11th STREET BRIDGE
EXTERIOR LIGHTING CONCEPT
13 APRIL 2022
BRIDGE STRUCTURE ACCENT LIGHTING CONCEPT - X SHAPE
ACCENT LIGHTING INSPIRATION

London Bridge

Bol'shoy Kamenny Bridge, Moscow

Pikisaari Bridge, Finland

Champlain Bridge, Montreal
BRIDGE ACCENT - ATTACHED TO STRUCTURE

POWER FEED DETERMINED BY SPECIFIC PRODUCT LIMITATIONS - PRODUCT SELECTION TO MINIMIZE NEEDED POWER FEEDS. DATA BOXES WILL ALSO BE NEEDED FOR COLOR CHANGING CAPABILITY AND DYNAMIC CONTROL.

TYPICAL WARRANTY FOR DRIVER - 5 YEARS. TYPICAL L70 RATING FOR LED CHIP - 65,000 HOURS (APPROX 15 YEARS AT 12 HOURS A DAY).

BRIDGE ACCENT FIXTURE FED FROM UNDER DECK. DATA BOXES AND POWER SUPPLIES WILL BE LOCATED AT PIERS AND AT EEC STORAGE ROOM.
BRIDGE ACCENT - POWER SUPPLY DETAILS

Power Supply location

TYPICAL SYSTEM DIAGRAM:

1 POWER SUPPLIES + CONTROL EQUIPMENT IN EEC STORAGE

2 POWER SUPPLIES PIER 11

1 POWER SUPPLIES PIER 14

Power Supply

EXISTING DC STREET LIGHTING TO REMAIN

Power Supply location

EXISTING DC STREET LIGHTING TO REMAIN

INPUT CABLE (3 x 14AWG)

OUTPUT CABLE (3 x 14AWG)

LEADER CABLE

AL1-14'

AL1-13'

PR1

TT1

UINFINITY® LUMINAIRES

LUMINAIRE

JUNCTION BOX

FUNCTION BOX (to power source)

DATA INPUT CABLE

DATA OUTPUT CABLE (optional, supplied by others)

PDC-RP

PS-RP-3000

PDC-IF

AF1-950'

RL1

LD1

RL2

RP2

PR2

TT2

RD2

PS-INF-3000, 2019-0

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PATH LIGHTING - INTEGRATED WITH HANDRAIL

REMOTE DRIVER TO BE LOCATED IN CURB
LINE VOLTAGE POWER TO BE LOCATED IN CURB AS WELL TO FEED DRIVER LOCATIONS.

LOW VOLTAGE POWER FEED FROM LED POWER

NEED SPACE FOR POWER SUPPLY

LUMENLINEAR™

- Industry leading output:
  - 70° asymmetric @ 45° above nadir
- Matte and transparent lens options
- Available in:
  - 152, 284 or 413 lpf (4000 °K Values)
- IES full cutoff classification when installed in Wagner Architectural Systems hand rail
- Fully gasketed, extruded aluminum housing
- ETL wet location listed, UL1598 certified
- 5 year warranty
- Cast 316 stainless steel, mechanical mounting
- CCT standard in 5 white options
- 4 solid color options including wildlife amber
- Up to 88 CRI standard, 95+ available upon request
- 14 standard lengths from 6” to 80”

Specifications may change without prior notice, verify data at time of order, all rights reserved.
11TH STREET BRIDGE PARK

65% PREFINAL PLANS
December 1, 2021

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DRAWING NUMBER AND TITLE
KEY PLAN
N
11TH ST. LOCAL BRIDGE
ANACOSTIA RIVER ANACOSTIA PARK NAVY YARD
65% PREFINAL PLANS
NOT FOR CONSTRUCTION
3D VIEWS
A-913
06 AXON VIEW - DIAGRAM OF GUARDRAIL TYPES
N.T.S 05 DESIGN SKETCH - GUARDRAIL ELEVATION AT CENTRAL LANDING
03 DESIGN SKETCH - GUARDRAIL TYPE A
N.T.S 02 DESIGN SKETCH - GUARDRAIL TYPE B
N.T.S 01 DESIGN SKETCH - GUARDRAIL TYPE C
10 FT CENTRAL LANDING (CG03)
04 VIEW - GALVANIZED STEEL GUARDRAIL
N.T.S
ANACOSTIA UPPER DECK
NAVY YARD UPPER DECK
ANACOSTIA LOWER DECK

LOW VOLTAGE POWER FEED FROM LED POWER SUPPLY
LED HANDRAIL POWER SUPPLY INSIDE OF CAST IN PLACE ELECTRICAL BOX
HANDRAIL POWER SUPPLY DIMENSION: 14”L X 3”D X 3.25”H
JUNCTION BOX WITH POWER AND DATA
POWER FEED TO BRIDGE ACCENT
JUNCTION BOX AND POWER FEED NOTED FOR BRIDGE ACCENT. HANDRAIL POWER SUPPLIES AND POWER FEED WOULD BE SEPARATE AND SHOWN IN ADJACENT MARKUP. LOCATION OF THE NEEDED EQUIPMENT AND CONNECTIONS FOR BRIDGE ACCENT DISCUSSED ON PREVIOUS PAGES.
-(1) REMOTE DRIVER PER 18’ HANDRAIL LIGHT
-(2) REMOTE DRIVERS AT BOX LOCATED IN CURB - LINE VOLTAGE POWER TO RUN TO THIS BOX AND FEED DRIVERS. LOW VOLTAGE CABLE TO RUN FROM DRIVERS TO HANDRAIL LIGHT. THIS ALLOWS FOR A BOX EVERY 36’
OVERALL BRIDGE LIGHTING PLANS

Upper Deck Lighting plan

Lower Deck Lighting plan

LOCATION OF POWER SUPPLIES ADJACENT TO UPPER DECK PIERS, CONCEAL WITH LANDSCAPE PLANTING OR ENCLOSE - AF2 & AL1

LOCATION FOR POWER SUPPLIES UNDER UPPER DECK - AF2, AG1, AG3 & AL1

LOCATION FOR POWER SUPPLIES - AF2 & AL1

LOCATION FOR POWER SUPPLIES AG1
LANDSCAPE LIGHTING - Navy Yard Approach

Fixture types

1. Illuminated Footrail

2. Interlux Rubber - Under bench lighting
LANDSCAPE LIGHTING - Hammock Grove

Fixture types

1. Illuminated Footrail
2. Interlux Rubber - Under bench lighting
3. Micro Nite Star - mounted to North handrail and aimed on walkway
**Up light option may or may not be applicable based on final decision regarding codes and sustainability**
LANDSCAPE LIGHTING - Great Lawn

Fixture types

1. Illuminated handrails
2. Interlux Rubber - Under bench lighting
LANDSCAPE LIGHTING - Play Area

**Up light option may or may not be applicable based on final decision regarding codes and sustainability**

1. Typical handrails at stairs
2. Flexible Inground-Wall Uplight**
3. Adjustable Ingrade - Tree Up light and Mussels Accent**
4. Typical flexible lights at benches
5. Linear lights - wood logs accent

Fixtures types:

1. Typical handrails
2. Flexible Inground-Wall Uplight**
3. Adjustable Ingrade - Tree Up light and Mussels Accent**
LANDSCAPE LIGHTING - Amphitheatre

**Up light option may or may not be applicable based on final decision regarding codes and sustainability**

1. Illuminated handrail at stairs
2. Interlux Rubber Under bench lighting
3. Tree Up light
4. Pole light with adjustable fixtures
LANDSCAPE LIGHTING - EEC PLAZA

Fixture types

1. Micro Nite Star - mounted handrail and aimed on plaza
2. Illuminated handrail at stairs
3. Illuminated Footrail

13 APRIL 2022

11TH ST BRIDGE - Exterior Lighting Concept