



## I-94 REHABILITATION PROJECT

# CORRIDOR DESIGN GUIDELINES



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## CORRIDOR DESIGN GUIDELINES

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CORRIDOR DESIGN GUIDELINES



# 1 INTRODUCTION



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## CORRIDOR DESIGN GUIDELINES

### Mission Statement

Create a well-designed reconstructed I-94 Corridor that reflects the City of Detroit's world-shaping transportation legacy and enhances the lives of residents and travelers by improving their mobility and safety thereby providing a sense of well-being and community.

### Project Goals

**Goal 1: Safety**

Safely accommodate all modes of transportation including drivers, transit users, pedestrians and bicyclists.

**Goal 2: Ease of Use**

Employ a system of new and existing cues that enables residents and visitors to readily navigate the corridor.

**Goal 3: Visual Quality**

Create a positive visual experience for both residents and travelers through the innovative use of high quality and affordable materials and providing landscaping in areas such as the Woodbridge Historic District and along the Service Drives.

**Goal 4: Community Identity**

Create a corridor that reflects Detroit's rich cultural heritage and signals that Detroit has embarked upon a new era of optimism and rebuilding.

**Goal 5: Neighborhood Connections**

Provide safe and convenient connections through neighborhood and community bridge crossings with amenities and wide sidewalks, the replacement of six pedestrian bridges, and the addition of sidewalks along the service drives.

**Goal 6: Noise**

Reduce the adverse effects of noise with innovative noise walls and retaining walls.

**Goal 7: Stormwater Management**

Enhance control measures and treat stormwater to effectively reduce polluting discharges into the Detroit River and the Great Lakes.

**Goal 8: Cost and Maintenance**

Develop a strategy to fund and maintain amenities and enhancements.

**Goal 9: Minimum Disruption during Construction**

Access to homes and businesses is maintained at all times during construction.

## CORRIDOR DESIGN GUIDELINES

## Design Themes

Four themes emerged from two CSS Workshops held in 2004 that were further explored and influence the development of the freeway design elements in these Guidelines.

## 1 Detroit — The City of Firsts, Historical Transportation

The automobile, an instrument of mobility, changed the fundamental patterns of society – where we live, how we move – for work and for play.

Technological innovations like the assembly line enabled the mass production of automobiles and made them affordable.

The industry impacted Detroit's architecture and roadway system with forms derived from a new and progressive industrial age.

### Freeway Design Implications

Innovative freeway design with cohesive and standardized architectural forms for bridges and piers that are functional and cost effective.



## 2 Detroit's Great Lakes Connections

The city was settled at the confluence of a river between Lakes Huron and Erie. "Detroit" is French for "straights" or "channel." This location was easily defended and had a hospitable climate and fertile land. It also facilitated travel and shipping. But urban development and industrialization have changed it.

The Great Lakes continue to provide a sense of place and are a valued natural and human resource.

### Freeway Design Implications

Landscaping and stormwater treatments that increase water retention, reduce runoff and capture pollutants, yielding a healthy and ecologically diverse roadside.



## CORRIDOR DESIGN GUIDELINES

Design Themes  
*continued***3 Terminus of the  
Underground Railroad**

Detroit was known as the “Midnight Station” and the last stop before reaching “Canaan Land” or freedom, in Canada. Michigan prohibited slavery and abolitionists assisted escaping slaves through a series of codes and signs about safe routes. A lantern or quilt hung outside a residence signified safety. The Big Dipper and the North Star provided orientation and guidance.

**Freeway Design Implications**

Navigation and symbolic wayfinding through treatment of bridges that are gateways and connect neighborhoods; appropriate and distinctive lighting; and design motifs that reflect the city’s cultural identity.

**4 Detroit —City of  
Modern Music**

Detroit not only builds cars and companies, but sounds that have revolutionized music. Motown is an icon known around the world, but Detroit has influenced other genres including hip-hop, jazz, blues and gospel. The music scene reflects the struggle, diversity, reality and triumph of people living in the oldest city in the Midwest.

**Freeway Design Implications**

Apply the spirit of music to the linear spatial progression of the freeway corridor, especially focusing upon surface texture and color for retaining walls and bridge abutments.

**Interpretation of the  
Design Themes**

Detroit is all of these things – its past influences the present and also its future. The city aims to continue to be a leader in automotive technology. New musical forms will emerge through the resilience and creativity of its people. The African-American community along with new immigrants from around the world will continue to give the city its vitality and vibe. Its physical location on the Great Lakes, which was the reason for its settlement, gives Detroit its character as a city on the water and an international port.

The four themes encompass Detroit’s identity and for this reason, the designs expressed in the following pages touch upon all of them.

CORRIDOR DESIGN GUIDELINES

**94** **MDOT**  
Michigan Department of Transportation

## I-94 REHABILITATION PROJECT

The central aerial map shows the I-94 corridor through Detroit, Michigan. Key locations and streets are labeled: GRAND RIVER AVENUE, GRAND RIVER AVENUE, WOODBRIDGE HISTORIC DISTRICT, ROSA PARKS BOULEVARD, CASS AVENUE, SECOND STREET, NEW CENTER DISTRICT, TECH TOWN, WAYNE STATE UNIVERSITY CAMPUS, CASS AVENUE NW CORNER, CASS AVENUE NE CORNER, E FERRY STREET HISTORIC DISTRICT, CULTURAL CENTER HISTORIC DISTRICT, WOODWARD AVENUE, E GRAND BOULEVARD, and GRAND BOULEVARD. Highway shields for I-94, I-75, and M-10 are also visible.

**RAILROAD BRIDGES WESTBOUND**

**NEIGHBORHOOD CONNECTOR BRIDGE CASS AVENUE**

**COMMUNITY CONNECTOR BRIDGE FROM CORRIDOR WESTBOUND AT WOODWARD AVENUE**

**CORRIDOR INTERCHANGE WESTBOUND**

**NEIGHBORHOOD CONNECTOR BRIDGE ROSA PARKS BOULEVARD**

**NEIGHBORHOOD CONNECTOR BRIDGE CASS AVENUE NW CORNER**

**NEIGHBORHOOD CONNECTOR BRIDGE CASS AVENUE NE CORNER**

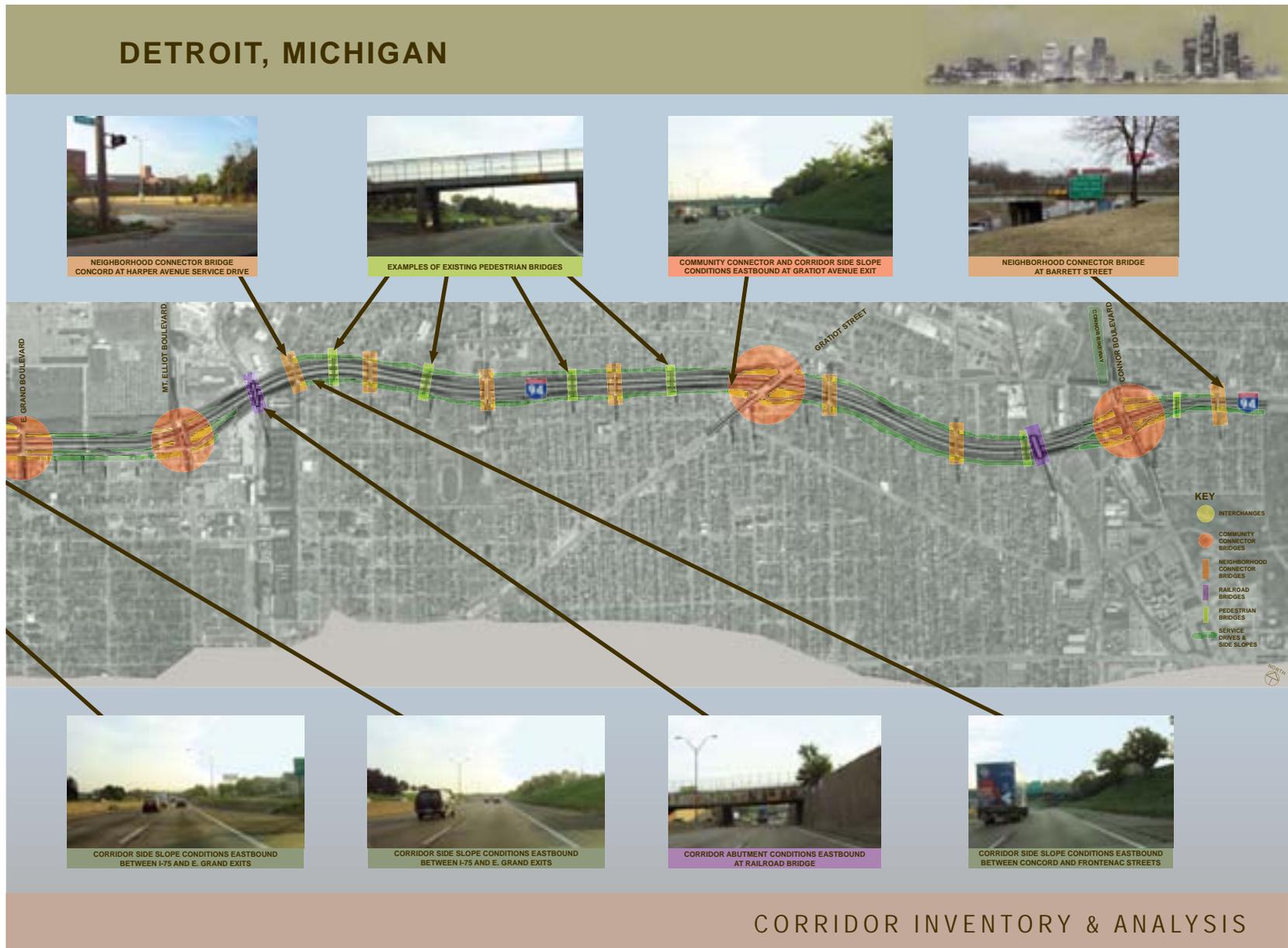
**EXAMPLE OF SERVICE DRIVE NEAR BEAUBIEN STREET**

**CH2MHILL** **HNTB**

NOVEMBER 13, 2008

HNTB FILE: I-94\_36080.mxd November 7, 2008

# CORRIDOR DESIGN GUIDELINES



CORRIDOR DESIGN GUIDELINES



## 2 CONCEPTUAL DESIGN

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Note: The ornamental lights adjoining the street have been moved to the bridge parapet. See Design Elements, pg. 28.

**CONCEPTUAL DESIGN — OVERHEAD VIEW OF NEIGHBORHOOD CONNECTOR BRIDGE PASSING OVER I-94 MAINLINE**

Existing Conditions



Cass Street bridge view to Tech Town



Cass Street bridge



Rendering of Service Drive treatment with railing and landscaping

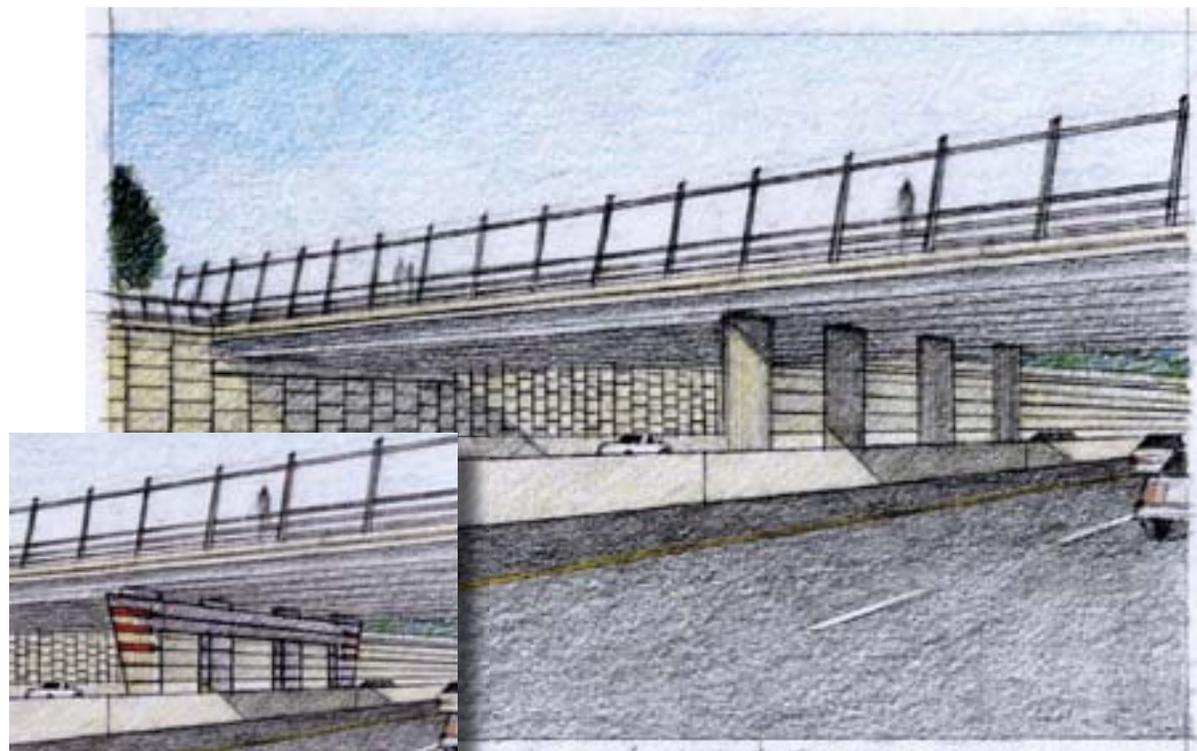


Rendering of Service Drive treatment with noise wall and landscaping



Cass Street at I-94 Mainline - NW corner

CORRIDOR DESIGN GUIDELINES



**CONCEPTUAL DESIGNS — COMMUNITY CONNECTOR BRIDGE  
VIEWED FROM THE I-94 MAINLINE**



Wire mesh fencing



Railing option and sculptural piers

Existing Conditions



Community Connector Bridge  
at Beaubien Street



Railroad bridge crossing with  
retaining walls



Rosa Parks Boulevard

# CORRIDOR DESIGN GUIDELINES



Note: The barrier between the sidewalk and the roadway has been removed, and the lights are now mounted on the bridge parapet. See Design Elements, pg. 28.

## CONCEPTUAL DESIGNS — BRIDGE DECK VIEW OF COMMUNITY CONNECTOR BRIDGE OVER I-94 MAINLINE



Wide Sidewalk with Mesh Fencing



Wide Sidewalk with Protective Barrier



Wide Sidewalk, Protective Barrier and Railing

### Existing Conditions



Bridge Crossing with narrow sidewalk



Community Connector Bridge across Connor Avenue

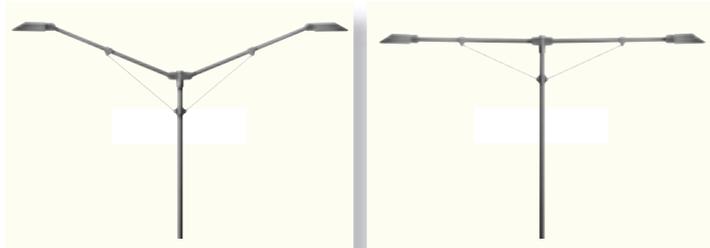


Service Drives present landscape opportunities

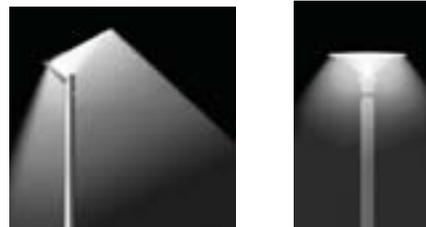
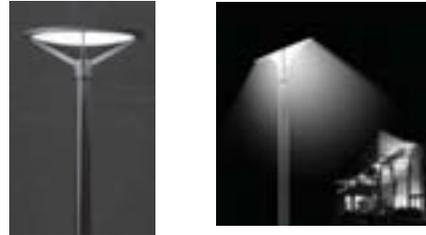
# CORRIDOR DESIGN GUIDELINES

## CONCEPTUAL DESIGNS — OTHER ELEMENTS

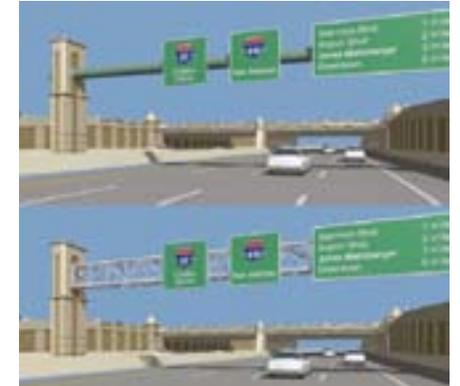
Note: These are preliminary examples; current design alternatives are shown in the Design Elements section that follows.



FREEWAY LIGHTING



BRIDGE LIGHTING



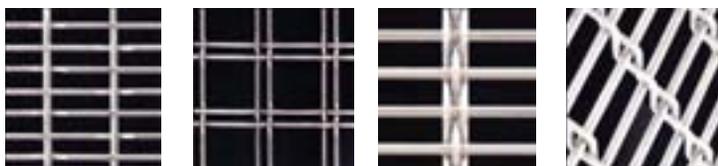
SIGNAGE



MSE WALLS



PAVING TREATMENTS

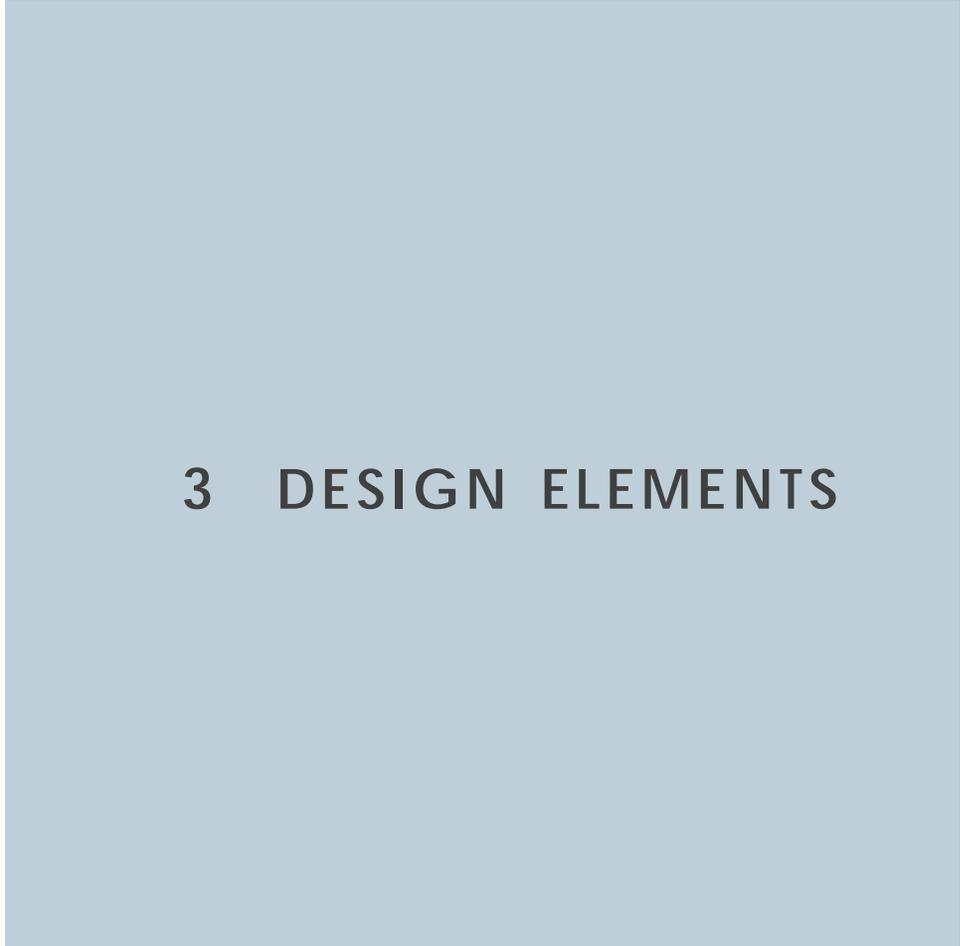


RAILING – WIRE FABRIC INFILL



LANDSCAPING

CORRIDOR DESIGN GUIDELINES



**3 DESIGN ELEMENTS**

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## CORRIDOR DESIGN GUIDELINES

This chapter addressing Design Elements is organized into three main sections:

- Neighborhood Connector Bridges
- Community Connector Bridges
- Interchange Ramps

Within each section, design alternatives are presented for specific freeway elements including:

- bridge piers
- cast in place and/or MSE retaining walls
- noise walls
- interchange ramp piers
- lighting fixtures
- railings

### Design Alternatives

The Guidelines present **three families of design alternatives for freeway elements**:

1. **Fin Alternative**
2. **Classical Arch Alternative**
3. **Barrel Arch Alternative**

Common to all three alternatives are pedestrian lighting fixtures and stainless steel or painted steel mesh railings that are light and visually transparent.

It is expected that during the final design phase, the design alternative chosen from those above will undergo further refinement and be adapted to specific site conditions.

### Color Palettes

Color palettes are suggested for the elements of each alternative. The warm, neutral-tone colors are compatible with other colors currently used in the corridor and are interchangeable among the alternatives.

### Conceptual Landscape Design Approach

Landscape Prototypes are illustrated for the mainline corridor, interchanges, bridges and service drives and a plant list and photo gallery of plant images are provided. Typical plantings are shown for different corridor conditions.

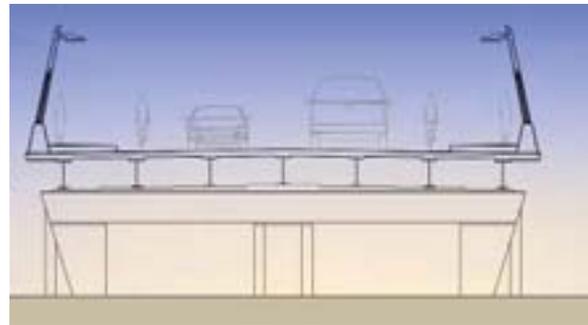
## CORRIDOR DESIGN GUIDELINES

Descriptions of the three families of Design Elements follow.

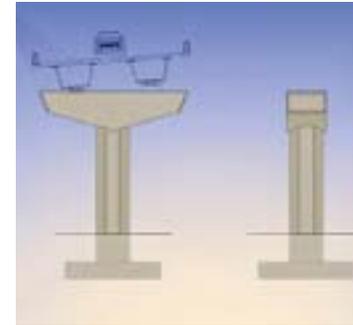
**1** The **Fin Alternative** features a geometric and angular pier configuration with clean, simple lines that is a contemporary reinterpretation of Post-WWII octagonal freeway piers.

This alternative is matched with the Constellation Wall Pattern for the cast-in-place and/or MSE panel retaining walls and noise walls. The abstract, organic pattern is drawn from celestial imagery and the North Star and the incised spiraling forms have great forward movement and energy.

The Fin Pier Ramp completes this family of compatible elements.



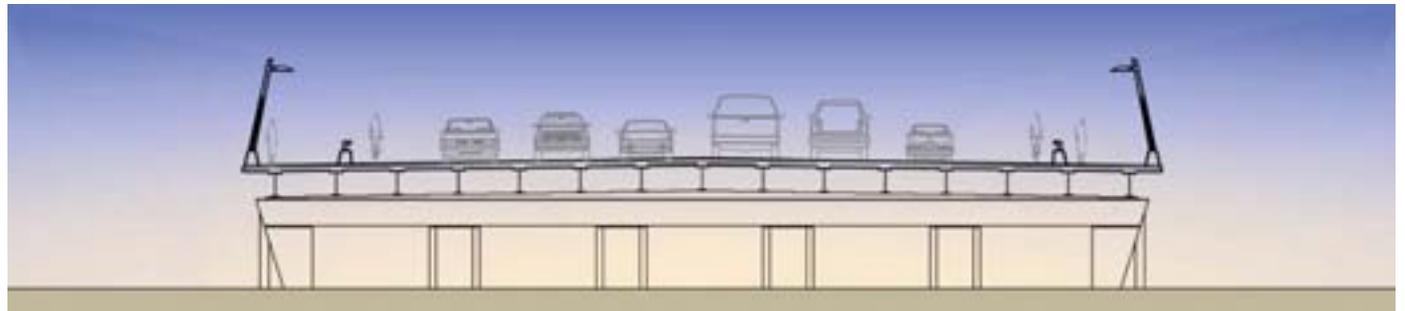
Fin Neighborhood Bridge



Fin Ramp Pier



Fin Pier Illustration



Fin Community Bridge



Fin Alternative with Constellation Pattern Wall

**DESIGN ALTERNATIVE — FIN FAMILY**

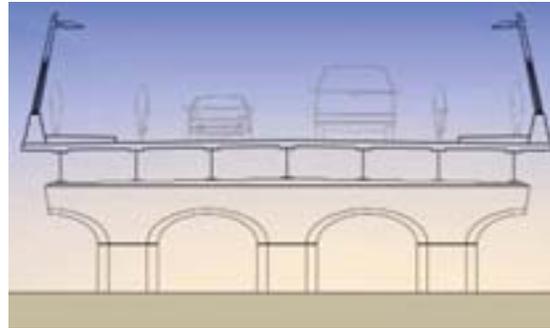
Introduction to Design Elements

CORRIDOR DESIGN GUIDELINES

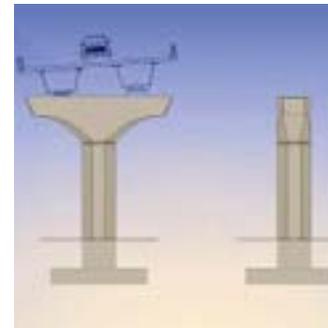
**2** The **Classical Arch Alternative** includes an arch pared down to its essential form combined with octagonal piers.

This arch is paired with the Textile Wall Pattern, an abstract geometric pattern inspired by famous African-American quilts. The pattern has a high-relief texture and repeats in a syncopated rhythm with a wave-like flow.

The Shallow Arch Ramp Pier is most compatible with the Classical Arch.



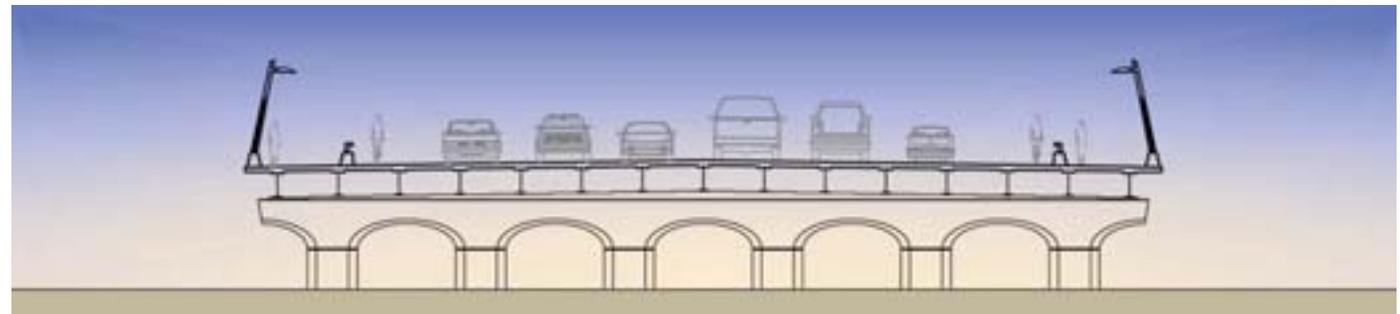
Classical Arch Neighborhood Bridge



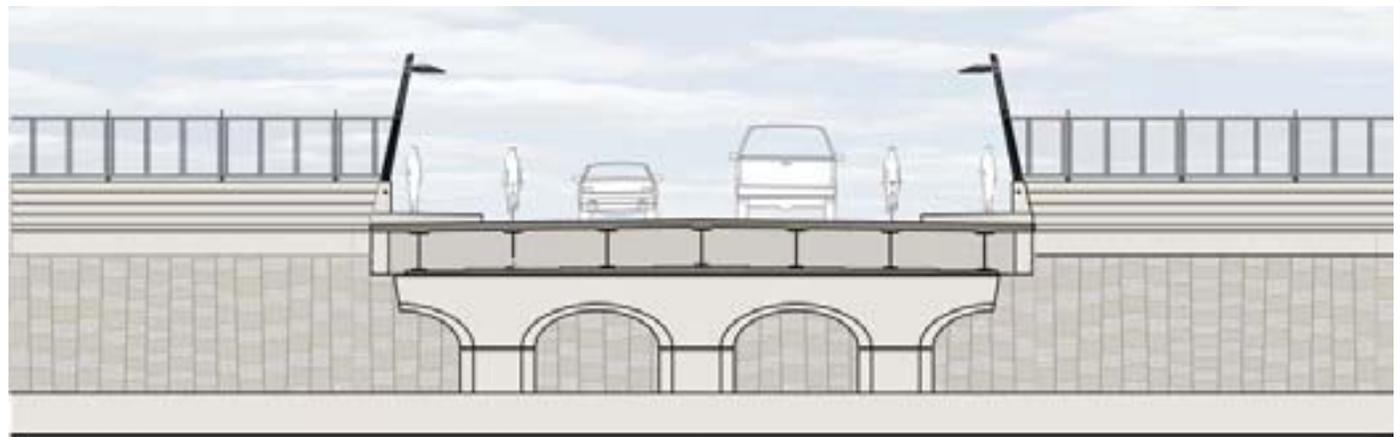
Shallow Arch Ramp Pier



Classical Arch Illustration



Classical Arch Community Bridge



Classical Arch Alternative with Textile Pattern Wall

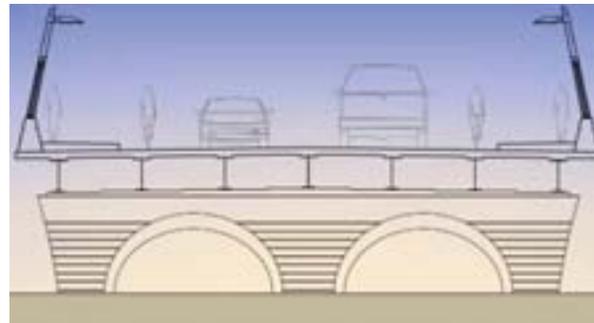
**DESIGN ALTERNATIVE — CLASSICAL ARCH FAMILY**

CORRIDOR DESIGN GUIDELINES

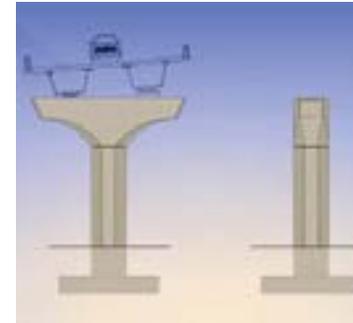
**3** The **Barrel Arch Alternative** includes stout and sculpted full-radius arches with incised “V” cut horizontal bands that are also repeated on the outside face of the bridge parapets.

This arch is most compatible with the Textile Wall Pattern and the Shallow Arch Pier Ramp.

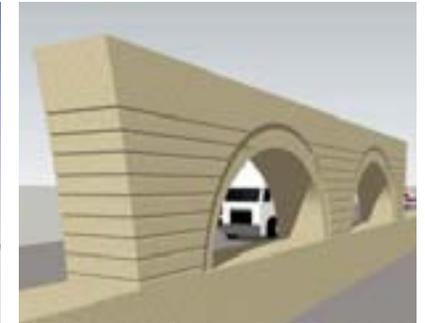
The Design Alternatives are set forth in detail according to Neighborhood Connector Bridge, Community Connector Bridge and Interchange Pier sections in the pages that follow.



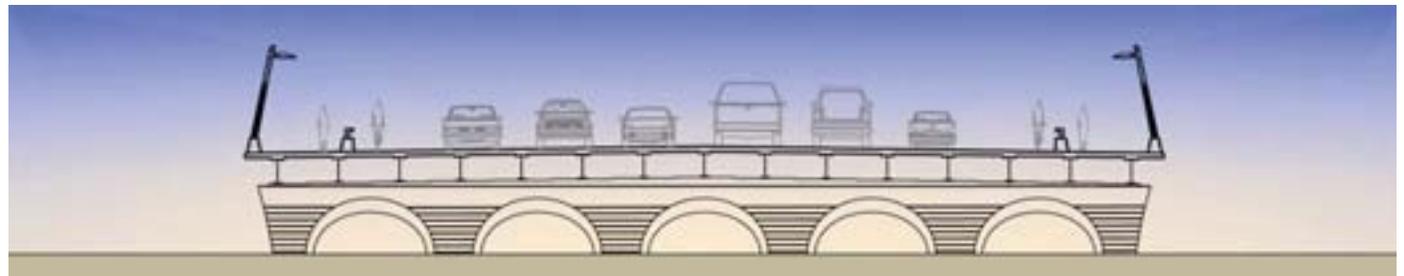
Barrel Arch Neighborhood Bridge



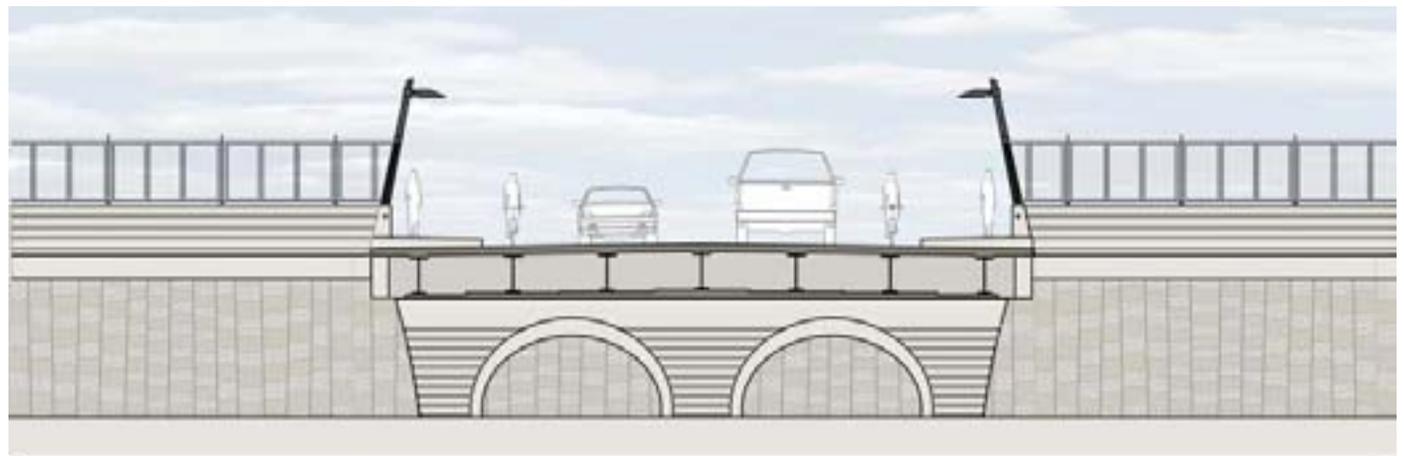
Shallow Arch Ramp Pier



Barrel Arch Pier Illustration



Barrel Arch Community Bridge



Barrel Arch Alternative with Textile Pattern Wall

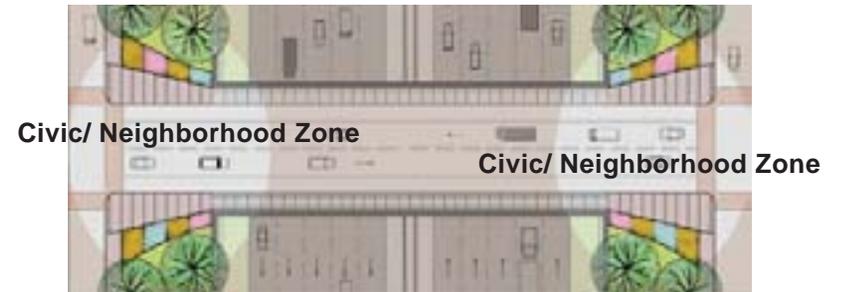
**DESIGN ALTERNATIVE — BARREL ARCH FAMILY**

CORRIDOR DESIGN GUIDELINES

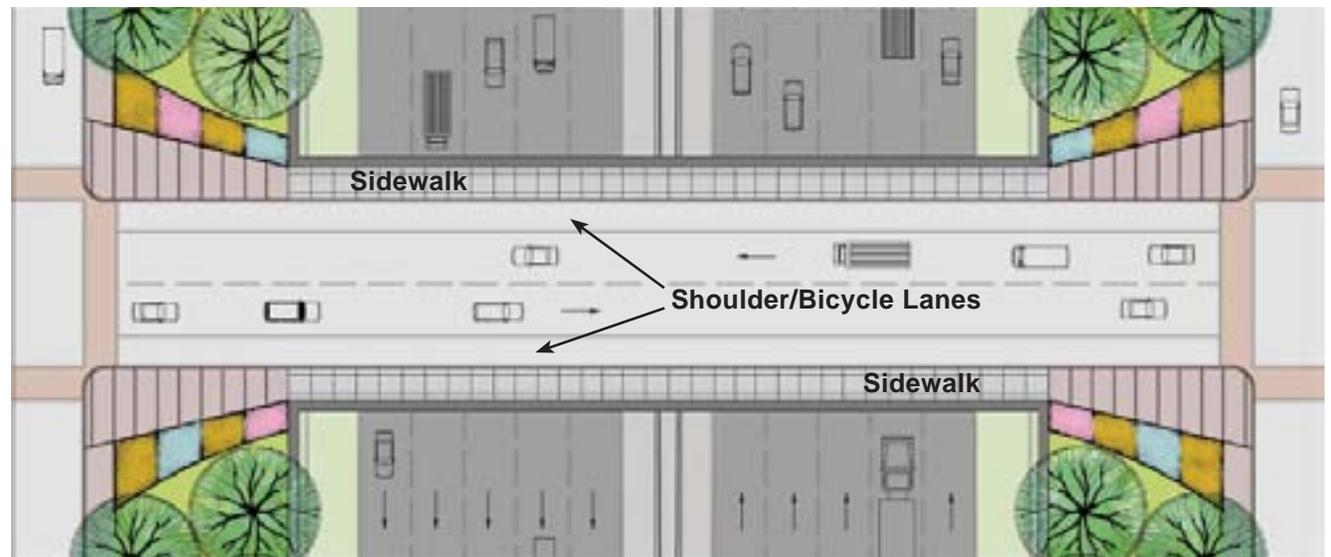
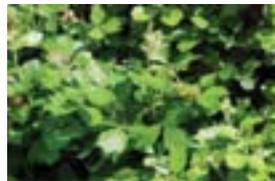
**Neighborhood Connector Bridges**

This bridge type connects local streets such as Linwood and Cass Streets and Rosa Parks Boulevard over the freeway. The bridge includes sidewalks and shoulder/bicycle lanes.

Civic/ Neighborhood Zones at the ends of the bridge present potential locations for more intensive landscaping and public art to highlight community gateways and soften the transition between the freeway and residential and commercial areas.



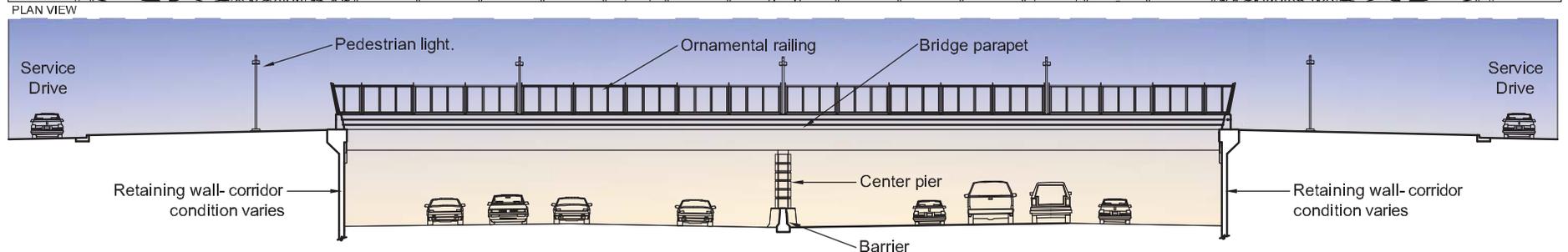
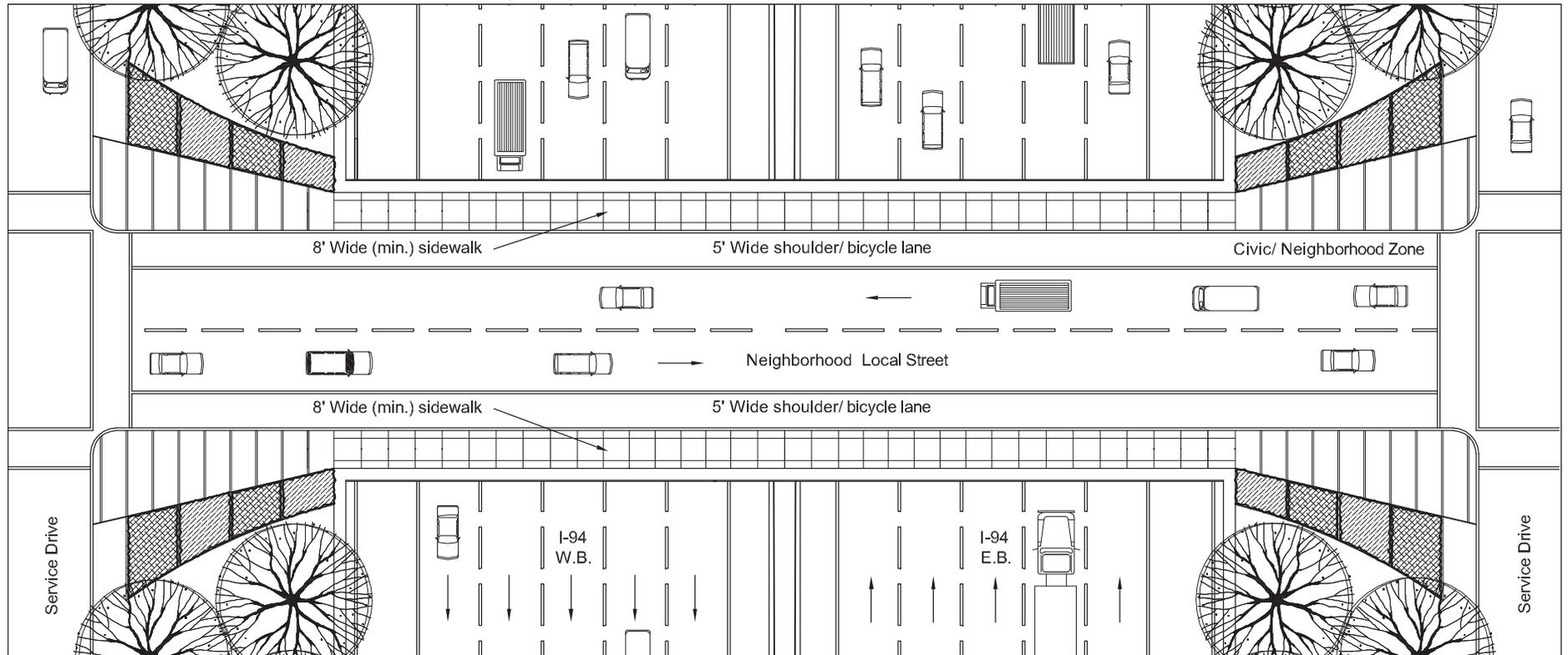
Landscaping and public art (see pg. 25) can enhance Civic/Neighborhood Zones



**INTRODUCTION**

Neighborhood Connector Bridges

# CORRIDOR DESIGN GUIDELINES

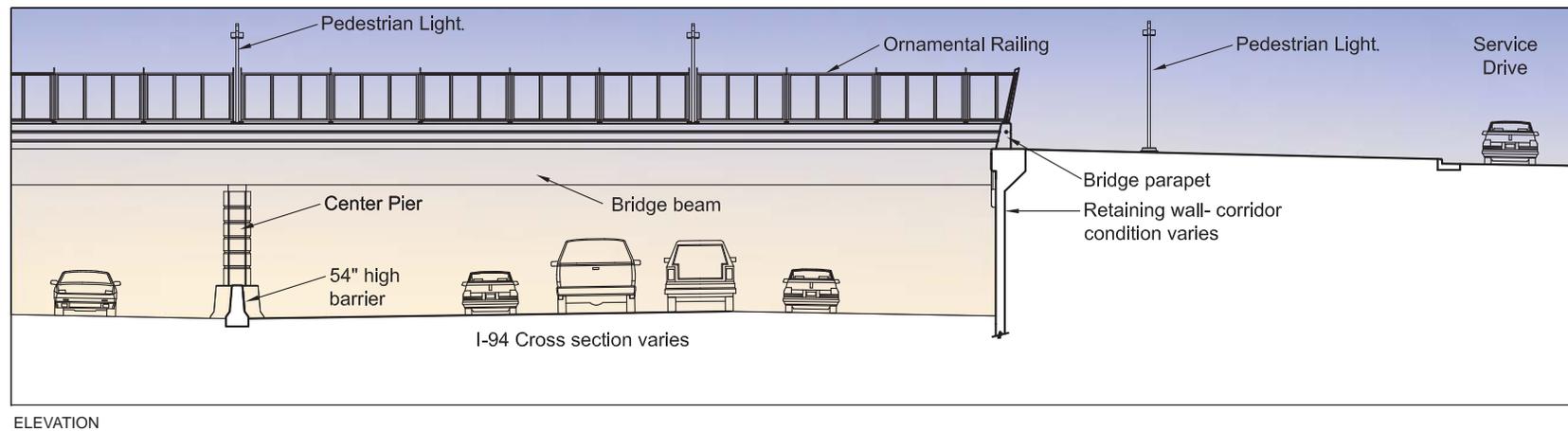
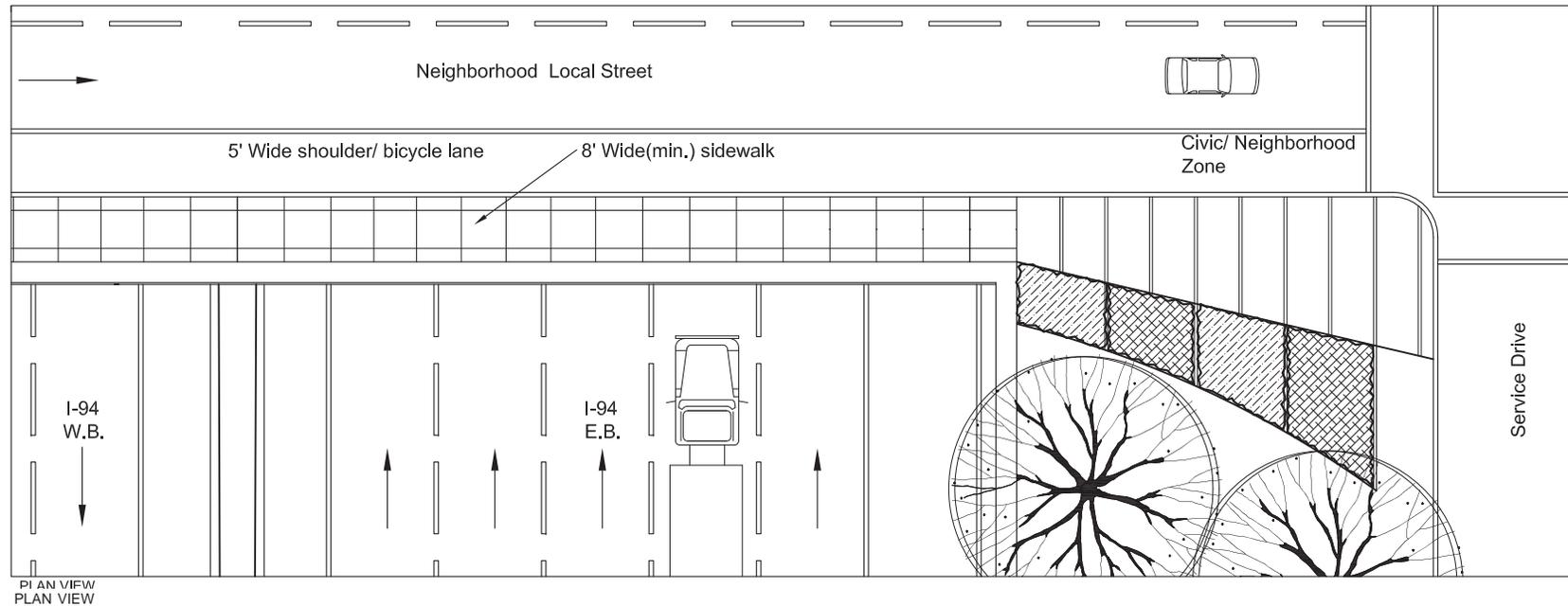


ELEVATION

## OVERALL PLAN & ELEVATION

### Neighborhood Connector Bridges

CORRIDOR DESIGN GUIDELINES



**DETAIL – PLAN & ELEVATION**

Neighborhood Connector Bridges

CORRIDOR DESIGN GUIDELINES

DRAFT 5-3-10

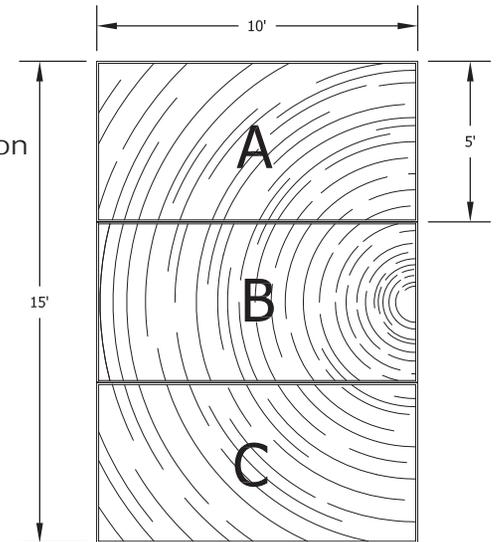
MSE Panels or Case in Place Walls

Constellation Pattern

The abstract organic pattern is drawn from celestial imagery.



Detail – Constellation Pattern



The pattern relates to the four themes:

Underground RR – orientation to the heavens and the North Star.

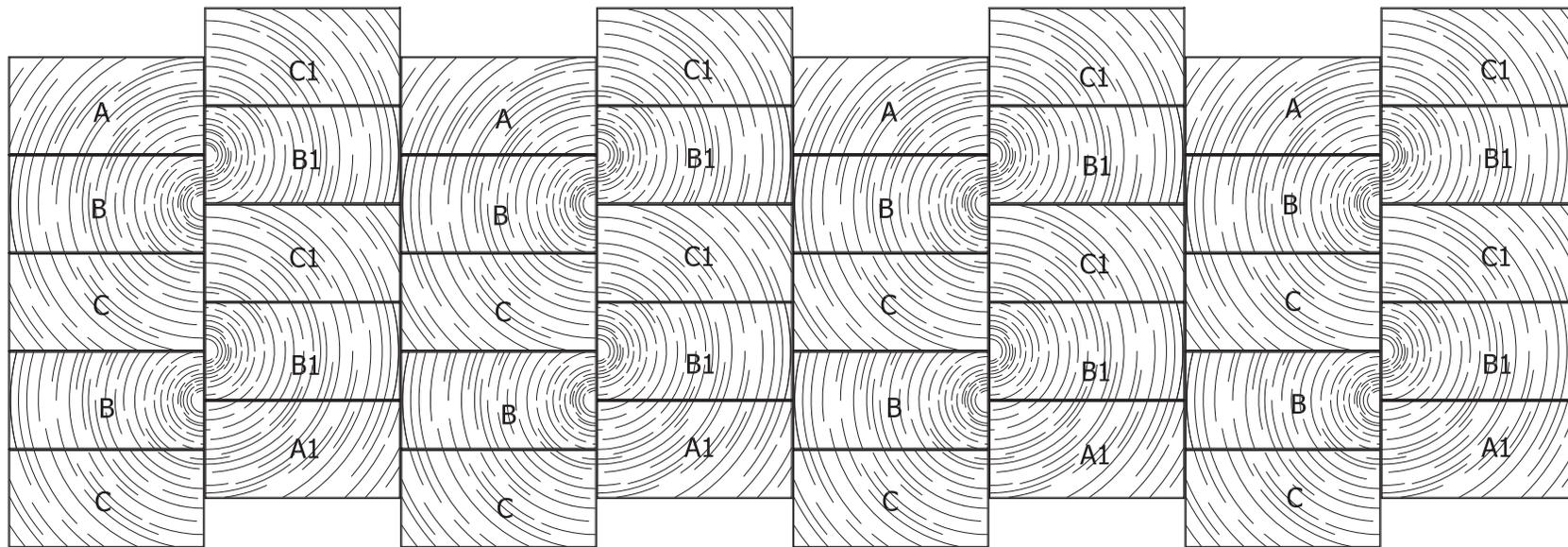
Transportation Firsts – forward momentum and movement.

Modern Music – rhythm and repetition but also improvisation.

Great Lakes – wave-like flow.

THREE PANEL BASE PATTERN - CONFIGURATION (A, B, C), EACH PANEL ROTATED 180° COUNTERCLOCKWISE (A1, B1, C1) PRODUCES OVERALL PATTERN SHOWN BELOW

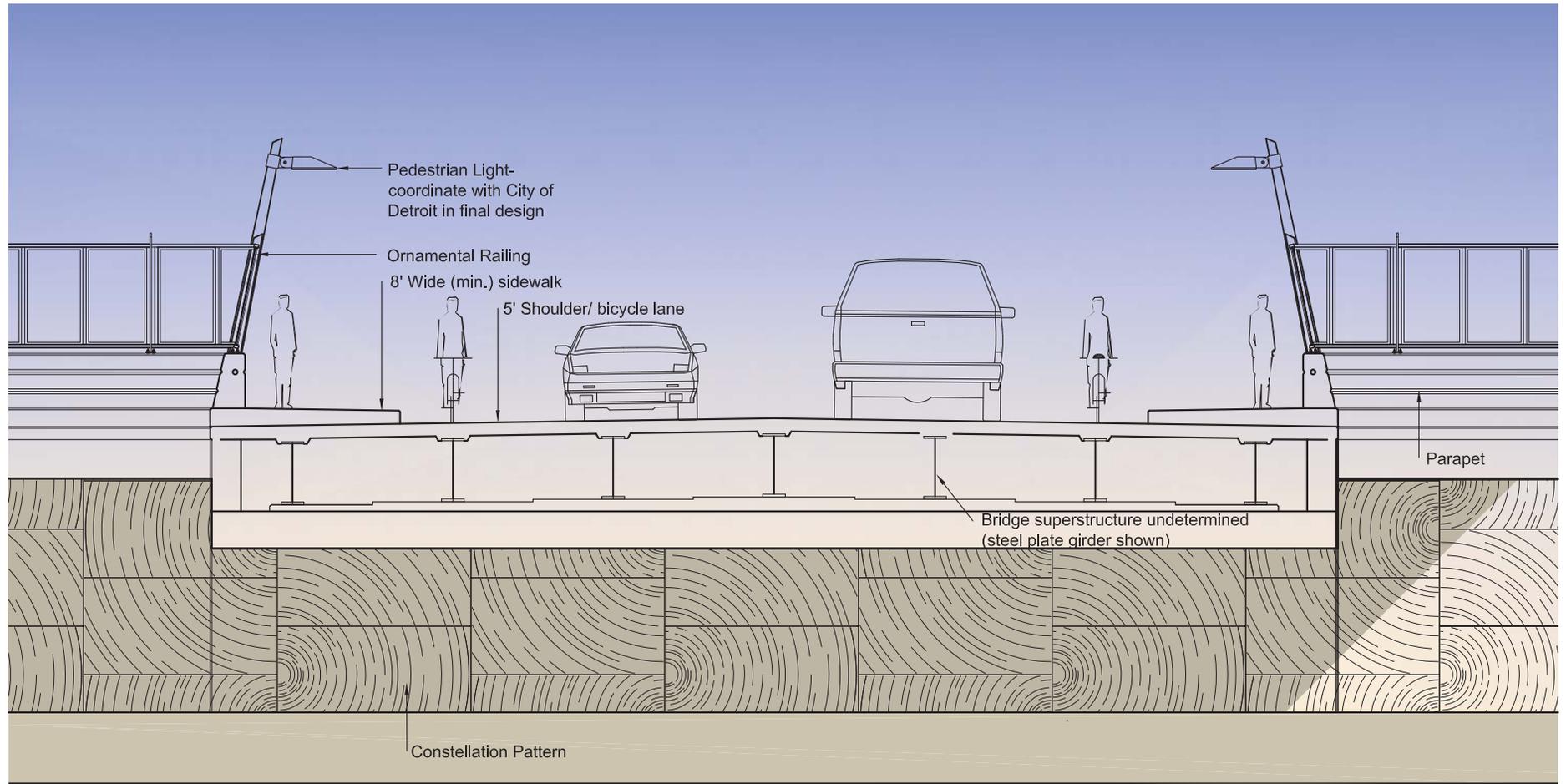
Overall Layout – Constellation Pattern



RETAINING WALL – CONSTELLATION PATTERN

Neighborhood Connector Bridges

CORRIDOR DESIGN GUIDELINES



ELEVATION

Note: Pattern for MSE panels is illustrated.  
 This pattern may be adapted to Cast in Place walls.

**ABUTMENT ELEVATION – CONSTELLATION PATTERN**

Neighborhood Connector Bridges

CORRIDOR DESIGN GUIDELINES

DRAFT 5-3-10

MSE Panels or  
Cast in Place Walls

Textile Pattern

The abstract geometric pattern is inspired by the famous quilts by the African-American women of Gees Bend, GA that have appeared on the U.S. Postal Service stamps.

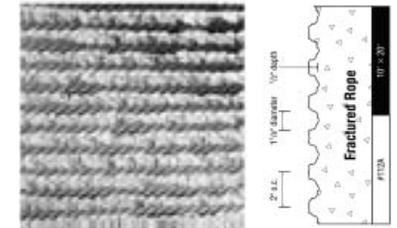
The pattern relates to the four themes:

Underground RR – quilts hung on washlines signified the pathway to safety and freedom.

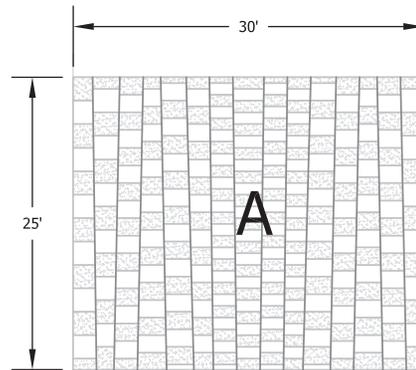
Transportation Firsts – forward movement, momentum and speed.

Modern Music – syncopation and repetition but also improvisation.

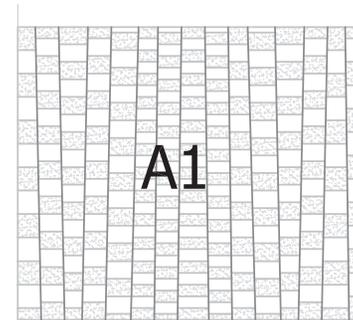
Great Lakes – ripples in water and wave-like flow.



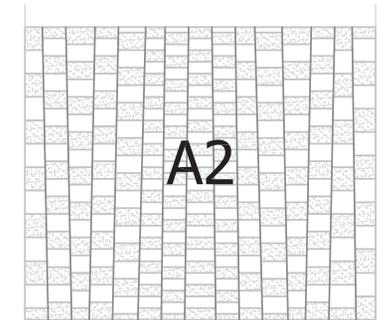
Texture Example  
Textile Pattern



BASE PATTERN

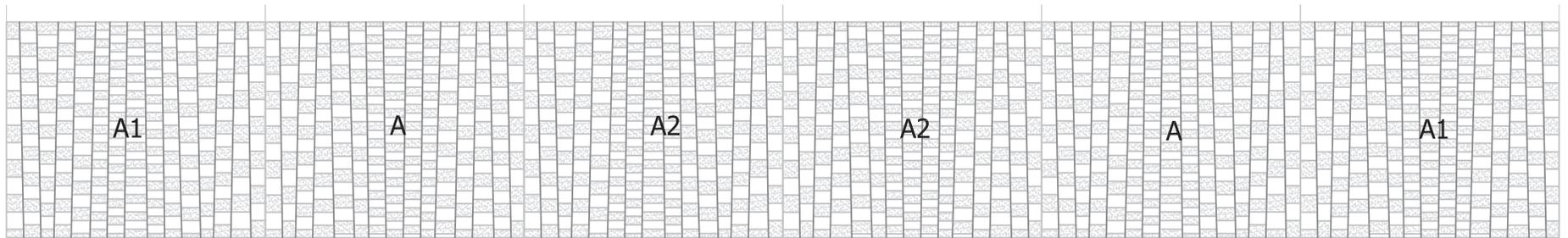


BASE PATTERN ROTATED  
180° COUNTERCLOCKWISE



BASE PATTERN ROTATED  
180° CLOCKWISE

ONE BASE PATTERN (A) - ROTATED 180° COUNTERCLOCKWISE (A1) AND CLOCKWISE (A2) AND THEN GROUPED INTO A THREE PANEL PATTERN A1- A - A2 PRODUCES THE OVERALL PATTERN SHOWN BELOW



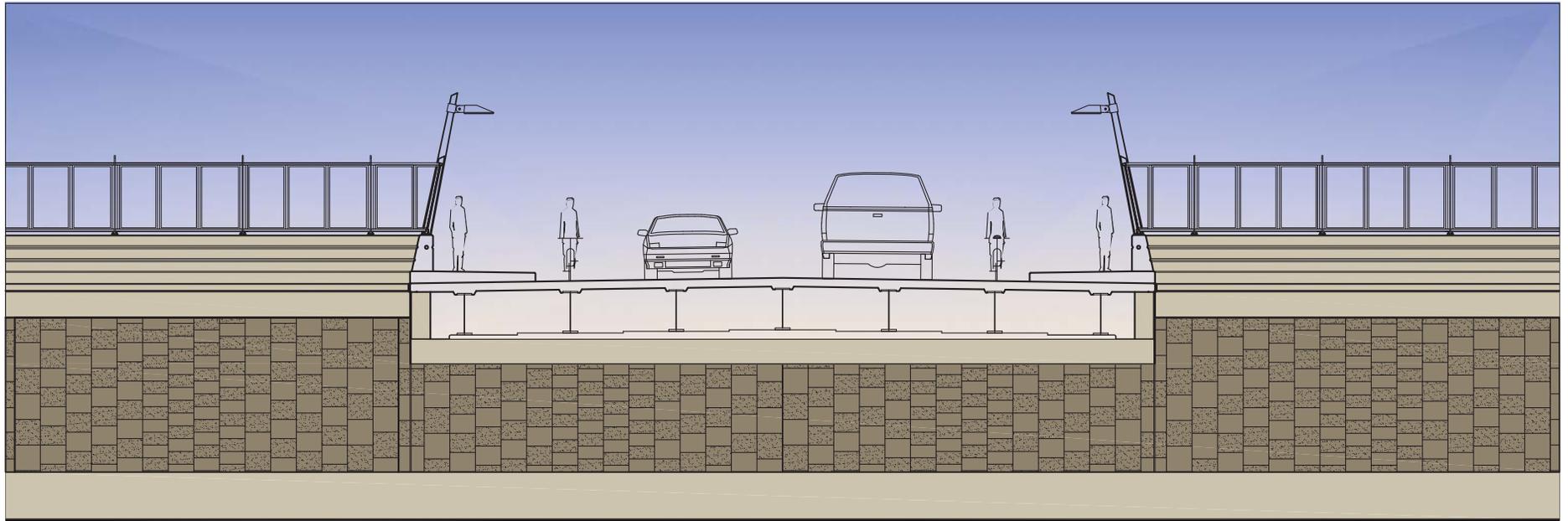
THREE PANEL PATTERN A1-A-A2

THREE PANEL PATTERN A1-A-A2  
ROTATED 180° COUNTERCLOCKWISE

RETAINING WALL – TEXTILE PATTERN

Neighborhood Connector Bridges

CORRIDOR DESIGN GUIDELINES

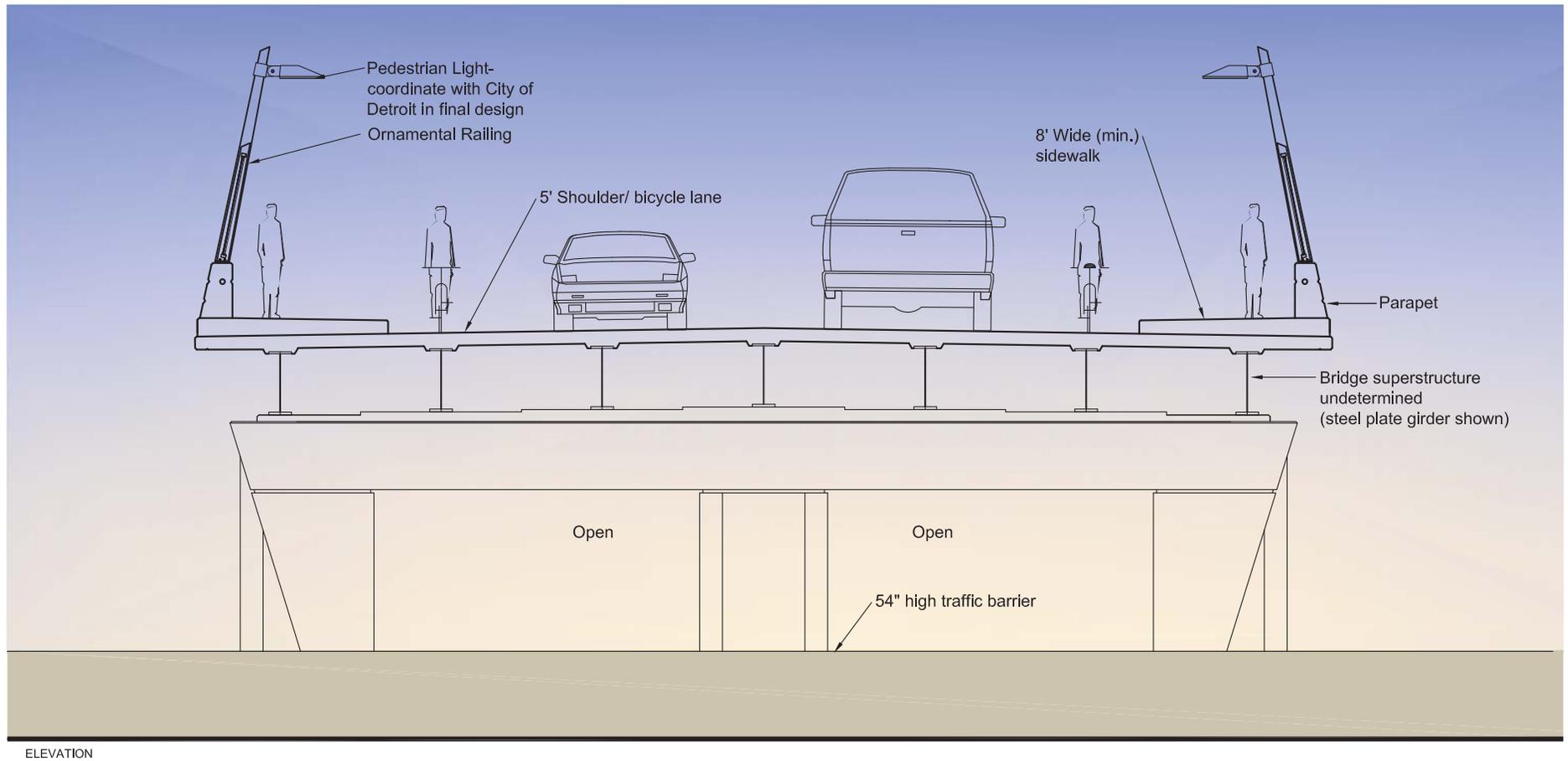
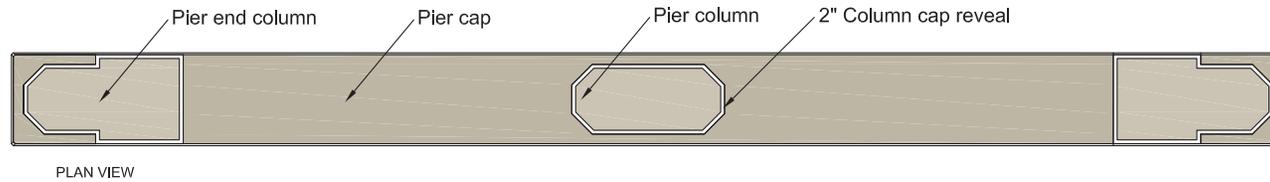


Note: Pattern for Cast in Place walls is illustrated.  
This pattern may be adapted to MSE panels.

**ABUTMENT ELEVATION – TEXTILE PATTERN**

Neighborhood Connector Bridges

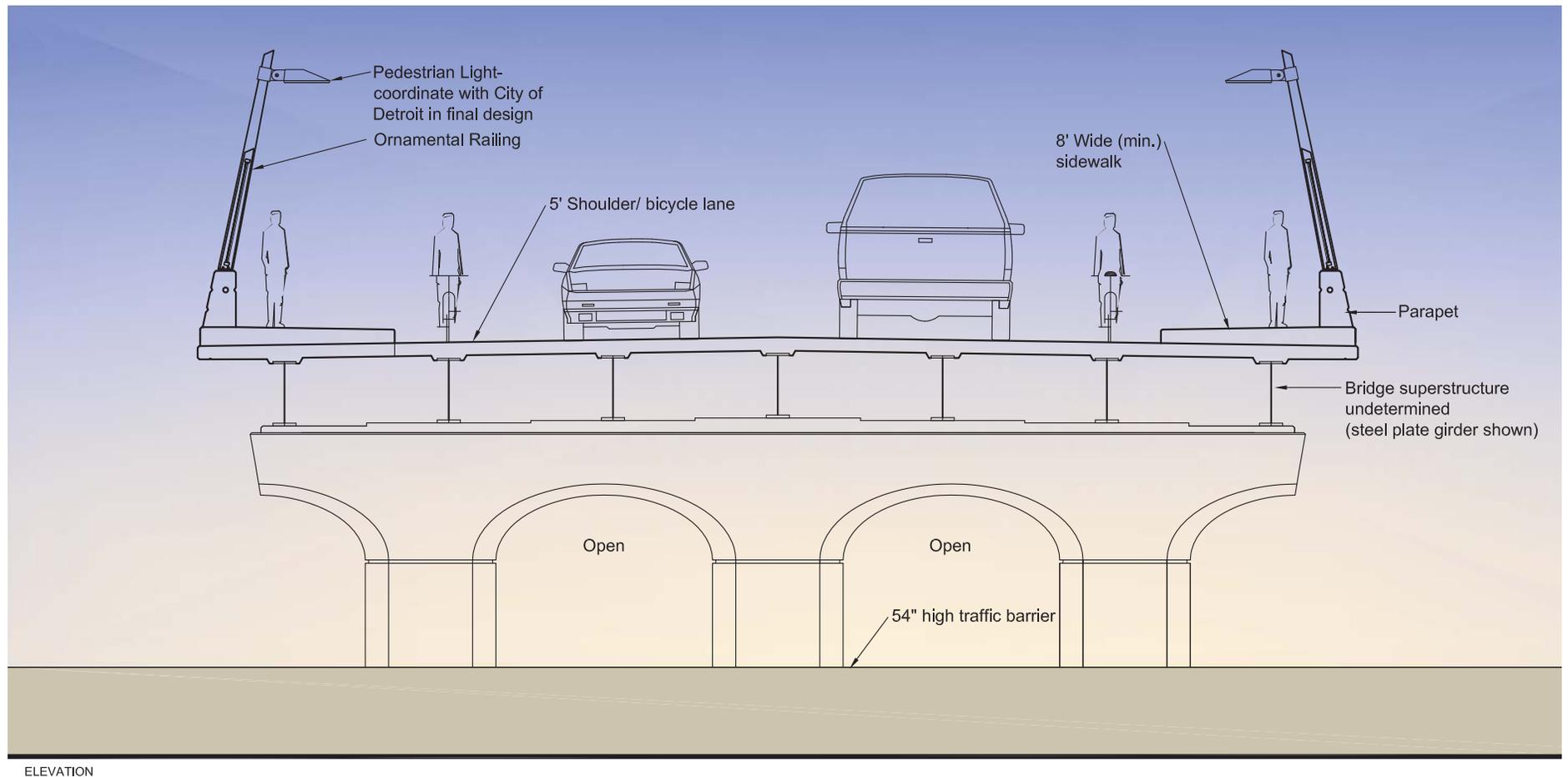
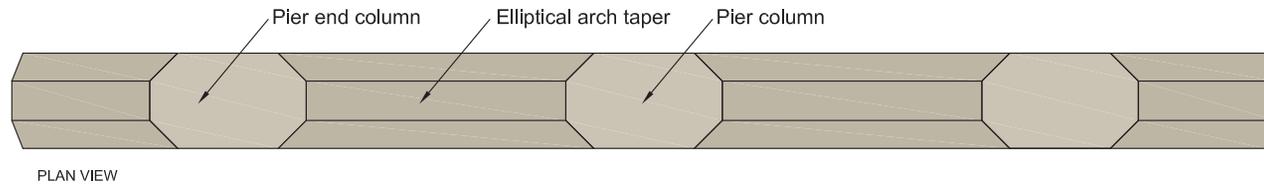
# CORRIDOR DESIGN GUIDELINES



## CENTER PIER ELEVATION – FIN ALTERNATIVE

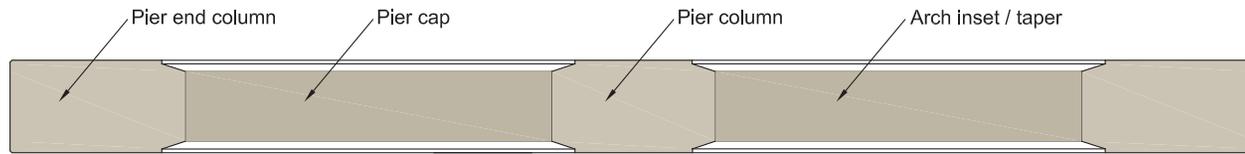
Neighborhood Connector Bridges

# CORRIDOR DESIGN GUIDELINES

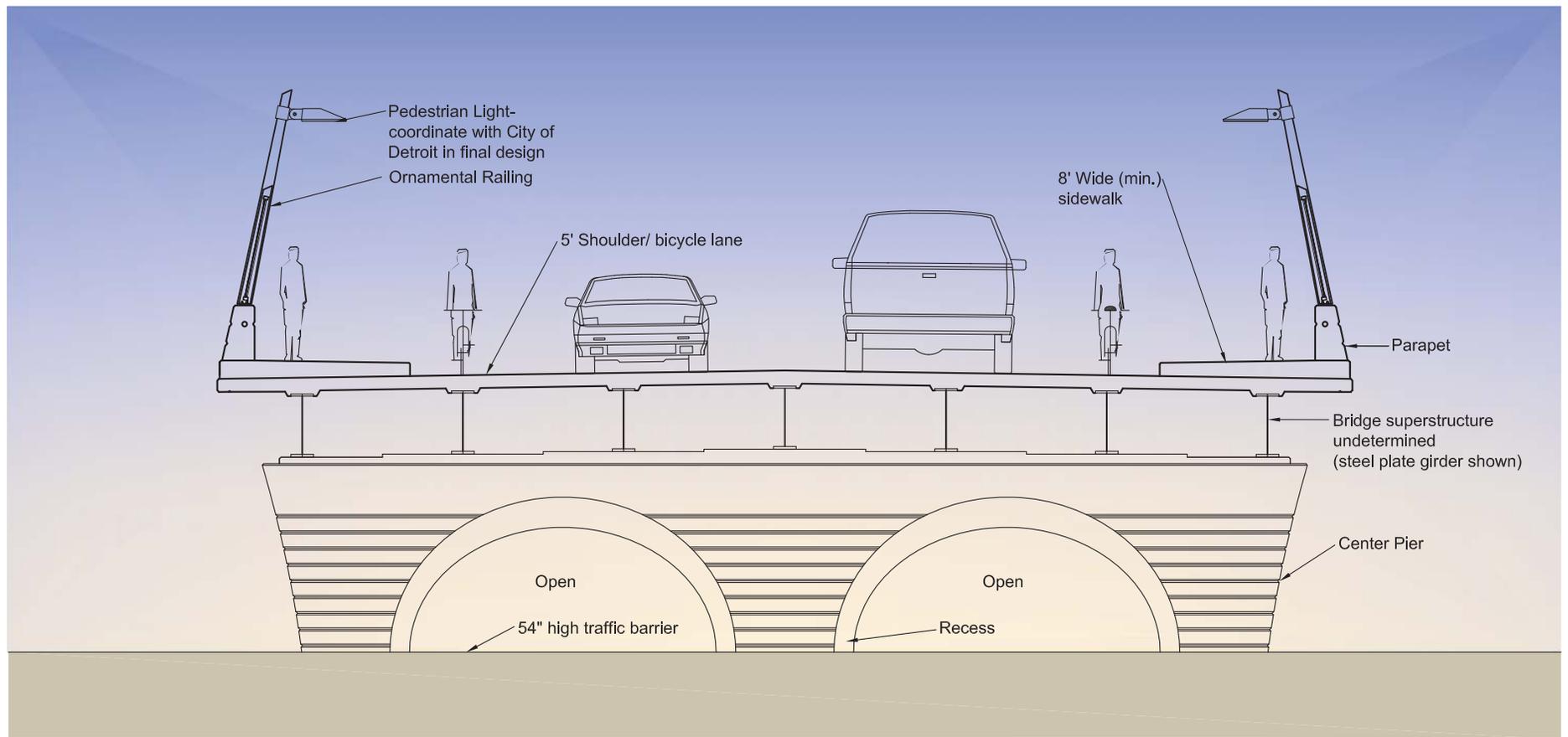


## CENTER PIER ELEVATION – CLASSICAL ARCH ALTERNATIVE

# CORRIDOR DESIGN GUIDELINES



PLAN VIEW

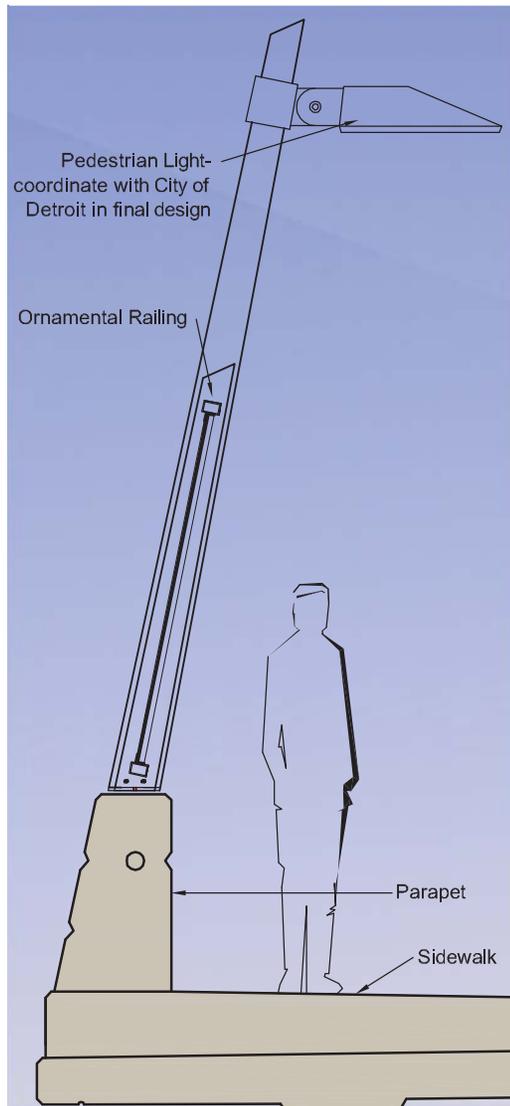


ELEVATION

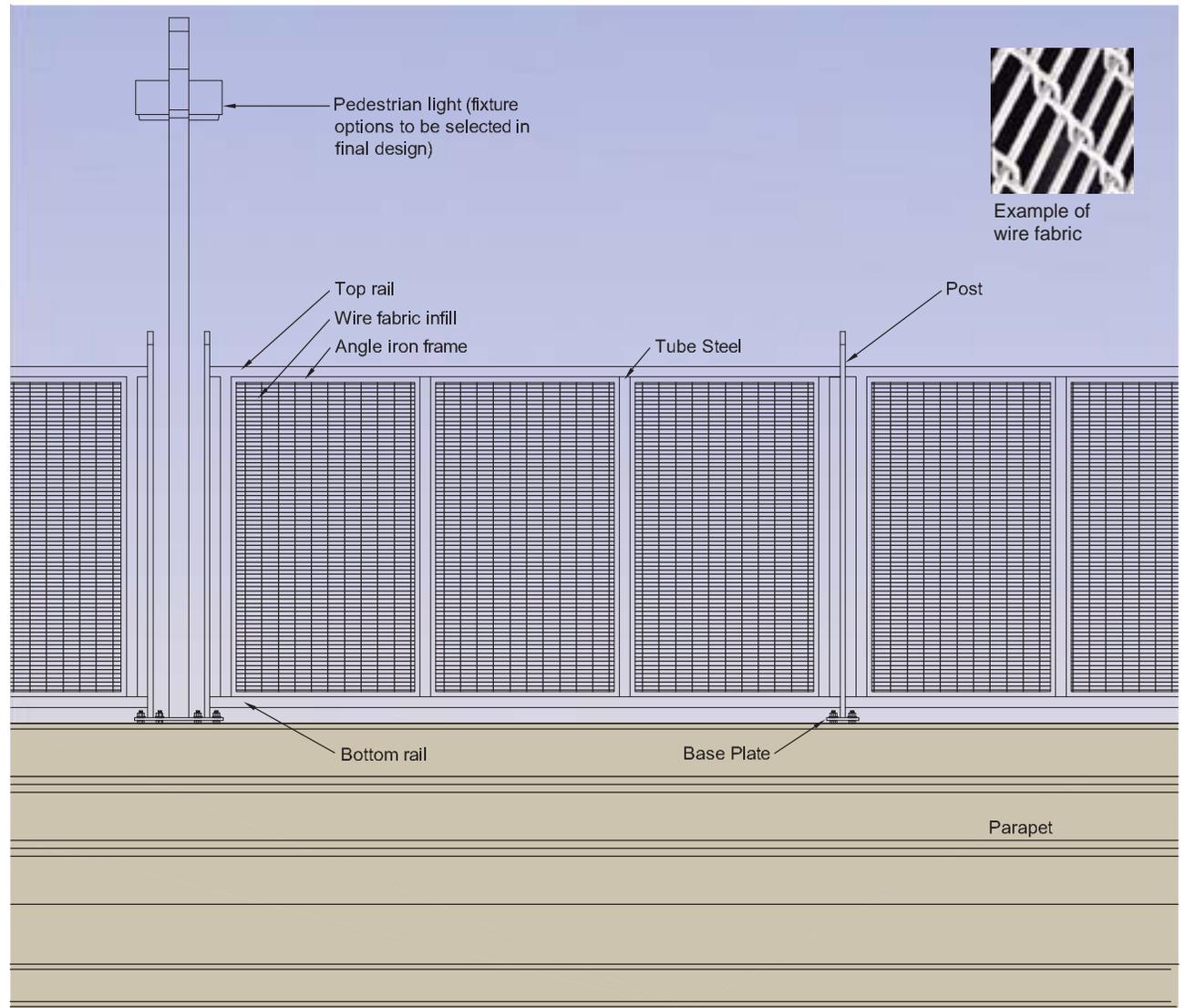
## CENTER PIER ELEVATION – BARREL ARCH ALTERNATIVE

Neighborhood Connector Bridges

# CORRIDOR DESIGN GUIDELINES



SECTION



ELEVATION FROM FREEWAY

## DETAILS – BRIDGE PARAPET & ORNAMENTAL RAILING

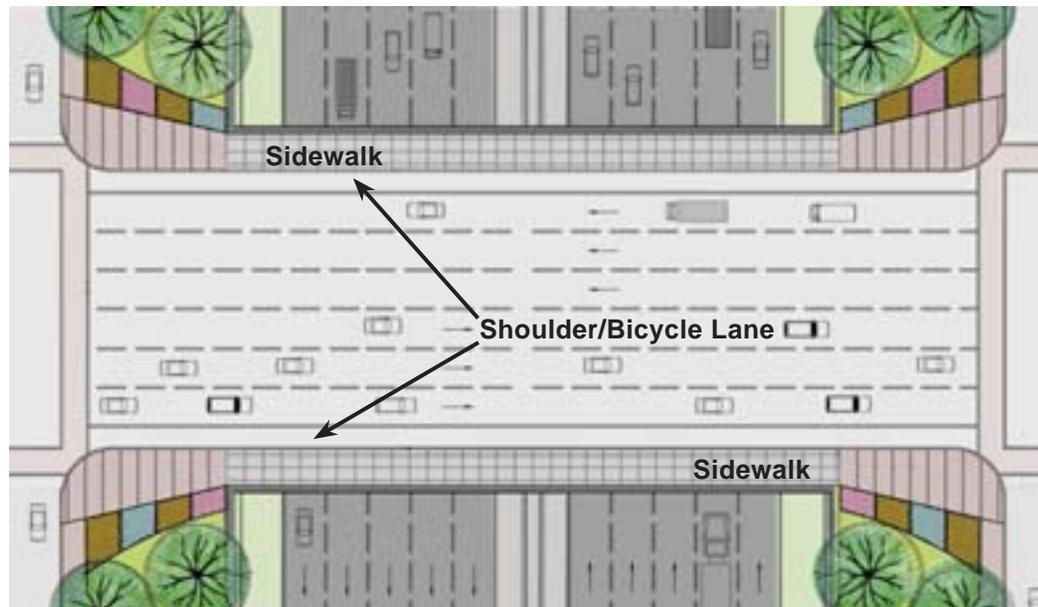
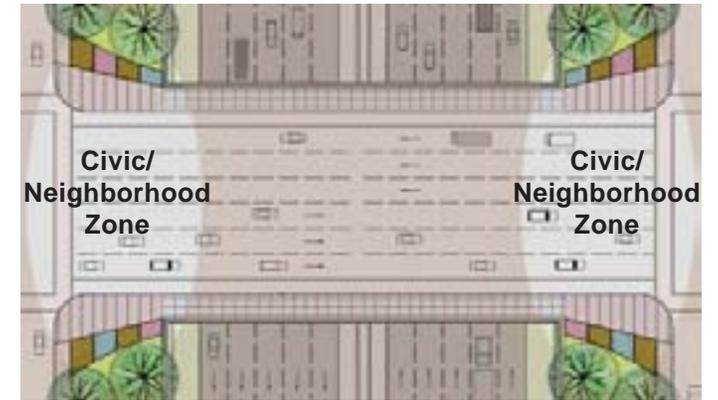
Neighborhood Connector Bridges

# CORRIDOR DESIGN GUIDELINES

## Community Connector Bridges

This bridge type generally connects commercial and cultural corridors such as Woodward Avenue, Gratiot Street and Connor Boulevard over the freeway. The bridge includes sidewalks and shoulder/bicycle lanes.

Civic/ Neighborhood Zones at the ends of the bridge present potential locations for more intensive landscaping and public art to highlight community gateways and soften the transition between the freeway and the surrounding area.

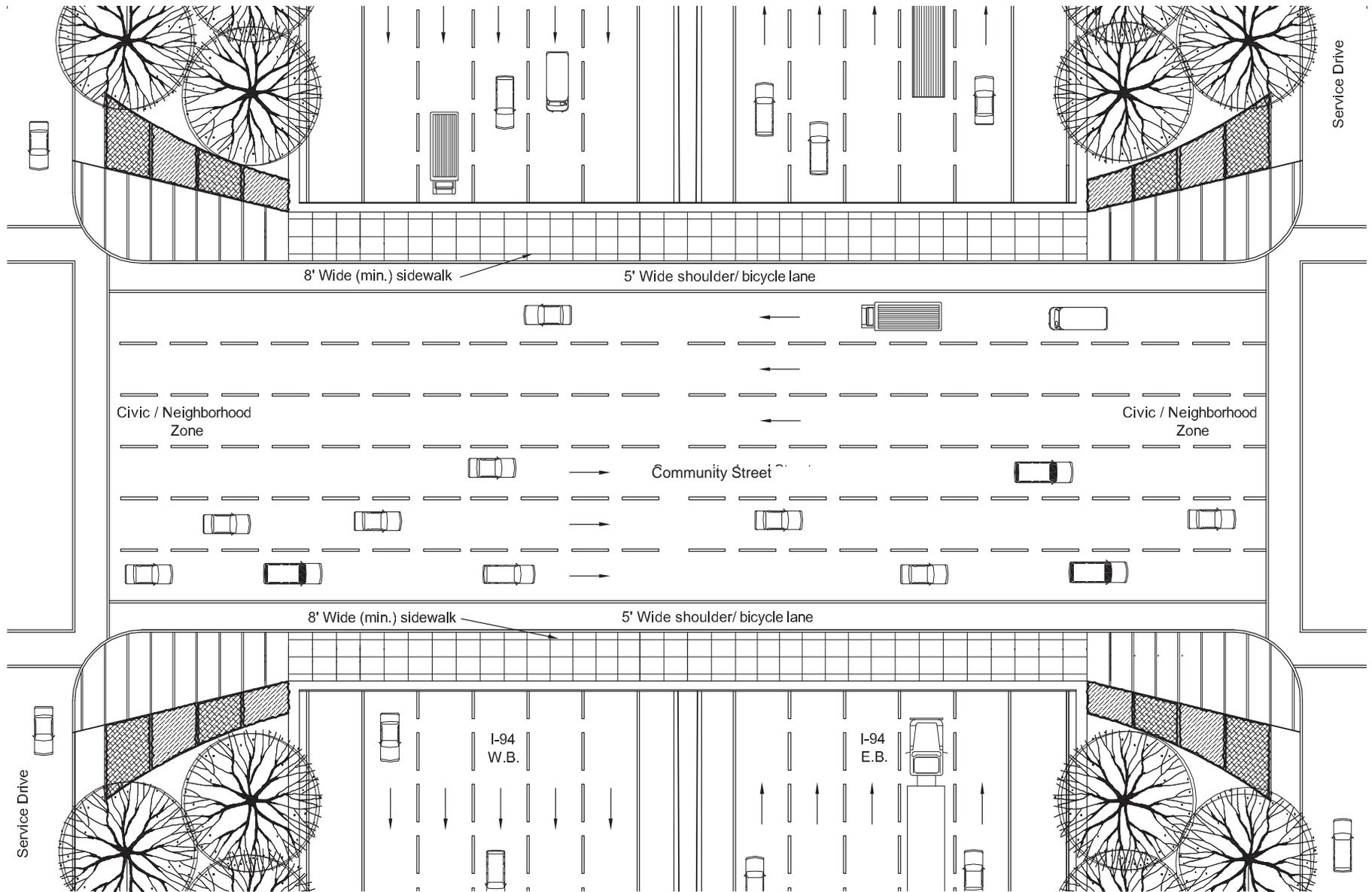


Public Art by Michigan Artists (examples shown above) and landscaping have potential for enhancing Civic/Neighborhood Zones

## INTRODUCTION

### Community Connector Bridges

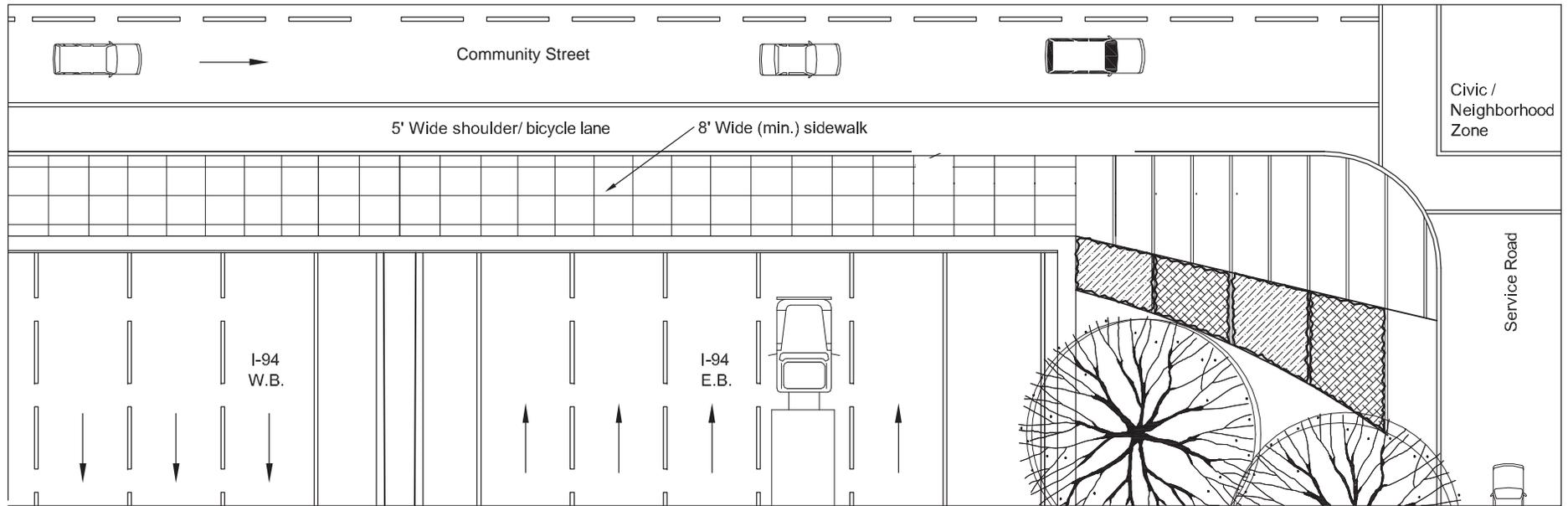
CORRIDOR DESIGN GUIDELINES



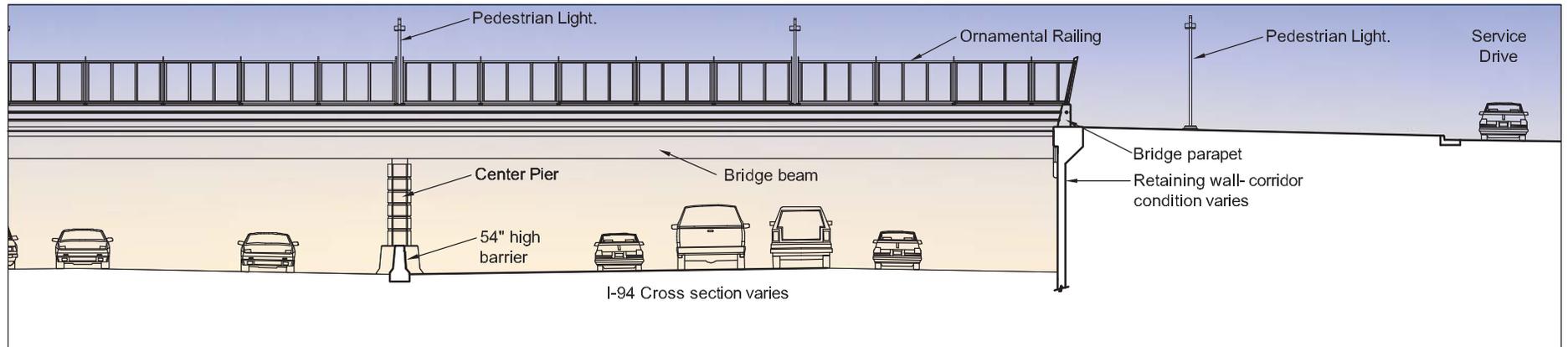
OVERALL PLAN

Community Connector Bridges

# CORRIDOR DESIGN GUIDELINES



PLAN VIEW

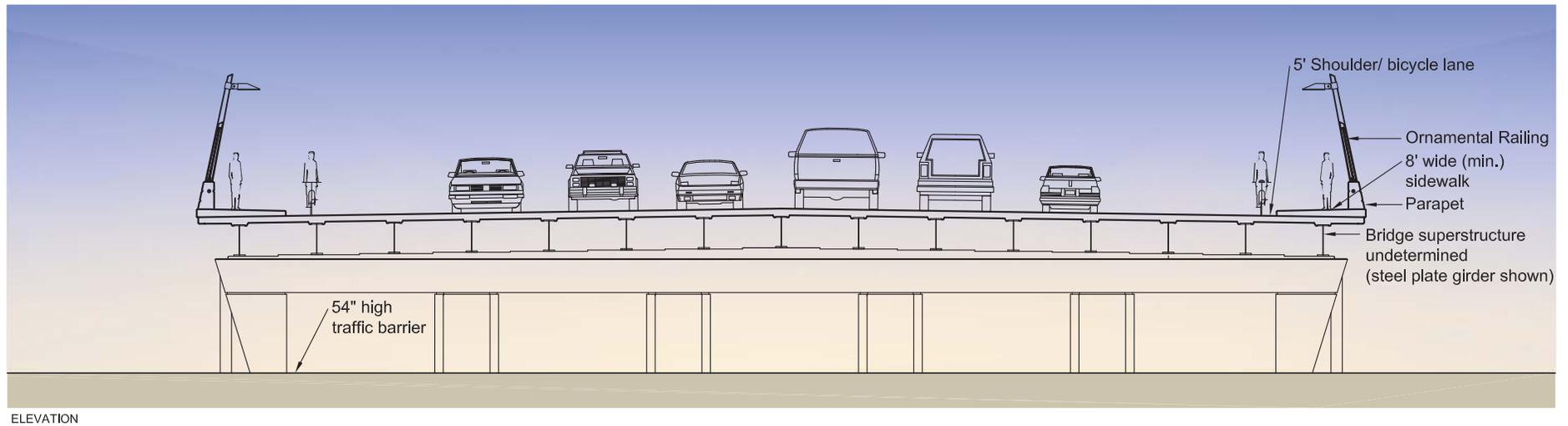
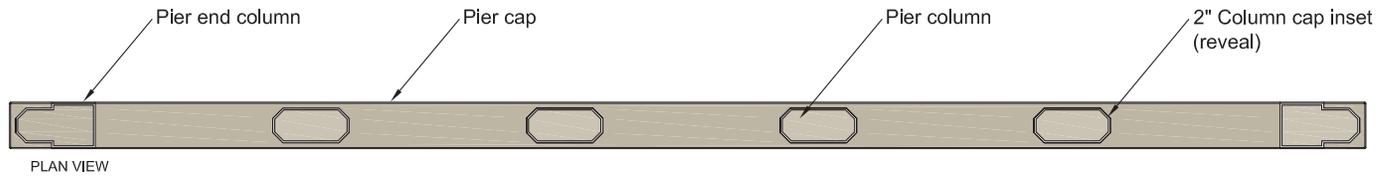


ELEVATION

## DETAIL – PLAN & ELEVATION

### Community Connector Bridges

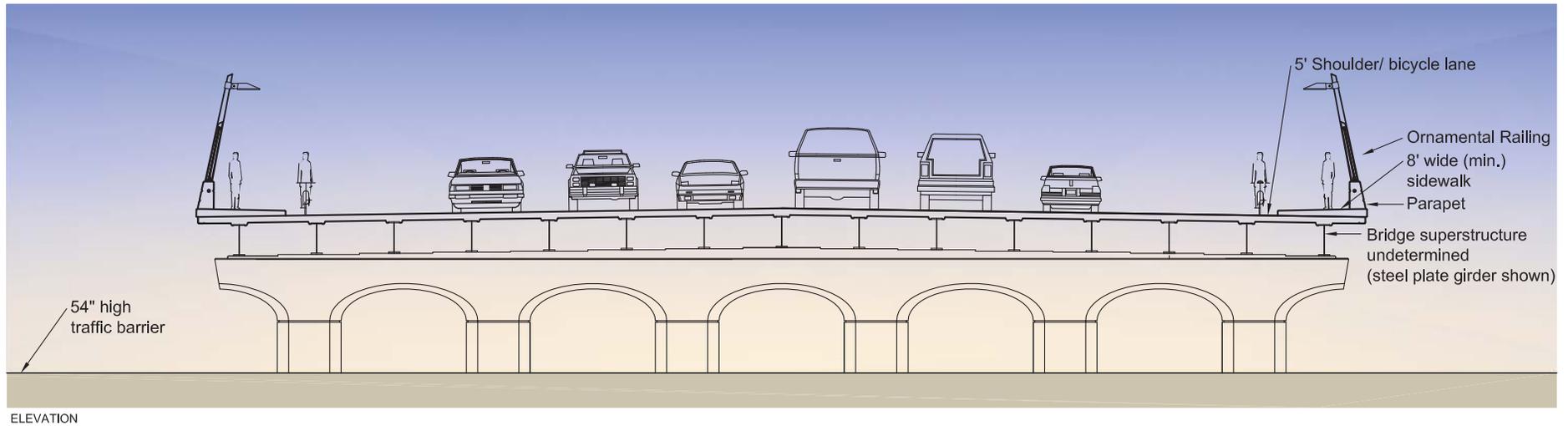
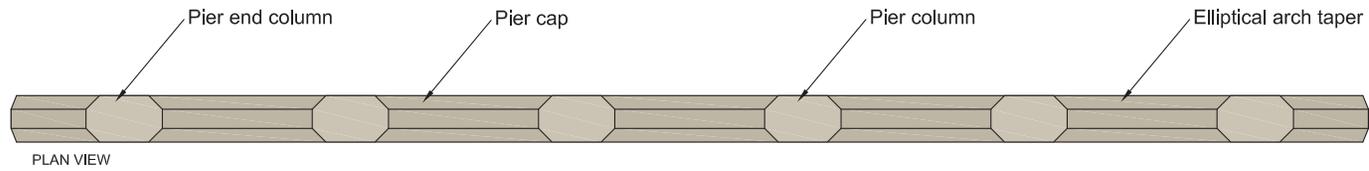
CORRIDOR DESIGN GUIDELINES



**CENTER PIER ELEVATION – FIN ALTERNATIVE**

Community Connector Bridges

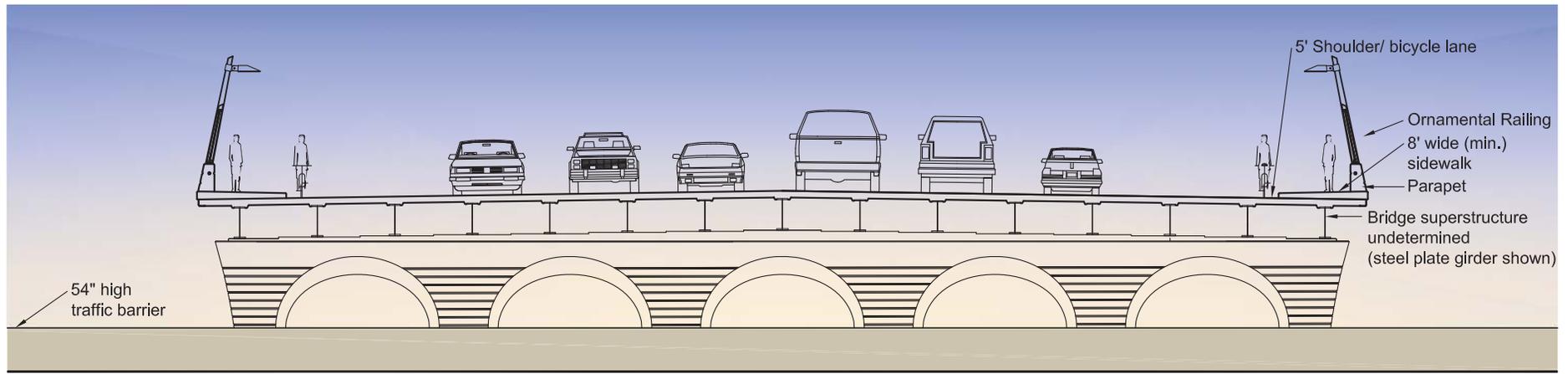
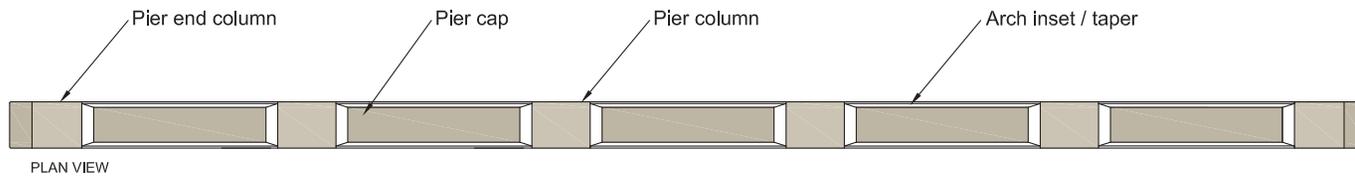
CORRIDOR DESIGN GUIDELINES



**CENTER PIER ELEVATION – CLASSICAL ARCH ALTERNATIVE**

Community Connector Bridges

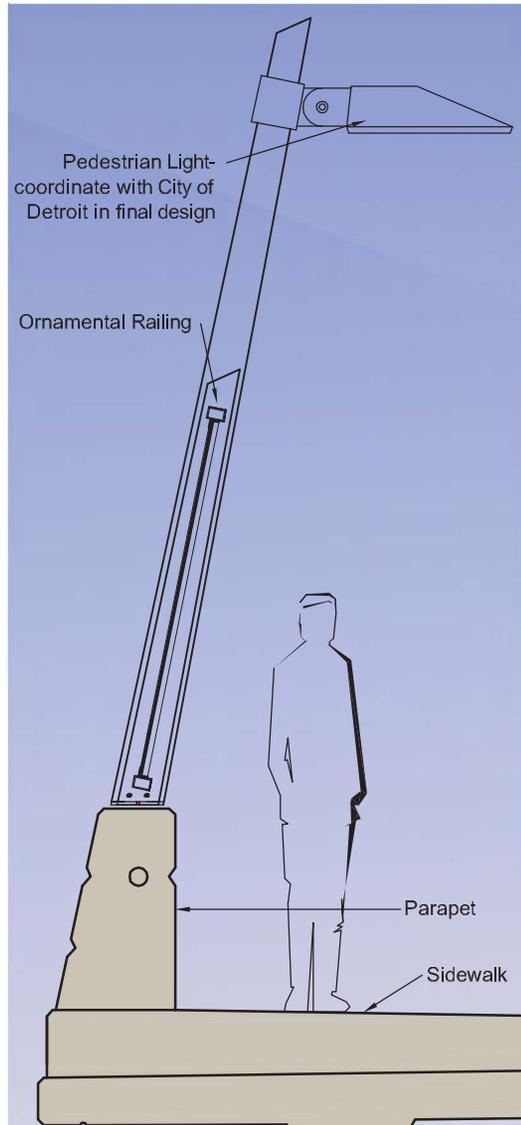
CORRIDOR DESIGN GUIDELINES



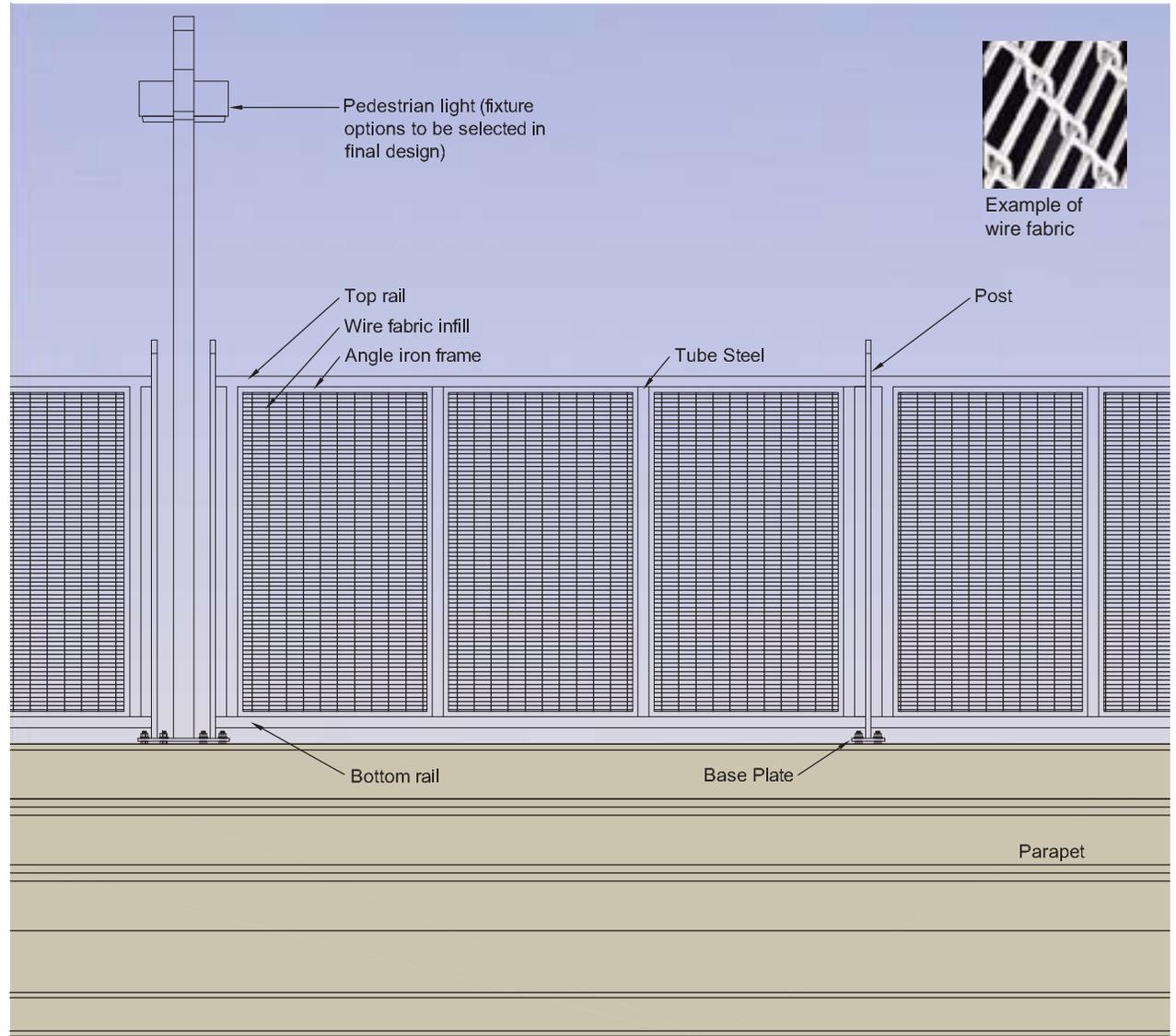
**CENTER PIER ELEVATION – BARREL ARCH ALTERNATIVE**

Community Connector Bridges

CORRIDOR DESIGN GUIDELINES



SECTION

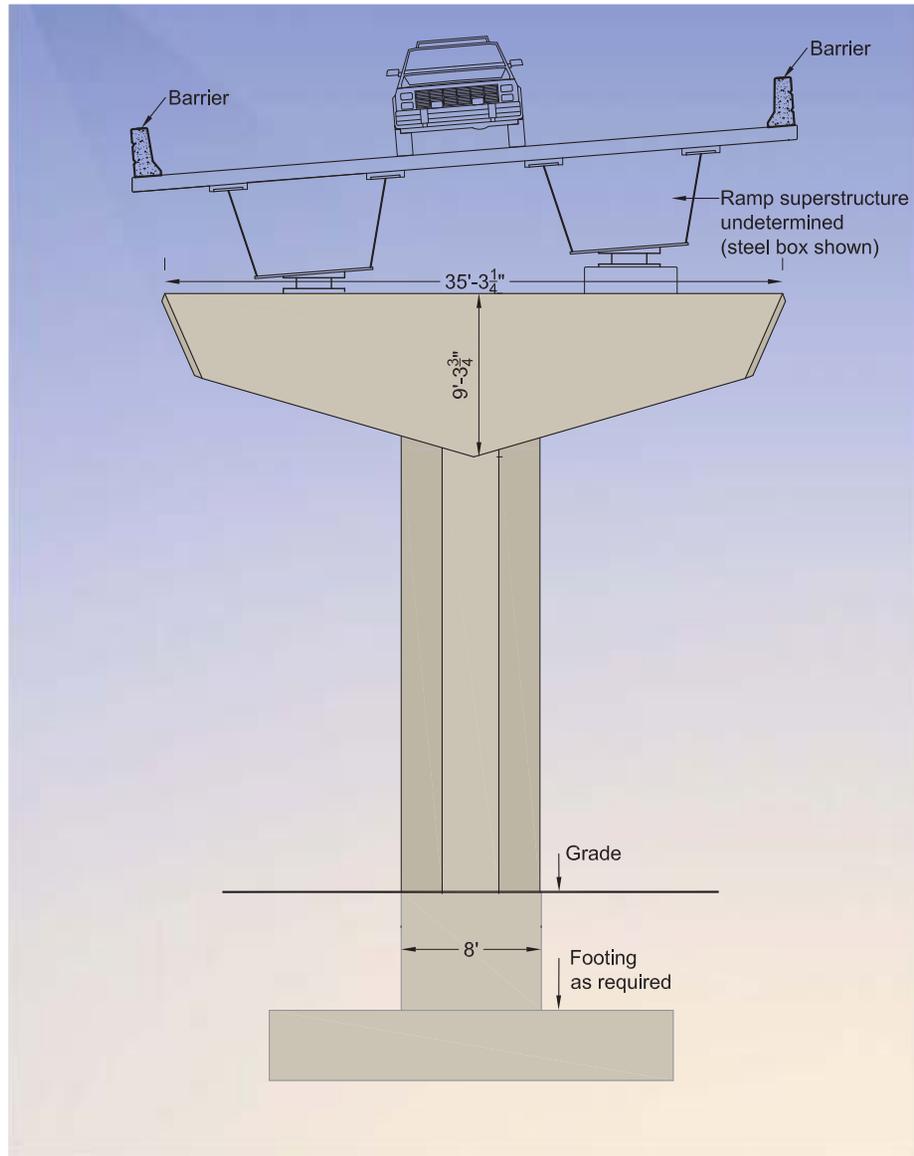


ELEVATION FROM FREEWAY

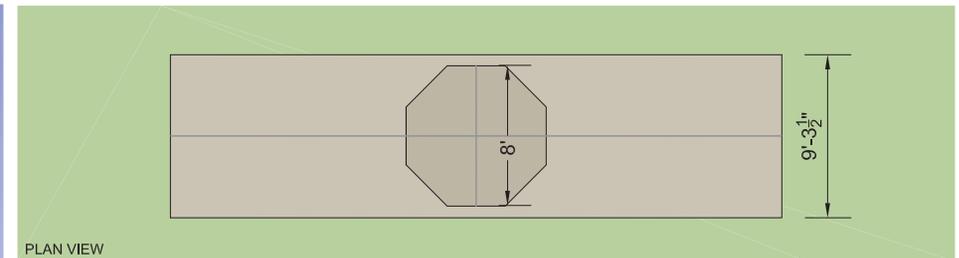
**DETAIL – BRIDGE PARAPET & ORNAMENTAL RAILING**

Community Connector Bridges

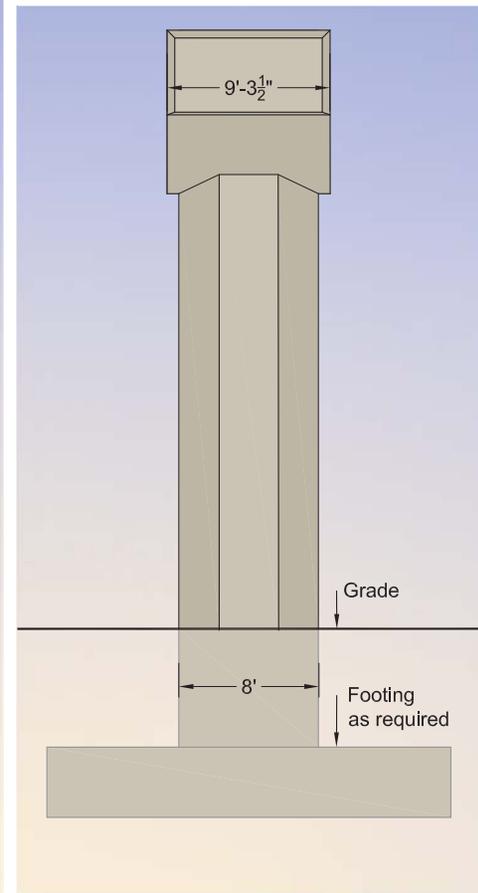
CORRIDOR DESIGN GUIDELINES



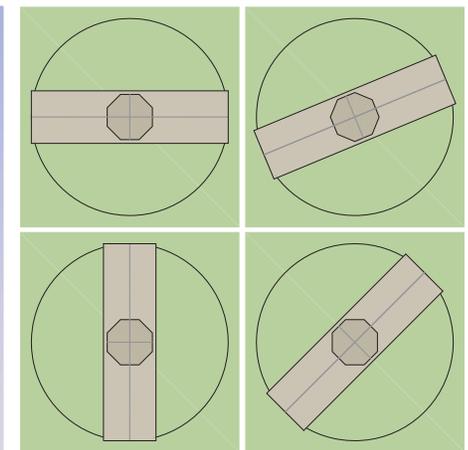
FRONT ELEVATION



PLAN VIEW



SIDE ELEVATION



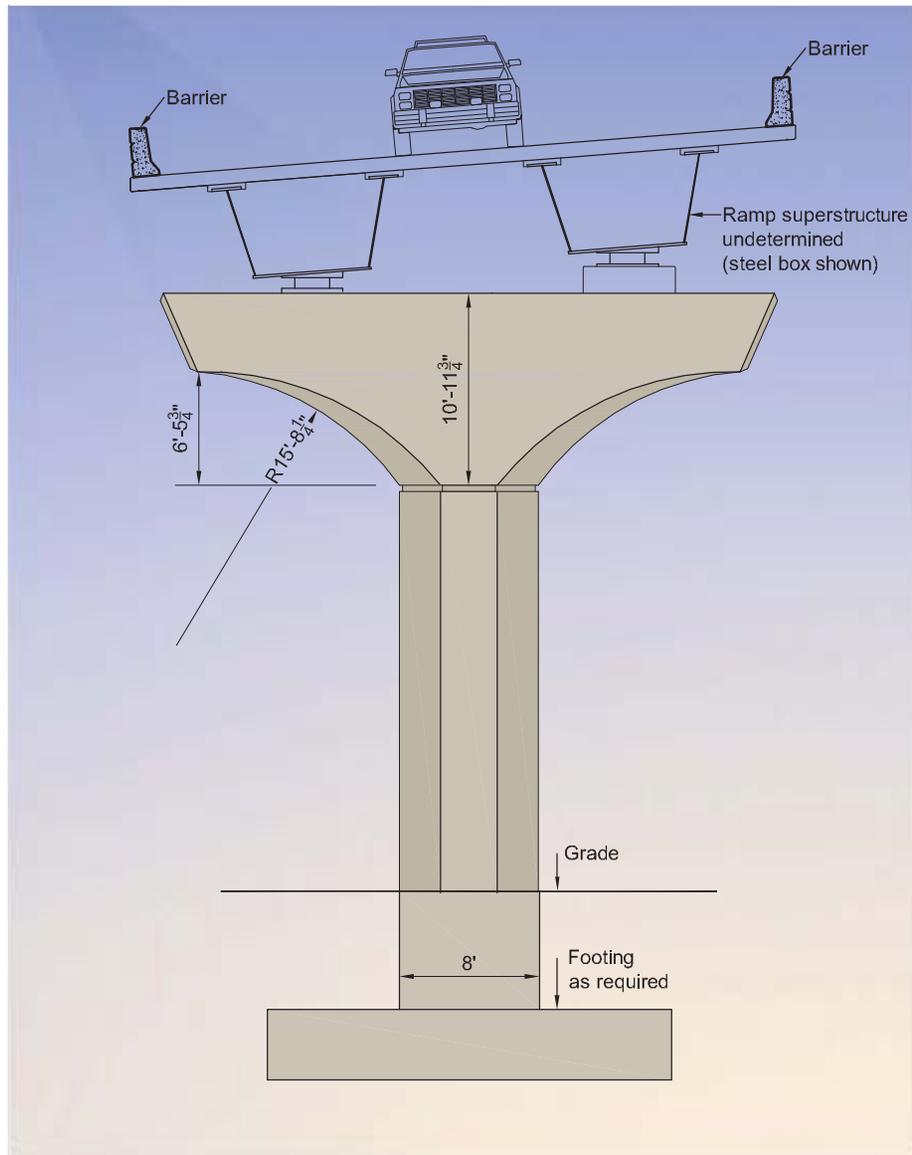
PLAN VIEW- DIAGRAM

Note: Ramp pier concept was developed to relate to other corridor elements and be adaptable to accommodate ramp skew angles with piers touching down in the median. The octagonal column minimizes the pier footprint. The pier cap is an extension of the octagonal base.

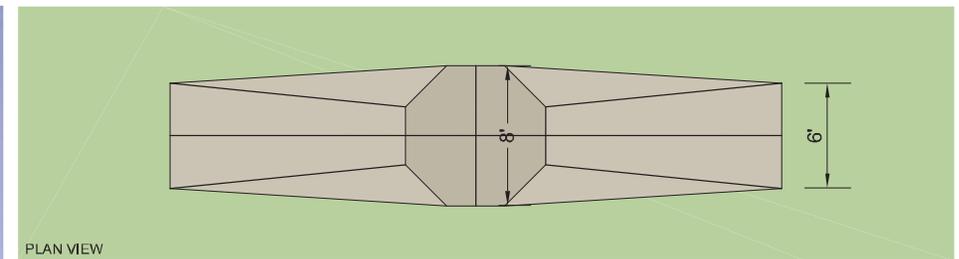
**SINGLE PIER – FIN ALTERNATIVE**

Interchange Ramps

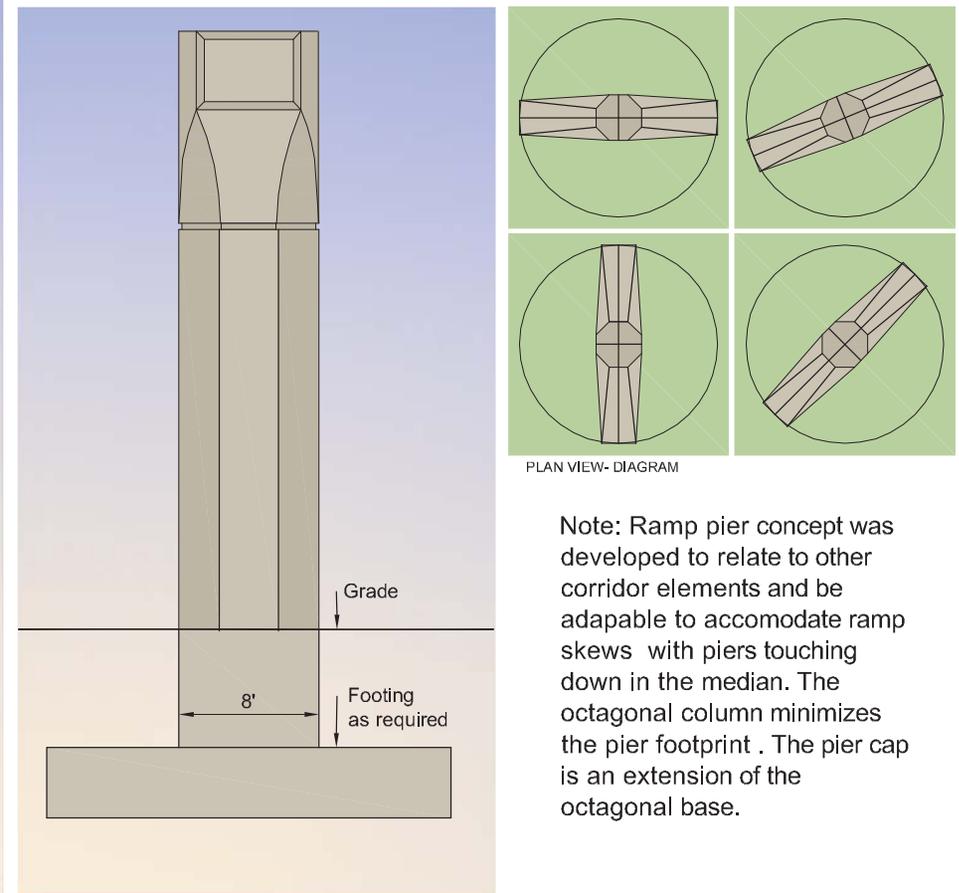
CORRIDOR DESIGN GUIDELINES



FRONT ELEVATION



PLAN VIEW



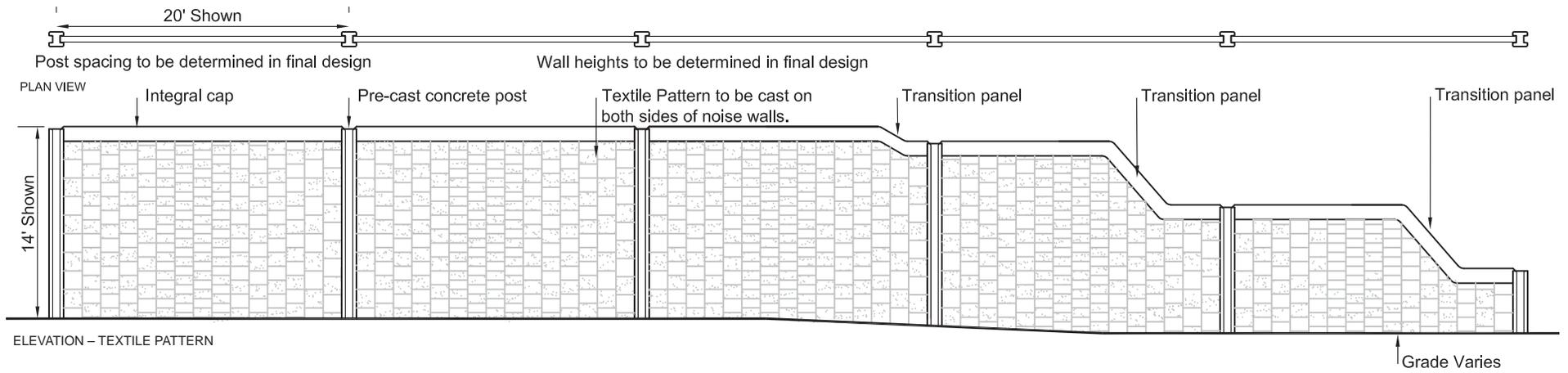
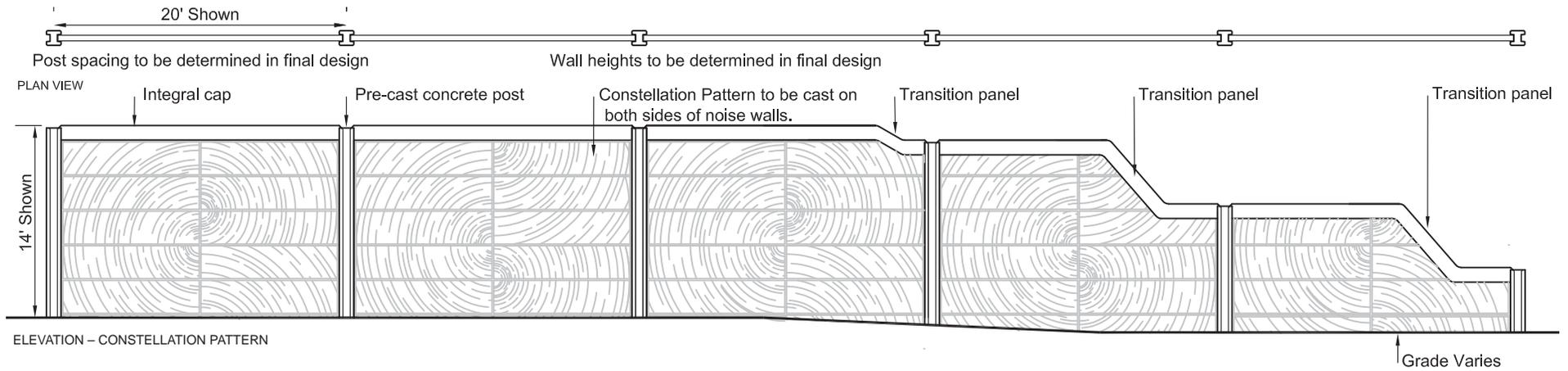
PLAN VIEW- DIAGRAM

Note: Ramp pier concept was developed to relate to other corridor elements and be adaptable to accommodate ramp skews with piers touching down in the median. The octagonal column minimizes the pier footprint. The pier cap is an extension of the octagonal base.

**SINGLE PIER – SHALLOW ARCH ALTERNATIVE**

Interchange Ramps

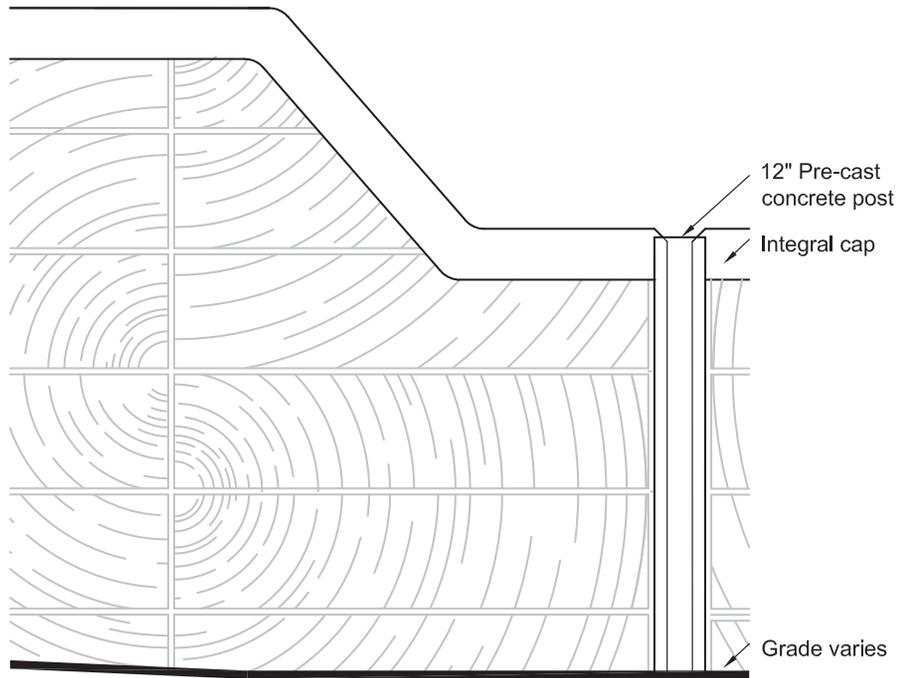
# CORRIDOR DESIGN GUIDELINES



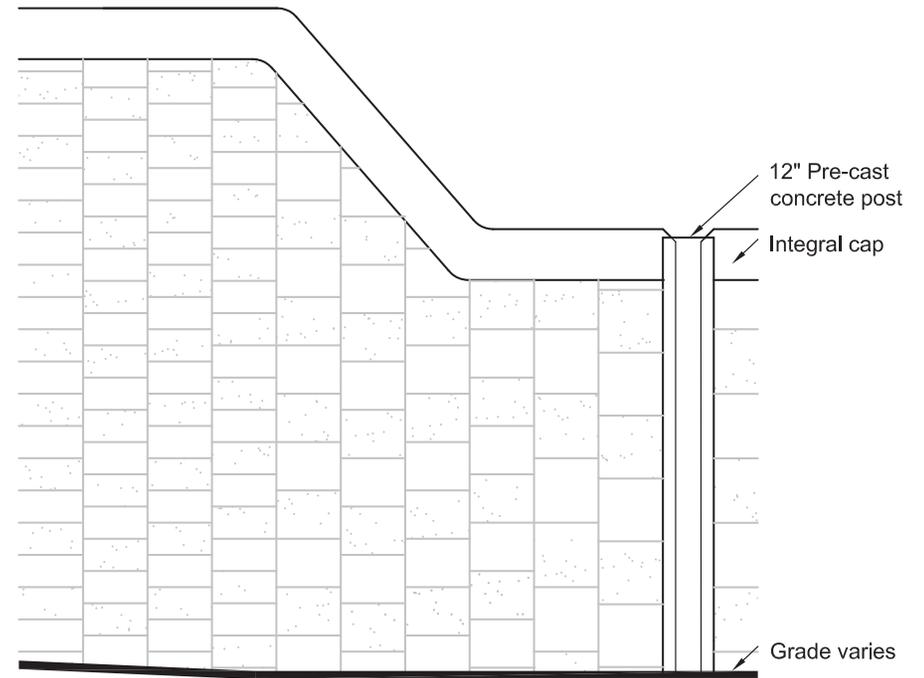
Color Palette  
is presented on  
pg. 43.

## ELEVATIONS – CONSTELLATION & TEXTILE WALL PATTERNS

CORRIDOR DESIGN GUIDELINES



ELEVATION – CONSTELLATION PATTERN DETAIL

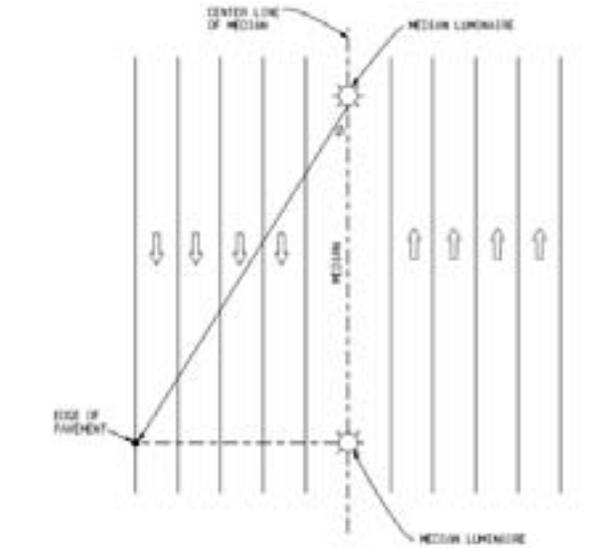


ELEVATION – TEXTILE PATTERN DETAIL

**NOTES:**

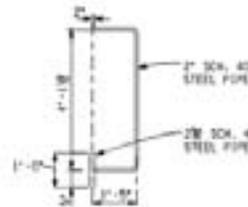
1. Wall heights to be determined in final design.
2. Post spacing to be determined in final design.

**ELEVATION DETAILS – CONSTELLATION & TEXTILE WALL PATTERNS**



ARMING ANGLE  $\theta$  FOR 400 & 1000 WATT  
PRO BEAM HIGH PRESSURE SODIUM LUMINAIRE

NOTE: ANGLE  $\theta$  WILL VARY WITH SPACING OF MEDIAN LUMINAIRES AND DISTANCE OF EDGE OF PAVEMENT FROM CENTER LINE OF MEDIAN. (SEE MANUFACTURER'S INSTRUCTION.)  
(FOR USE WITH HOLLOW 400 & 1000 WATT HIGH PRESSURE SODIUM LUMINAIRE.)



ARM (SHEPHERD'S CROOK) DETAIL FOR:  
LIGHT STANDARD SHAFT, 30' OR LESS  
& LIGHT STANDARD SHAFT, 31' TO 40'

(MOUNT SHEPHERD'S CROOK PARALLEL TO MEDIAN BARRIER.)  
(FOR USE WITH HOLLOW 250, 400, & 1000 WATT HIGH PRESSURE SODIUM LUMINAIRE.)



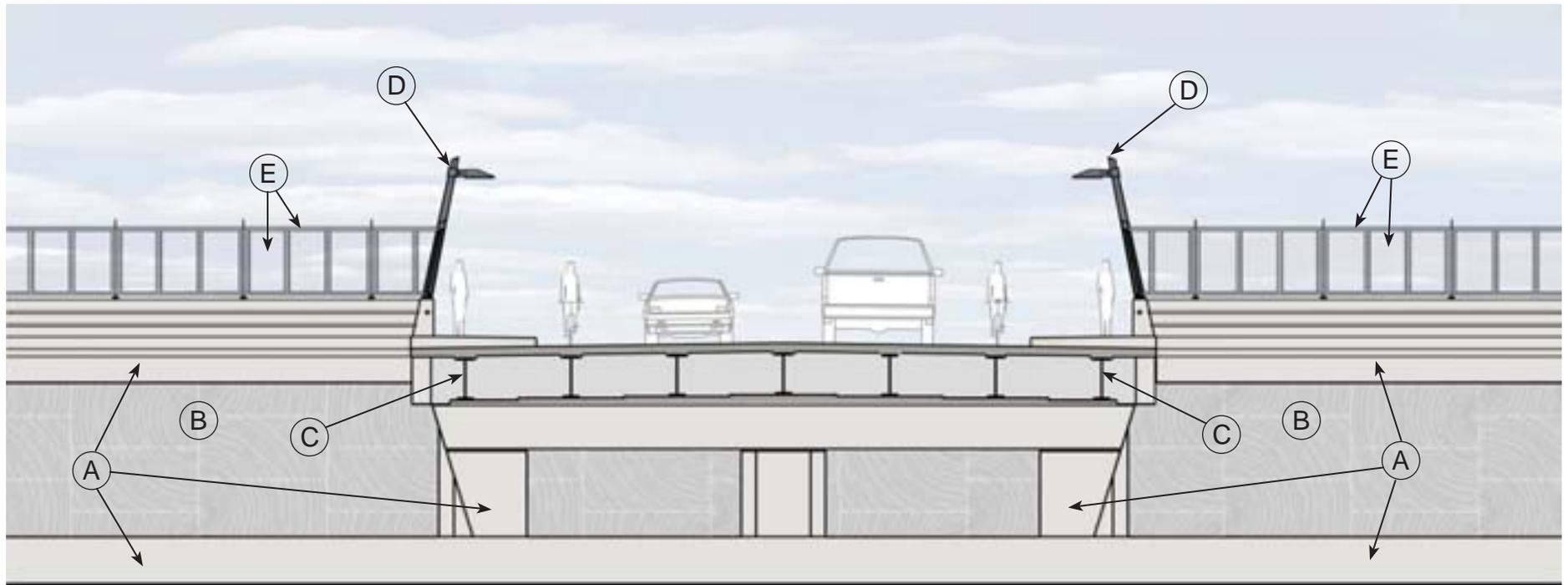
DETAIL FOR:  
LIGHT STANDARD SHAFT, 30' OR LESS  
& LIGHT STANDARD SHAFT, 31' TO 40'

(MOUNT THIS DETAIL WITH "LIGHT STANDARD DETAIL"  
SHEET 17E AND ROAD STANDARD PLAN R-101-C.)

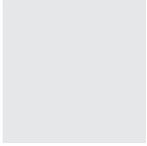
MAINLINE LIGHTING FIXTURE

Lighting

CORRIDOR DESIGN GUIDELINES



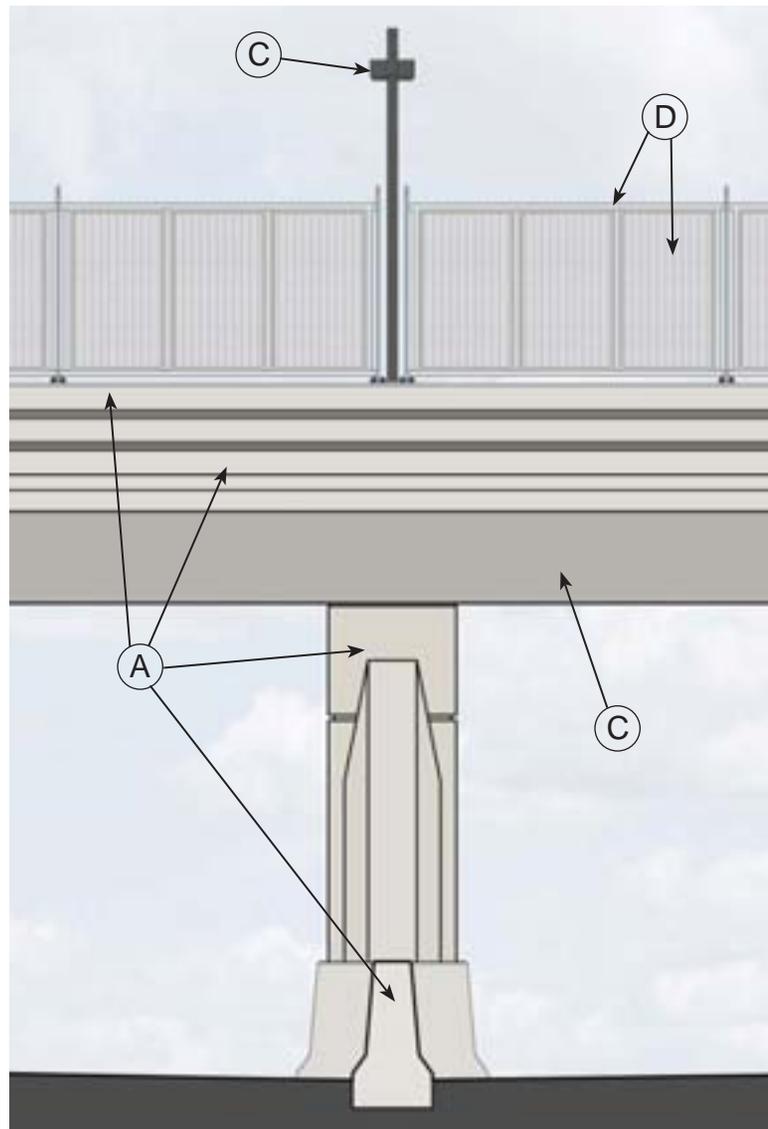
**COLOR KEY**

A		BARRIERS, PIERS, COPING & PARAPET Natural Concrete	C		BEAMS Federal Color 36357	E		RAILING & MESH Stainless Steel
B		WALLS Federal Color 36375	D		LIGHTING Charcoal Gray			

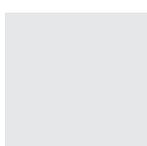
**ELEVATION – FIN ALTERNATIVE WITH CONSTELLATION WALL PATTERN**

Color Palette

CORRIDOR DESIGN GUIDELINES



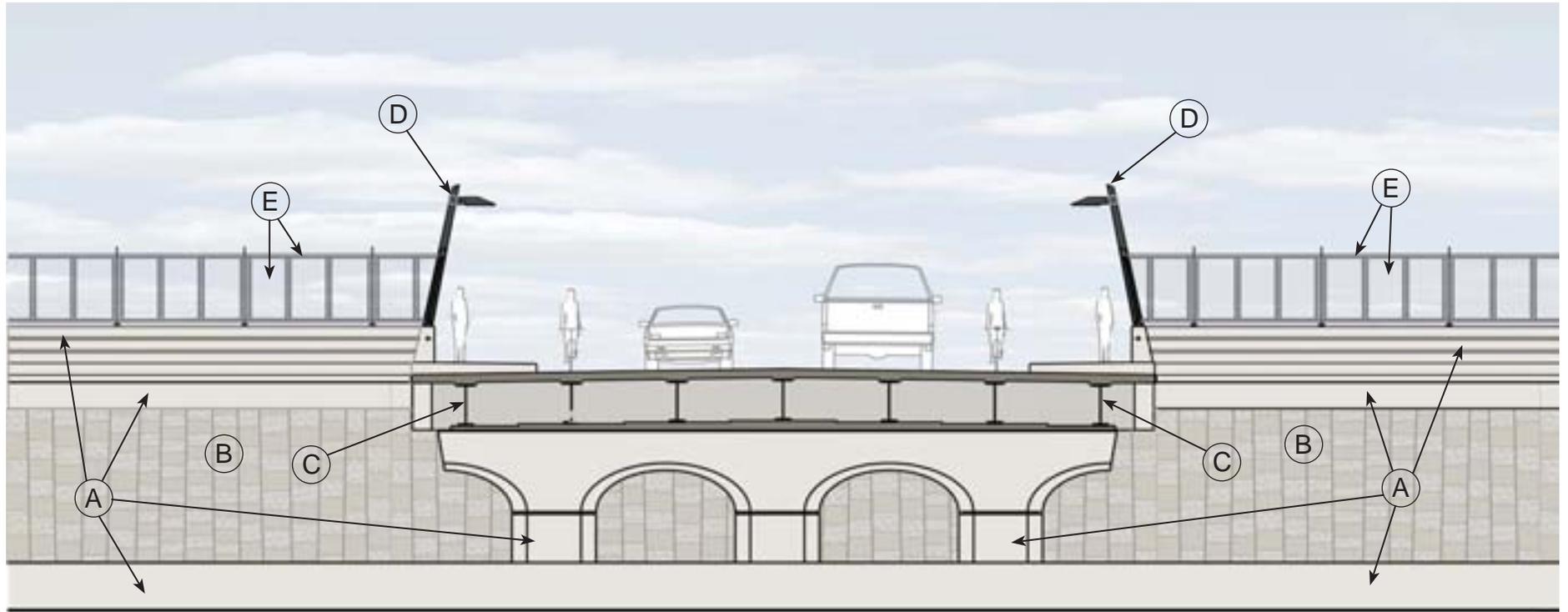
**COLOR KEY**

(A)		BARRIER, PIERS, COPING & PARAPET Natural Concrete
(C)		BEAMS Federal Color 36357
(D)		LIGHTING Charcoal Gray
(E)		RAILING & MESH Stainless Steel

**MAINLINE ELEVATION – FIN PIER ALTERNATIVE WITH RAILING & LIGHTING**

Color Palette

CORRIDOR DESIGN GUIDELINES



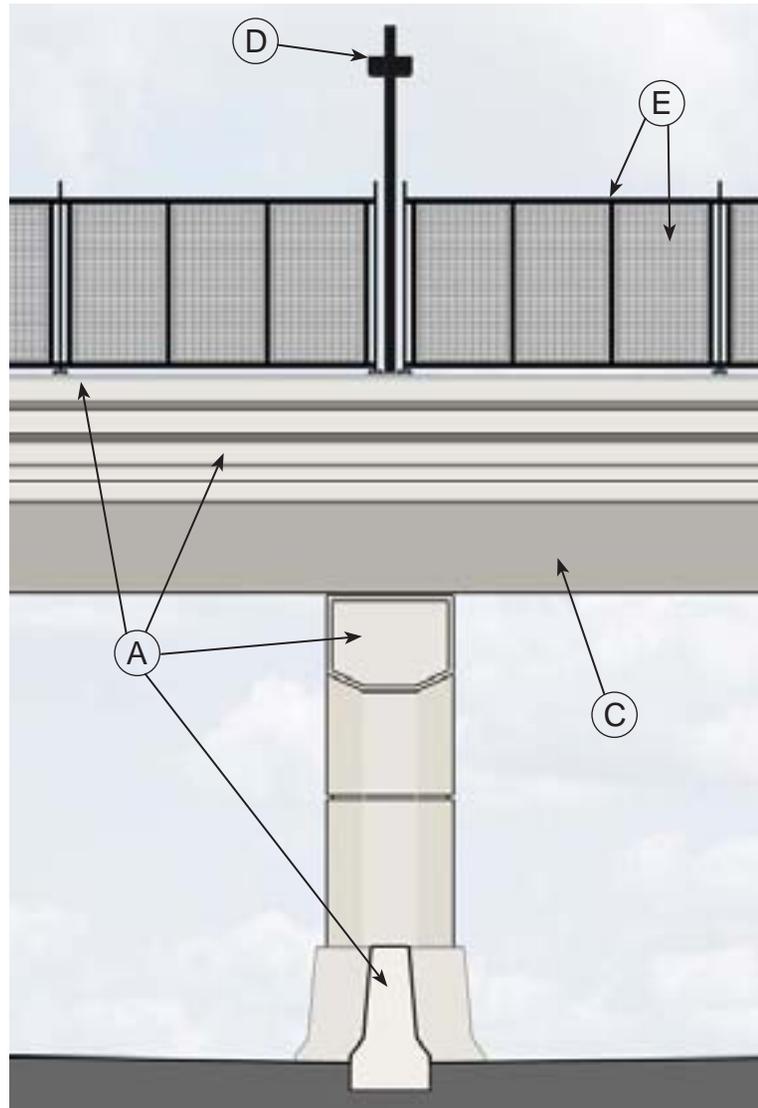
**COLOR KEY**

<p>(A)</p> 	<p>BARRIERS, PIERS, COPING &amp; PARAPET Federal Color 37722</p>	<p>(C)</p> 	<p>BEAMS Federal Color 36357</p>	<p>(E)</p> 	<p>RAILING &amp; MESH Black</p>
<p>(B)</p> 	<p>WALLS Federal Color 36599</p>	<p>(D)</p> 	<p>LIGHTING Black</p>		

**ELEVATION – CLASSICAL ARCH ALTERNATIVE WITH TEXTILE WALL PATTERN**

Color Palette

CORRIDOR DESIGN GUIDELINES



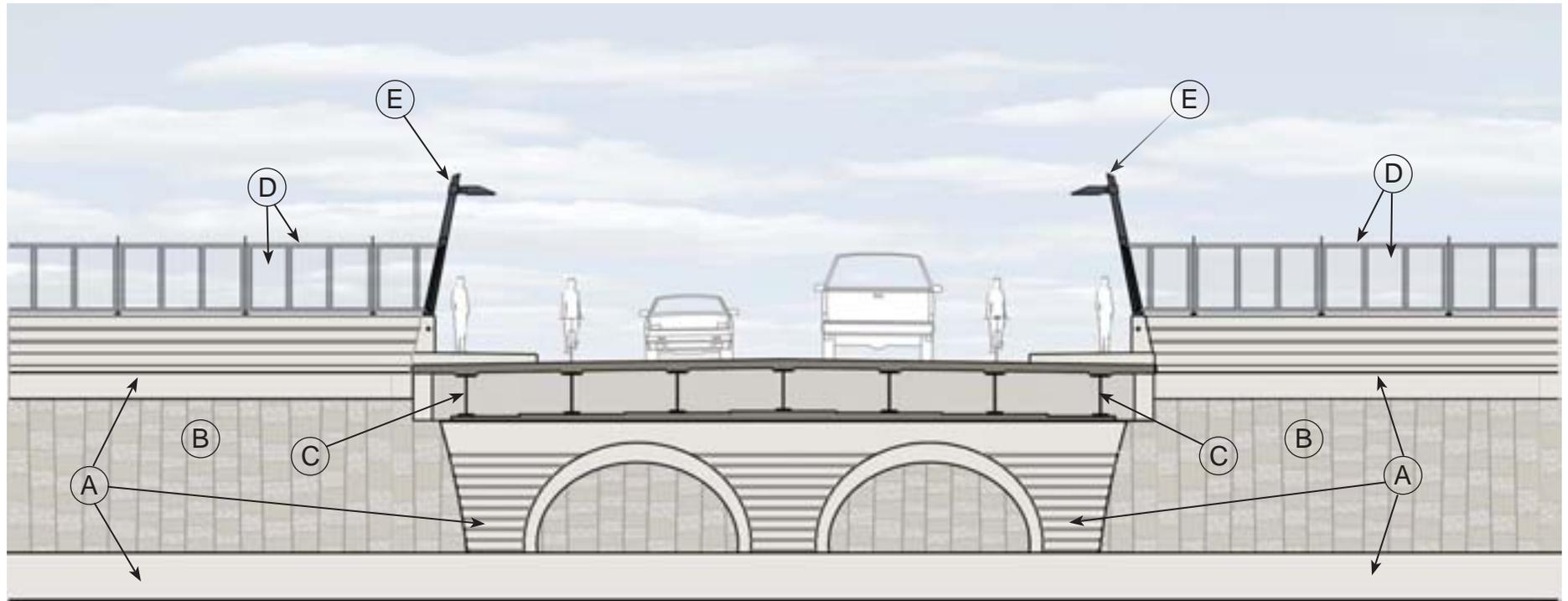
**COLOR KEY**

<b>(A)</b>		BARRIERS, PIERS, COPING & PARAPET Federal Color 37722
<b>(C)</b>		BEAMS Federal Color 36357
<b>(D)</b>		LIGHTING Black
<b>(E)</b>		RAILING & MESH Black

**MAINLINE ELEVATION – CLASSICAL ARCH PIER ALTERNATIVE WITH RAILING & LIGHTING**

Color Palette

CORRIDOR DESIGN GUIDELINES



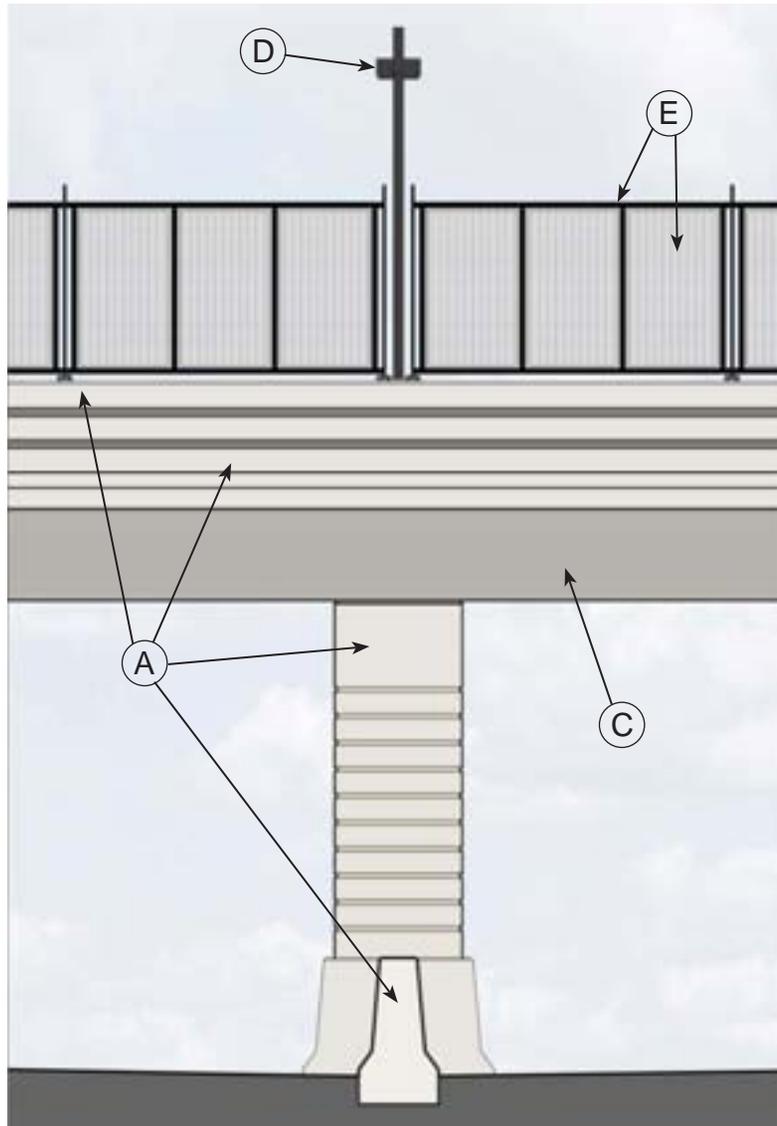
**COLOR KEY**

A		BARRIERS, PIERS, COPING & PARAPET Federal Color 37722	C		BEAMS Federal Color 36357	E		LIGHTING Black
B		WALLS Federal Color 36599	D		RAILING & MESH Black			

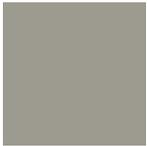
**ELEVATION – BARREL ARCH ALTERNATIVE WITH TEXTILE WALL PATTERN**

Color Palette

CORRIDOR DESIGN GUIDELINES



**COLOR KEY**

- (A)  BARRIERS, PIERS, COPING & PARAPET  
Federal Color 37722
- (C)  BEAMS  
Federal Color 36357
- (D)  LIGHTING  
Black
- (E)  RAILING & MESH  
Black

**MAINLINE ELEVATION – BARREL ARCH PIER ALTERNATIVE WITH RAILING & LIGHTING**

Color Palette

CORRIDOR DESIGN GUIDELINES



**ELEVATION – CONSTELLATION PATTERN ALTERNATIVE**

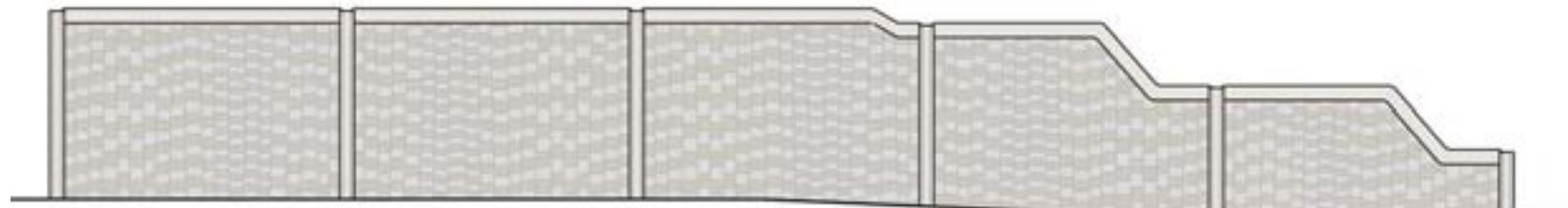
**COLOR KEY**



CAPS & POSTS  
Natural Concrete



PANELS  
Federal Color  
36375



**ELEVATION – TEXTILE PATTERN ALTERNATIVE**

**COLOR KEY**



CAPS & POSTS  
Federal Color  
37722



PANELS  
Federal Color  
36599

**ELEVATIONS – NOISE WALL ALTERNATIVES**

## CORRIDOR DESIGN GUIDELINES

### Conceptual Landscape Design Approach

Although there are limited opportunities for vegetation along the mainline, in several locations **Slope Plantings** provide color and visual relief, mark the changes in the seasons, and mitigate the expanse of pavement and walls. They also stabilize the slope.

**Median Plantings** highlight significant bridge crossings that are gateways to neighborhoods or commercial areas. Examples include the crossings at Woodward Avenue and Trumbull Street.

Service Drives are landscaped with the character of a parkway, signaling the transition from the freeway to local streets and that a reduction

in speed is necessary because of the presence of pedestrians.

**Boulevard Trees** are used at 30' on center and **Boulevard Plantings** feature a diversity of low shrubs and/or herbaceous plants and grasses. This planting approach is particularly appropriate for Civic/Neighborhood Zones at the bridges and along the Service Drives adjacent to the Woodbridge Historic District, Ferry Street Historic District, Cultural Center Historic District and Wayne State University.

Conceptual Prototypes follow for stretches of I-94 presenting different representative landscape conditions including mainline corridor, service drives, bridges, and a major interchange.

### References

- “Alternative Selections for Problems in Tree Species, Feb. 2003.” Michigan Nursery and Trade Association presentation at Great Lakes Trade Exposition.
- Ambassador Gateway Project Context Sensitive Design Study. Michigan Department of Transportation. Prepared by HNTB Corporation, January 12, 2004.
- Davidson, Harold. “Tree and Shrub Tolerance to De-Icing Salt Spray.” Michigan State University Extension. Dept. of Horticulture, Home Horticulture - 03900109, 1/1/1996.

- Dirr, Michael A. Manual of Woody Landscape Plants, Fifth Edition. Champaign, IL: Stipes Publishing, 1998.
- Harper-Lore, Bonnie and Maggie Wilson, Eds. Roadside Use of Native Plants. FHWA-EP-99-014, U.S. Department of Transportation. Republished Washington DC: Island Press, 2000.
- M-10 Slope Planting Proposal. Nanette Alton, Landscape Architect, MDOT Roadside Development Unit, 2007.



SHADE



STABILITY



DIVERSITY



SEASONAL COLOR

## DESIGN APPROACH

Landscaping

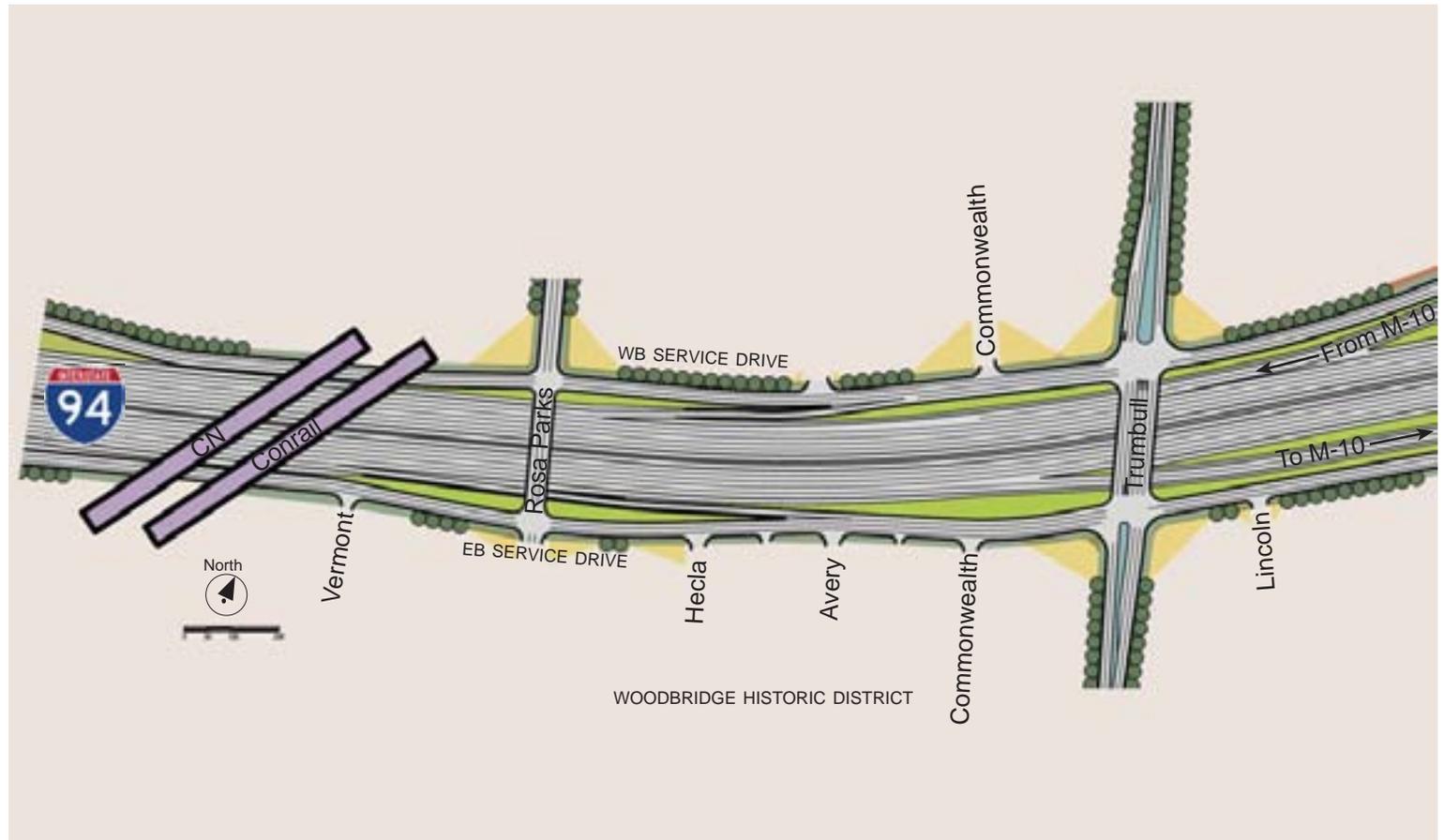
CORRIDOR DESIGN GUIDELINES

CONCEPTUAL  
LANDSCAPE  
PROTOTYPE

Between CN/Conrail Line and M-10 Exit/Entrance

KEY

-  50' Planting Clear Zone
-  Slope Plantings
-  Median Plantings
-  Boulevard Trees 30' o.c.
-  Boulevard Landscaping
-  Corner setback 40' or 150' as per MDOT Guidelines



PROTOTYPE – MAINLINE CORRIDOR & SERVICE DRIVES EX. 1

Landscaping

CORRIDOR DESIGN GUIDELINES

CONCEPTUAL  
LANDSCAPE  
PROTOTYPE

I-94 and M-10

KEY

- 50' Planting Clear Zone
- Slope Plantings
- Median Plantings
- Boulevard Trees 30' o.c.
- Boulevard Landscaping
- Corner Setback 40' or 150' as per MDOT Guidelines
- Infield Plantings
- Noise Wall Plantings



PROTOTYPE – MAINLINE INTERCHANGE & SERVICE DRIVES

Landscaping

CORRIDOR DESIGN GUIDELINES

CONCEPTUAL  
LANDSCAPE  
PROTOTYPE

Between M-10 and  
Woodward Avenue

KEY

-  50' Planting Clear Zone
-  Slope Plantings
-  Median Plantings
-  Boulevard Trees 30' o.c.
-  Boulevard Landscaping
-  Corner Setback 40' or 150' as per MDOT Guidelines



PROTOTYPE – MAINLINE CORRIDOR, BRIDGES & SERVICE DRIVES

Landscaping

CORRIDOR DESIGN GUIDELINES

CONCEPTUAL  
LANDSCAPE  
PROTOTYPE

Between John R and I-75

KEY

-  50' Planting Clear Zone
-  Slope Plantings
-  Median Plantings
-  Boulevard Trees 30' o.c.
-  Boulevard Landscaping
-  Corner Setback 40' or 150' as per MDOT Guidelines



PROTOTYPE – MAINLINE CORRIDOR & SERVICE DRIVES EX. 2

## CORRIDOR DESIGN GUIDELINES

**TREES — Slope Plantings, Boulevard Trees**

Scientific Name	Common Name	Salt Tolerance	Drought/Flooding Tolerance	Michigan Native?	Culture/Attributes
Acer x freemanii 'Autumn Blaze' Acer 'Autumn Radiance'	Red maple	moderate	moderate/moderate	no	wet to dry soils, orange-red fall color
Aesculus glabra	Ohio buckeye	very tolerant	moderate/yes	yes	pumpkin-red fall color
Amelanchier x grandiflora 'Autumn Brilliance' clump form	Serviceberry	sensitive	moderate/high	no	sun/shade, dramatic blooms, burgundy/orange fall
Celtis occidentalis	Hackberry	moderate	yes/no	yes	corky bark texture
Crataegus crus-galli	Hawthorn	moderate	yes/moderate	yes	flowers May, dark red/purple fall
Gleditsia triacanthos 'Shademaster'	Shademaster honeylocust	tolerant	yes/moderate	species yes, cultivar no	yellow fall
Juniperus virginiana	Eastern red cedar	moderate	yes/no	yes	evergreen
Malus 'Prairie Fire'	Prairie Fire crabapple	sensitive	moderate /no	no	dry to wet soils, pink-red blooms spring
Nyssa sylvatica	Black tupelo	moderate	yes/moderate	yes	orange-red fall
Pinus nigra	Austrian pine	very tolerant	yes/no	no	evergreen
Quercus bicolor	Swamp white oak	moderate	yes/yes	yes	wet to dry soils, yellow fall
Quercus imbricaria	Shingle oak	moderate	yes/moderate	yes	varied reds in fall
Taxus spp.	Yew	tolerant	yes/moderate	no	evergreen
Tilia americana & Tilia cordata 'Greenspire'	Linden	sensitive	yes/yes	species, yes cultivar, no	Fragrant flowers, yellow fall

**PLANT LIST**

## Landscaping

## CORRIDOR DESIGN GUIDELINES

**SHRUBS — Slope Plantings, Median Plantings, Boulevard Landscaping, Infield Plantings, Noise Walls**

Scientific Name	Common Name	Salt Tolerance	Drought/Flooding Tolerance	Michigan Native?	Culture/Attributes
<i>Aronia melanocarpa</i>	Black chokeberry	tolerant	moderate/high	no	sun/part shade & wet to dry, showy fruit, orange-red fall
<i>Cornus racemosa</i>	Gray dogwood	sensitive	yes/high	yes	sun to shade & wet to dry
<i>Cornus sericia</i> 'Cardinal'	Red-twig dogwood	sensitive	yes/high	species yes, cultivar no	sun & moist/wet, red stems winter, stoloniferous
<i>Diervilla lonicera</i>	Dwarf bush honeysuckle	tolerant	yes/moderate	yes	sun/part shade & wet to dry, bronze fall color
<i>Euonymus alata</i> 'Compactus'	Winged euonymus	very tolerant	yes/moderate	no	rosy fall color, corky branches catch snow
<i>Hamamelis virginiana</i>	Common witch hazel	sensitive	moderate/yes	yes	sun to shade & moist to wet, fragrant yellow flowers in fall
<i>Illex verticillata</i>	Michigan holly	sensitive	moderate/yes	yes	sun to shade & moist to wet, need male and female plants for fruiting
<i>Juniperus horizontalis</i> 'Wiltonii'	Blue rug juniper	sensitive	yes/no	no	sun & wet to dry, drapes over walls
<i>Physocarpus opulifolius</i>	Ninebark	moderate	yes/high	yes	sun & moist/wet, not flashy, but tough
<i>Rhus aromatica</i> 'Gro Low'	Gro-Low fragrant sumac	moderate	yes/no	no	sun & moist to dry, orange-red fall
<i>Rhus glabra</i>	Smooth sumac	moderate	yes/no	yes	sun & wet to dry, orange-red fall
<i>Taxus x media</i>	Spreading yew	tolerant	no/moderate	no	partial sun/shade & moist/wet, evergreen
<i>Viburnum dentatum</i>	Arrowwood viburnum	moderate	yes/yes	no	sun to shade & moist/wet
<i>Viburnum x burkwoodii</i>	Burkwood viburnum	sensitive	no/no	no	sun to shade & moist/wet, pink bud, fragrant white flower
<i>Viburnum trilobum</i>	American cranberry-bush viburnum	sensitive	yes/yes	yes	sun to shade & moist/wet, white flower followed by berries

**PLANT LIST**

## Landscaping

## CORRIDOR DESIGN GUIDELINES

**VINES — Noise Walls**

Scientific Name	Common Name	Salt Tolerance	Drought/Flooding Tolerance	Michigan Native?	Culture/Attributes
Parthenocissus quinquefolia	Virginia creeper	intermediate	yes/no	yes	sun/shade, red fall
Parthenocissus tricuspidata	Boston ivy	yes	yes/no	no	best in sun, red fall

**HERBACEOUS PLANTS & GRASSES — plants that add color to seeded areas.  
Slope Plantings, Median Plantings, Boulevard Landscaping, Infield Plantings**

Scientific Name	Common Name	Sun/Shade & Habitat	Michigan Native?
Aster oolentangiensis	Azure aster	sun & moist to dry	yes
Bouteloua curtipendula	Sideoats grama grass	sun & moist to dry	no
Carex pennsylvanica	Sun sedge	sun to shade & moist to dry	yes
Coreopsis lanceolata	Lance-leaf coreopsis	sun/part shade & dry	yes
Heliopsis helianthoides	Oxeye	sun/part shade & moist to dry	yes
Liatris aspera	Rough blazingstar	sun & moist to dry	yes
Monarda fistulosa	Wild bergamot	sun/part shade & moist to dry	yes
Nepeta x faasenni 'Walkers Low'	Catmint	sun & moist to dry	no
Panicum virgatum	Switchgrass	sun & wet to moist	yes
Ratibida pinnata	Gray-headed coneflower	sun & moist to dry	yes
Rosa x 'Nearly Wild'	Wild rose	sun/part shade & moist	no
Schizachyrium scoparium	Little bluestem	sun & wet to dry	yes
Solidago speciosa	Showy goldenrod	sun & wet to dry	yes
Sorghastrum nutans	Indian grass	sun & wet to dry	yes
Sporobolus cryptandrus	Sand dropseed grass	sun & moist to dry	yes
Sporobolus heterolepis	Prairie dropseed grass	sun & wet to dry	no
Verbena hastata	Blue vervain	sun/part shade & wet to moist	yes

**PLANT LIST**

Landscaping

## CORRIDOR DESIGN GUIDELINES

**SEED MIXES — Clear Zone, Slope Plantings, Infield Plantings**

Name	Description	Michigan Native?
Low-height prairie mix — Clear Zone, Slope Plantings, Under Interchange	Incorporating such grasses and wildflowers as sun sedge, little bluestem, Canada wild rye, sideoats grama, wild bergamot, oxeye, nepeta, rough blazingstar	yes
Stormwater mix — Under Interchange	Incorporating such native plants as big bluestem, switchgrass, woolgrass, fringed sedge, swamp milkweed, boneset, ironweed, blue vervain	yes
Short shoulder edge mix, for mowing — Clear Zone	Incorporating such tough, mowable grasses as slender wheatgrass, blue grama, fescues, perennial rye, alkali grass	yes

**PLANT LIST**

# CORRIDOR DESIGN GUIDELINES

## TREES — Slope Plantings, Boulevard Trees



Austrian pine, *Pinus nigra*



Eastern red cedar, *Juniperus virginiana*



Red Maple, *Acer x fremanii* 'Autumn Blaze'



Red maple, acer 'Autumn Radiance'



Honeylocust, *Gleditsia triacanthos*



Black tupelo, *Nyssa sylvatica*



Ohio buckeye, *Aesculus glabra*



Swamp white oak, *Quercus bicolor*



Crabapple, *Malus* 'Prairie Fire'



Hawthorn, *Crataegus crusgalli*



Serviceberry, *Amelanchier x grandiflora* 'Autumn Brilliance'



Littleleaf linden, *Tilia cordata* 'Greenspire'

## PLANT GALLERY

CORRIDOR DESIGN GUIDELINES

**SHRUBS — Slope Plantings, Median Plantings, Boulevard Landscaping, Infield Plantings, Noise Walls**



Blue rug juniper,  
*Juniperus horizontalis*  
'Wiltonii'



Yew, *Taxus x media*



Common witch hazel,  
*Hamamelis virginiana*



Dwarf bush honeysuckle, *Diervilla lonicera*



Smooth sumac,  
*Rhus glabra*



Michigan holly, *Ilex verticillata* (winter)



Red-twig dogwood, *Cornus sericea*  
'Cardinal'



Winged euonymus,  
*Euonymus alata* 'Compactus'



American cranberry bush,  
*Viburnum americanum*



Black chokeberry, *Aronia melanocarpa*



Fragrant sumac, *Rhus aromatica* 'Gro-Low'



Virginia creeper,  
*Parthenocissus quinquefolia*

**VINES — Noise Walls**

**PLANT GALLERY**

CORRIDOR DESIGN GUIDELINES

**HERBACEOUS PLANTS & GRASSES — Slope Plantings, Median Plantings, Boulevard Landscaping, Infield Plantings**



Catmint, *Nepeta x faasenni* 'Walkers Low'



Shrub rose, *Rosa x 'Nearly Wild'*



Lance-leaf coreopsis, *Coreopsis lanceolata*



Little bluestem, *Schizachyrium scoparium*



Sun sedge, *Carex pennsylvanica*



Azure aster, *Aster oolentangiensis*



Showy goldenrod, *Solidago speciosa*



Wild bergamot, *Monarda fistulosa*



Gray-headed coneflower, *Ratibida pinnata*



Rough blazingstar, *Liatris aspera*



Blue vervain, *Verbena hastata*



Prairie dropseed, *Sporobolus heterolepis*



Indian grass, *Sorghastrum nutans* (fall)



Switchgrass, *Panicum virgatum* (summer)



Switchgrass, *Panicum virgatum* (winter)

**PLANT GALLERY**

Landscaping

CORRIDOR DESIGN GUIDELINES

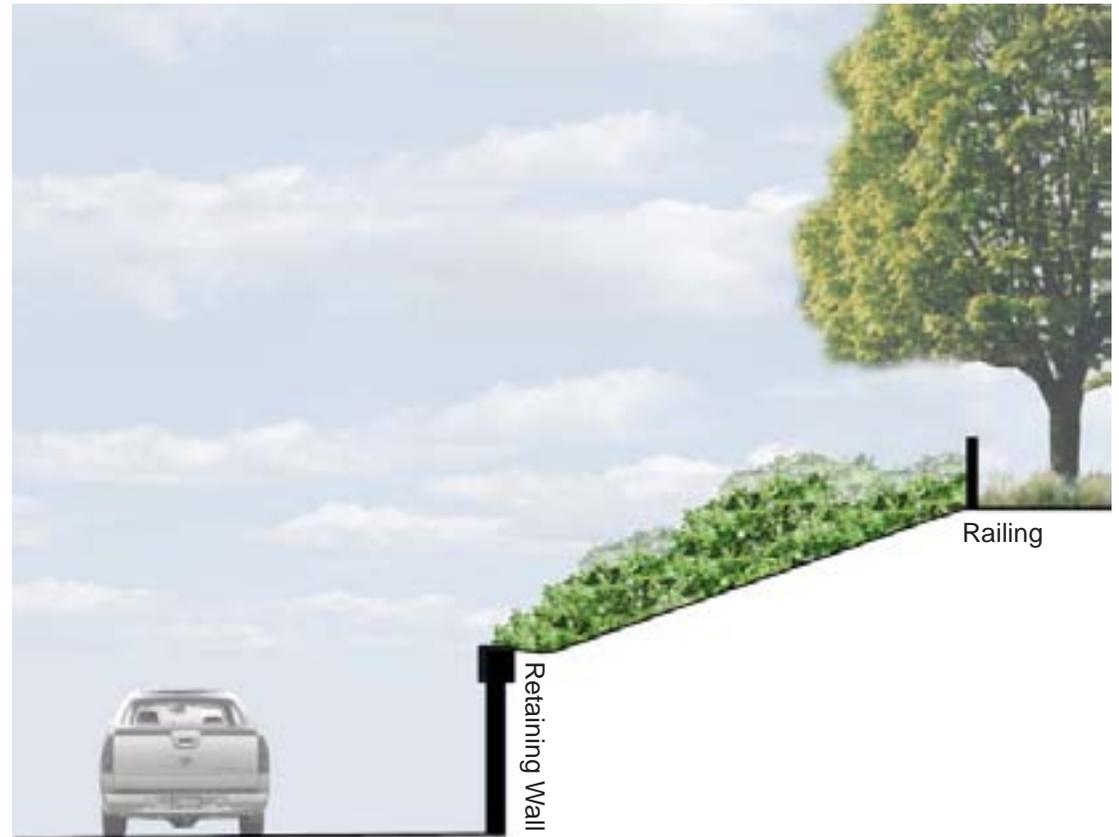


SERVICE DRIVE NORTH

**M-10 INTERCHANGE PLANTING AT NOISE WALL**



Example of existing slope plantings on M-10 using shrubs and grasses

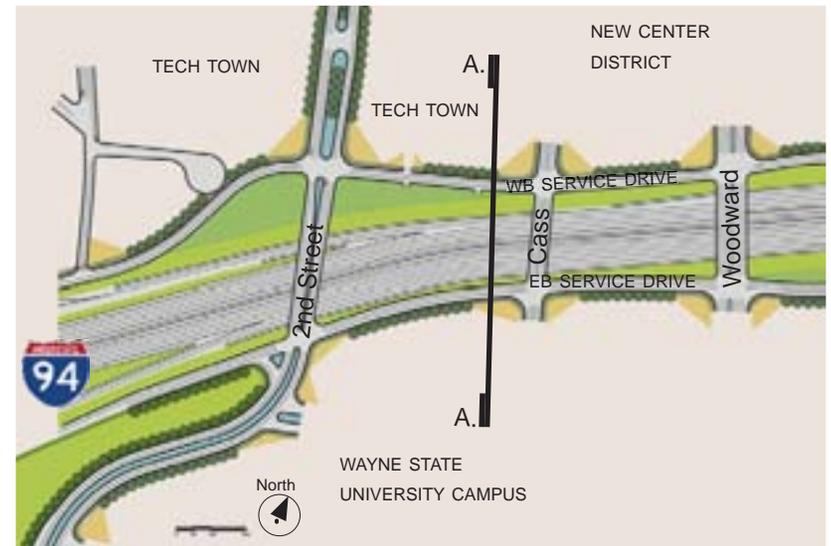


**I-94 MAINLINE RETAINING WALL & SLOPE PLANTING**

Notes: Sightlines and setbacks will be determined during final design. Height of noise walls and retaining walls varies.

**TYPICAL PLANTINGS – NOISE WALL & RETAINING WALL**

# CORRIDOR DESIGN GUIDELINES

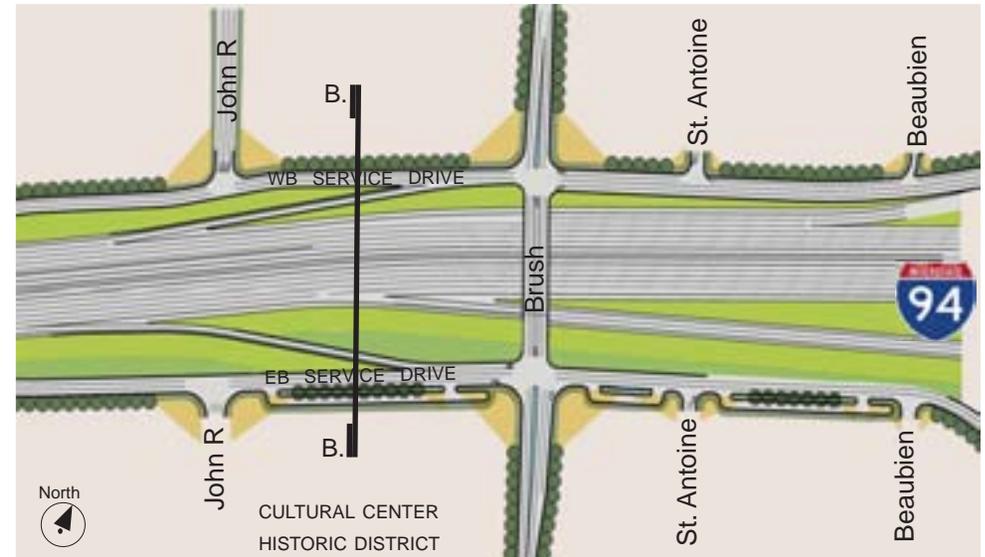


Notes: Sightlines and setbacks will be determined during final design. Height of retaining walls varies.

## SECTION A.A. – MAINLINE BETWEEN 2ND STREET & CASS AVENUE

Landscaping

CORRIDOR DESIGN GUIDELINES



Notes: Sightlines and setbacks will be determined during final design. Height of retaining walls varies.

**SECTION B.B. – MAINLINE BETWEEN JOHN R. & BRUSH STREETS**

Landscaping

CORRIDOR DESIGN GUIDELINES



**3 SUMMARY**

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## CORRIDOR DESIGN GUIDELINES

### Summary

#### Corridor Design Guidelines

The Corridor Design Guidelines in this document were developed with the input of the public and the Design Review Committee convened by the project team.

The Guidelines address Neighborhood Connector Bridges, Community Connector Bridges and Interchange Ramps as well as Corridor Landscaping.

Comprehensive conceptual designs are offered for major freeway elements including bridge piers; cast in place and/or MSE retaining walls; noise walls; interchange ramp piers; lighting; and bridge railings.

These elements are assembled into three families of Aesthetic Design Alternatives:

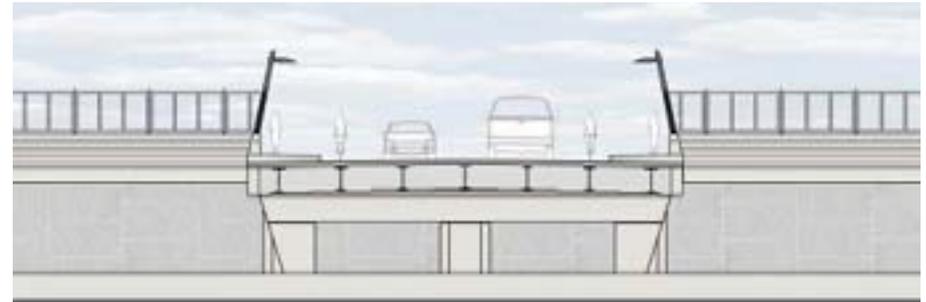
1. Fin Alternative
2. Classical Arch Alternative
3. Barrel Arch Alternative

Common to all three alternatives are lighting fixtures and bridge railings.

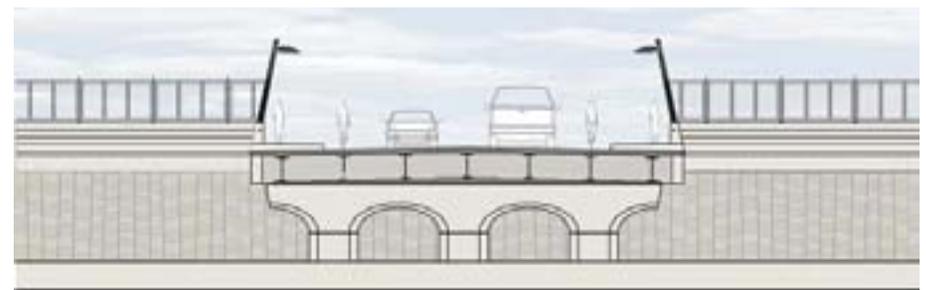
Color palettes are suggested for the elements of each alternative, but the colors are interchangeable among the alternatives.

Landscape Prototypes for four corridor conditions are illustrated and a plant list and gallery of plant images are provided.

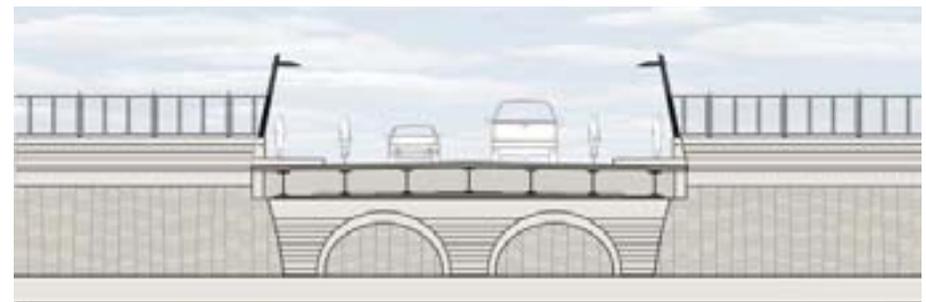
### Three Families of Design Alternatives



1. Fin Alternative with Constellation Pattern Wall



2. Classical Arch Alternative with Textile Pattern Wall



3. Barrel Arch Alternative with Textile Pattern Wall

## CORRIDOR DESIGN GUIDELINES

### Public Meeting and Work Session

On April 21, 2010, an open public meeting and work session was held to review and respond to the Aesthetic Design Alternatives.

In addition to the alternatives illustrated in these Guidelines, three alternatives were proposed at this meeting that expand upon the concept of Civic/ Neighborhood Zones introduced on pages 14 and 15 for Neighborhood Connector Bridges and Community Connector Bridges. Conceptual approaches were offered for paving; plantings; and public art for these Civic/ Neighborhood Zones.

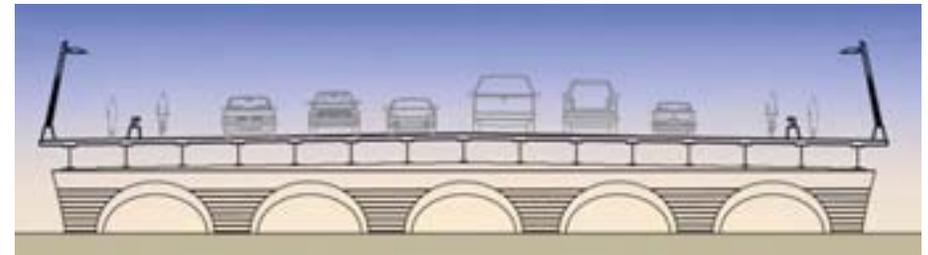
The following section describes the public's response to the alternatives which were presented in a series of display boards and take-away handouts.

### Preferences and Trends

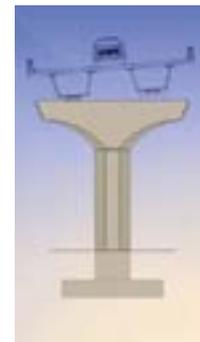
Approximately 50 members of the public attended the meeting. They were invited to give input on the community's preferences by applying colored dot stickers to the display boards illustrating the alternatives.

The Barrel Arch Alternative family of elements garnered the most affirmative votes, followed by the Classical Arch Alternative. The Fin Design Alternative was clearly not favored.

The Constellation Pattern for the MSE Panels or Cast in Place Walls and the Noise Walls was endorsed while the Textile Pattern was not. However, the Constellation Pattern is more compatible with the Fin Alternative and not with the arch alternatives. Therefore, subsequent design refinements will be necessary to integrate the Constellation Pattern with the Barrel Arch Alternative.



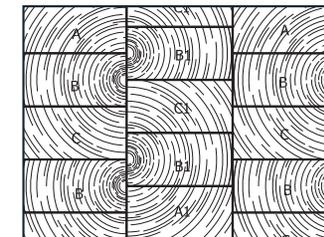
Barrel Arch Alternative



Shallow Arch Ramp Pier



Barrel Arch Illustration



Constellation Wall Pattern – inspiration and details



Constellation Pattern Noise Wall

## CORRIDOR DESIGN GUIDELINES

Bridge railing and lighting options were reviewed. Black vinyl wire mesh fabric was chosen over the stainless steel fabric. One roadway lighting alternative was clearly preferred, and a pedestrian lighting alternative received several votes.

The three concept alternatives for the Civic/ Neighborhood Zones gathered the greatest interest and votes because they will have the most impact upon the surrounding residential and commercial areas.

Eighty-seven total votes were placed on these boards. Of the 48 first-choice votes cast<sup>1</sup>, 38% were in support of Planting Concepts. The five specific plants shown here were especially endorsed.

<sup>1</sup> The first-choice votes are representative of the general trend of the voting on these concepts.



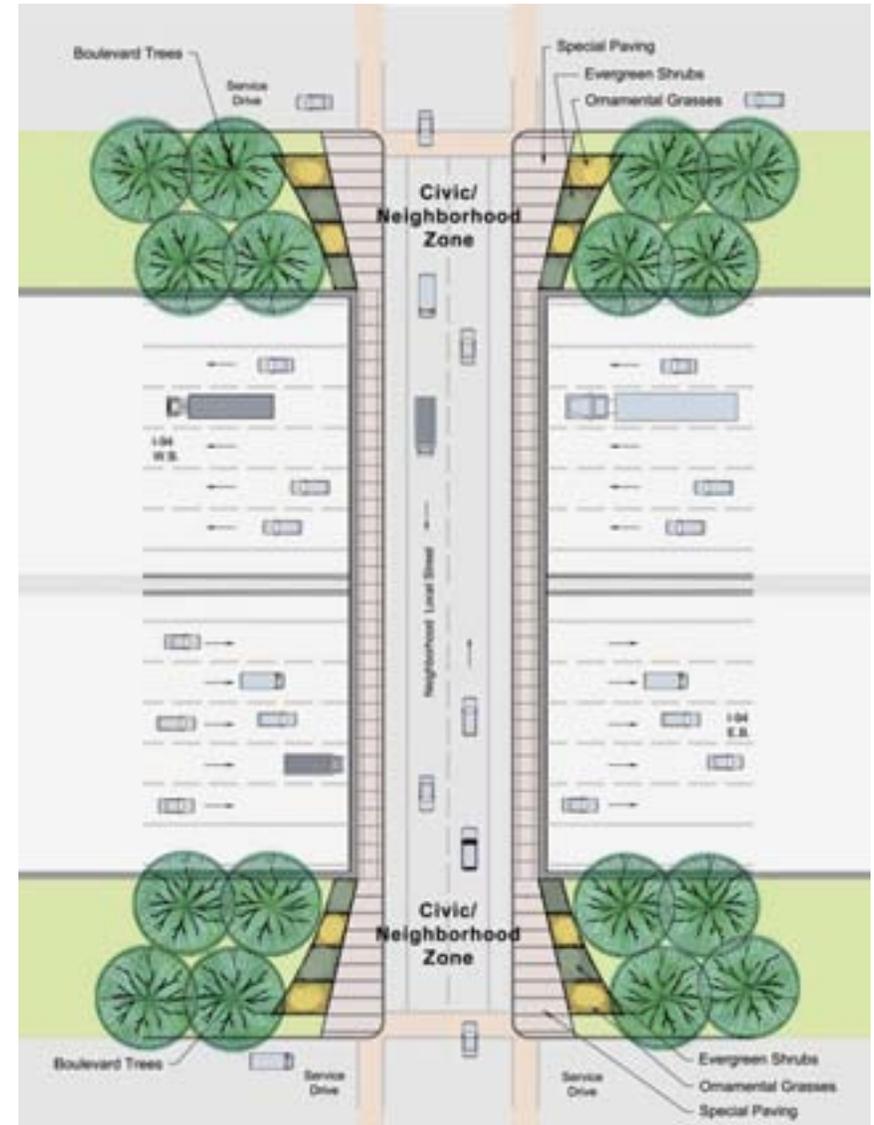
Black Vinyl Wire Mesh Fabric



Pedestrian Lighting



Roadway Lighting



**CIVIC/ NEIGHBORHOOD ZONE PLANTING CONCEPTS**

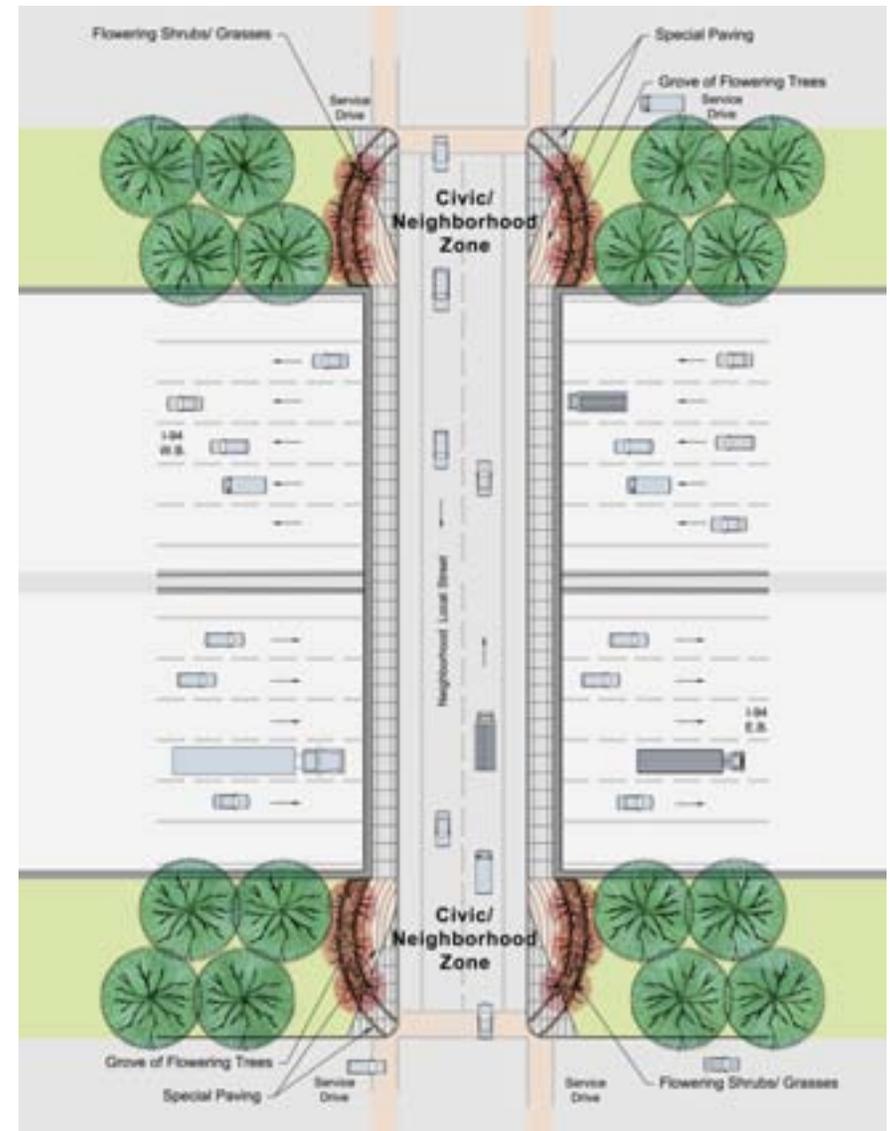
CORRIDOR DESIGN GUIDELINES



**LANDSCAPING PRINCIPLES**

A related informational board about Landscaping Principles also gathered many first- (green) and second-choice (yellow) dots that endorsed Diversity and Seasonal Color, shown above.

Civic/ Neighborhood Zone Paving Concepts received 33% of the 48 first-choice votes. A highly patterned paving treatment (right) was a clear favorite on this board.



**CIVIC/ NEIGHBORHOOD ZONE PAVING CONCEPTS**

## CORRIDOR DESIGN GUIDELINES

Public Art Concepts received 29% of the 48 first-choice votes. Examples of public art including ceramic tile by Detroit's Pewabic Pottery were supported along with ideas for a lighting/beacon marker.

### Next Steps

MDOT will proceed with detailed design development for several neighborhood and community bridges over I-94. Design of these replacement bridges will be the first application of the proposed corridor design guidelines and concepts outlined in this report.

During design development, the preferred alternatives and other supported concepts will receive further development and refinement and will be adapted to specific site conditions.



Examples of tile by Pewabic Pottery, Detroit



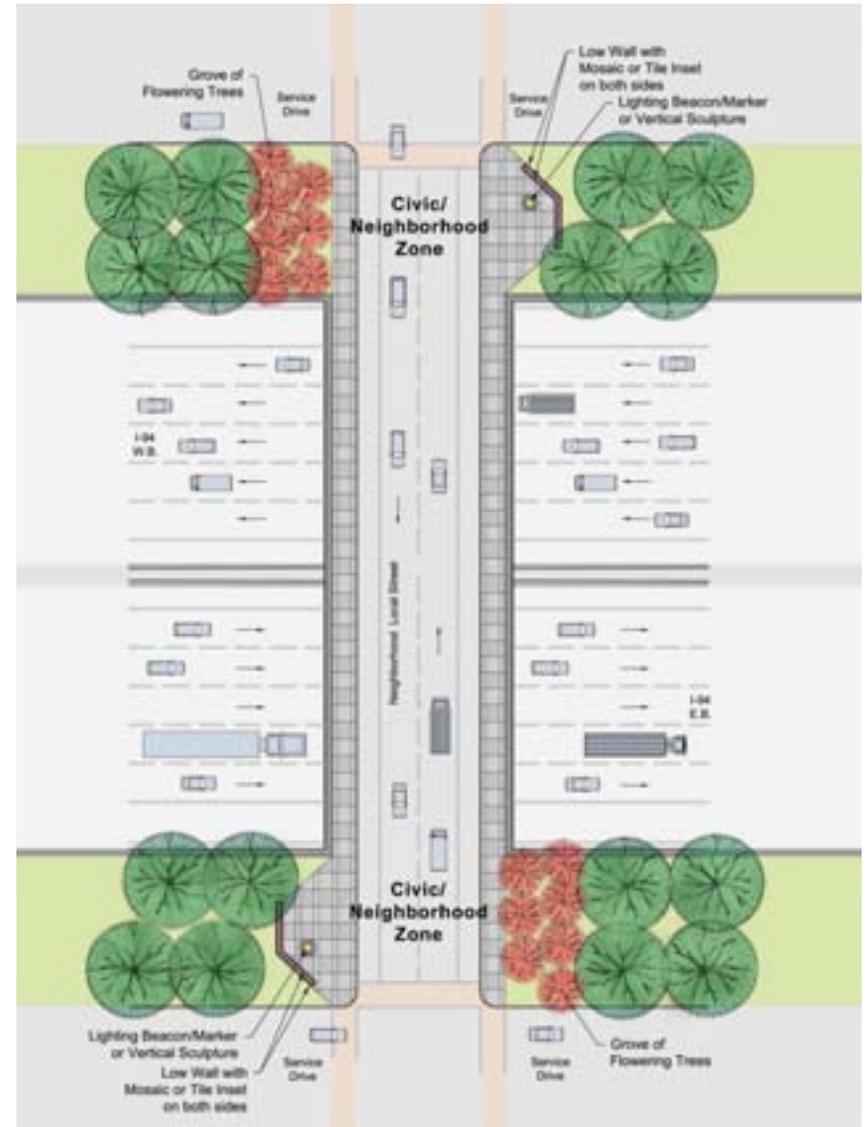
Sculptural lighting beacon/marker, Cliff Garen, CA



Ceramic bench, Anjelica Pozo, OH



Mural proposal, Hubert Massey, Detroit



CIVIC/ NEIGHBORHOOD ZONE PUBLIC ART CONCEPTS

## 4 ACKNOWLEDGMENTS

## CORRIDOR DESIGN GUIDELINES

## Acknowledgments

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Bob Parsons

Rita Screws

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