Memorandum

CITY OF DALLAS

DATE June 17, 2010

TO Trinity River Corridor Project Committee Members:
David A. Neumann (Chairman)
Steve Salazar (Vice-Chair)
Mayor Pro Tem Dwaine Caraway
Deputy Mayor Pro Tem Pauline Medrano
Carolyn R. Davis
Vonciel Jones Hill
Delia Jasso
Linda Koop

SUBJECT **Continental Bridge Design**

At the next Trinity River Corridor Project Committee meeting on June 22, 2010, the attached briefing will be presented by Ignacio Bunster with Wallace, Roberts & Todd, and Jim Parrish with CH2M-Hill. This briefing will provide an overview of the schematic design to date for the conversion of the Continental Bridge to a park destination and pedestrian crossing over the Trinity River.

Please contact me if you have questions.

Jill A. Jordan, P.E.
Assistant City Manager

THE TRINITY
DALLAS

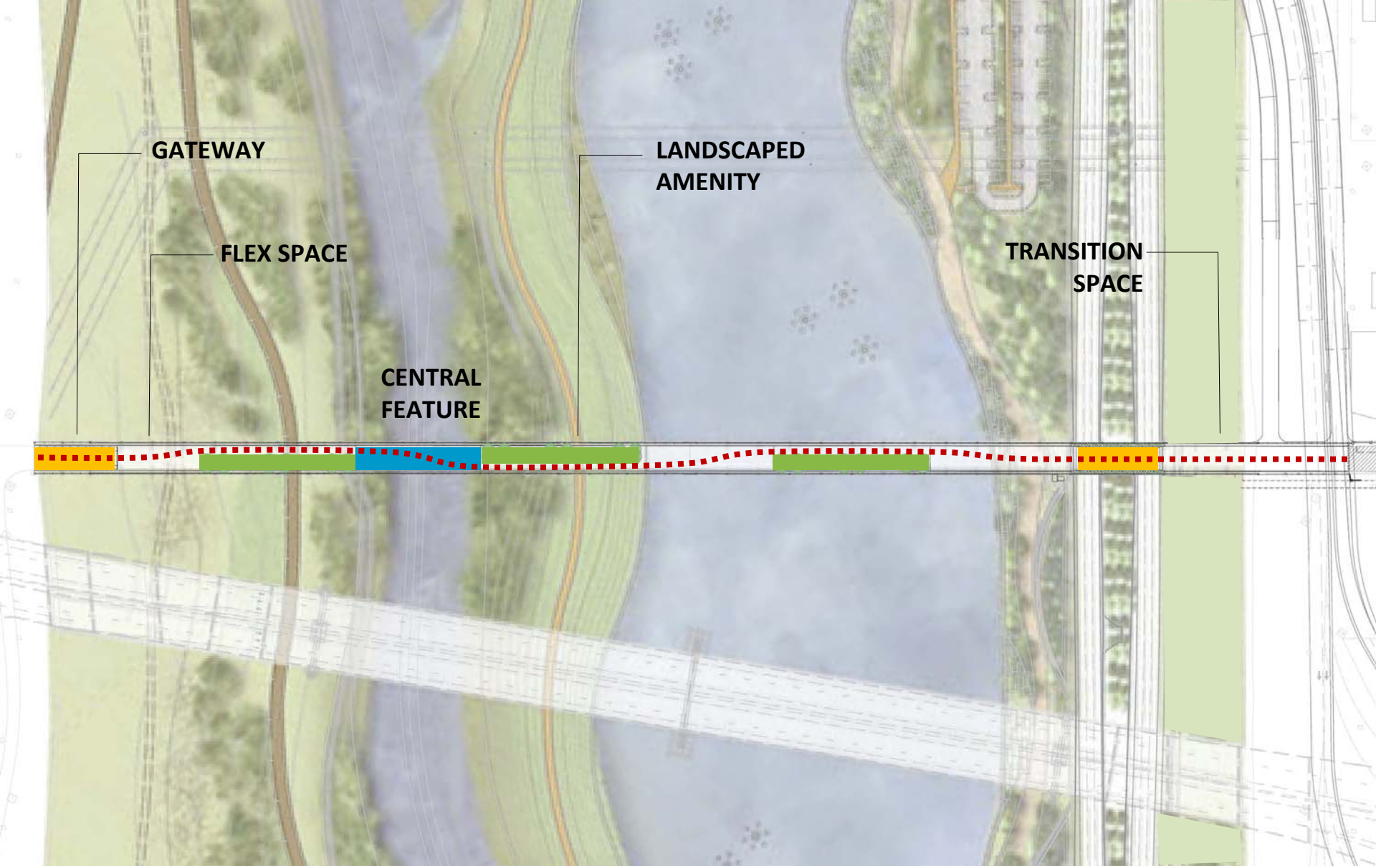
C: Honorable Mayor and Members of the City Council
Mary K. Suhm, City Manager
Ryan S. Evans, First Assistant City Manager
A.C. Gonzalez, Assistant City Manager
Forest E. Turner, Assistant City Manager
Jeanne Chipperfield, Chief Financial Officer
Deborah A. Watkins, City Secretary
Thomas P. Perkins, Jr., City Attorney
Craig D. Kinton, City Auditor
Judge C. Victor Lander
Helena Stevens-Thompson, Assistant to the City Manager
Frank Librio, Director, Public Information Office
Kelly High, Director, Trinity Watershed Management
Rebecca Rasor, P.E., Managing Director, Trinity River Corridor Project

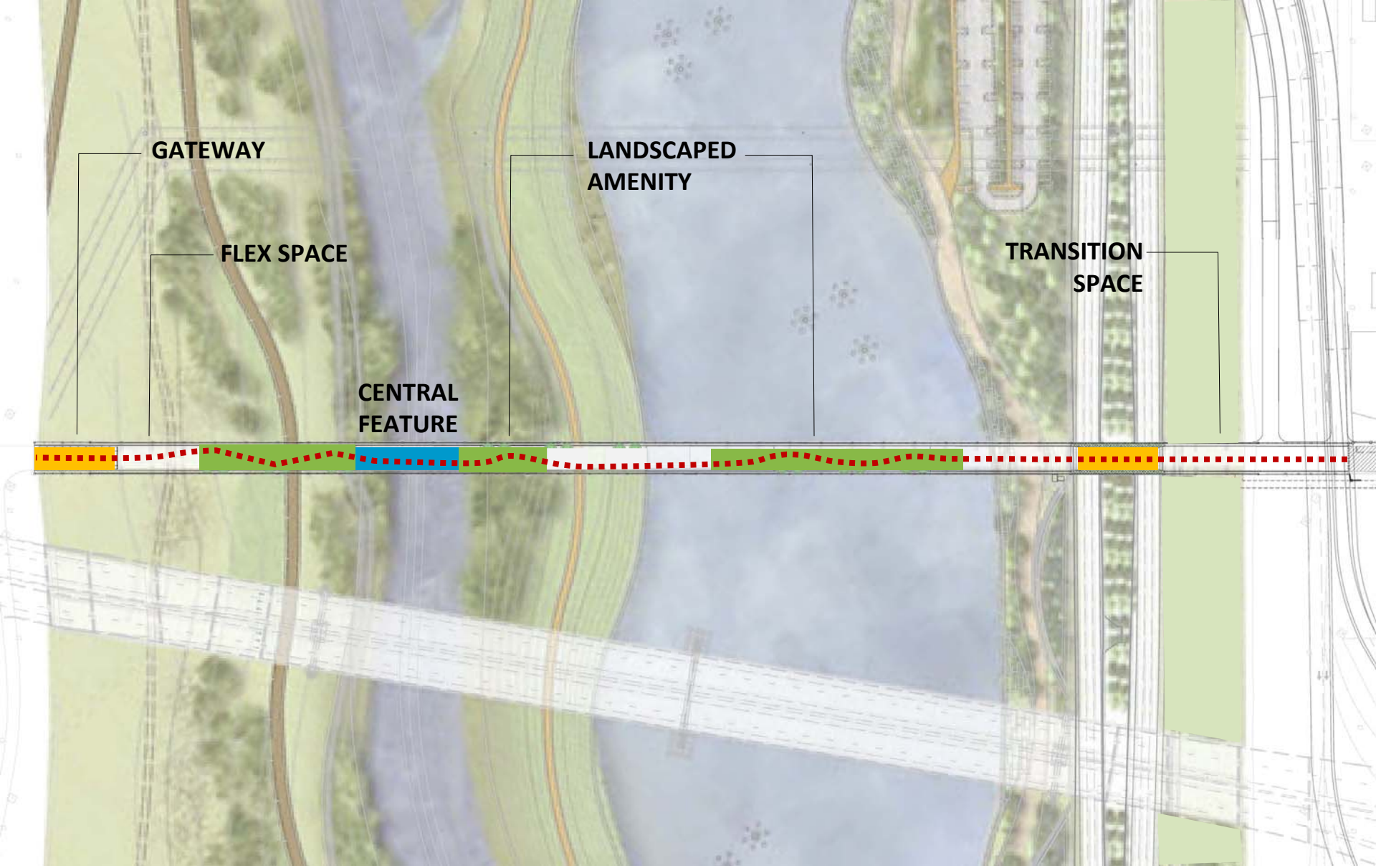
THE TRINITY

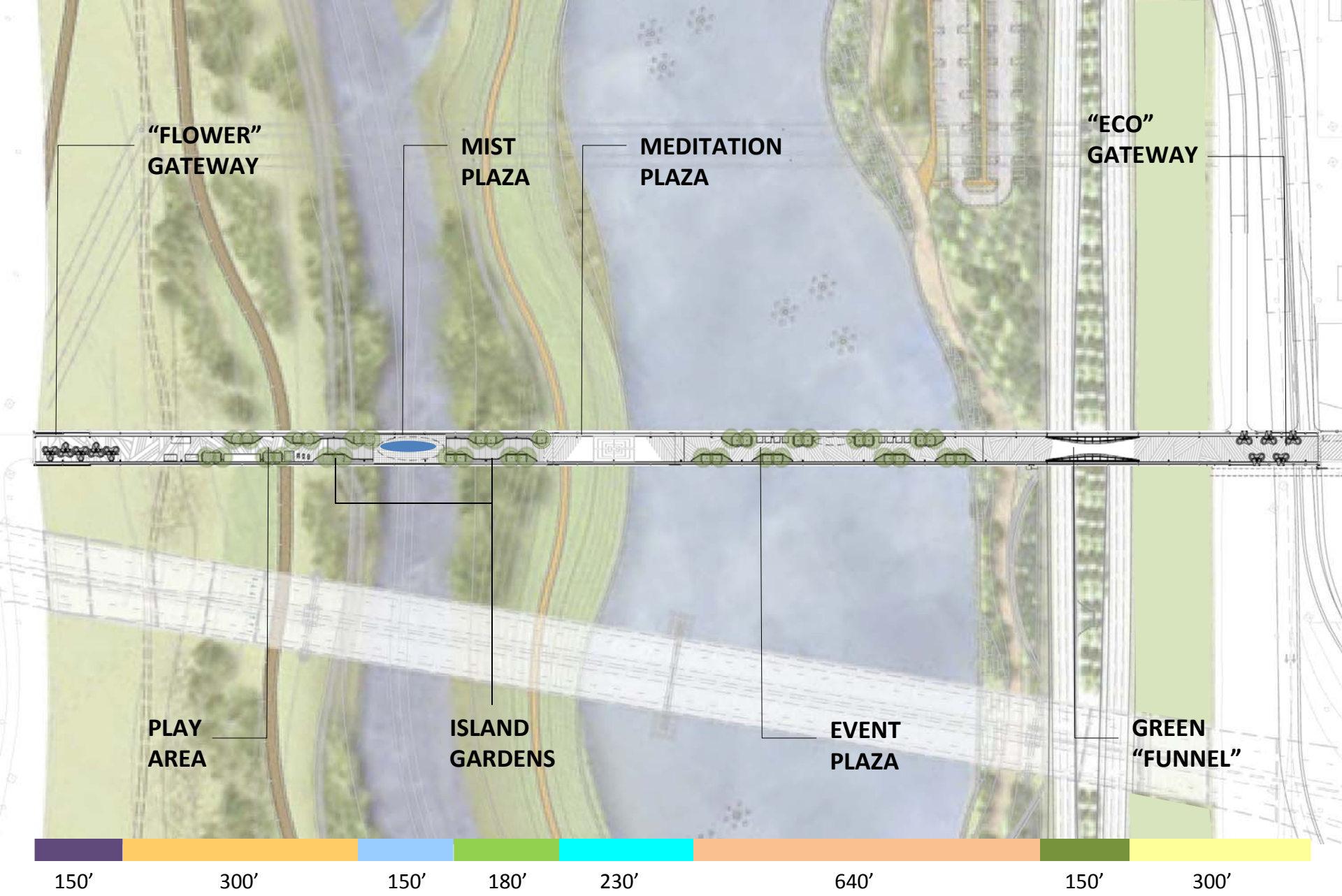
DALLAS

CONTINENTAL BRIDGE DESIGN

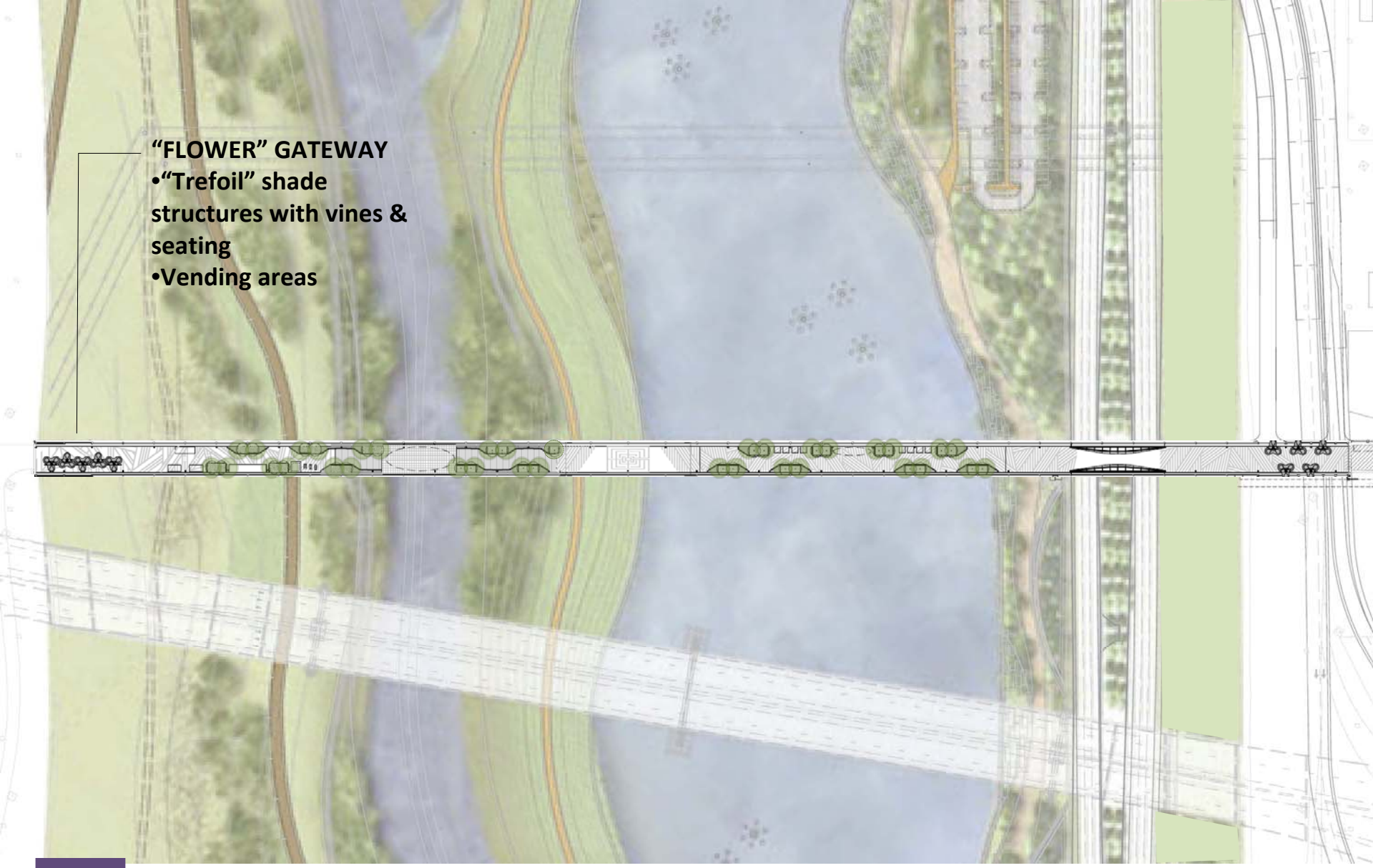
June 22, 2010


GATEWAY
FLEX SPACE
CENTRAL FEATURE
LANDSCAPED AMENITY
TRANSITION SPACE

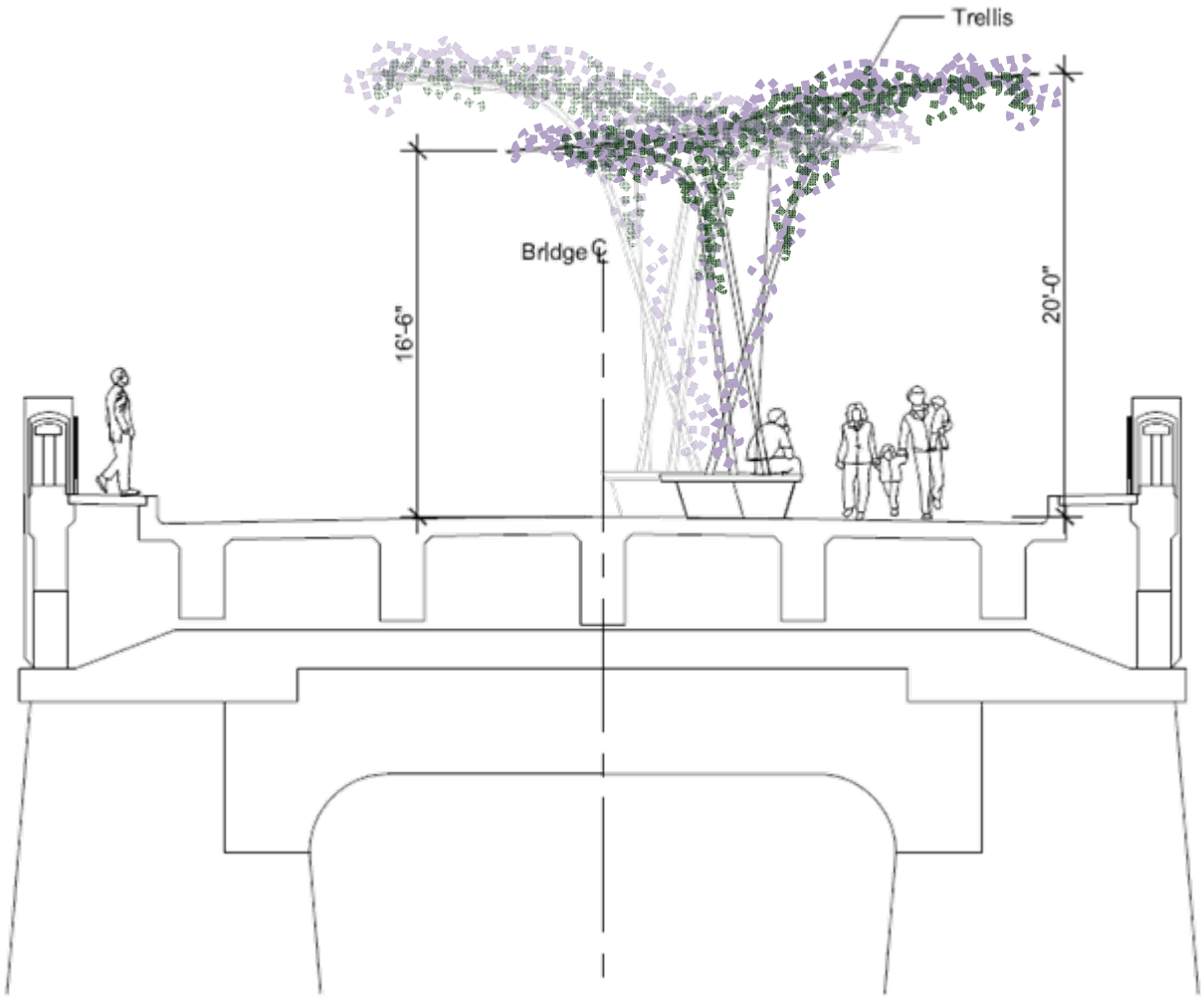

GATEWAY
FLEX SPACE
CENTRAL FEATURE
LANDSCAPED AMENITY
TRANSITION SPACE

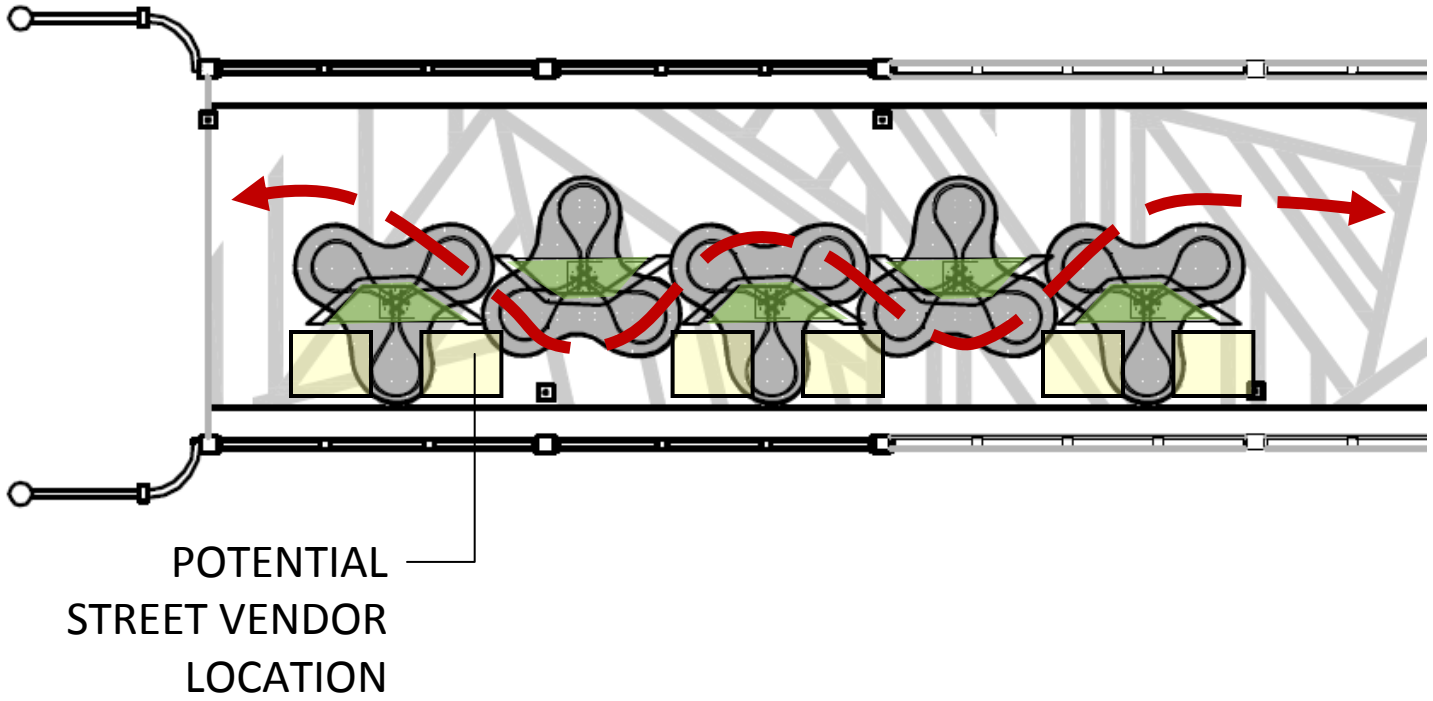


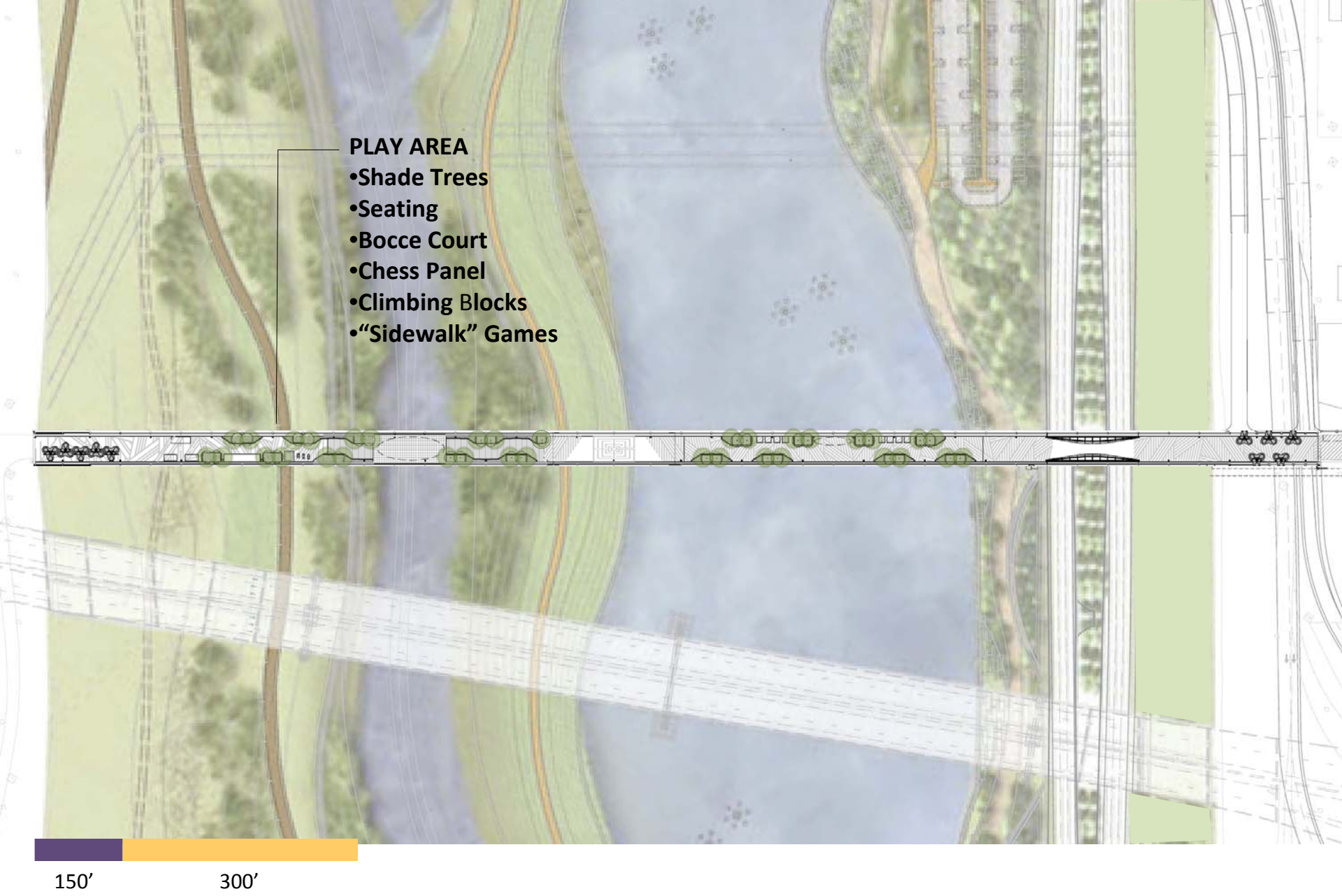
CONTINENTAL BRIDGE DESIGN June 2010

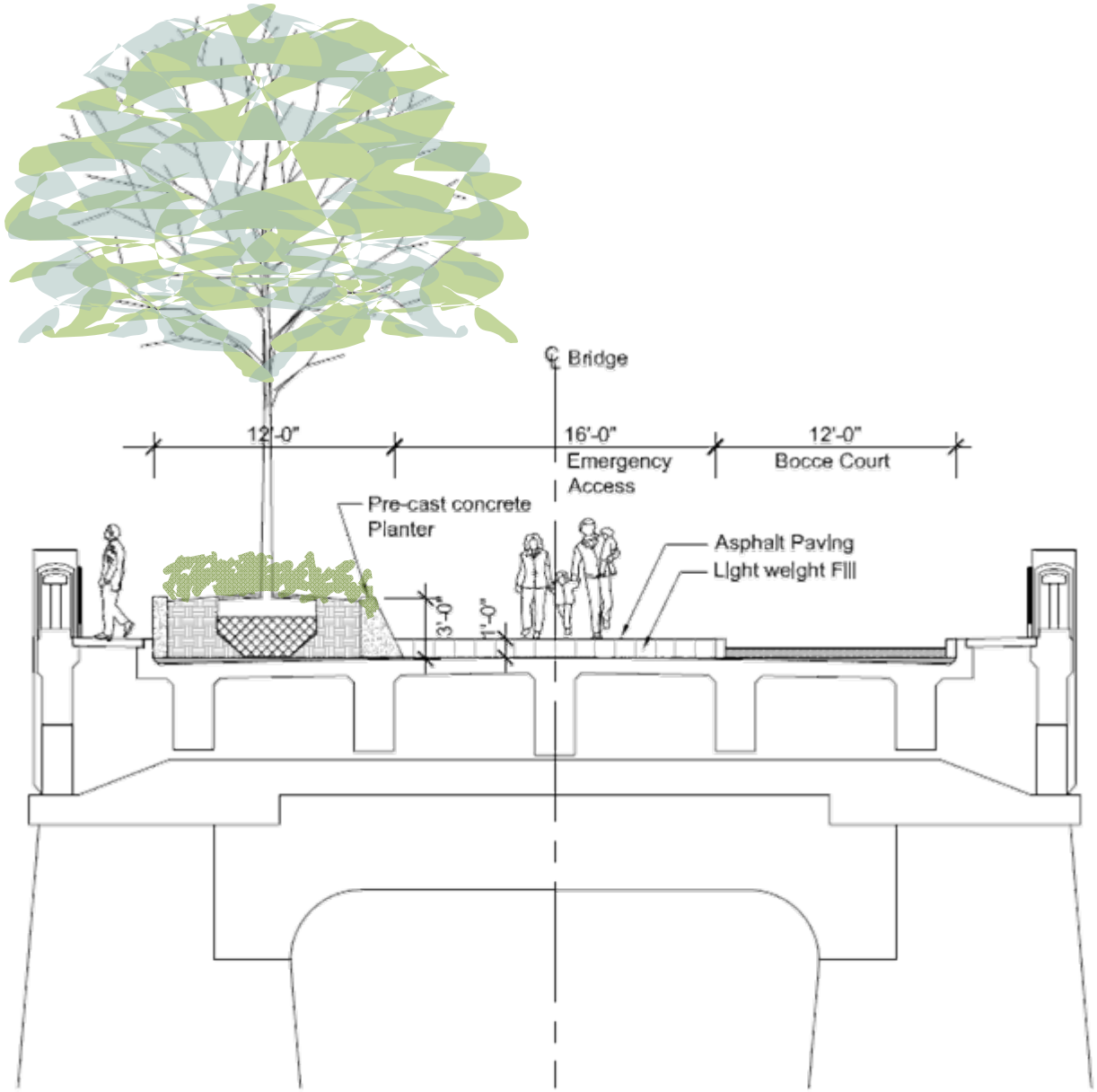

“FLOWER” GATEWAY
•“Trefoil” shade structures with vines & seating
•Vending areas

150’.

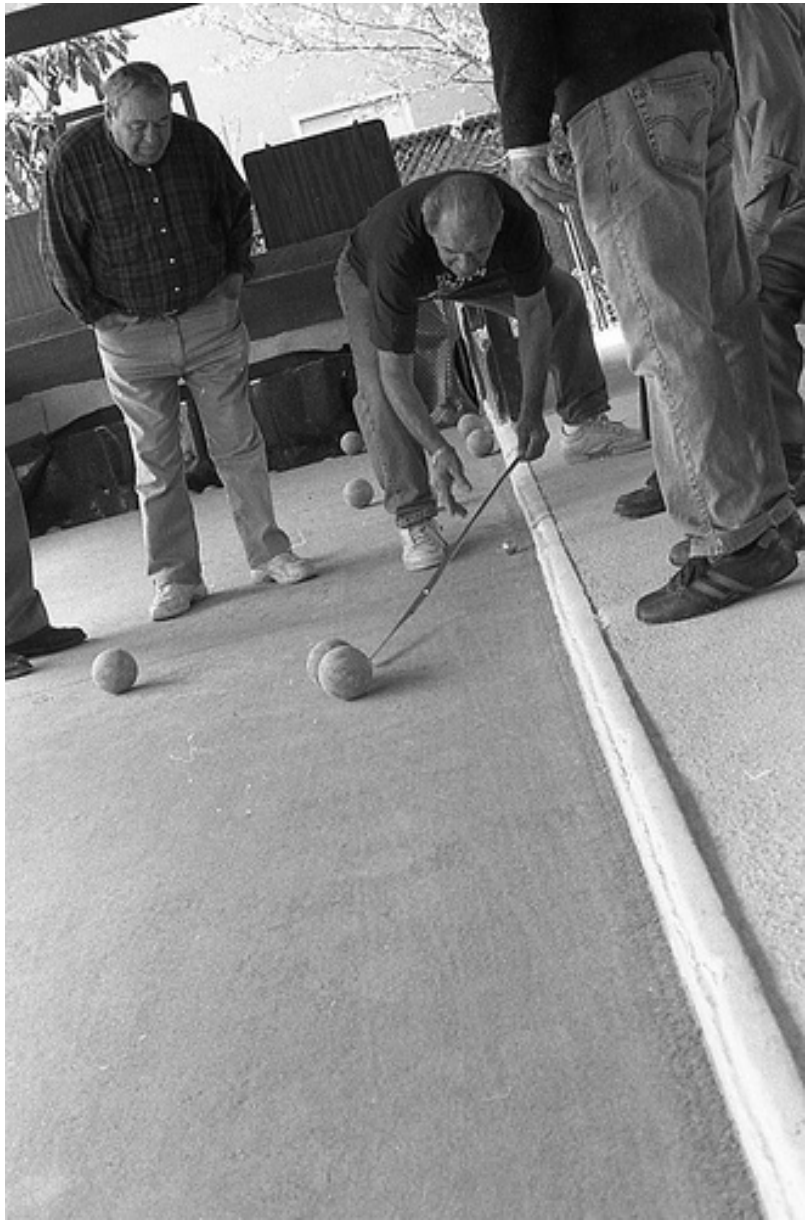

Trellis
Bridge ℄
16'-6"
20'-0"

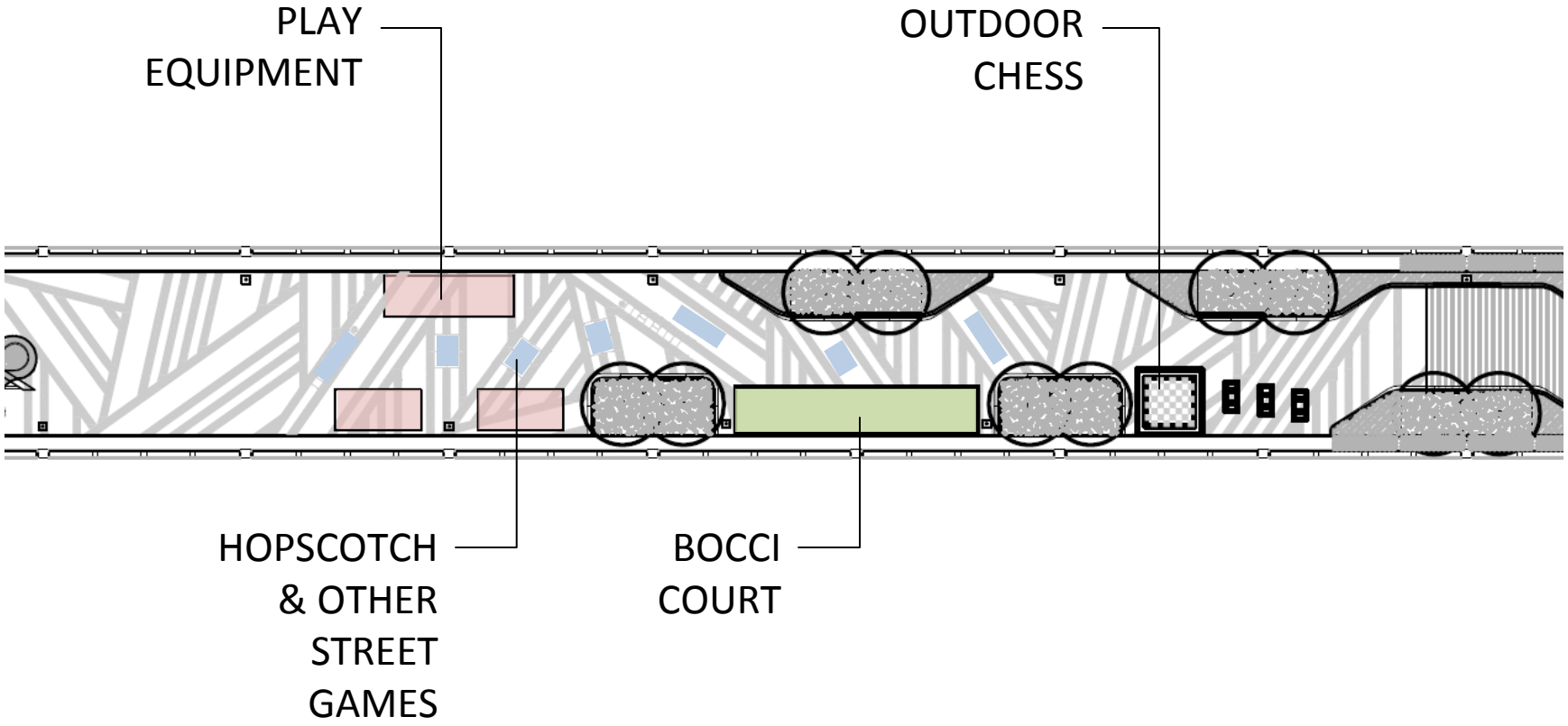

POTENTIAL
STREET VENDOR
LOCATION

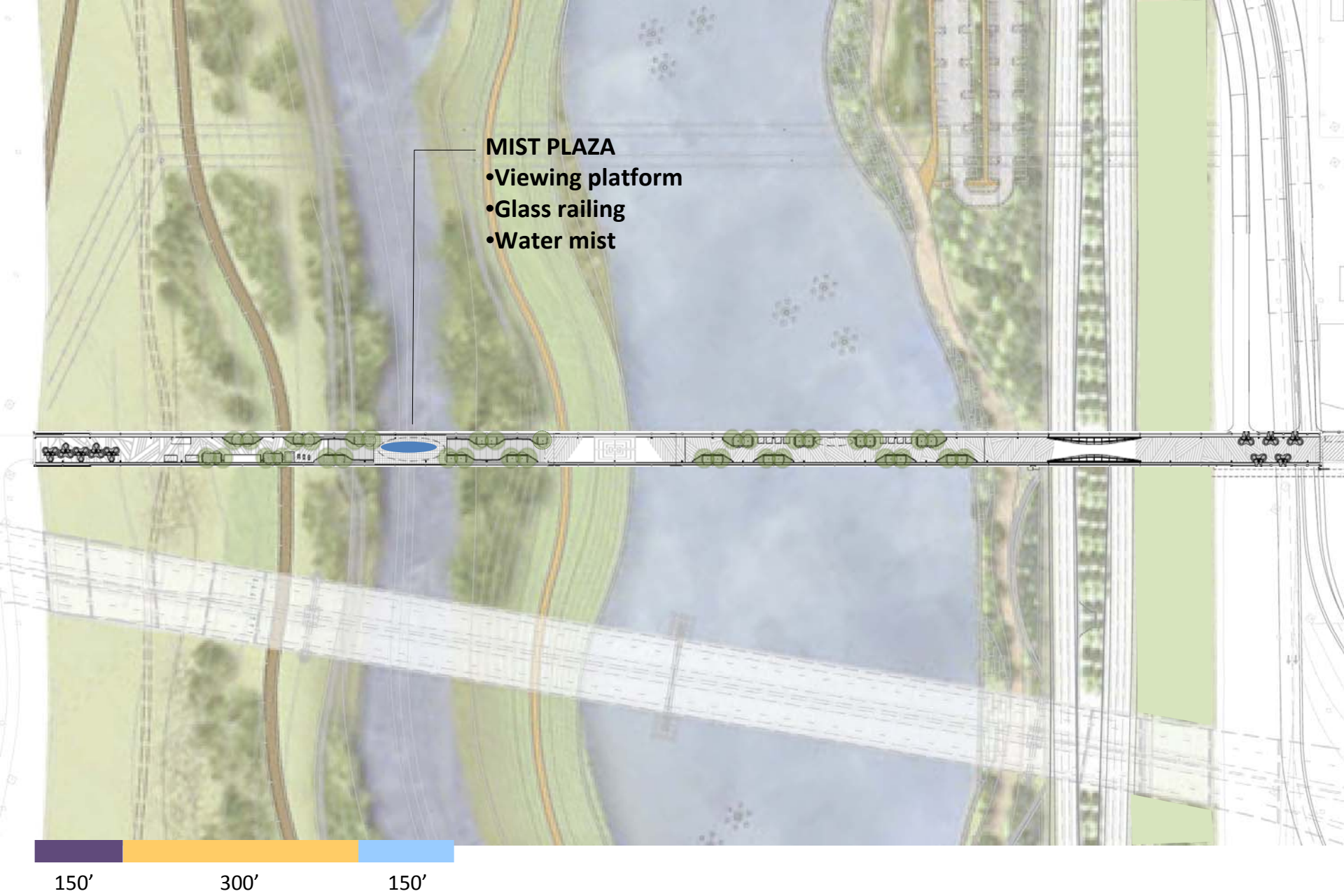

PLAY AREA
•Shade Trees
•Seating
•Bocce Court
•Chess Panel
•Climbing Blocks
•“Sidewalk” Games
150’
300’

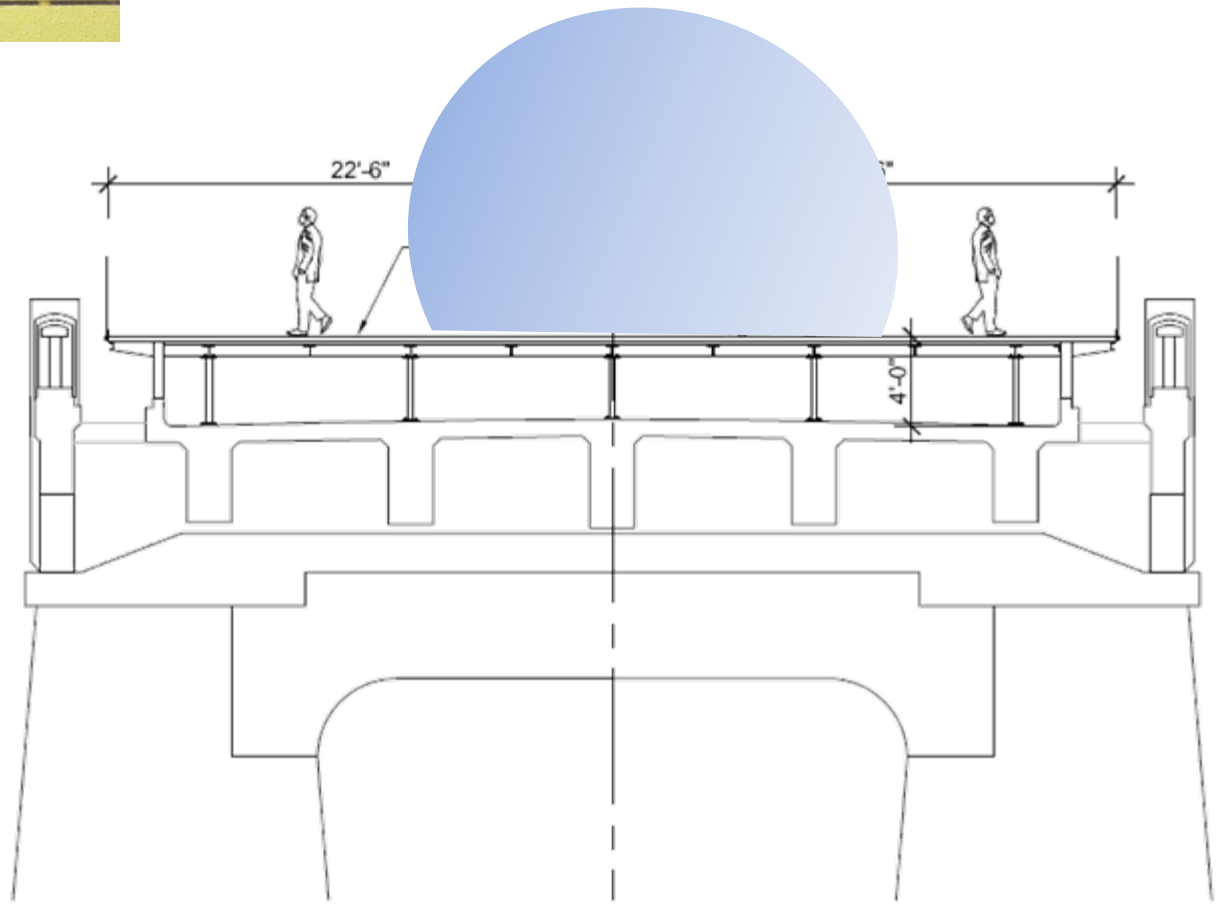

℄ Bridge
12'-0"
16'-0"
Emergency
Access
12'-0"
Bocce Court
Pre-cast concrete
Planter
Asphalt Paving
Light weight Fill
3'-0"
1'-0"

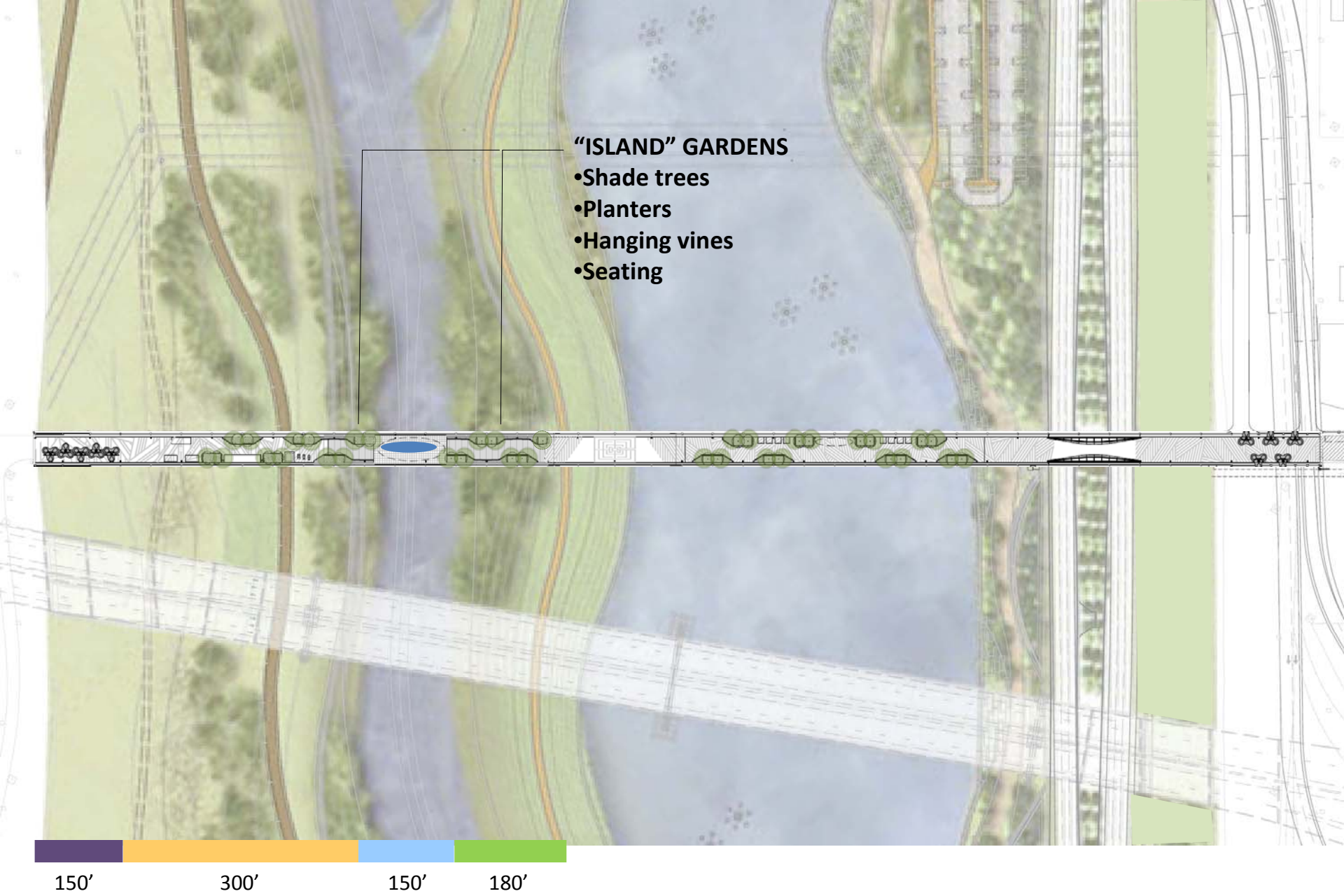
10
9
8
7
5
6
4
2
3
1

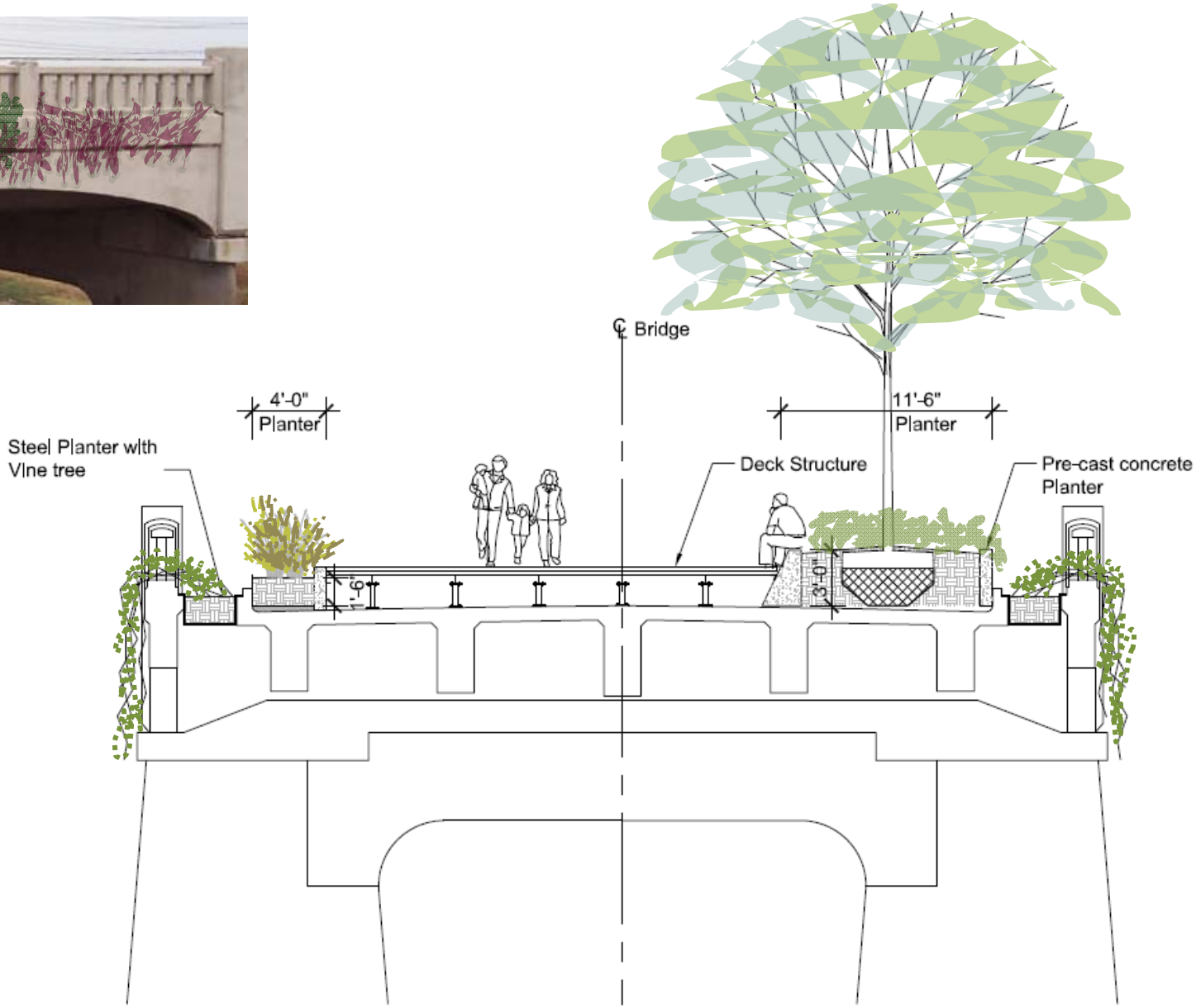


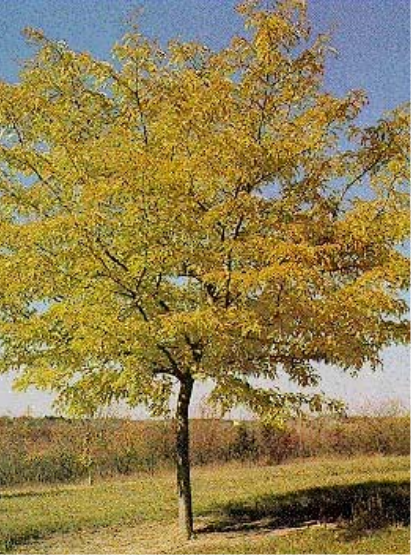

PLAY EQUIPMENT
OUTDOOR CHESS
HOPSCOTCH & OTHER STREET GAMES
BOCCI COURT

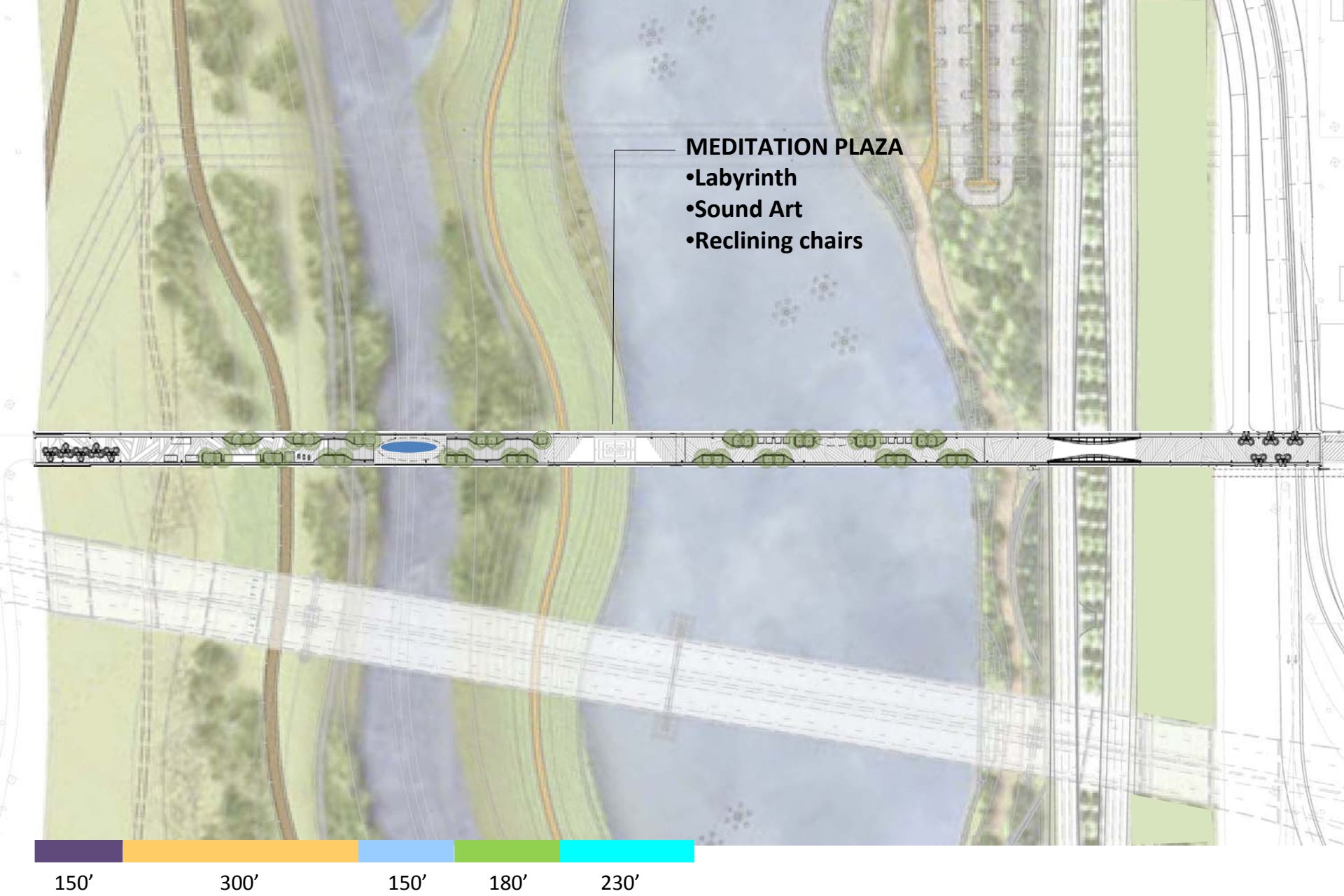

MIST PLAZA
•Viewing platform
•Glass railing
•Water mist
150’
300’
150’

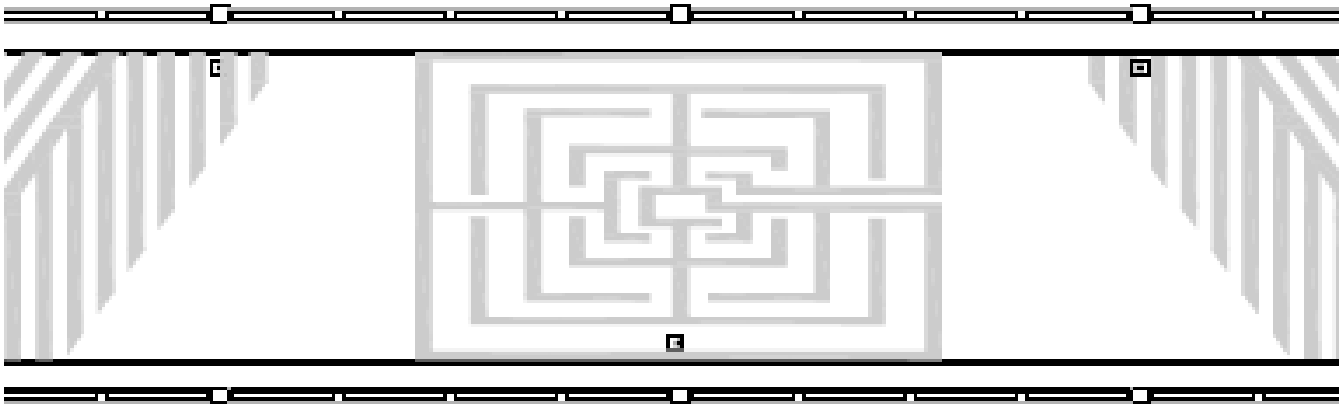

22'-6"
4'-0"

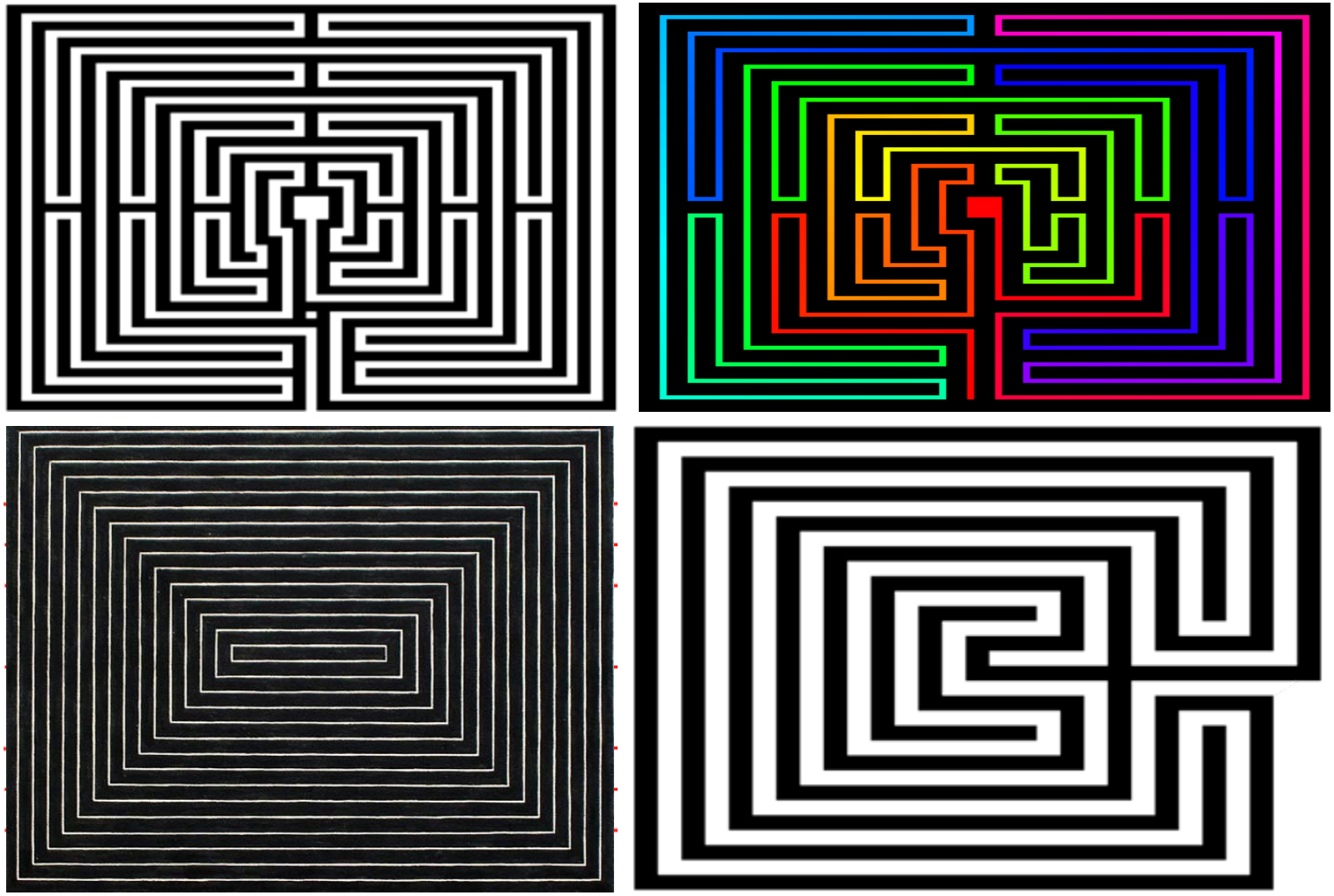

"ISLAND" GARDENS
•Shade trees
•Planters
•Hanging vines
•Seating
150'
300'
150'
180'

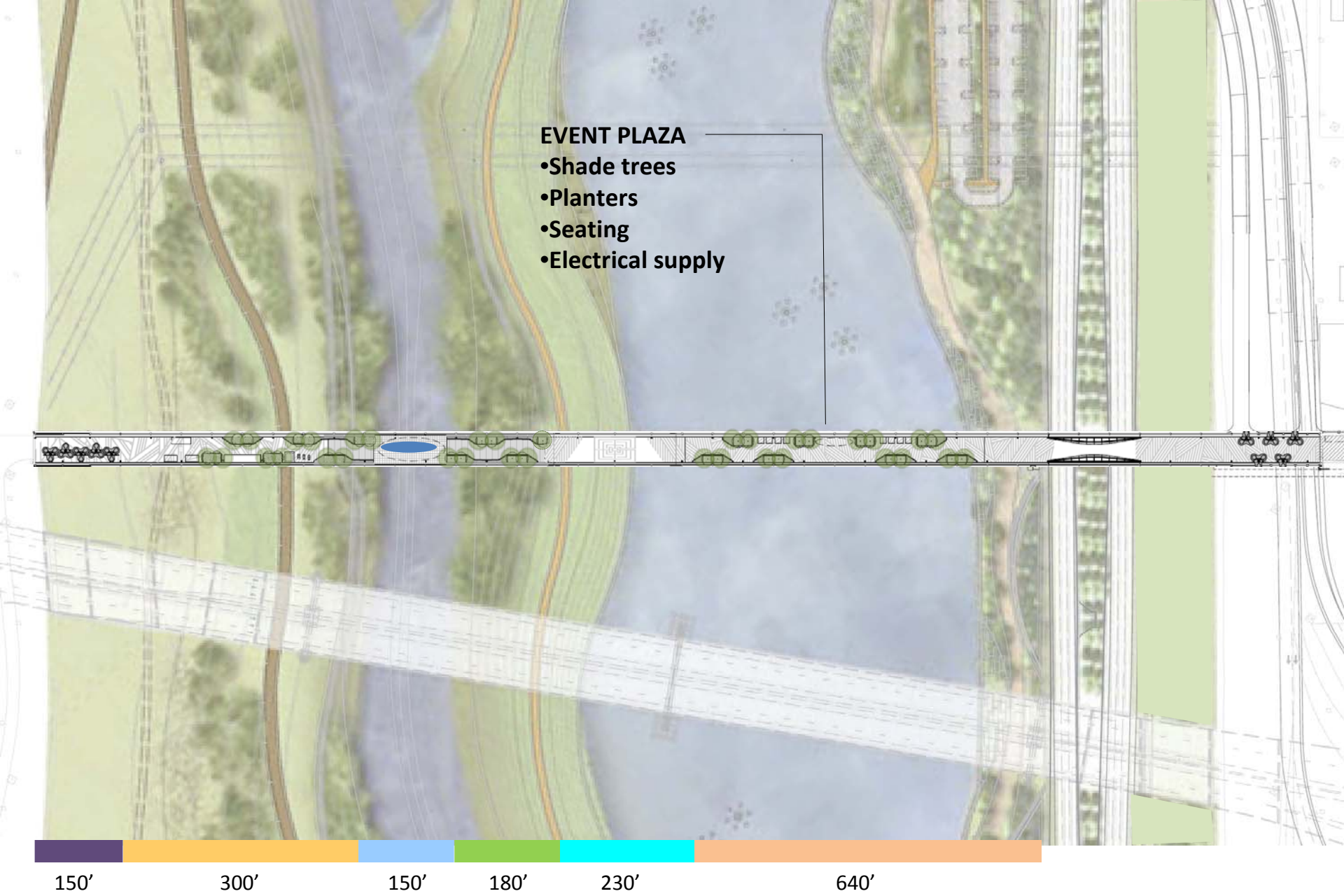

℄ Bridge
4'-0"
Planter
11'-6"
Planter
Steel Planter with
Vine tree
Deck Structure
Pre-cast concrete
Planter
1'-6"
3'-0"

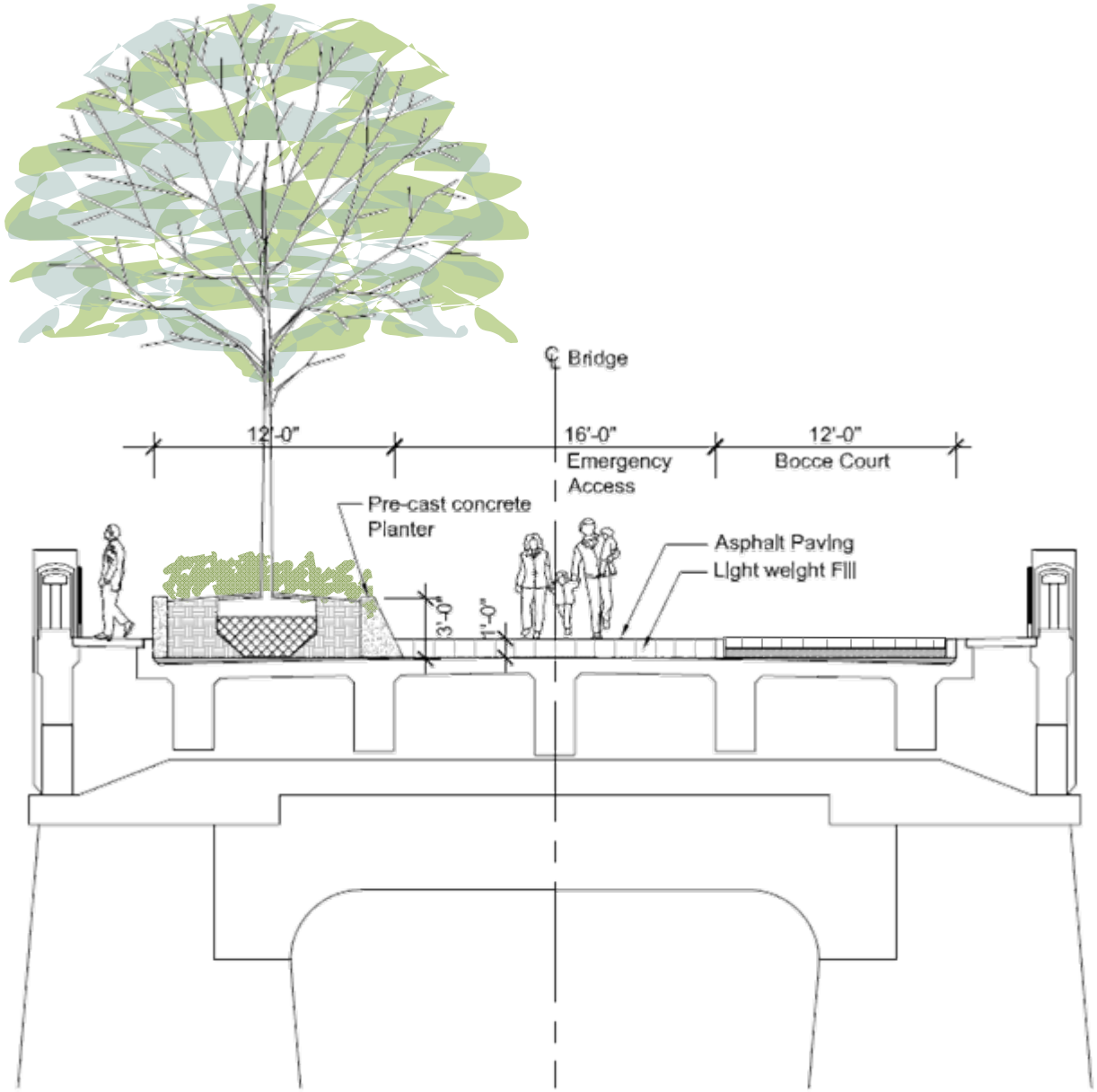


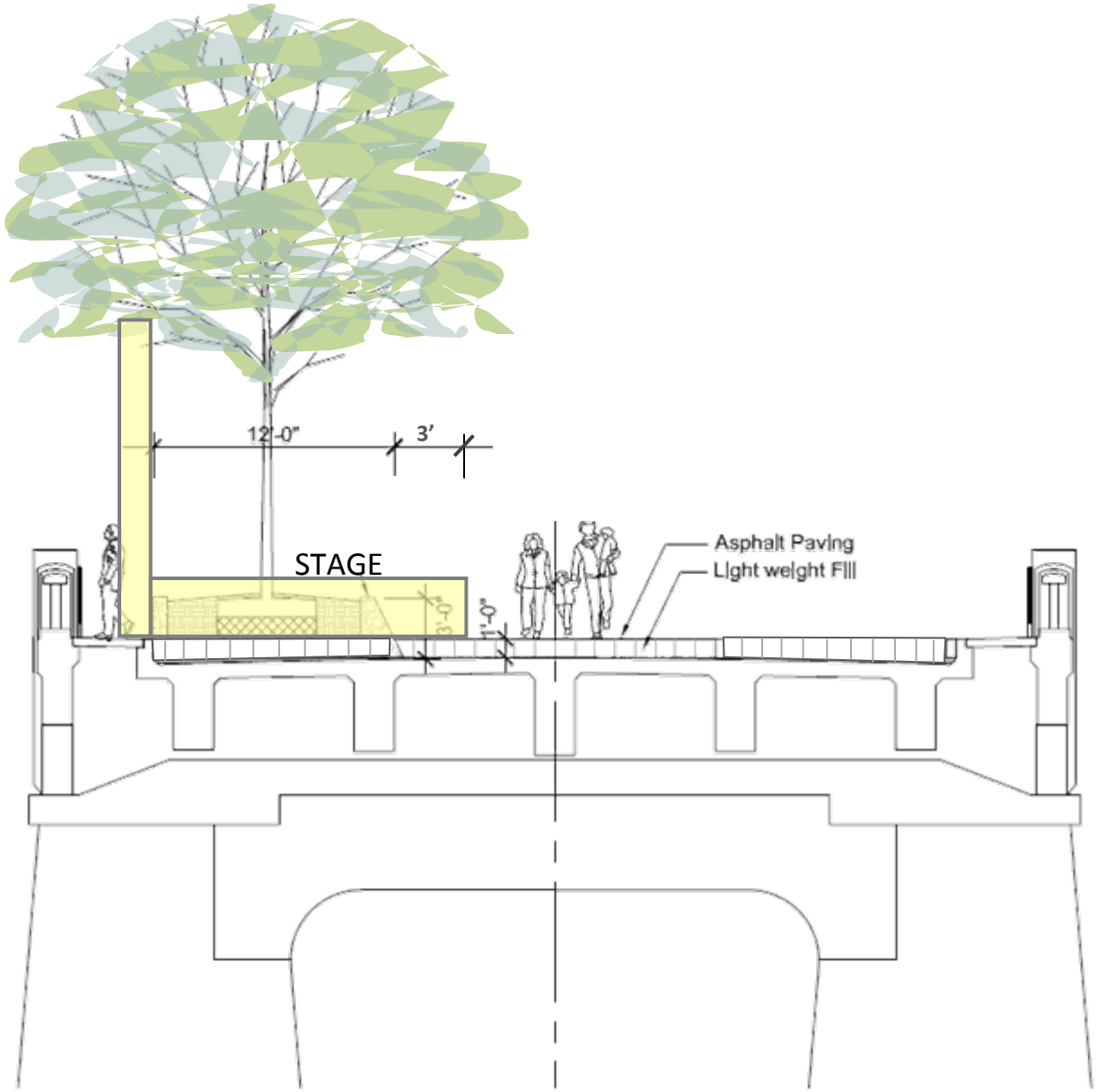

MEDITATION PLAZA
•Labyrinth
•Sound Art
•Reclining chairs
150’
300’
150’
180’
230’

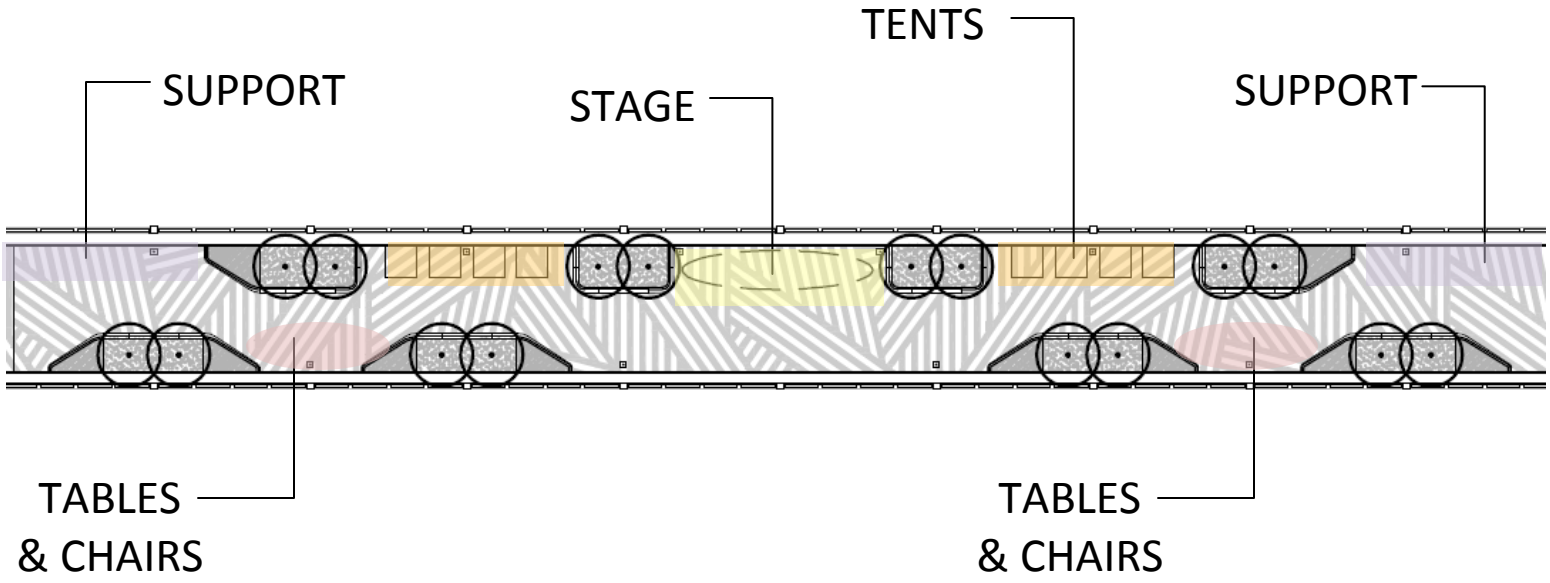


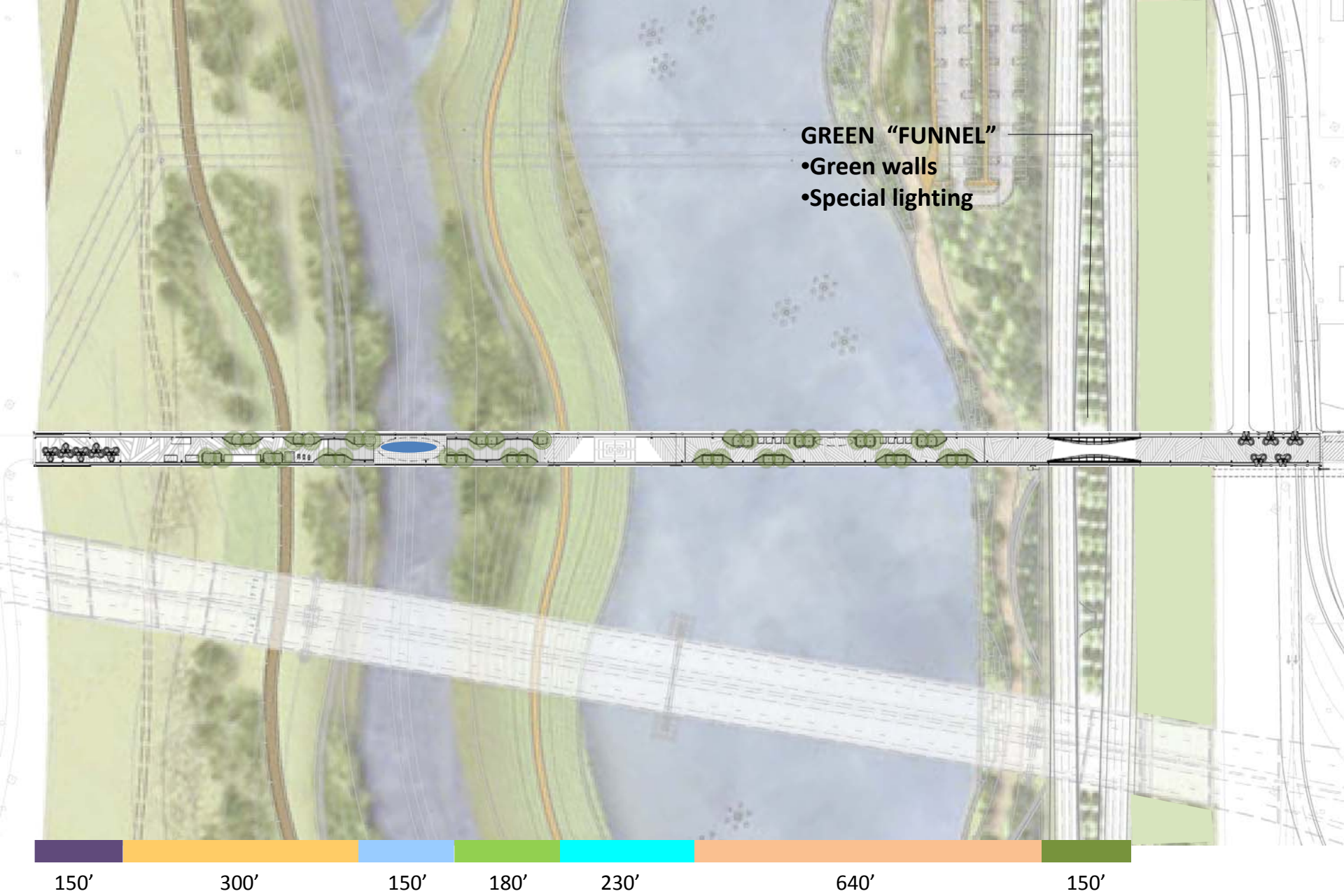



EVENT PLAZA
•Shade trees
•Planters
•Seating
•Electrical supply
150’
300’
150’
180’
230’
640’

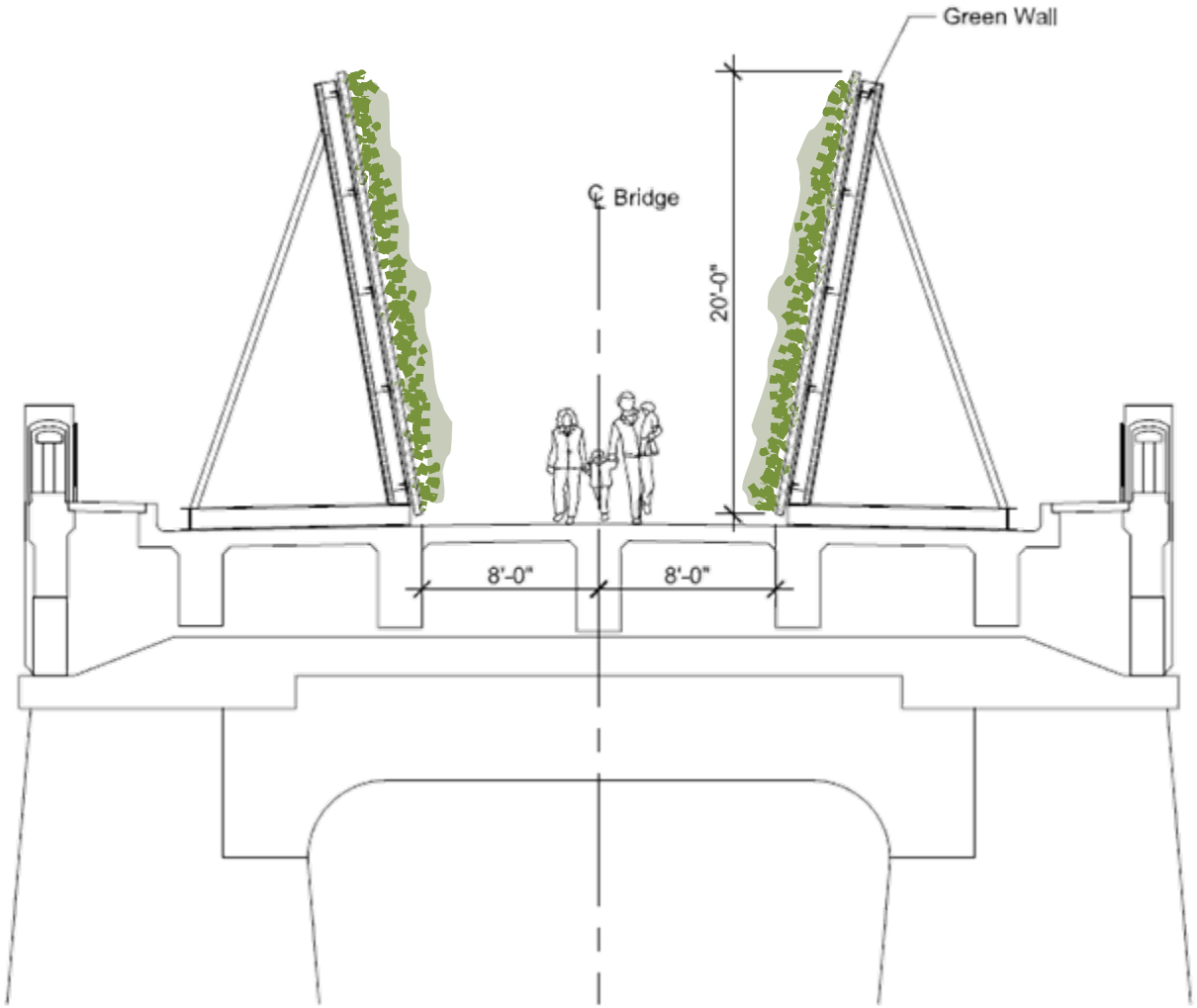

℄ Bridge
12'-0"
16'-0"
Emergency
Access
12'-0"
Bocce Court
Pre-cast concrete
Planter
Asphalt Paving
Light weight Fill
3'-0"
1'-0"


12'-0"
3'
STAGE
1'-0"
Asphalt Paving
Light weight Fill

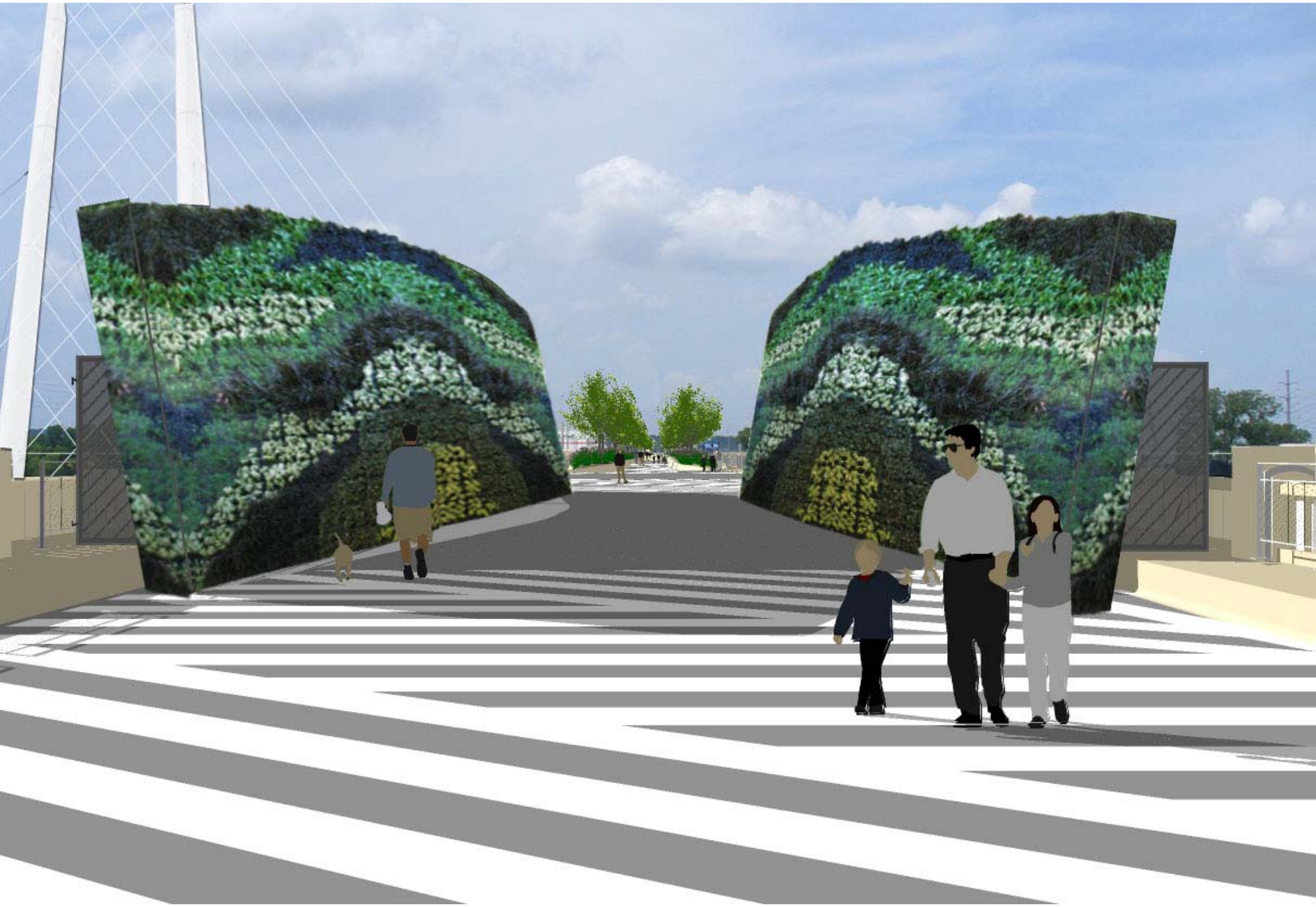

TENTS
SUPPORT
STAGE
SUPPORT
TABLES
& CHAIRS
TABLES
& CHAIRS

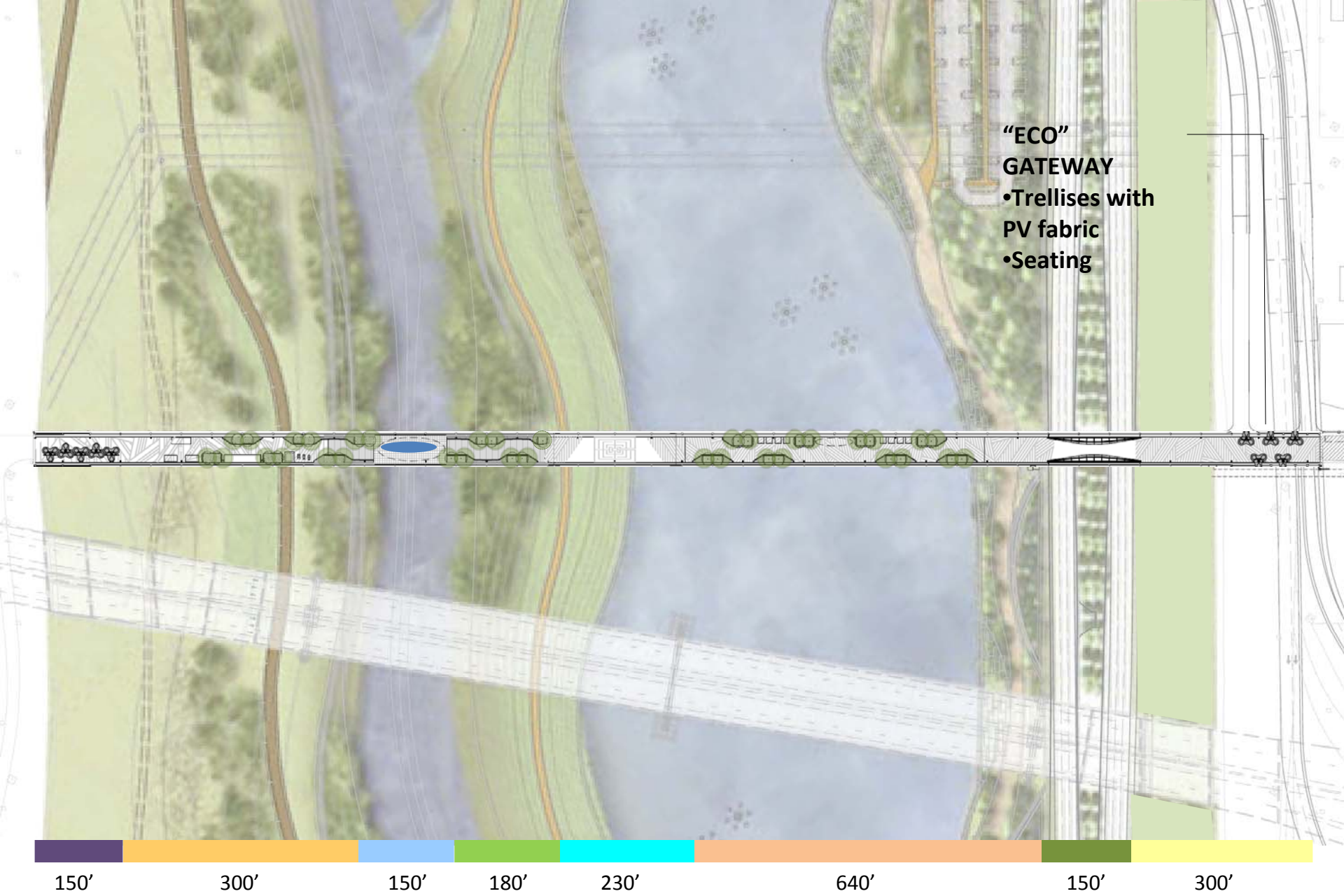


CONTINENTAL BRIDGE DESIGN June 2010

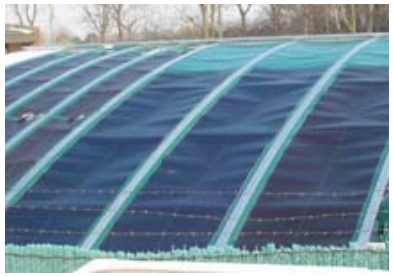

Green Wall
℄ Bridge
20'-0"
8'-0"
8'-0"

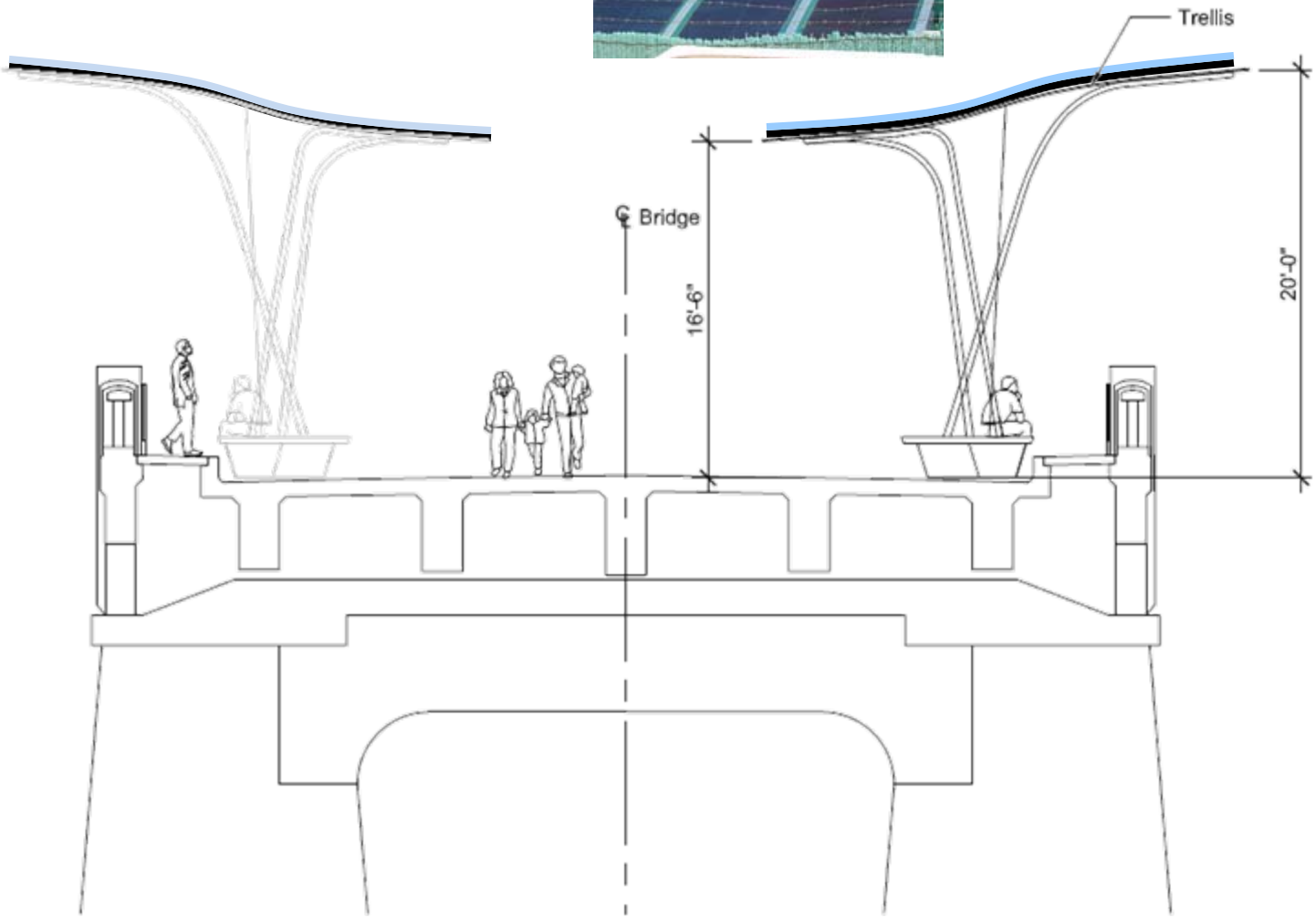
GRAND
DESIGNS



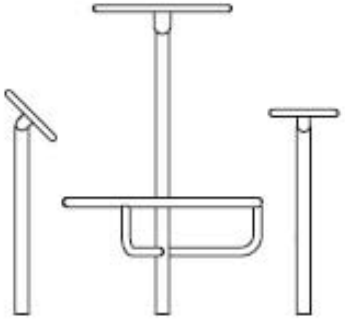

"ECO"
GATEWAY
•Trellises with
PV fabric
•Seating
150'
300'
150'
180'
230'
640'
150'
300'

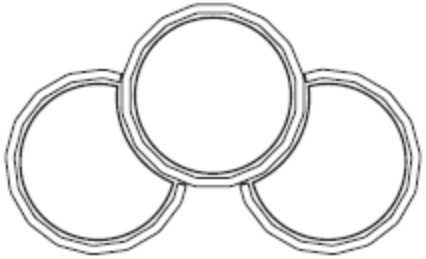
SHADEPLEX
PV FABRIC

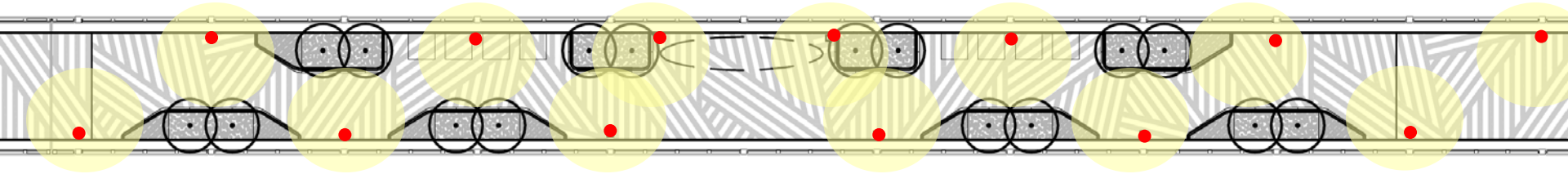


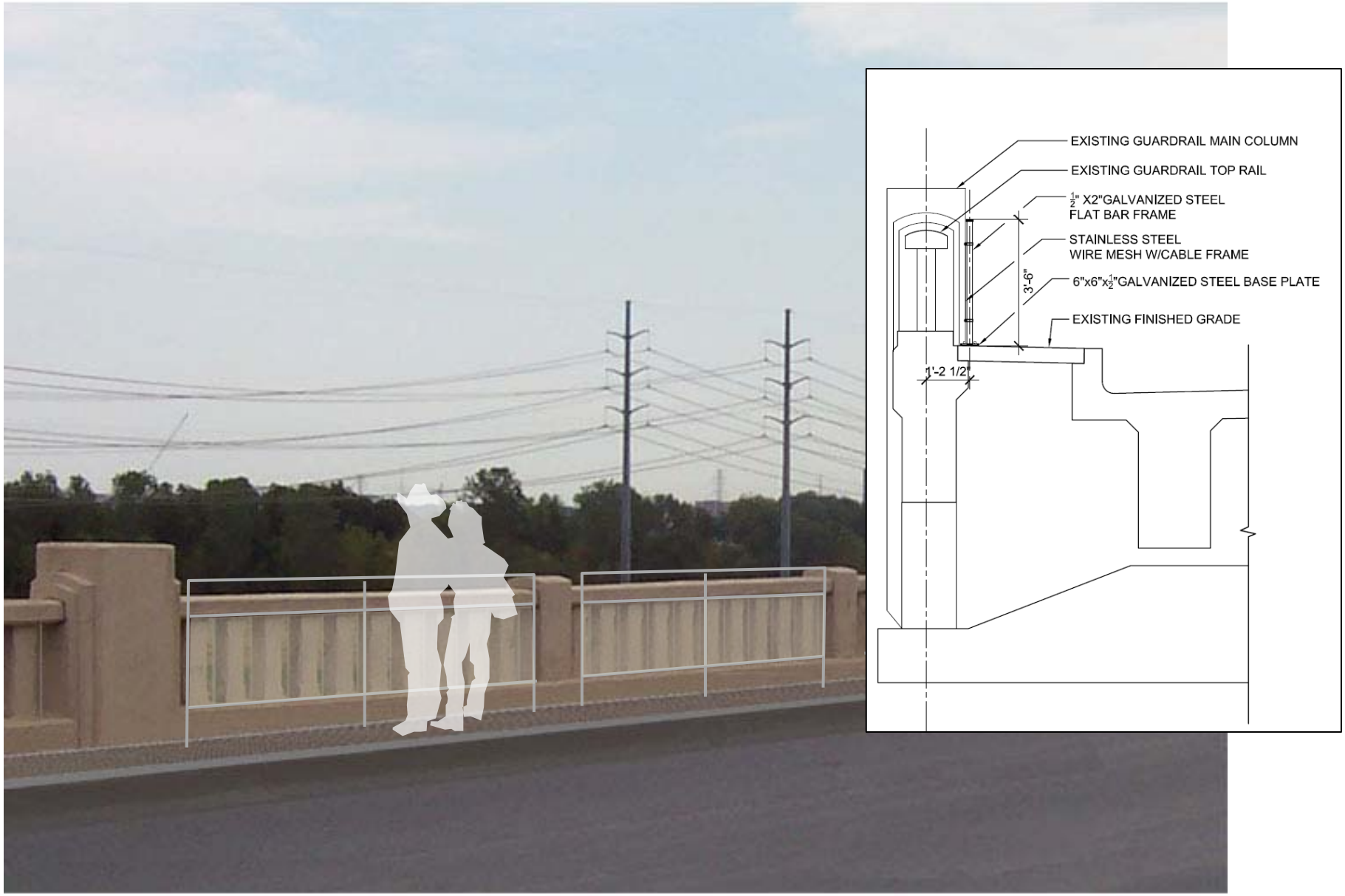


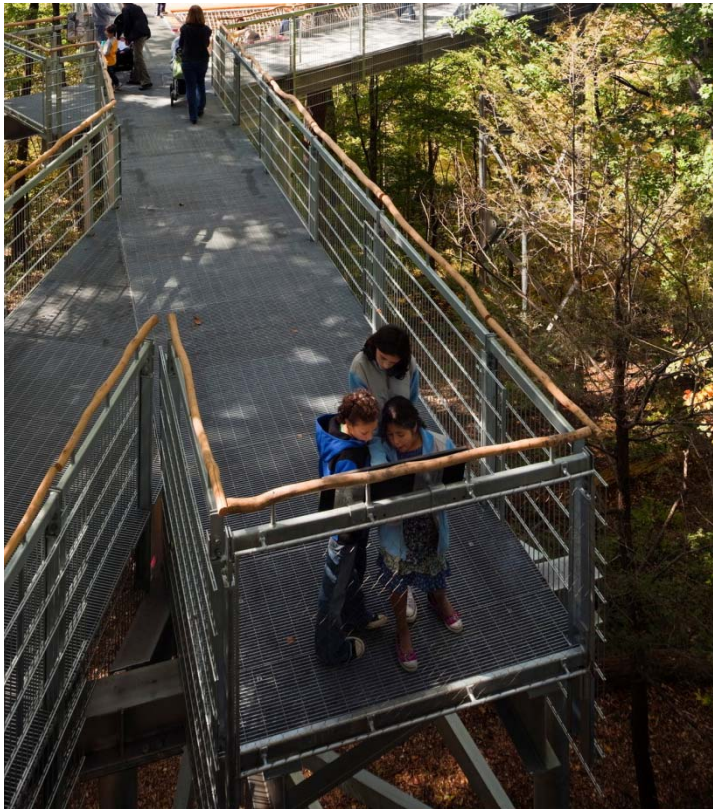
Trellis
℄ Bridge
16'-6"
20'-0"








EXISTING GUARDRAIL MAIN COLUMN
EXISTING GUARDRAIL TOP RAIL
½" X2"GALVANIZED STEEL
FLAT BAR FRAME
STAINLESS STEEL
WIRE MESH W/CABLE FRAME
6"x6"x½"GALVANIZED STEEL BASE PLATE
EXISTING FINISHED GRADE
3'-6"
1'-2 1/2"



Randseile und Befestigungen

Randseile entwickeln aufgrund der auftretenden Belastungen senkrecht zur Spannrichtung eine Krümmung, den Seilstich. Je geringer der Abstand zwischen den Befestigungen der Seile, desto geringer können Seildurchmesser und Seilstich ausfallen.

X-TEND und die Einfassung bilden ein System, das wiederum Lasten erzeugt. Die Abtragung dieser Kräfte verlangt entsprechende Konstruktionen am Bau zum Anschluss der Systeme sowie einen tragfähigen Baukörper.

Detaillierte Informationen:
Carl Stahl I-SYS Katalog.

Border cables and fixing points

Because of their flexibility, border cables naturally develop a catatonic response perpendicular to the direction of the load. This is known as cable deflection. The smaller the distance between the fixing points of the cables, the smaller the cable diameter and deflection.

X-TEND and the border cable together generate loads on the support structure. Proper distribution of these forces requires attachment into solid anchoring points such as a building or anchor base.

Detailed information:
Carl Stahl I-SYS Catalogue.

Câbles de périphérie et fixations

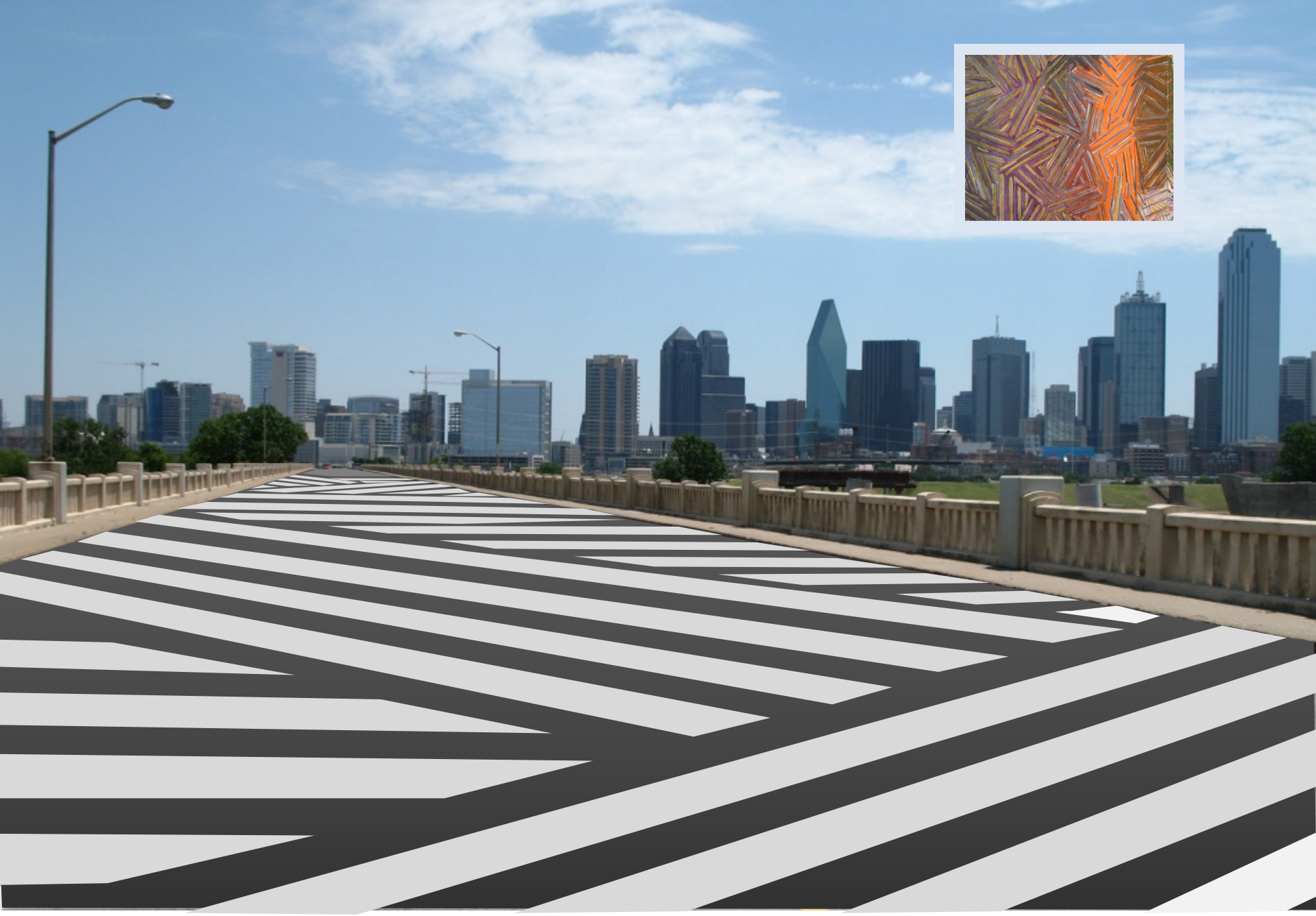
Les câbles de périphérie, ou câbles de tension sont courbés verticalement vers le bas à cause du poids. C'est la flèche. Plus l'espace entre les fixations des câbles est réduit, plus les diamètres des câbles utilisés et la flèche en résultant seront petits.

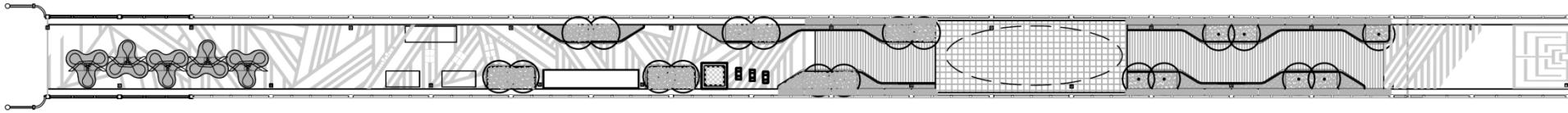
X-TEND et les fixations périphériques forment un système qui engendre des contraintes intrinsèques. Pour supporter ces forces, il faut mettre en œuvre des points de fixation en conséquence et que le support lui-même soit suffisamment robuste.

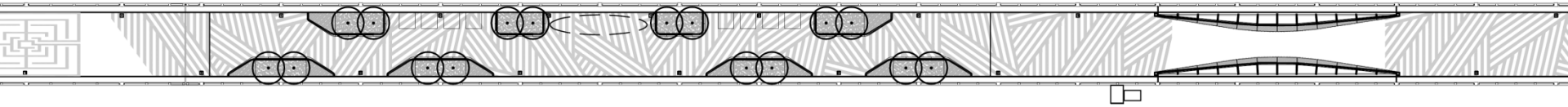
Informations détaillées:
Carl Stahl Catalogue I-SYS.

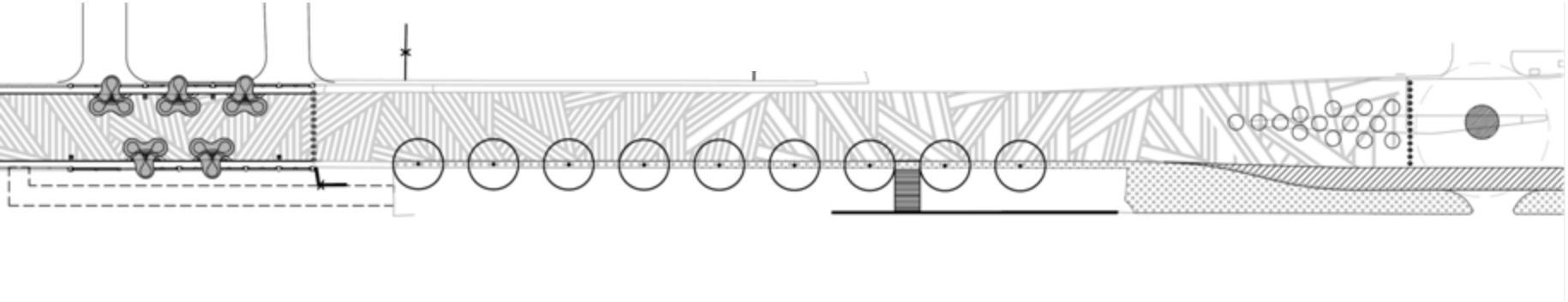
134

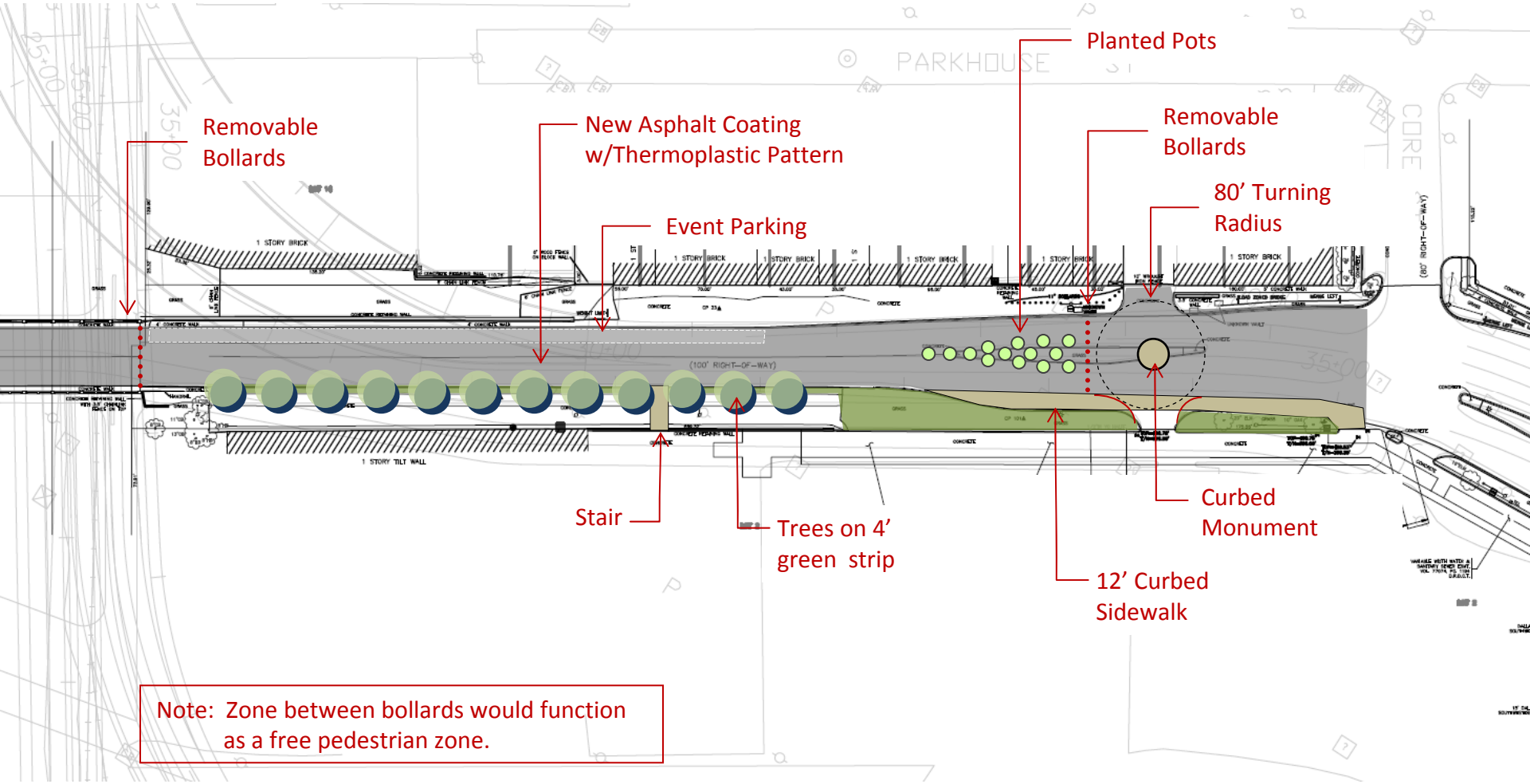
www.carlstahl.com



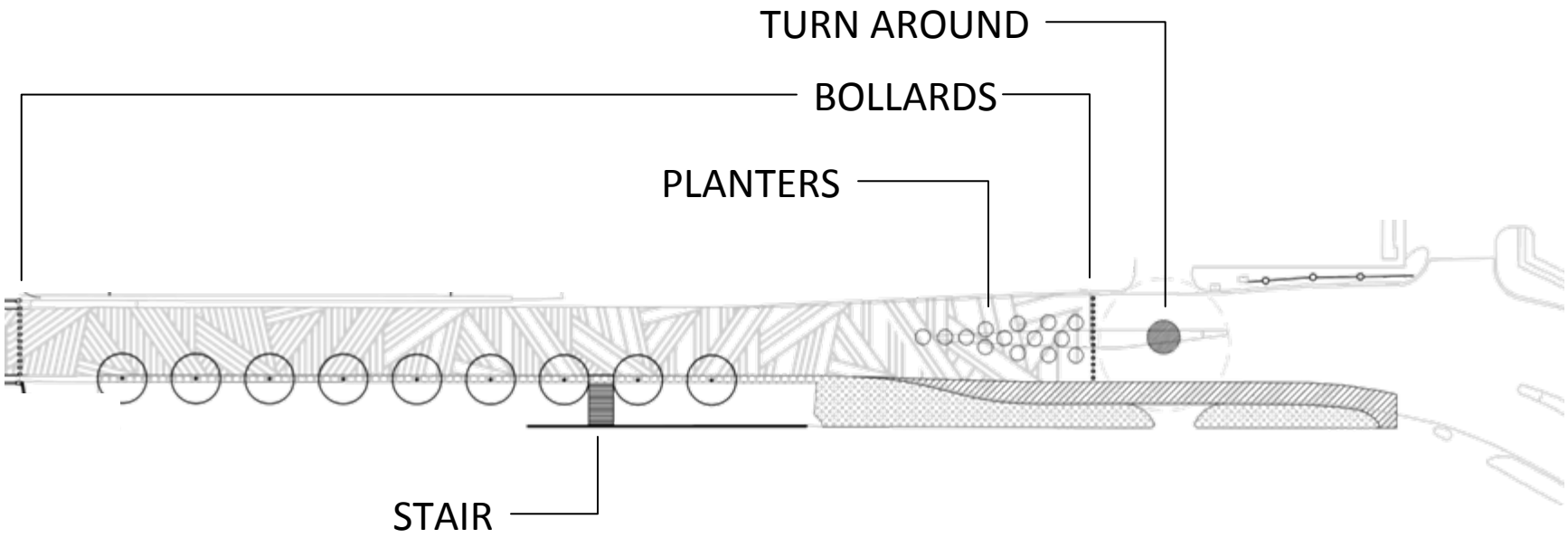








No Parkway Interim and/or Permanent Condition


TURN AROUND
BOLLARDS
PLANTERS
STAIR

SUBSTATION
SUBSTATION
PARKHOUSE ST

SYNERGO