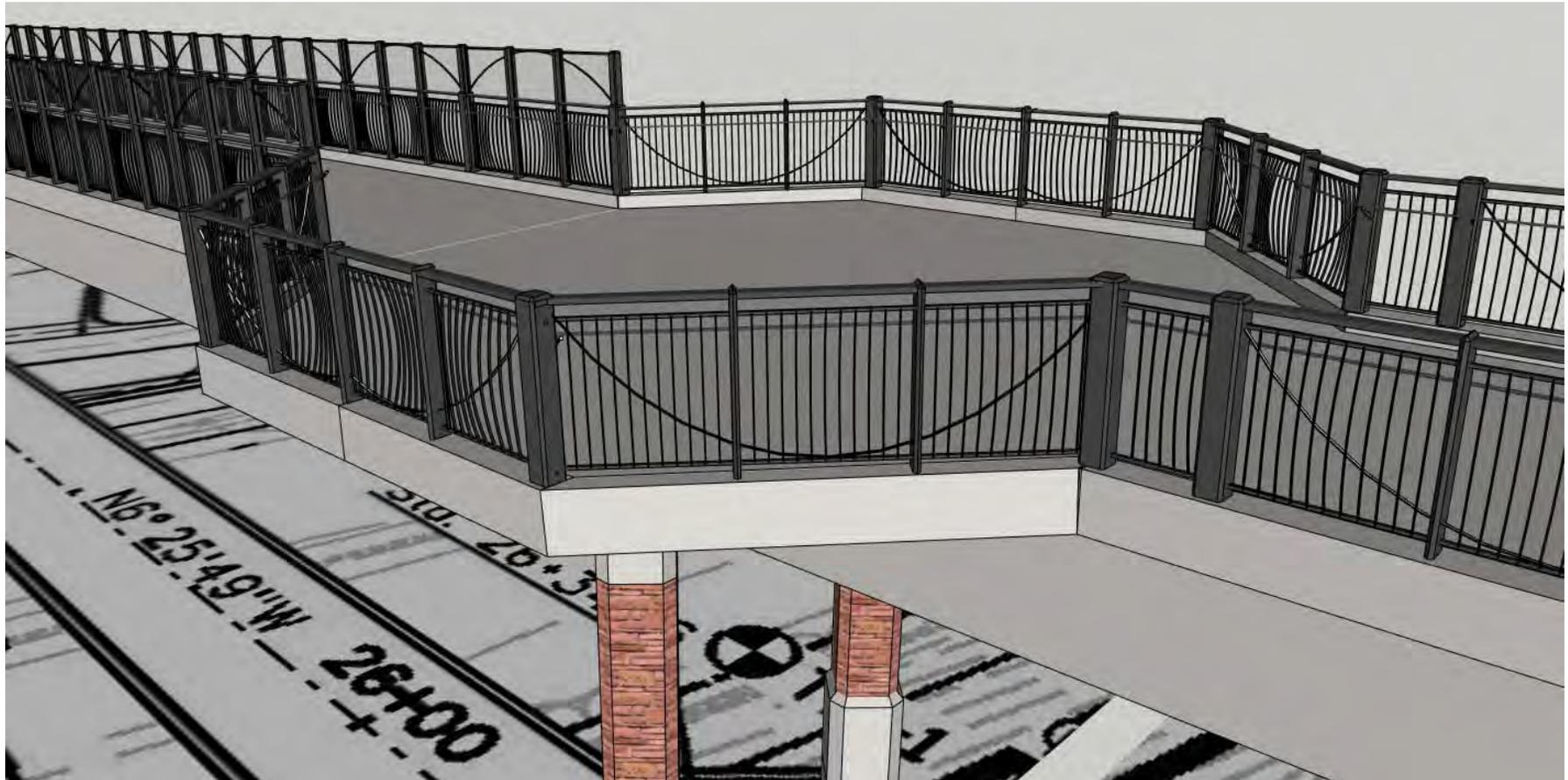


- View of Tower and Rail Road Crossing



■ View of Rail Road Crossing

- Rail Height = 10'-0" feet
- From Tower Upper Landing to Overlook
- Approximate Length = 75 feet



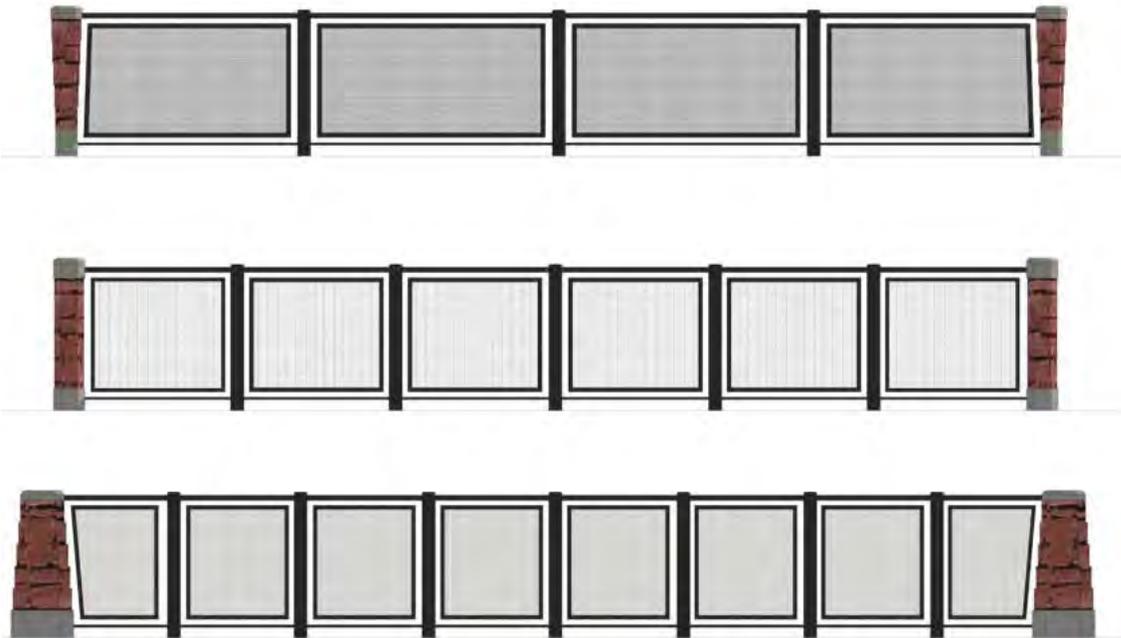
- View at Overlook

Rail Height = 4'-6" feet



■ View of I-70 Crossing

- Rail Height = 7'-10" feet
- Between Overlooks and Around Overlook South of I-70 (not shown)
- Approximate Length = 165 feet



PANEL & PRIMARY STONE STANDARD ASSEMBLIES



EXPANDING SUPPORT WITH HORIZONTAL WELD MESH

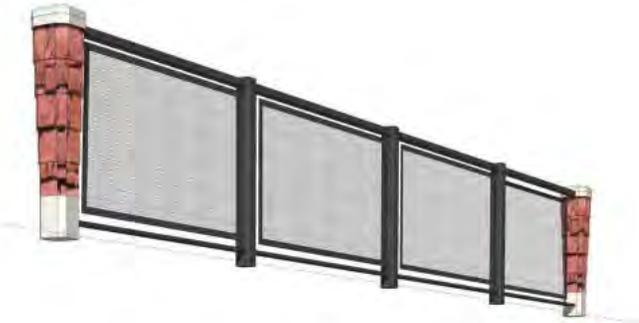


STANDARD SUPPORT WITH SQUARE WOVEN MESH



DIMINISHING SUPPORT WITH ROUNDED PERFORATED MESH

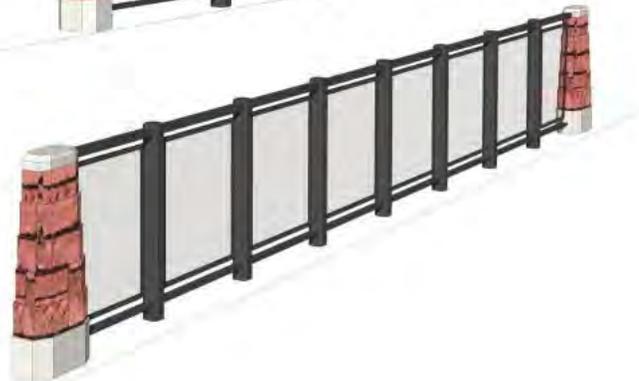
- Panel Option



EXPANDING SUPPORT
WITH HORIZONTAL WELD
MESH



STANDARD SUPPORT WITH
SQUARE WOVEN MESH



DIMINISHING SUPPORT WITH
ROUNDED PERFORATED
MESH

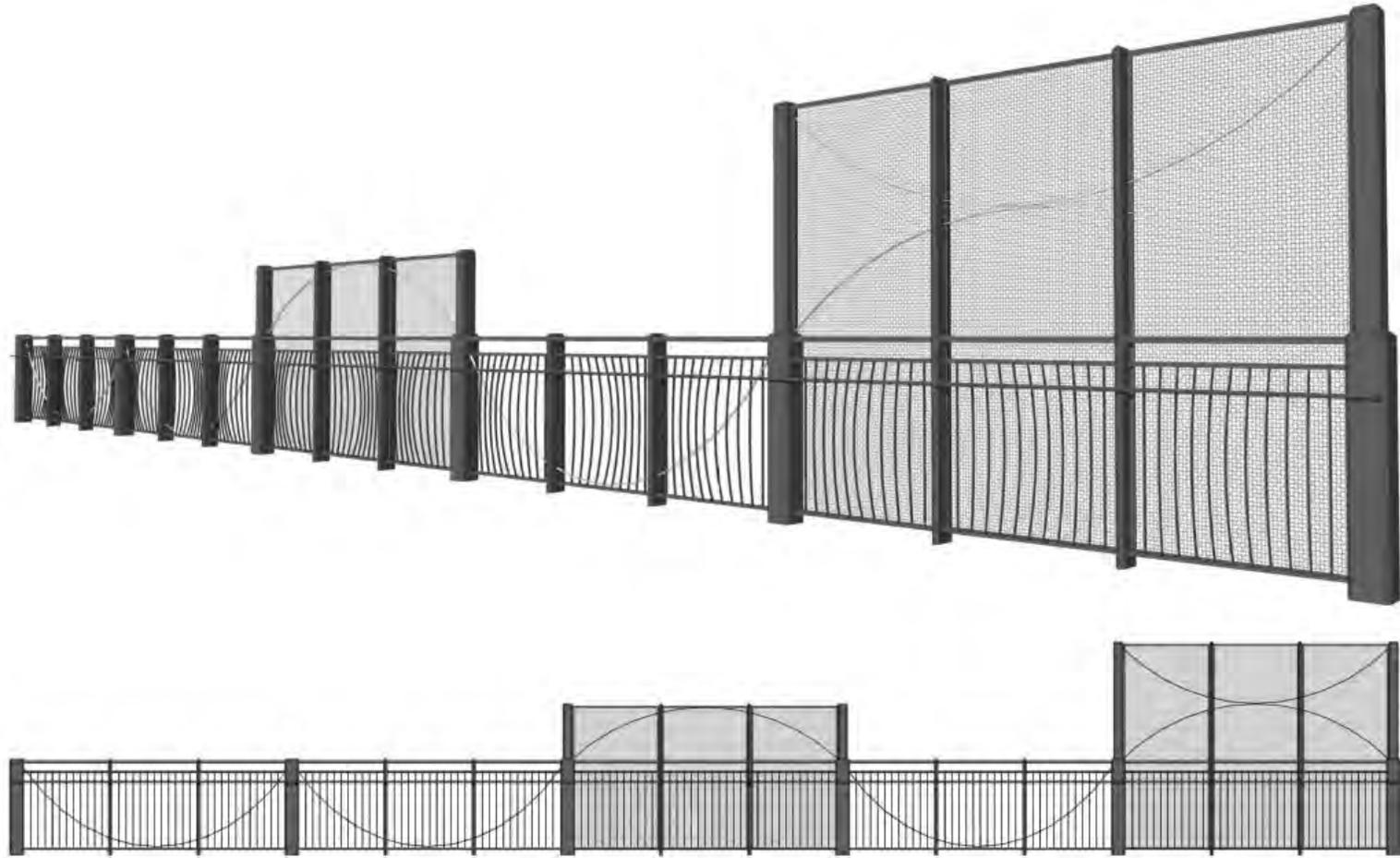
PANEL & PRIMARY STONE STANDARD ASSEMBLIES

■ Panel Option



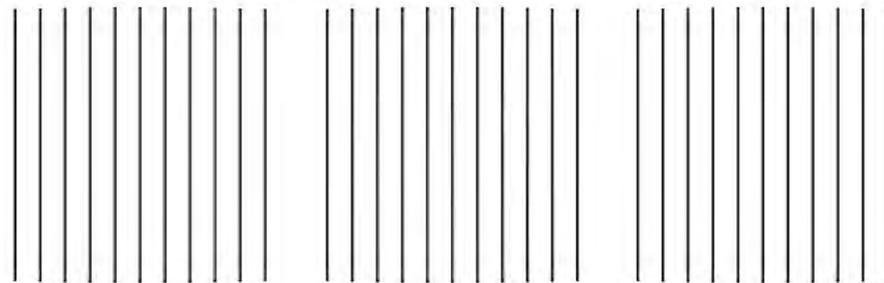
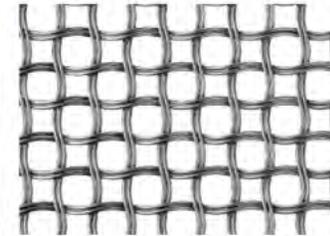
■ Stone Wrapped Columns

- At Overlook Corners
- Base for lights

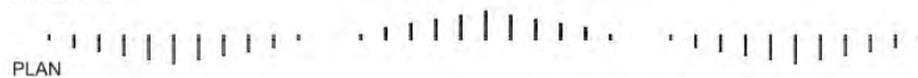


BUBBLED VERTICAL OPTION

- Steel Handrails

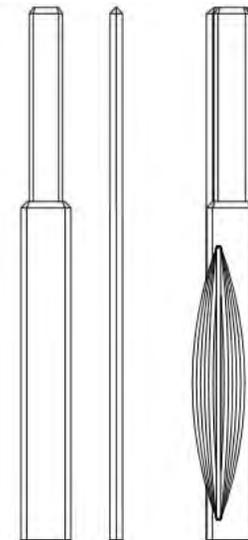


ELEVATION



PLAN

BUBBLED VERTICAL OPTION



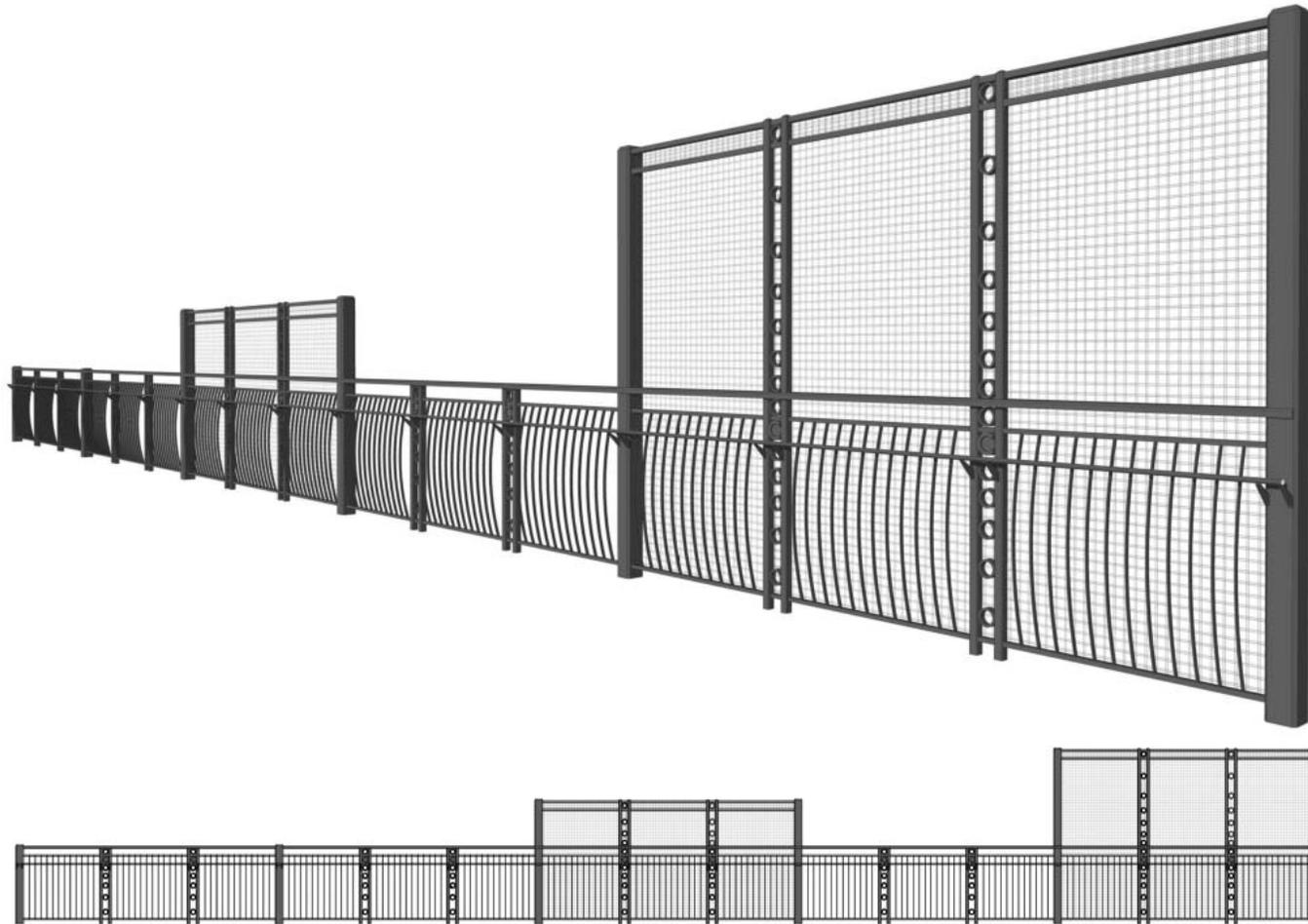
PROFILE

■ Steel Handrails

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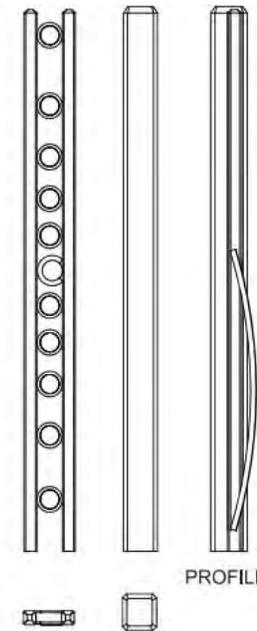
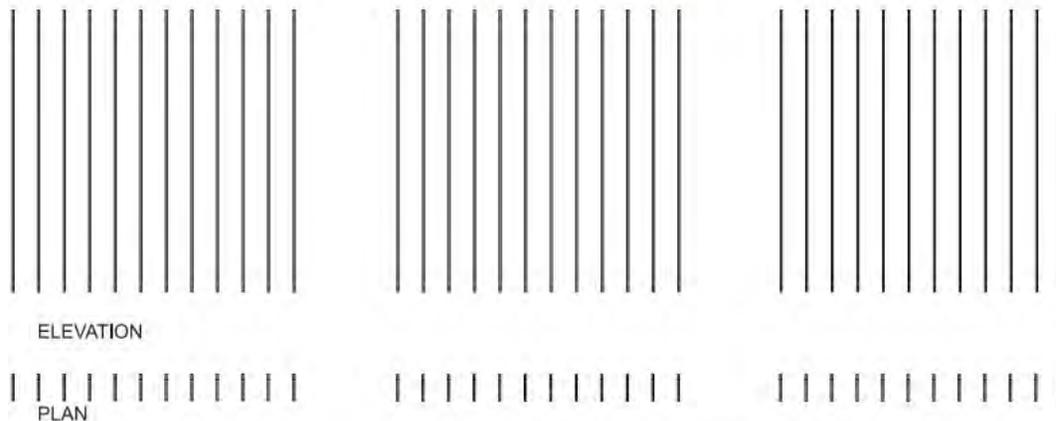
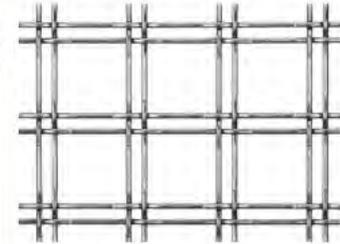
GRAND AVENUE BRIDGE

Handrails



CURVED VERTICAL OPTION

- Steel Handrails



CURVED VERTICAL OPTION

■ Steel Handrails

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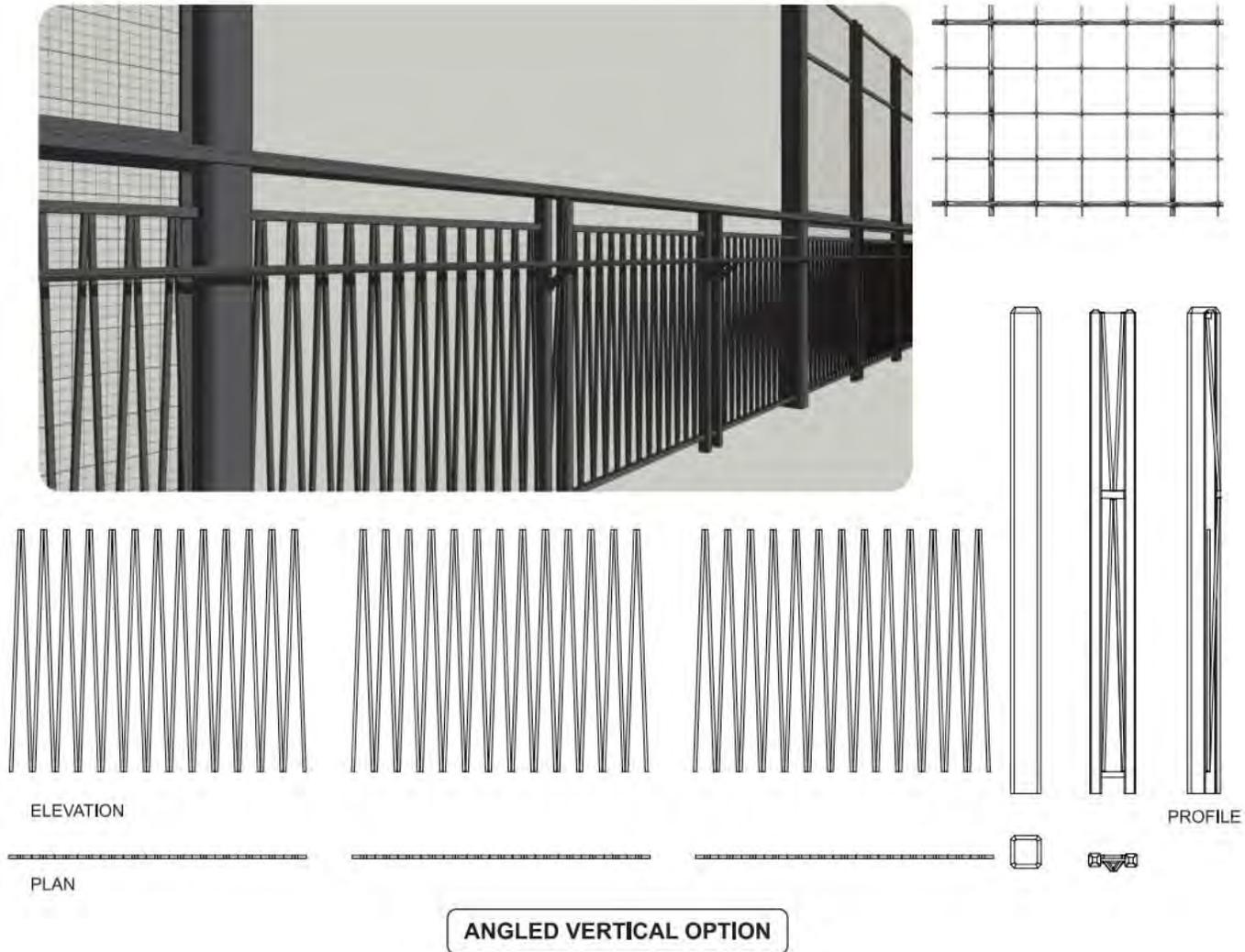
GRAND AVENUE BRIDGE

Handrails



ANGLED VERTICAL OPTION

- Steel Handrails



■ Steel Handrails

South Utility Room



Facing Street

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GRAND AVENUE BRIDGE

South Utility Room



Brick

Facing Railroad Property

Tower Alternatives



- Sign
- Textured Concrete

- Artwork
- Other Material

Tower Alternatives



- Sign
- Textured Concrete

- Artwork
- Other Material

Pedestrian Bridge Overlooks



■ View at Rail Road Crossing

- 4 Column Supports
- Revised Roof Proportions
- Removed Columns Through Roof

Pedestrian Bridge Overlooks



- View of Roof Structure and Overlook at Rail Road Crossing



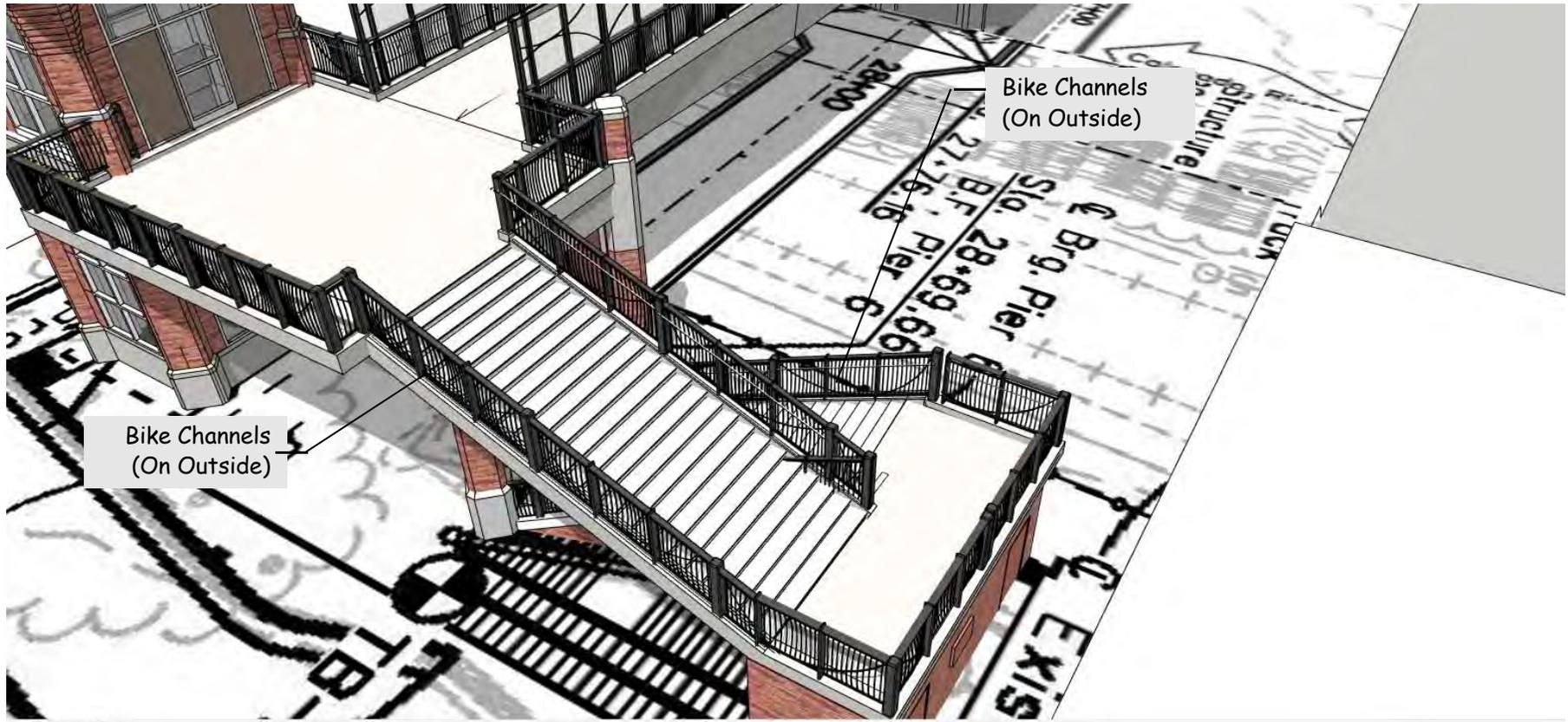
■ Stair Overview

- Opened Area Under Upper Stairs
- Width is 11 ft to 12.5 ft (Lower Stair)
- One Bike Channel on Outside of Stairs



■ Stair Overview

- Opened Area Under Upper Stairs



■ Intermediate Landing View

- Width is 11 ft to 12.5 ft (Lower Stair)
- One Bike Channel on Outside of Stairs



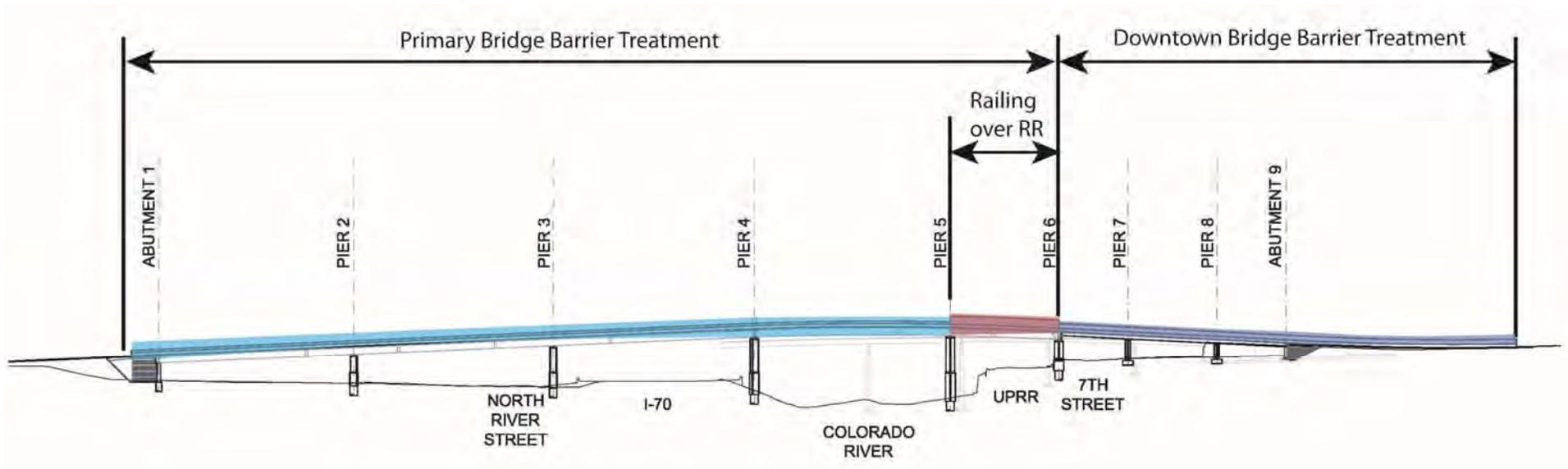
■ Lower Landing View

- Opened Area Under Upper Stairs
- Widened Lower Stair at Ground Level

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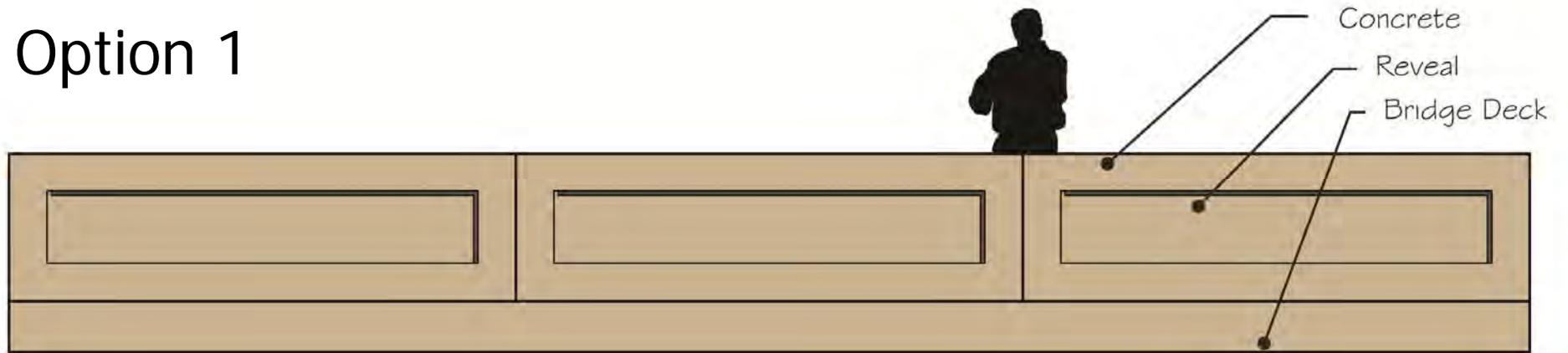
GRAND AVENUE BRIDGE

Barrier Aesthetics



Primary Barrier Aesthetics

Option 1

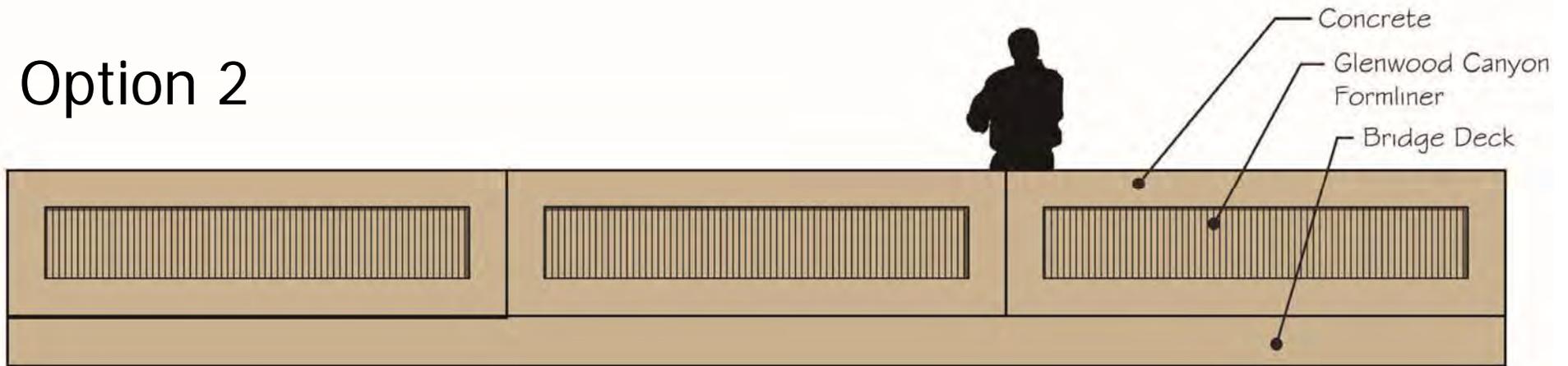


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Primary Barrier Aesthetics

Option 2



Barrier Aesthetics

Option 3

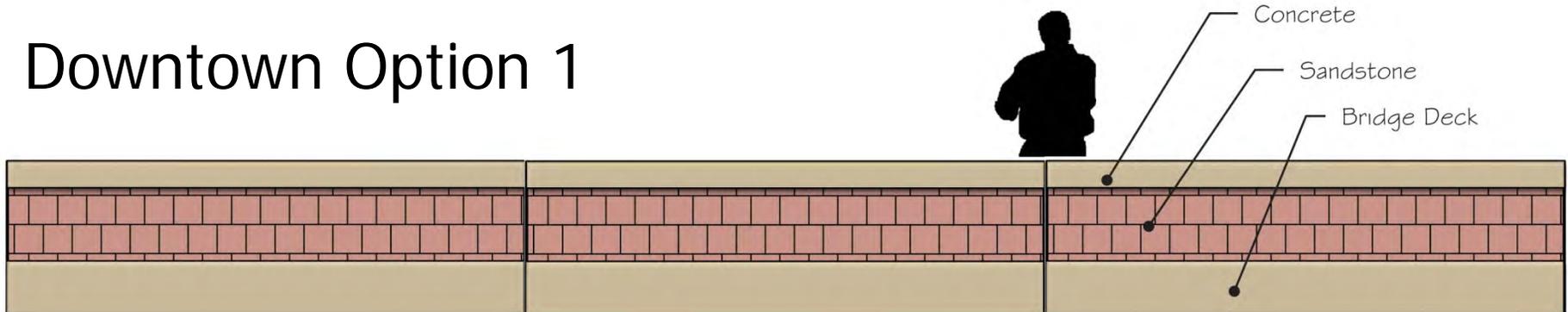


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Downtown Barrier Aesthetics

Downtown Option 1

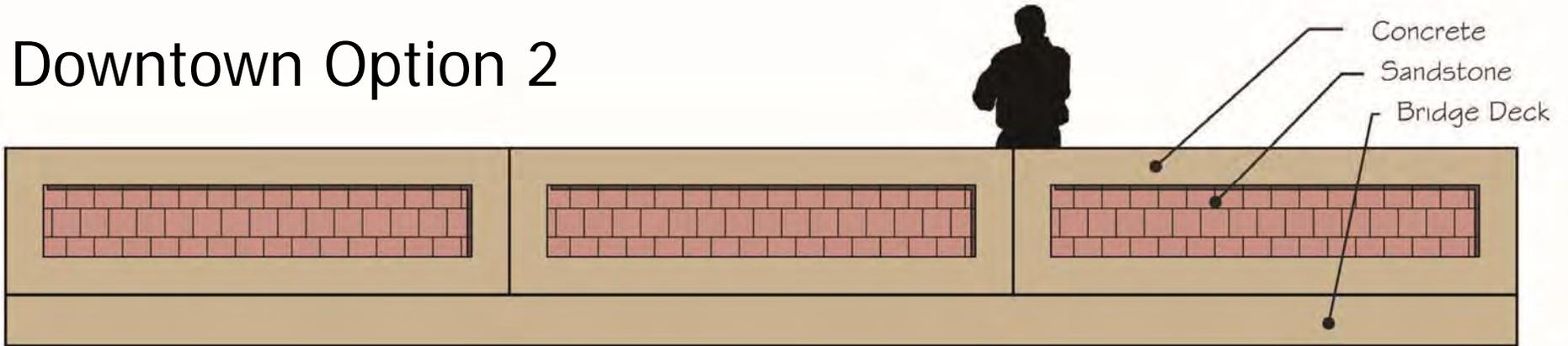


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Downtown Barrier Aesthetics

Downtown Option 2

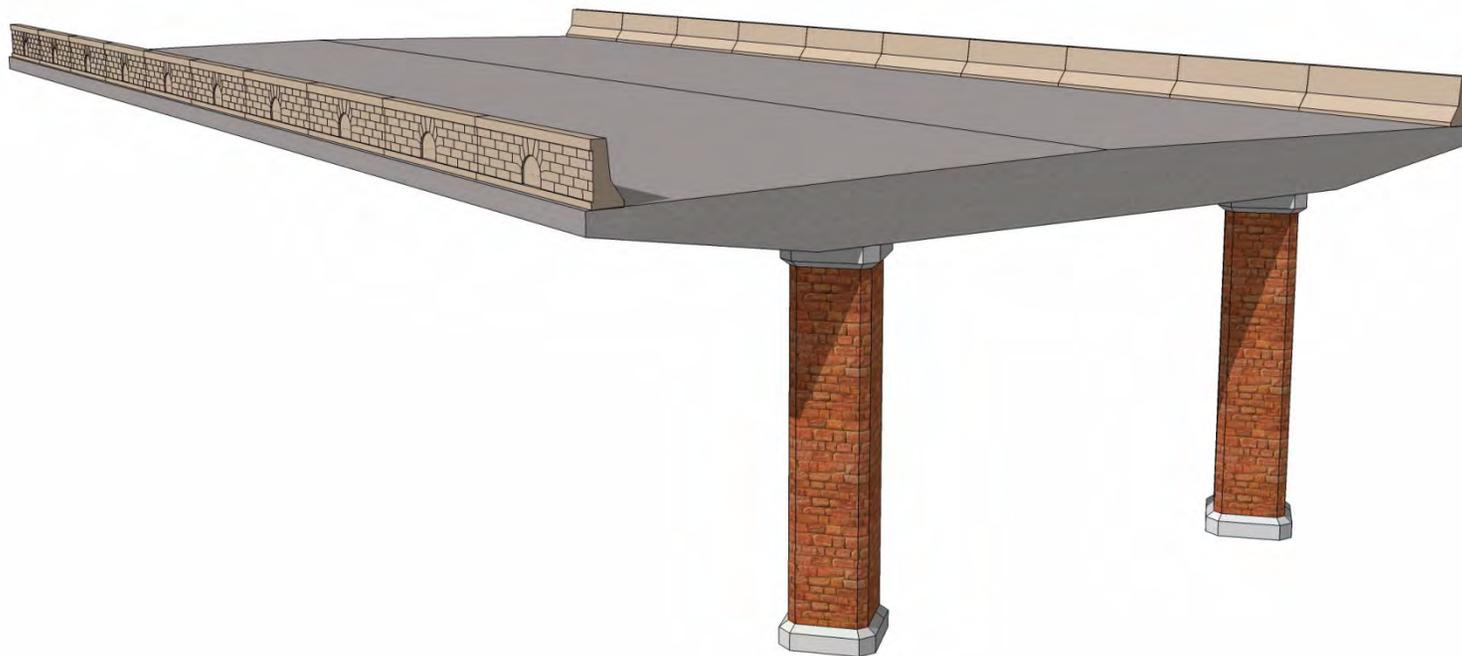
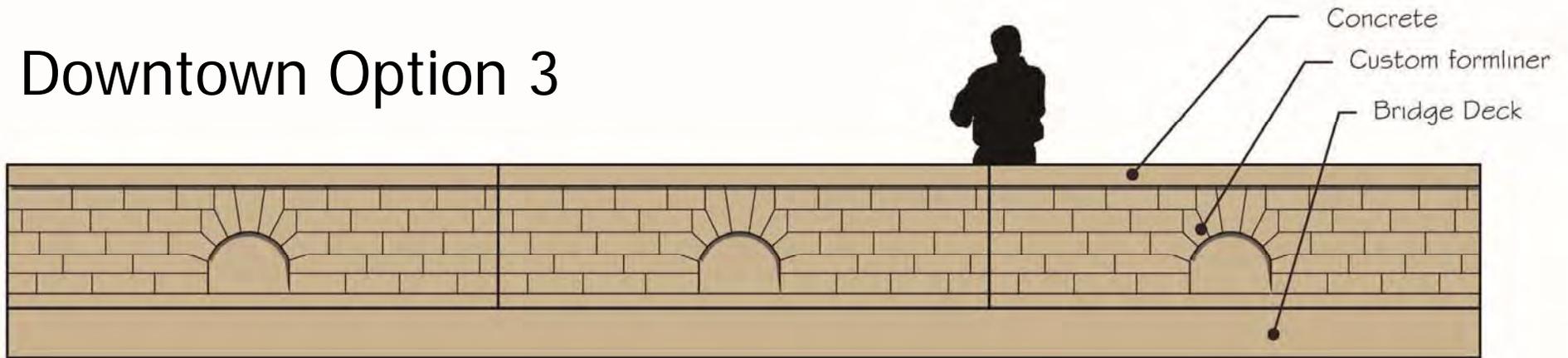


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Downtown Barrier Aesthetics

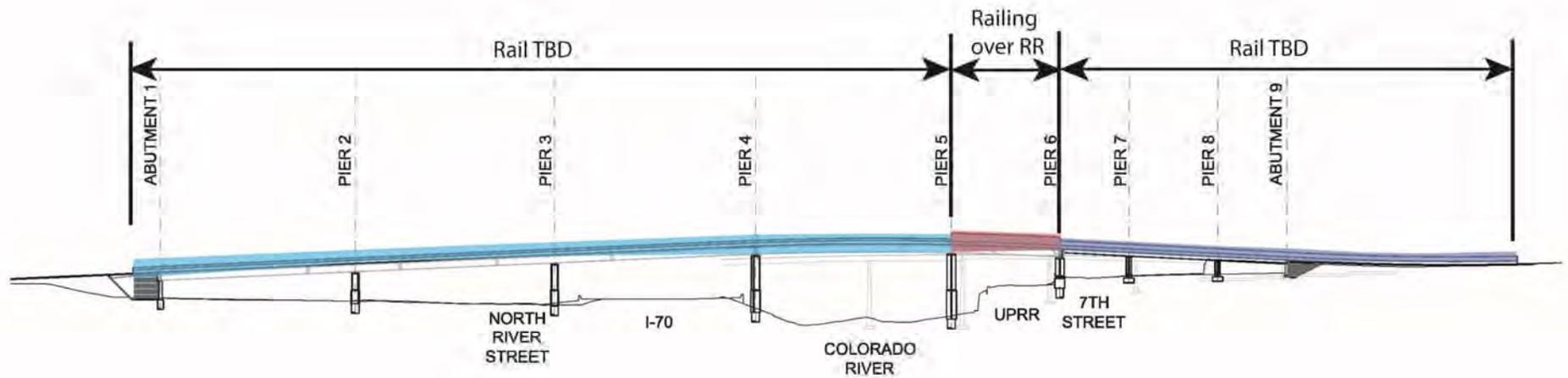
Downtown Option 3



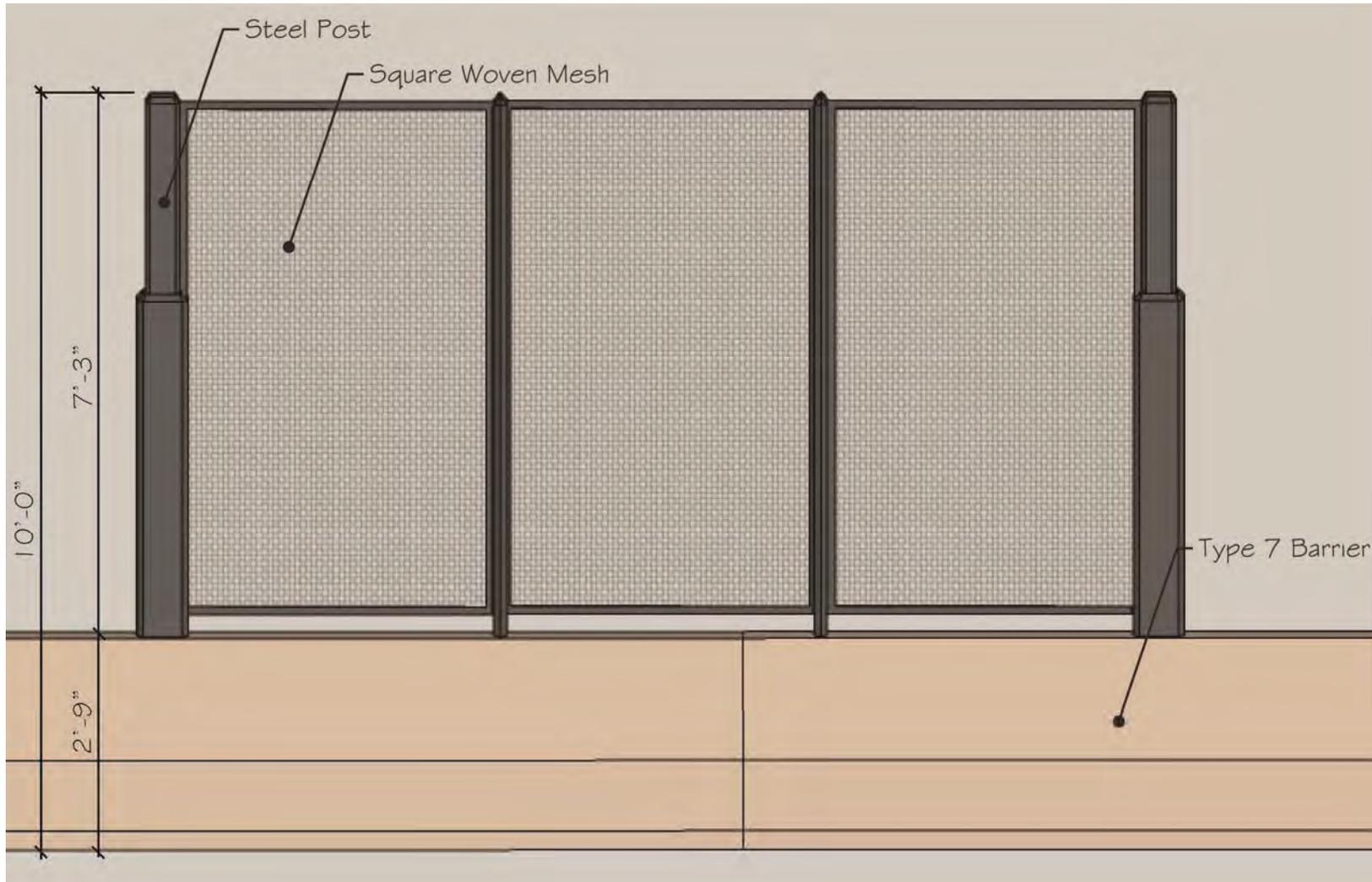
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GRAND AVENUE BRIDGE

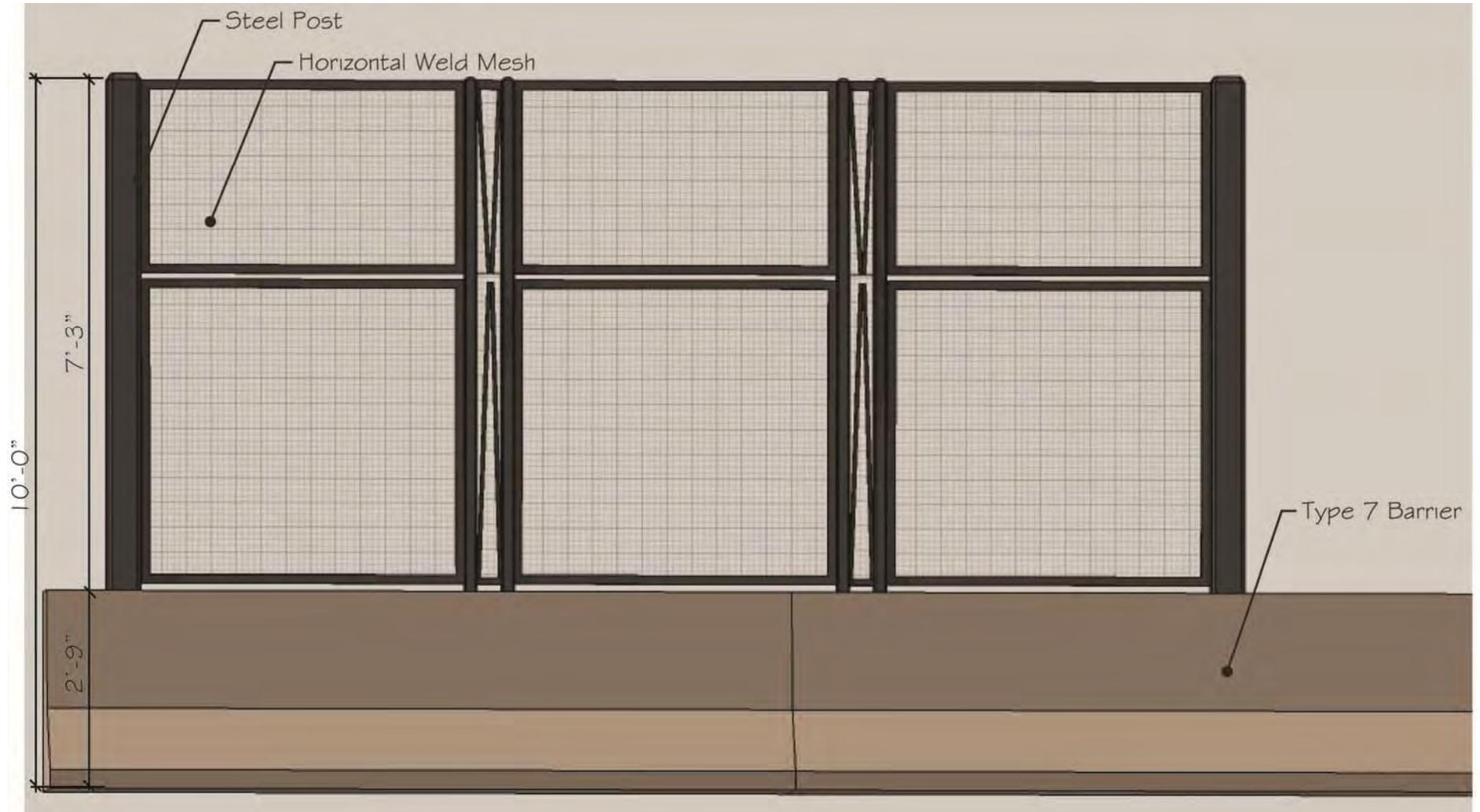
GAB Fence over RR



Option 1



Option 2



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GRAND AVENUE BRIDGE



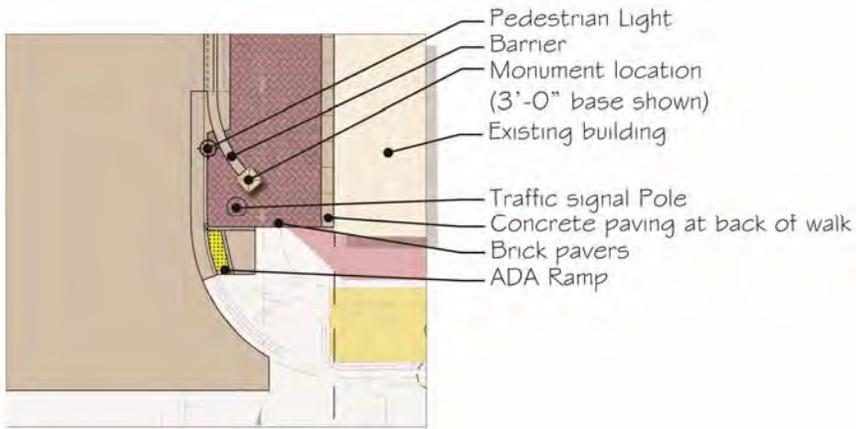
GAB Fence over RR

Break
(15 minutes)

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8th Street

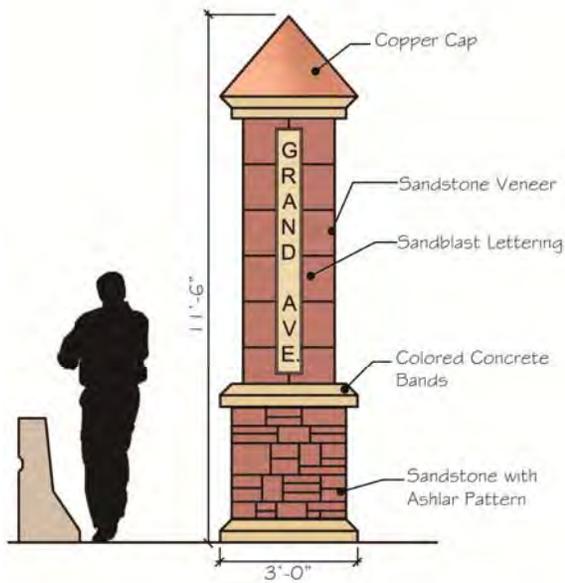


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GRAND AVENUE BRIDGE

8th Street

Option 1



SH 82

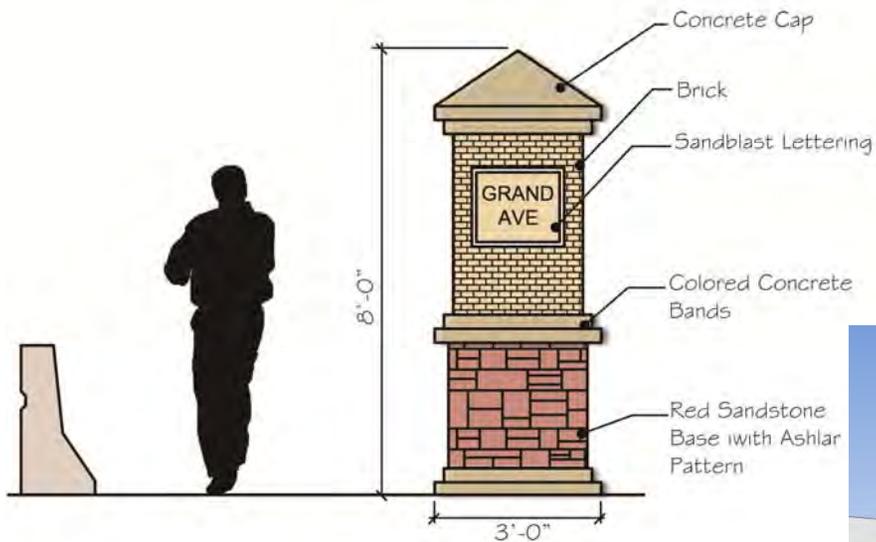
GRAND AVENUE BRIDGE

8th Street

Option 1



Option 2



SH 82

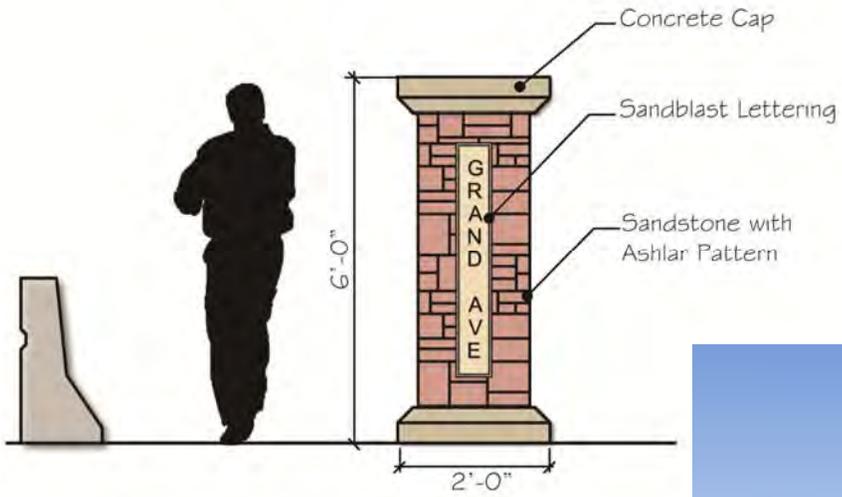
GRAND AVENUE BRIDGE

8th Street

Option 2



Option 3



SH 82

GRAND AVENUE BRIDGE

8th Street

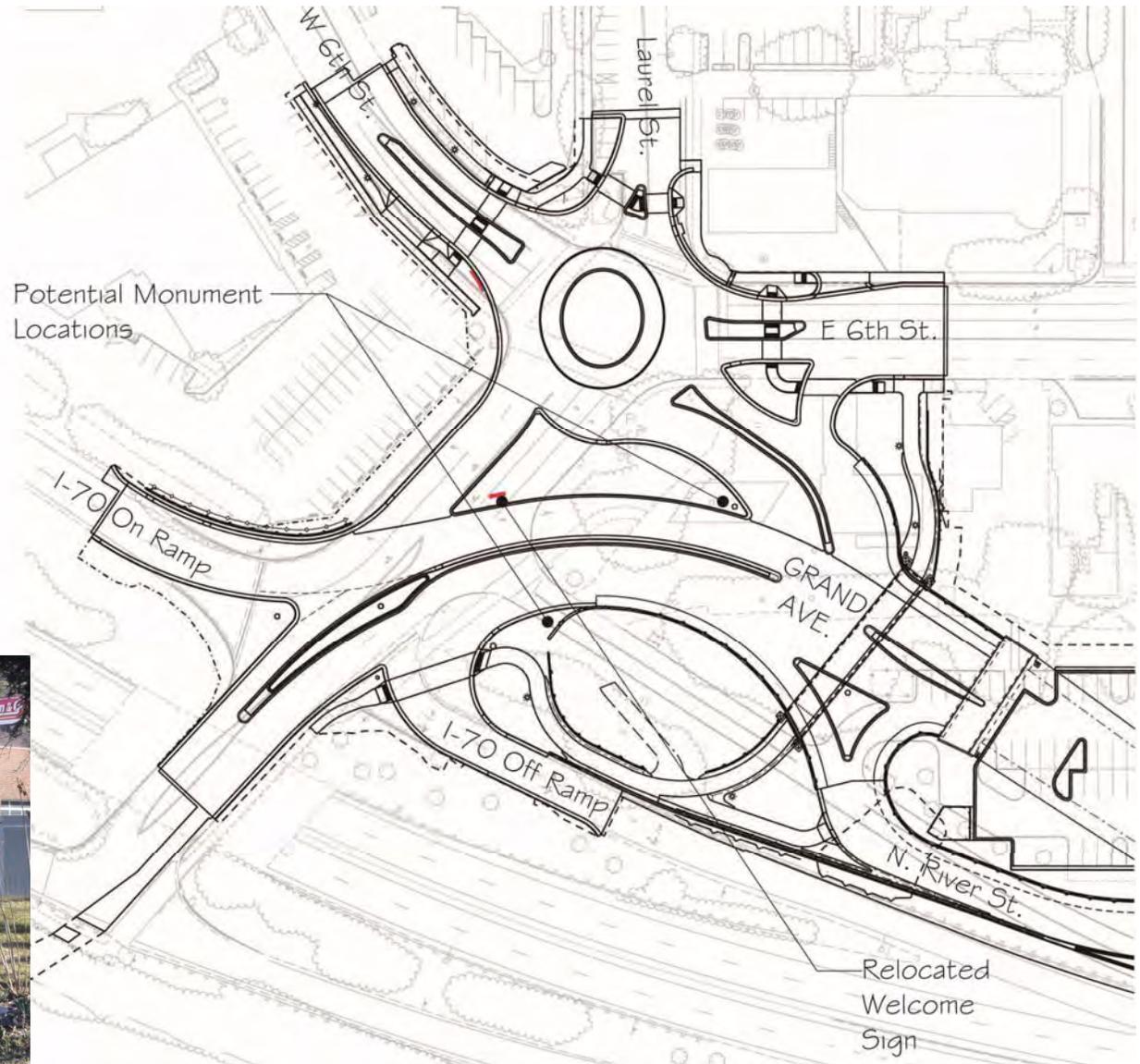
Option 3



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GRAND AVENUE BRIDGE

Monuments on the North



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GRAND AVENUE BRIDGE



Monuments on the North





**TYPE L
STREETLIGHT**

For use on signal poles.
(May not be needed.)
Meets CDOT specifications.



**TYPE K
BRIDGELIGHT**

Proposed luminaire for
bridge lighting.
Meets CDOT specifications.

**TYPE P
PED BRIDGE
PROPOSED LUMINAIRE**



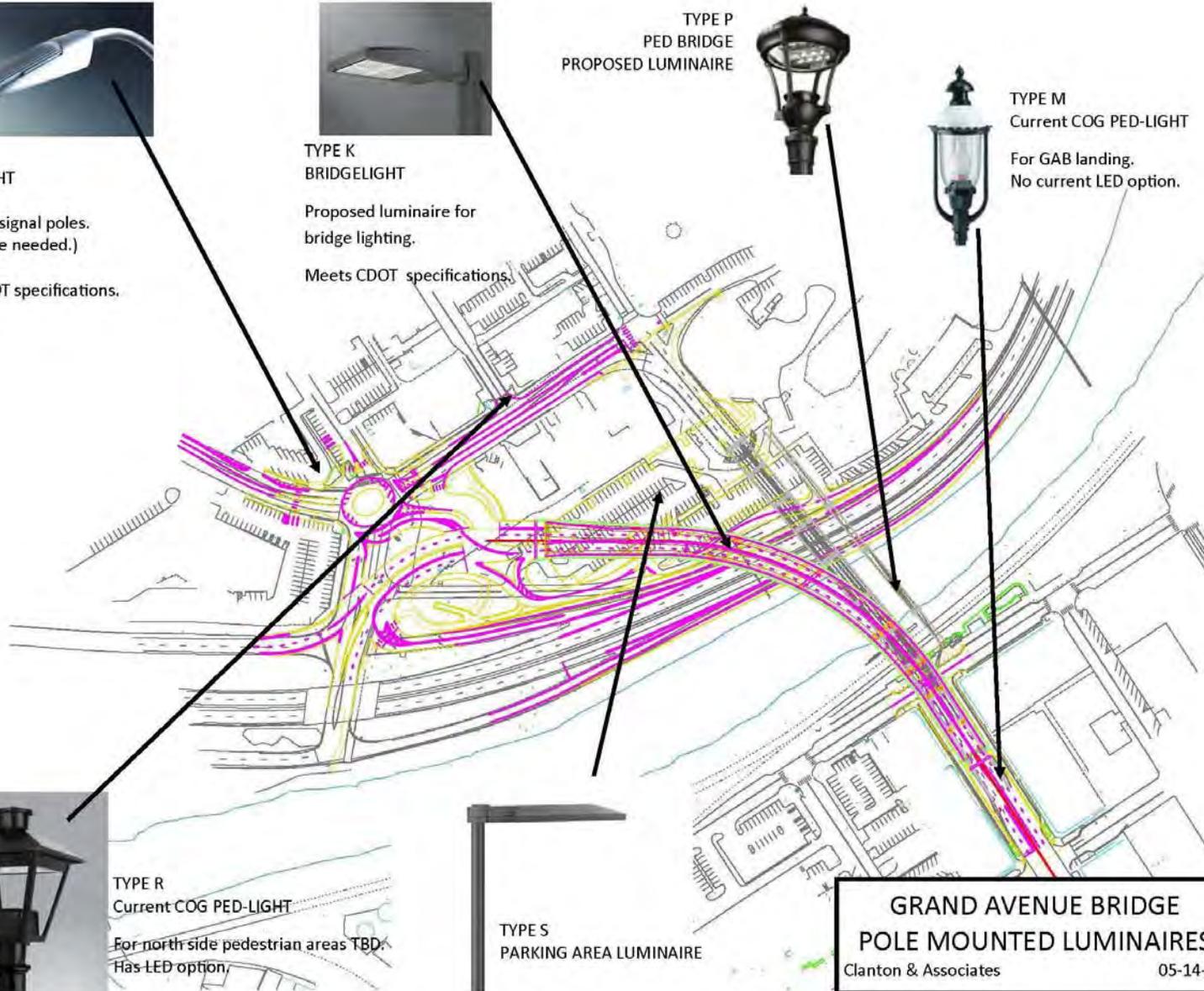
**TYPE M
Current COG PED-LIGHT**
For GAB landing.
No current LED option.



**TYPE R
Current COG PED-LIGHT**
For north side pedestrian areas TBD.
Has LED option.

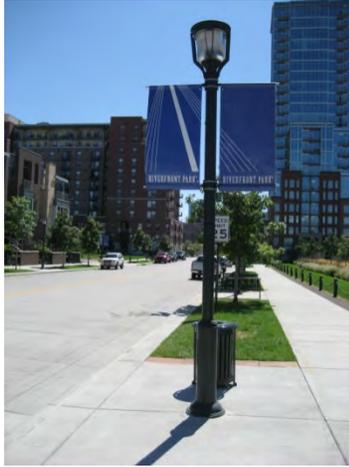


**TYPE S
PARKING AREA LUMINAIRE**

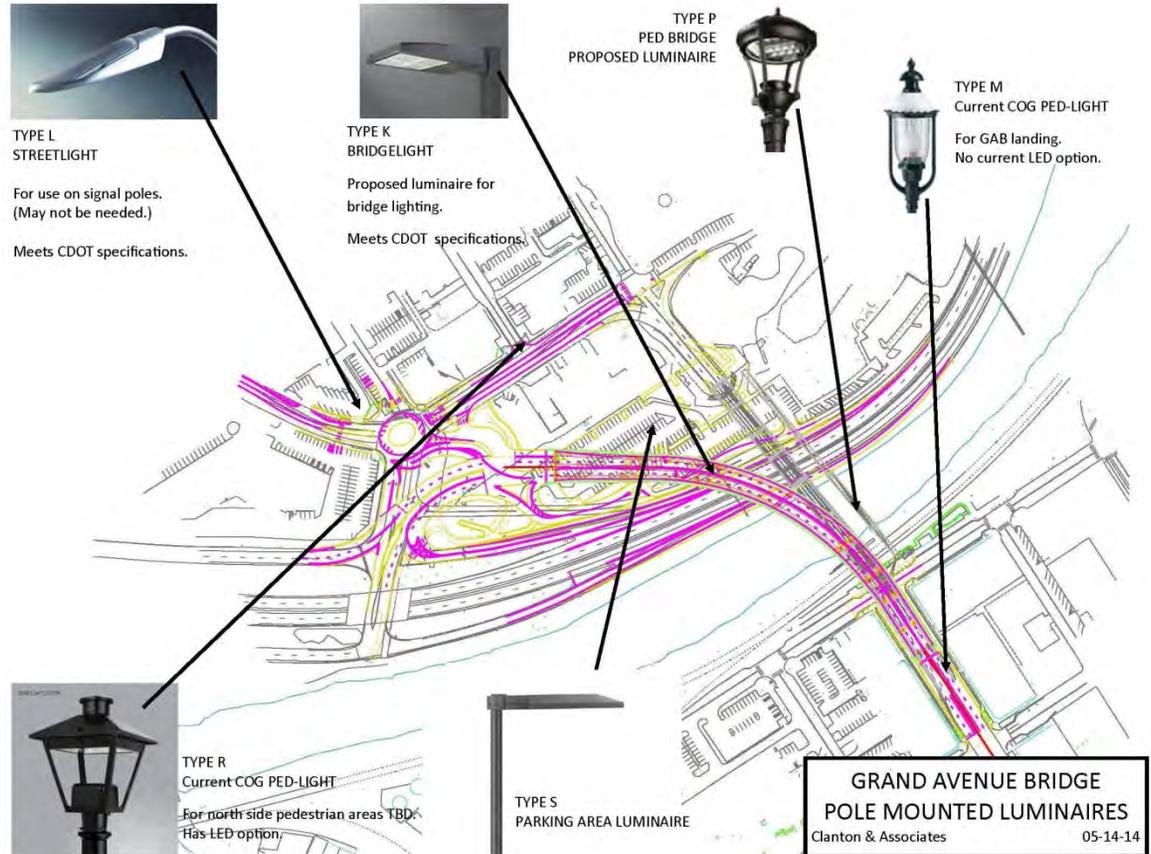


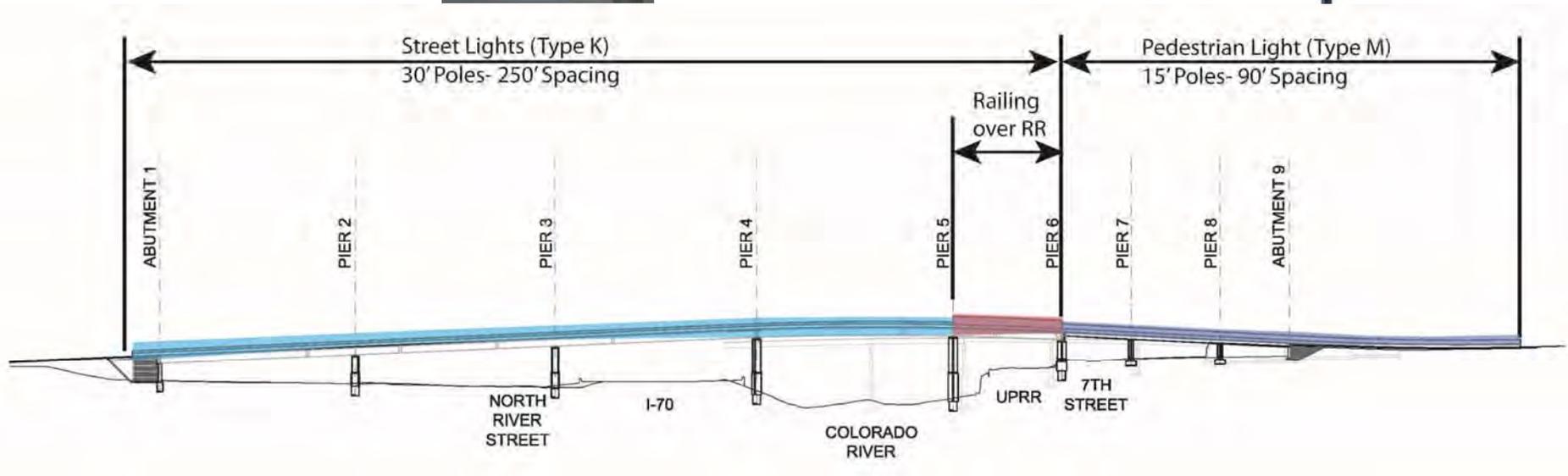
**GRAND AVENUE BRIDGE
POLE MOUNTED LUMINAIRES**
Clanton & Associates 05-14-14

Banners



Hanging Flower Pots

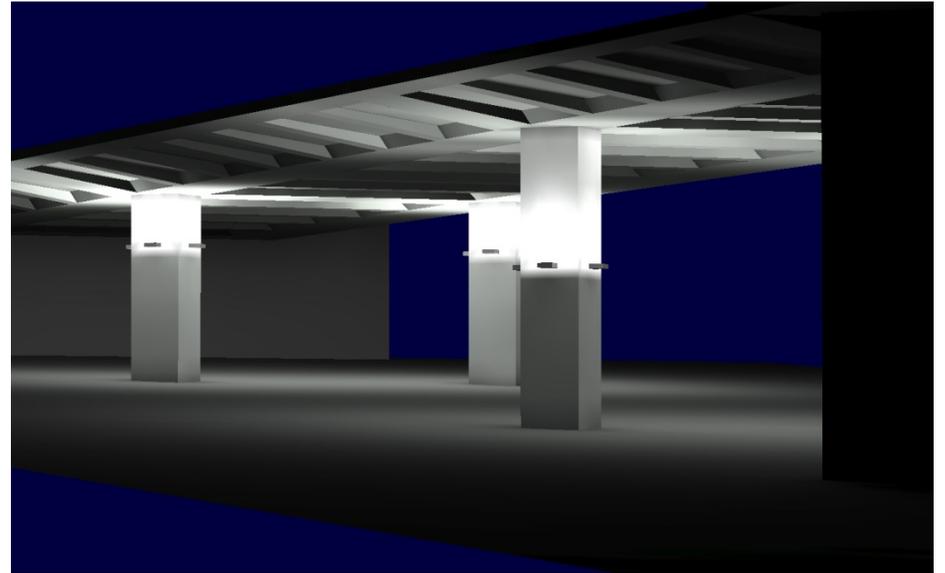




■ Lighting



Down lights



Surface Mounted Lights
on Piers

■ Lighting

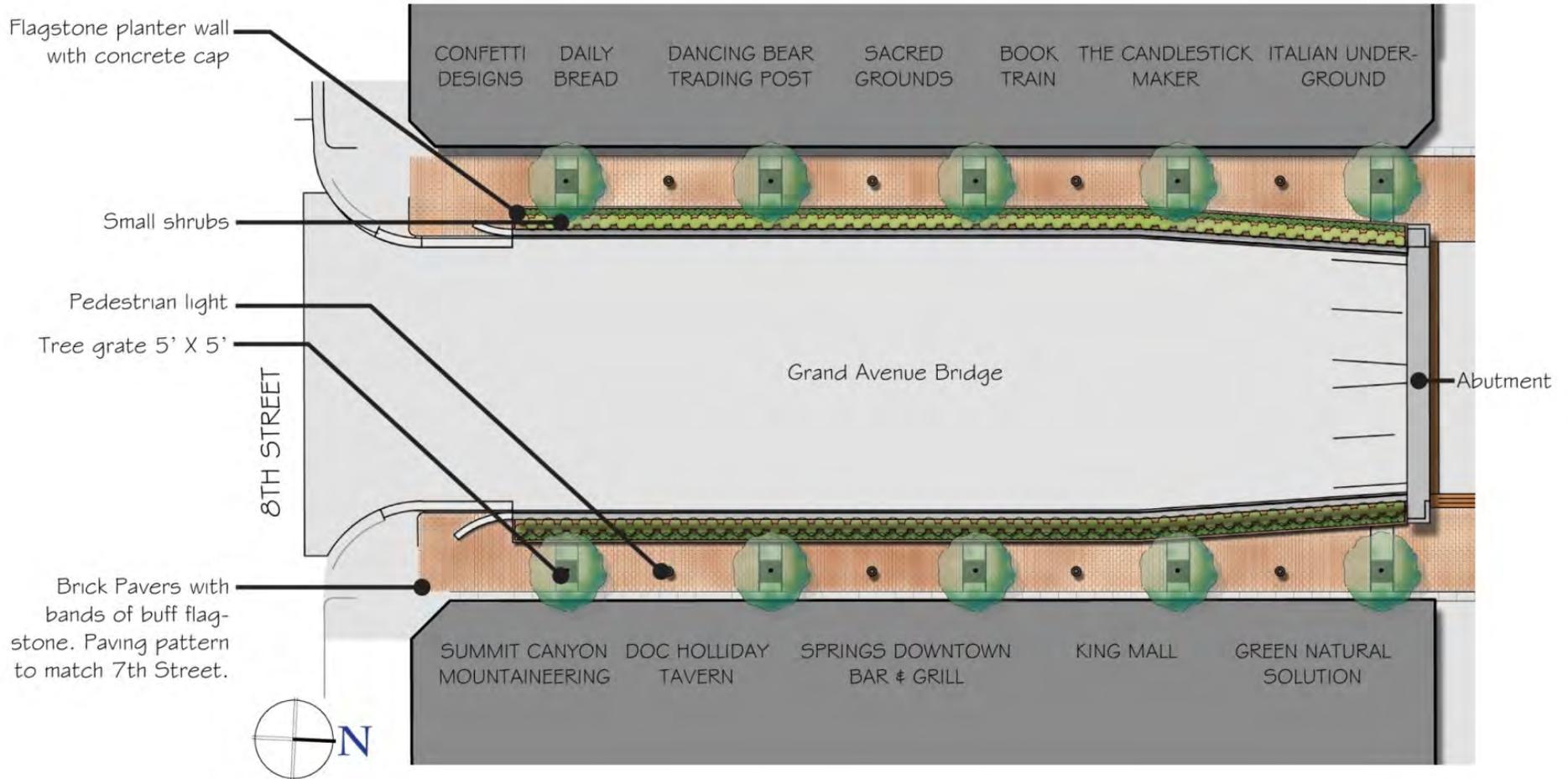


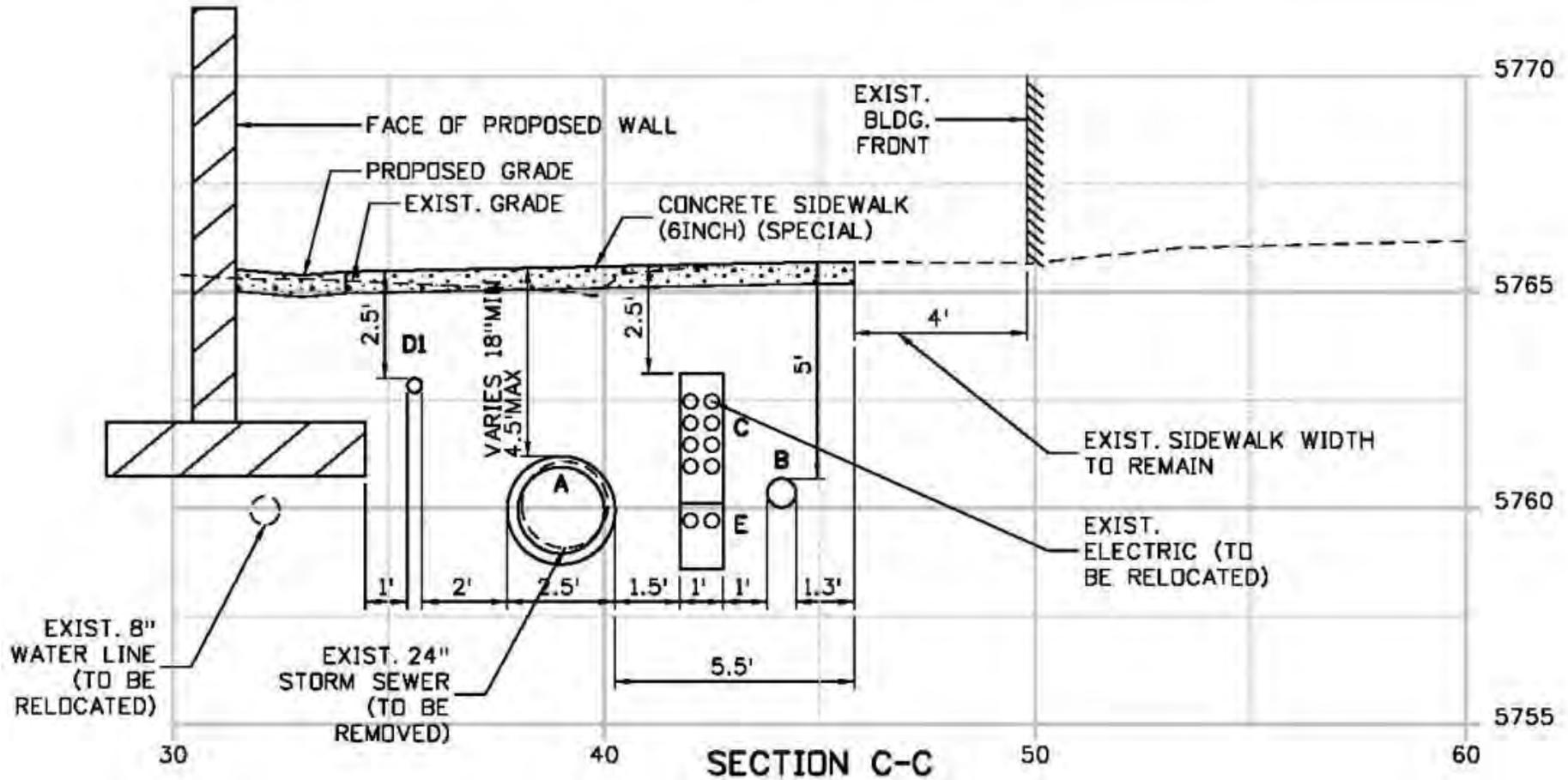
Down lights and surface mounted Lights on Piers

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7th-8th Sidewalk

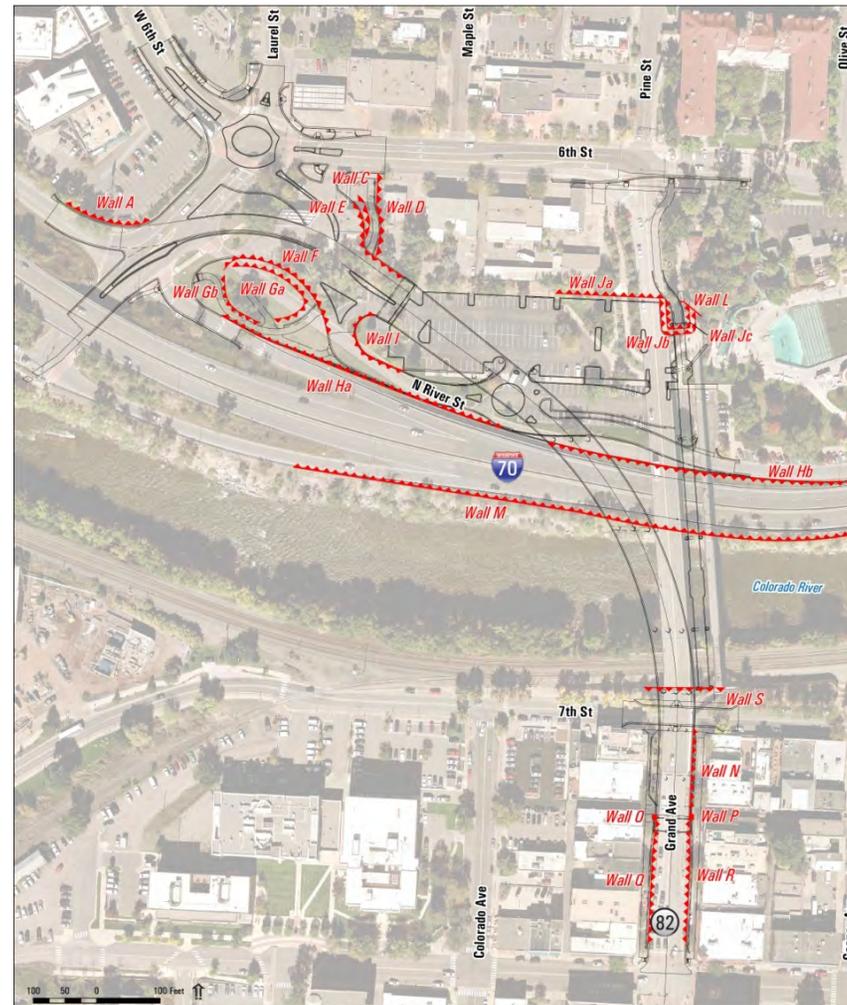






■ 24 walls included in the Grand Avenue Bridge project

<p>Wall A</p> <ul style="list-style-type: none"> - Retains Village Inn property - 2'-4" tall, 140' length 	<p>Wall I</p> <ul style="list-style-type: none"> - Retains North River Street - 1'- 18" tall
<p>Wall C</p> <ul style="list-style-type: none"> - Retains Grand Avenue - Terraced wall - 3' tall 	<p>Wall J-a</p> <ul style="list-style-type: none"> - Retains private properties - 11' tall
<p>Wall D</p> <ul style="list-style-type: none"> - Retains Grand Avenue - 1'- 6'-6" tall 	<p>Wall Jb</p> <ul style="list-style-type: none"> - Terraced wall around pedestrian bridge pier - Height unknown
<p>Wall E</p> <ul style="list-style-type: none"> - Retains Grand Avenue - 2' - 9" tall, 154' length - Guardrail Type 7 on type wall 	<p>Wall Jc</p> <ul style="list-style-type: none"> - Terraced wall around pedestrian bridge pier - Height unknown
<p>Wall F</p> <ul style="list-style-type: none"> - Retains Grand Avenue - 10' -6" tall, 228' length - Guardrail Type 7 on type wall 	<p>Wall M</p> <ul style="list-style-type: none"> - Retains I-70 - 6' tall, 561' length
<p>Wall Ga</p> <ul style="list-style-type: none"> - Terraced Wall - 2' tall, 193' length 	<p>Wall N</p> <ul style="list-style-type: none"> - Seat walls
<p>Wall Gb</p> <ul style="list-style-type: none"> - Retains pedestrian walkway in WQ pond - 2' tall 	<p>Walls O and P</p> <ul style="list-style-type: none"> - Curb around inlets
<p>Wall Gc</p> <ul style="list-style-type: none"> - Retains pedestrian walkway in WQ pond - 3' tall, 62' length 	<p>Wall Q</p> <ul style="list-style-type: none"> - Retains Grand Ave - 10' -6" tall, 206' length
<p>Wall Ha</p> <ul style="list-style-type: none"> - Retains North River Street - 6'-10" tall, 371' length - Guardrail Type 7 on type wall 	<p>Wall R</p> <ul style="list-style-type: none"> - Retains Grand Ave - 12' -6" tall
<p>Wall Hb</p> <ul style="list-style-type: none"> - Retains I-70 - 3'-7" tall, 123' length 	<p>Wall S</p> <ul style="list-style-type: none"> - Retains plaza area north of 7th at clock tower - Height unknown

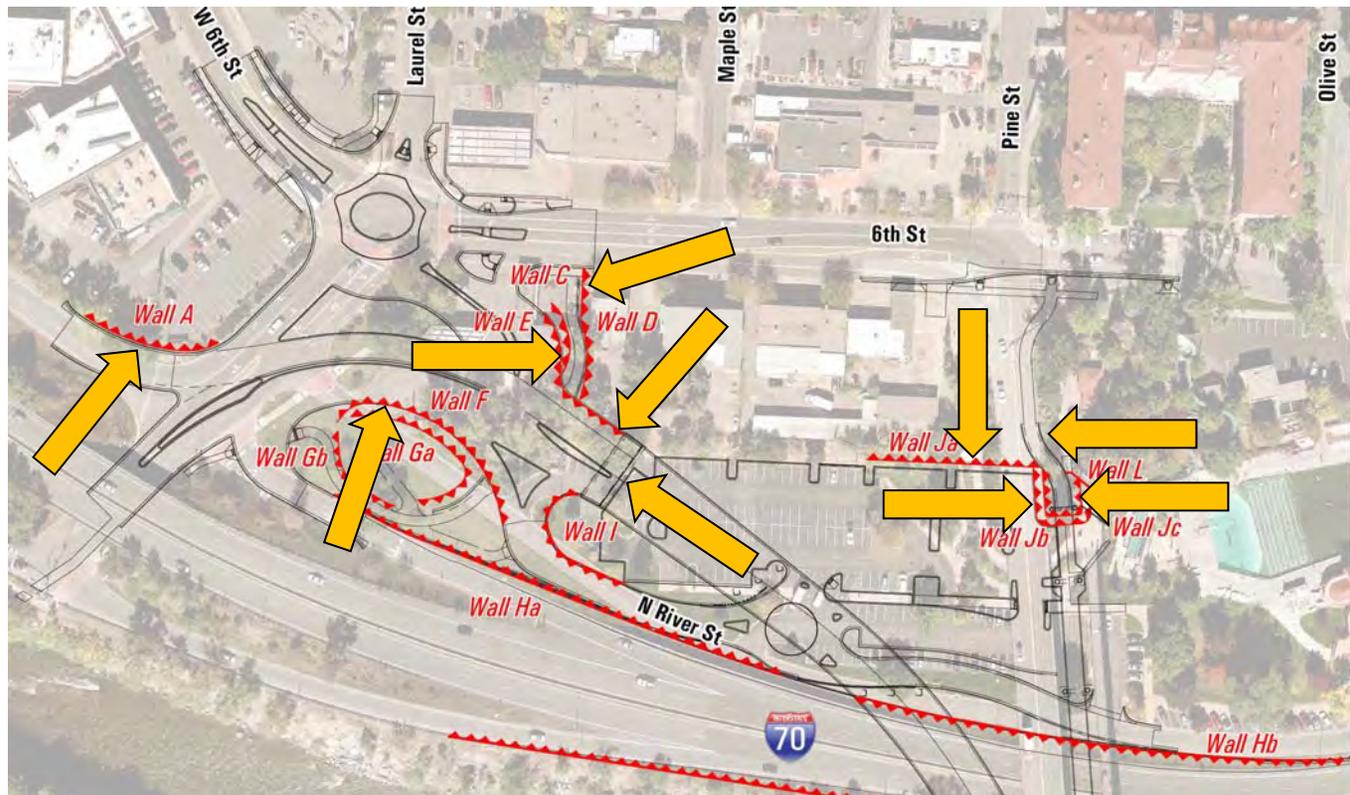


- Walls on the north side
 - Stone wall- natural



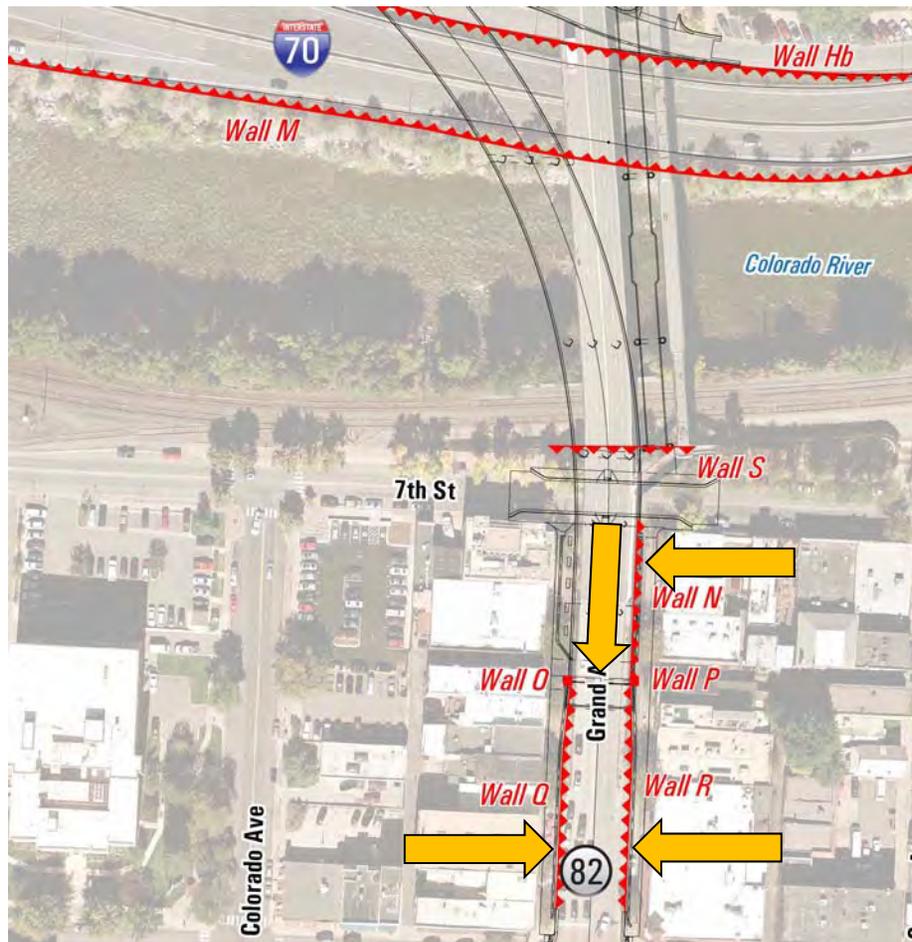
■ Walls on the north side

- Stone walls- 15 Stone Walls
An additional 6 walls proposed to have stone veneer



■ Walls on the south side

- Stone Wall

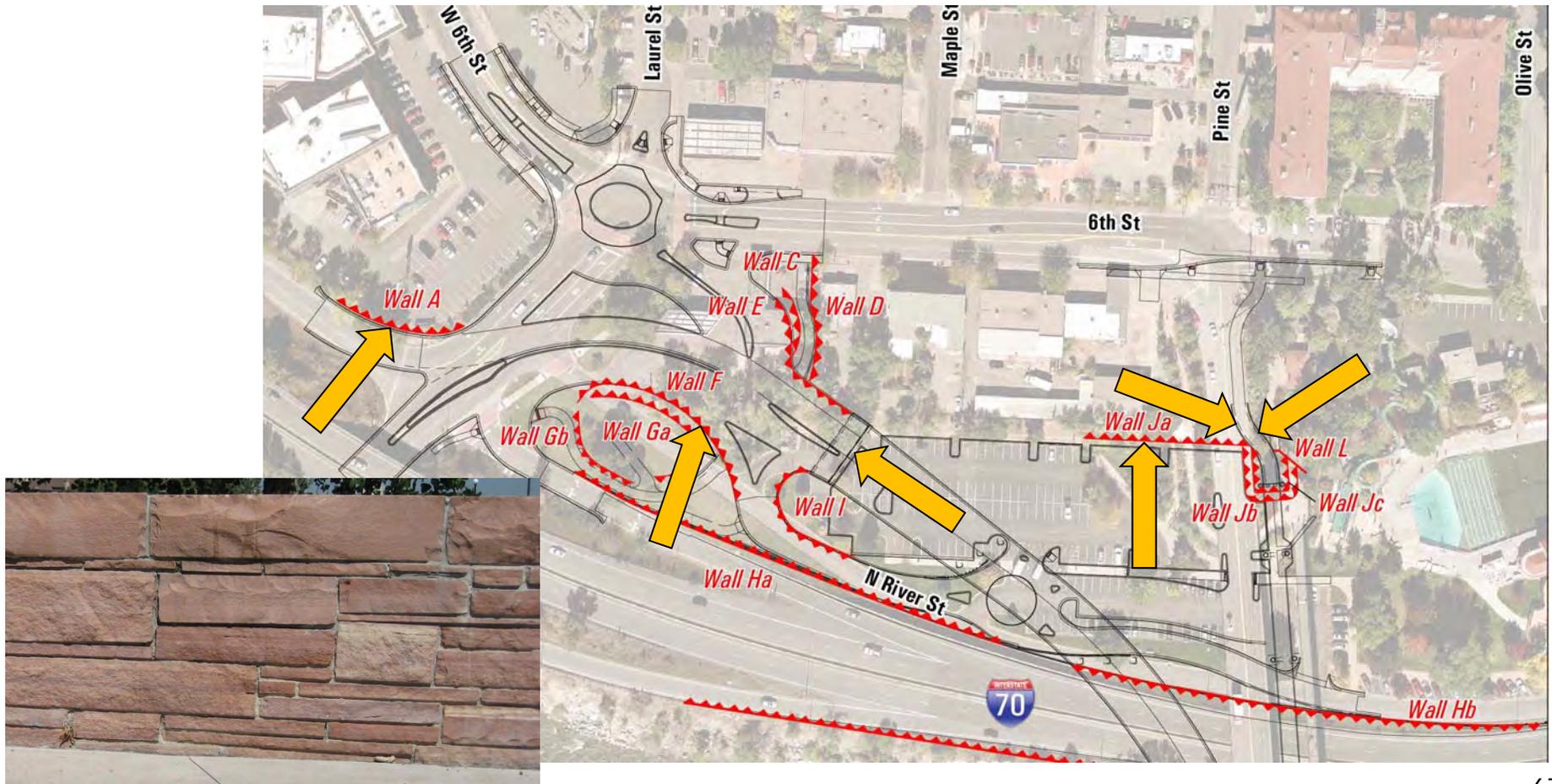


- Walls on the north side
 - Glenwood Canyon formliner



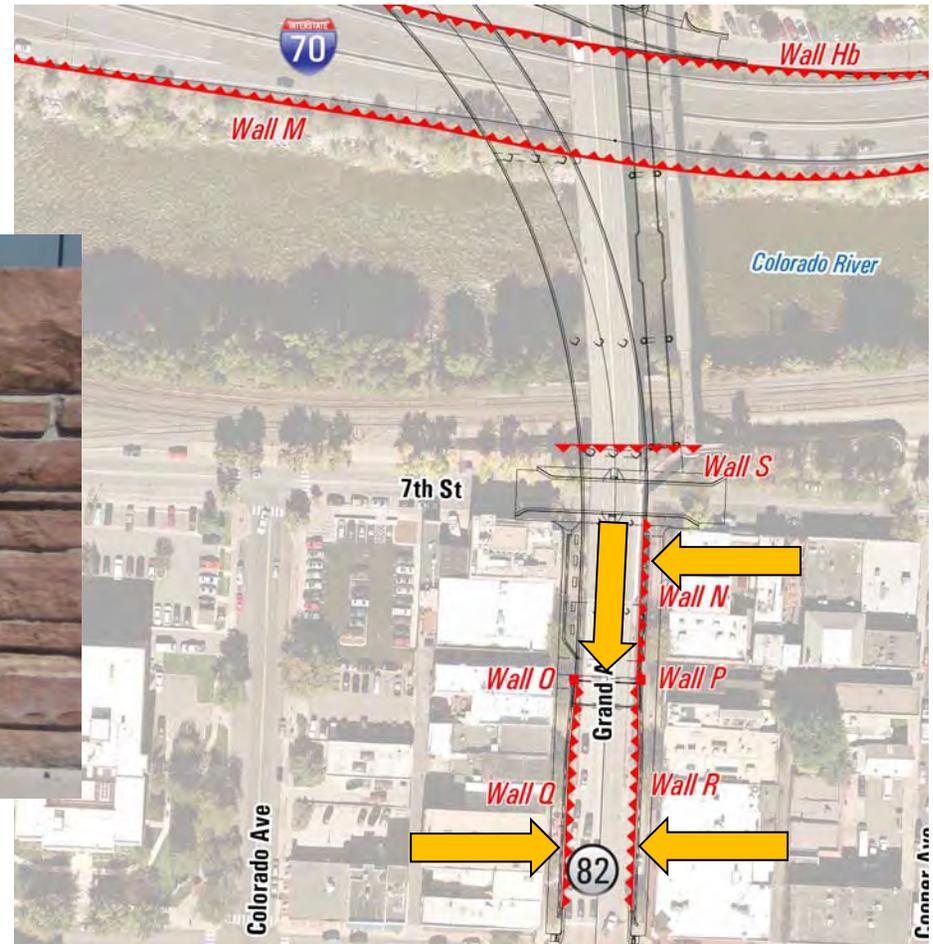
■ Stone Wall Options

- Colorado Rose Ashlar Pattern



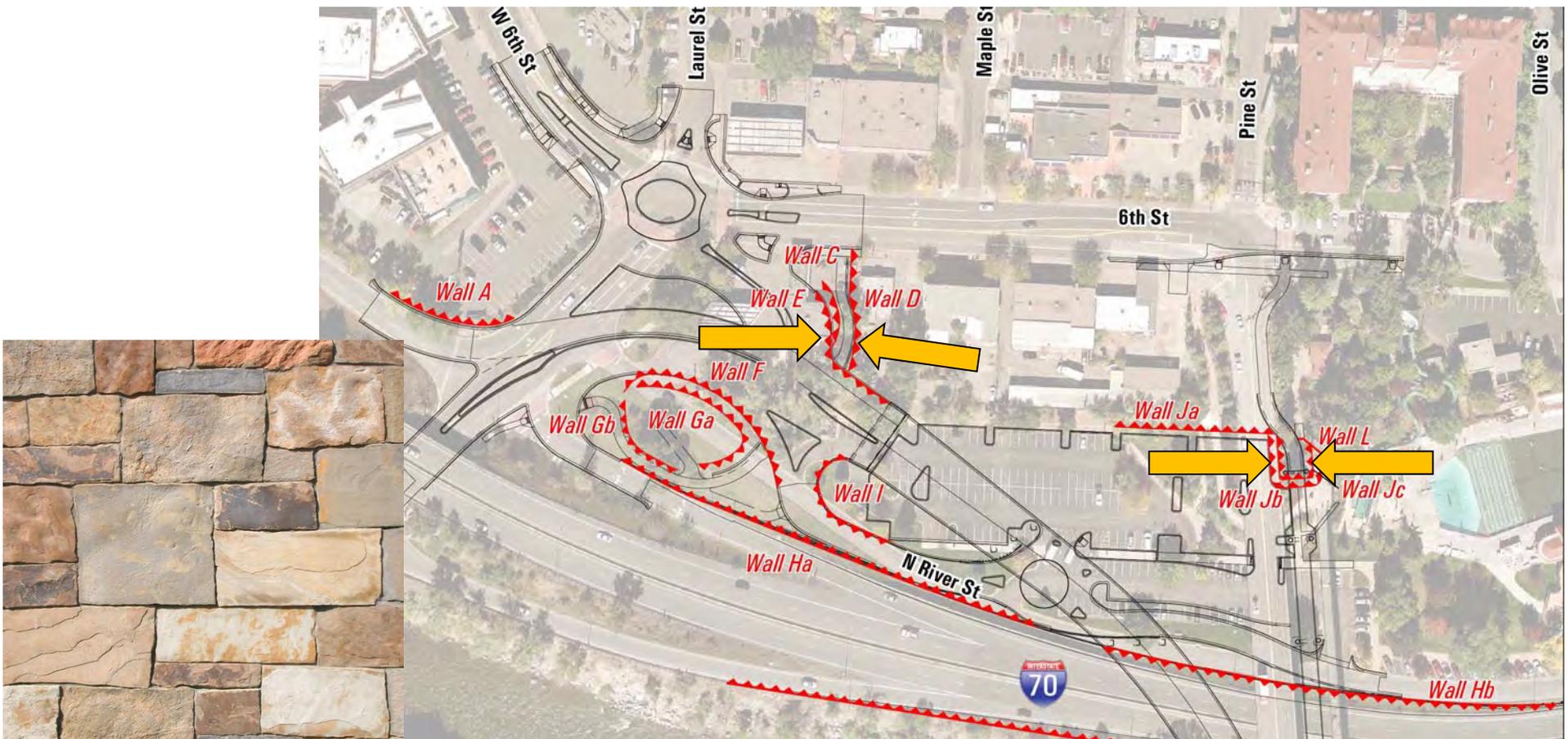
■ Stone Wall Options

- Colorado Rose Ashlar Pattern



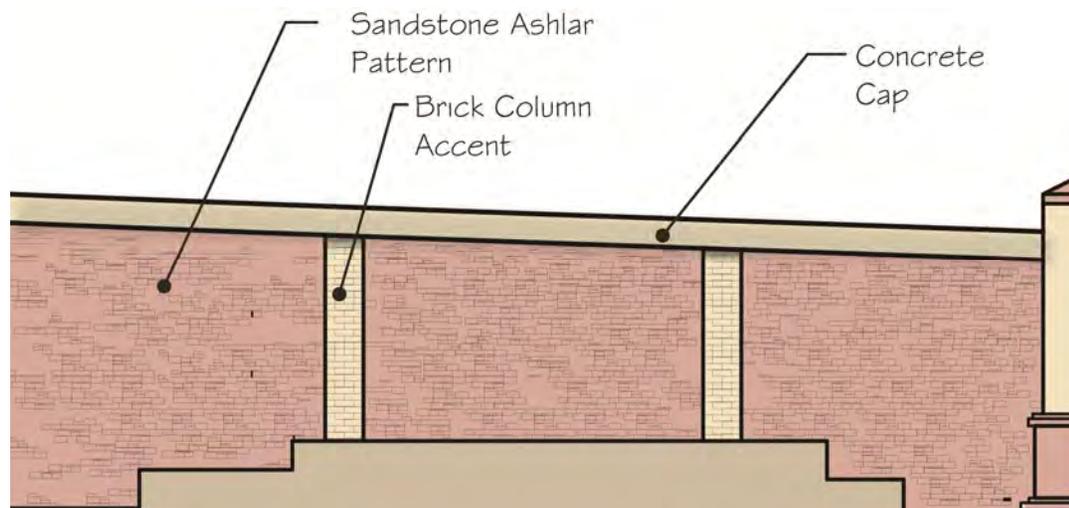
■ Stone Wall Options

- Forest Blend Ashlar Pattern



■ Stone Wall Options

- Colorado Rose Ashlar with
Basilica Brick



- Complete final design of urban design and aesthetic elements following today's input
- Public hearing tonight (5:00pm to 8:00pm, Glenwood Springs Elementary School):
 - Present findings of Environmental Assessment (EA) and obtain public comments
 - Present recent aesthetic and urban design
- Decision document will address public comments on the EA, which completes the National Environmental Policy Act (NEPA) process.
- Decision document and final design scheduled to be complete by early spring
- Construction start anticipated late 2015



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Design Elements Issue Task Force

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