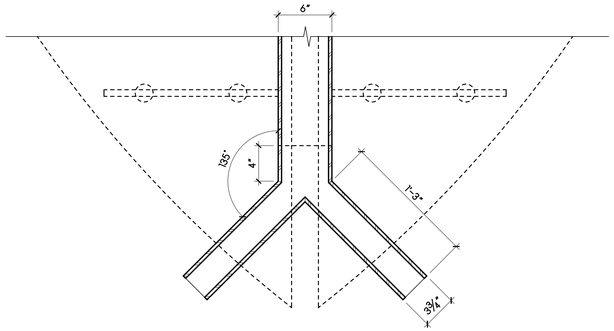
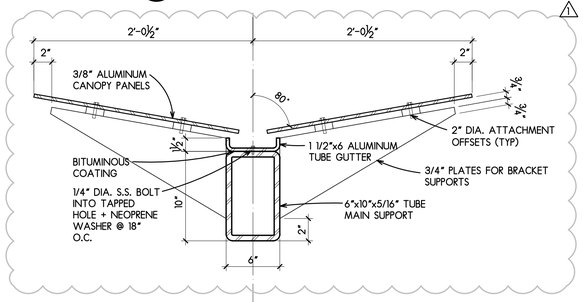
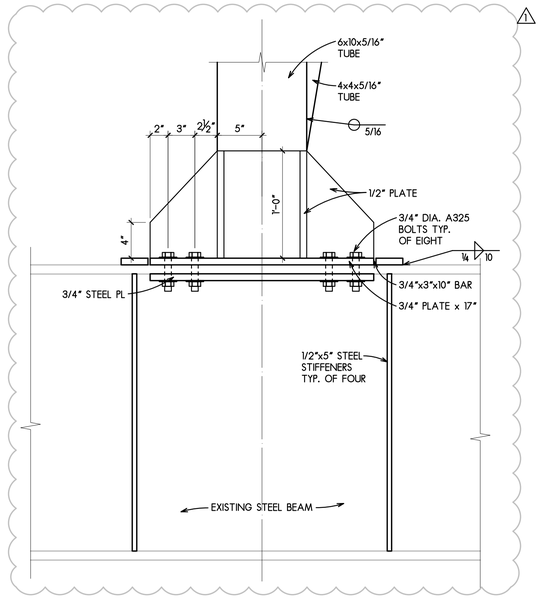


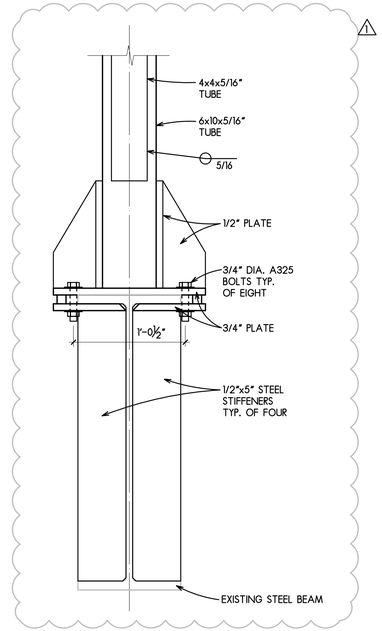
9 GUTTER DIVERTER
SCALE: 1 1/2" = 1'-0"



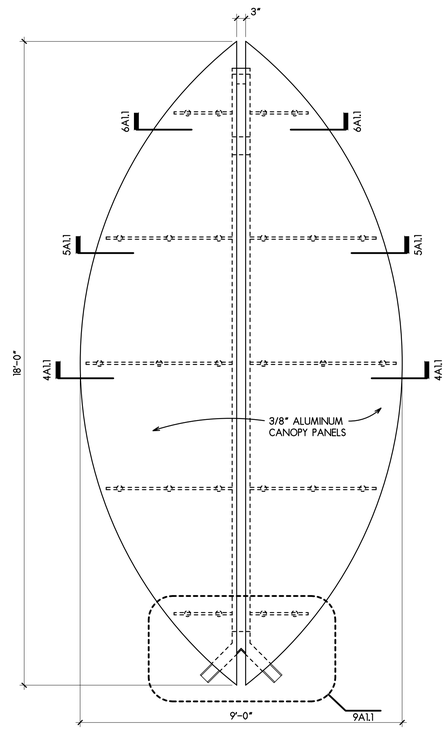
6 CANOPY ROOF DETAIL
SCALE: 1 1/2" = 1'-0"



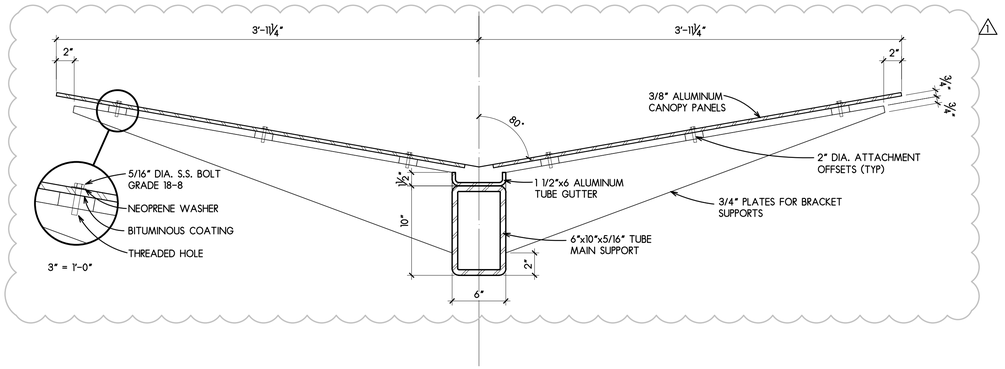
7 CANOPY ROOF DETAIL
SCALE: 1 1/2" = 1'-0"



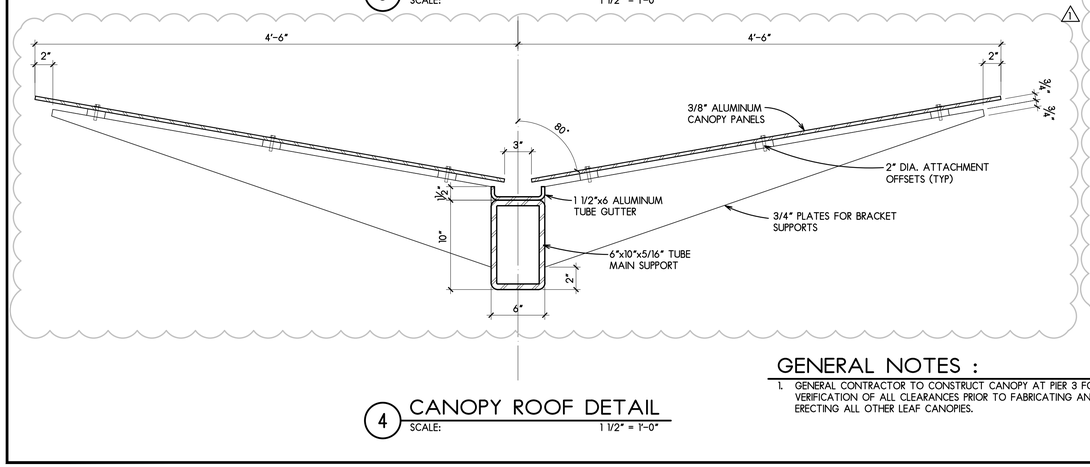
8 CANOPY ROOF DETAIL
SCALE: 1 1/2" = 1'-0"



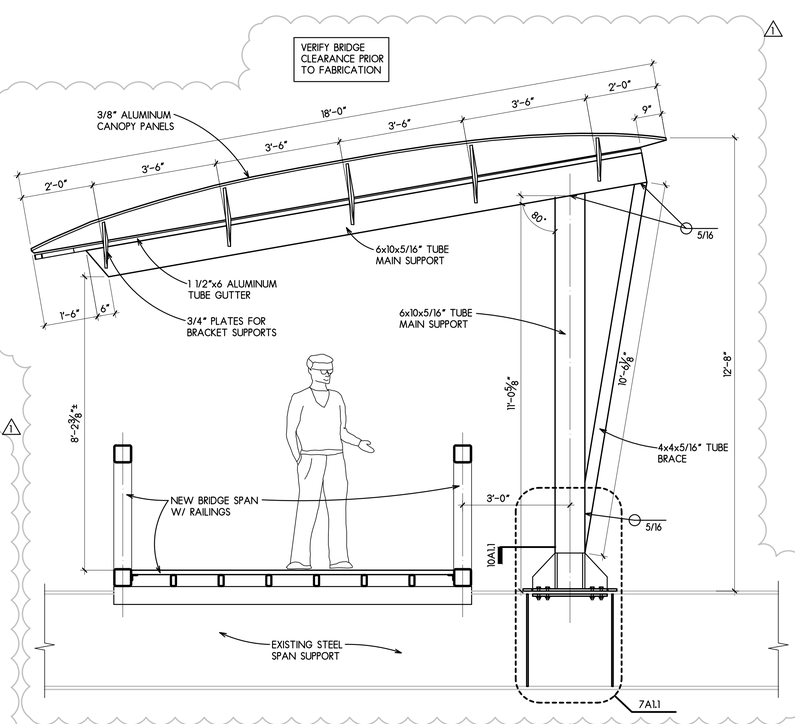
3 ROOF PLAN
SCALE: 1/2" = 1'-0"



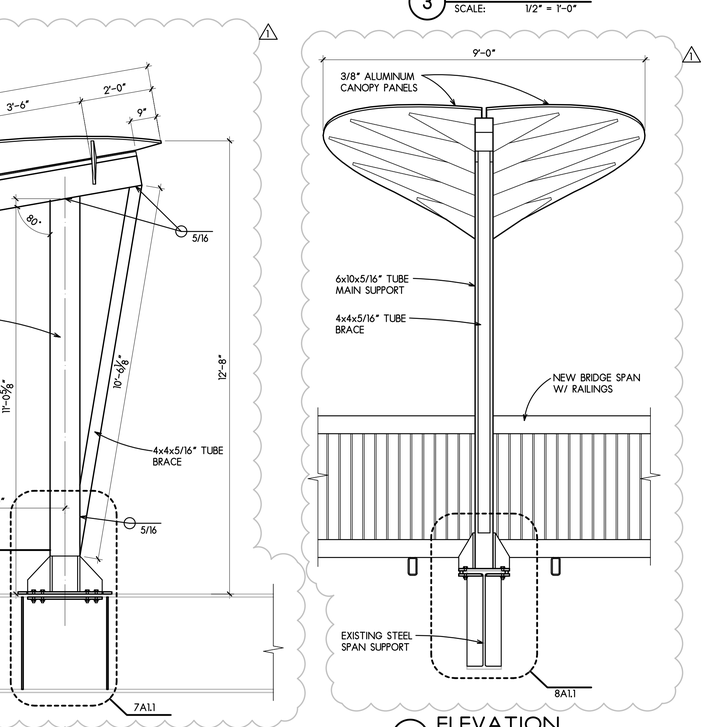
5 CANOPY ROOF DETAIL
SCALE: 1 1/2" = 1'-0"



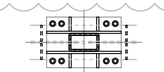
4 CANOPY ROOF DETAIL
SCALE: 1 1/2" = 1'-0"



2 ELEVATION
SCALE: 1/2" = 1'-0"



1 ELEVATION
SCALE: 1/2" = 1'-0"



10 PLAN VIEW
SCALE: 1/2" = 1'-0"

GENERAL NOTES :

1. GENERAL CONTRACTOR TO CONSTRUCT CANOPY AT PIER 3 FOR VERIFICATION OF ALL CLEARANCES PRIOR TO FABRICATING AND ERECTING ALL OTHER LEAF CANOPIES.

CANOPY STRUCTURE DETAILS

SCALE: AS NOTED

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JEFFERSON STREET PEDESTRIAN BRIDGE IMPROVEMENTS
ROCKFORD PARK DIST.
ROCKFORD, ILLINOIS

ISSUED FOR:	DATE	DRAWN	APPROVED
1 REVISED	04-12-19	DLS	GT

DATE: 12-10-2018
PROJECT NUMBER 27211
SHEET NUMBER 14 of 20

SECTION 05 73 00 - LEAF-SHAPED PLATES FOR RAILINGS.

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:
1. Ornamental steel leaf-shaped plates for railings.

1.2 COORDINATION AND SCHEDULING

A. Coordinate fabrication of leaf-shaped plates with fabrication of railings. Furnish to fabricator of railings.

B. Fabricator of railings shall weld leaf-shaped plates to railing pickets, and provide surface preparation and shop painting of the completed railing assemblies in accordance with steel painting system specified on Drawings.

1.3 ACTION SUBMITTALS

A. Shop Drawings: Include plans, elevations, sections, and attachment details.

Samples for Verification: One leaf Type 4, full size.

PART 2 - PRODUCTS

2.1 METALS, GENERAL

A. Metal Surfaces, General: Provide materials with smooth surfaces, without seam marks, roller marks, rolled trade names, stains, discolorations, or blemishes.

2.2 STEEL

A. Plates: ASTM A 36/A 36M.

2.3 FABRICATION

A. Form leaf-shaped plates to patterns and sizes indicated on Drawings.

B. Ease edges on both sides of plates to a 1/16 inch radius.

C. Form routed lines on surface of plates to configuration indicated on Drawings.

PART 3 - EXECUTION (Not Applicable)

END OF SECTION 05 73 00

SECTION 10 73 00 - CANOPIES

PART 1 GENERAL

1.1 SECTION INCLUDES

A. Pre-engineered, pre-finished custom aluminum canopies.

1.2 REFERENCES

A. American Architectural Manufacturers Association (AAMA):
1. AAMA 2605 - Voluntary Specification for High Performance Organic Coatings on Architectural Extrusions and Panels.
1. ASTM B 221 - Standard Specification for Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Profiles, and Tubes.
2. ASTM B 221 - Standard Specification for Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Profiles, and Tubes.
3. ASTM B 429 - Standard Specification for Aluminum-Alloy Extruded Pipe and Tube.

1.3 DESIGN REQUIREMENTS

A. Design members to withstand dead, live, wind and other applicable loads in accordance with ASCE-10 and applicable code.

B. Columns, Beams, Braces, and Trim: Aluminum structural shapes.

C. Structural Framing:
1. Heli-arc welded.
2. Mechanically fastened pieces using internally concealed bolted connections.

D. Design Loads:
1. Comply with Building Code for site location.
2. Collateral Loads: Additional loads imposed by other materials or systems.

1.4 SUBMITTALS

A. Product Data: Mill specification.

B. Shop Drawings: Layout and erection drawings showing framing, and trim details, clearly indicating proper assembly.

C. Samples: Color selection samples consisting of actual coating material on aluminum members.

D. Quality Assurance/Control Submittals:
1. Qualifications: Letter certifying erectors required qualifications.

1.5 QUALITY ASSURANCE

A. Design structural components, develop shop drawings, and perform shop and site work under direct supervision of Professional Engineer experienced in design of this Work and licensed at Project location.

B. Welder Qualifications: All welders must be AWS certified welders.

1.6 DELIVERY, STORAGE, AND HANDLING

E. Follow manufacturer's instructions.

PART 2 PRODUCTS

2.1 MATERIALS

A. Steel Tube: ASTM A500 Grade B - Plate A36 - Bolts A325, Weld E70XX

B. Aluminum Shape: 6061 alloy, T-6 temper.

2.2 COMPONENTS

A. Structural Members:
1. Radius-cornered tubular shapes as required by structural engineering design.

2.3 ACCESSORIES

A. Fasteners:
1. Fasteners: Type 18-8 stainless steel, type recommended by manufacturer for specific condition.

2.4 FABRICATION

A. Shop Assembly: Fabricate cross beams and columns into one-piece rigid bents with corners mitered and heli-arc welded to the extent that completed bents can be shipped on local, state, and federal highways without special permit. Provide bolted connections for bents required to be shipped unassembled.

B. Shop Assembly: Fabricate cross beams and columns for field assembled bolted connections.

2.5 FINISHES

A. Aluminum
1. Thermo-Set Enamel: AA-C-12C-42R-1, comply with AAMA 603.
a. Color: As selected by architect from manufacturer's standard color range.
2. Fluoropolymer Coating: 70 percent PVDF resin based fluoropolymer, AA-C-12C-42R-1, custom color as selected by architect, comply with AAMA 605.
a. Two coat application.

B. Metals

Special Coating System for Steel Components of Canopy Assemblies:

A. Epoxy Zinc-Rich Primer: Complying with MPI#20 and compatible with topcoat.

B. Epoxy Intermediate Coat: Complying with MPI#77 and compatible with primer and topcoat.

C. Polyurethane Topcoat: Complying with MPI#72 and compatible with undercoat.

D. Preparing Steel Canopy Components for Shop Priming: Prepare uncoated ferrous-metal surfaces to comply with SSPC-SP 6/NACE No. 3, "Commercial Blast Cleaning."

E. Primer Application: Apply shop primer to prepared surfaces of steel components unless otherwise indicated. Comply with requirements in SSPC-PA 1, "Paint Application Specification No. 1: Shop, Field, and Maintenance Painting of Steel," for shop painting.

High-Performance Coating: Apply epoxy intermediate and polyurethane topcoats to prime-coated surfaces. Comply with coating manufacturer's written instructions and with requirements in SSPC-PA 1, "Paint Application Specification No. 1: Shop, Field, and Maintenance Painting of Steel," for shop painting. Apply at spreading rates recommended by coating manufacturer.

PART 3 EXECUTION

3.1 EXAMINATION

A. Examine points of attachment to bridge structure. Verify locations and details comply with shop drawings.

B. Coordinate with responsible trade to perform corrective work on unsatisfactory points of attachment.

C. Commencement of work by installer is acceptance of existing conditions.

3.2 ERECTION

A. Erect canopies in accordance with manufacturer's installation instructions.

B. Set bents plumb, straight, and true to line, adequately braced to maintain position.

C. Keep aluminum surfaces from direct contact with ferrous metal or other incompatible materials by applying one coat of clear bituminous coating.

3.3 CLEANING

A. Clean surfaces soiled by work as recommended by manufacturer.

B. Remove surplus materials and debris from the site.

3.4 PROTECTION

A. Protect finished aluminum surfaces from damage due to subsequent construction operations.

END OF SECTION

SECTION 26 51 00 - LIGHT FIXTURE

Electrical/Optical

- Power Supply: 120-277V/50-60 HZ
- Integral EC electronic converter in thermally-separated compartment
- (NTC) Negative Temperature Coefficient thermocouple monitoring of LED's: In the event of overheating the current will be reduced by 50%
- Built-in low voltage surge protection on Printed Circuit Board
- 0-10V dimming terminal block standard
- Light Source: Operating temp of 85C to maximize a long life
- High output LED's are binned to 3000K/4000K@ <3 McAdams Ellipses
- CRI: 80

Mechanical

- Recycled Marine Grade **ALSi12/LM6/CP401** Aluminum with <0.1% Copper
- UV Stabilized architectural grade powder coat for resistance to atmospheric aging and color fading
- Conversion Coated aluminum to prevent any galvanic reactions & improve the bond of the powder coat
- Polymer Coated stainless steel fasteners (15% Teflon) to reduce any chance of galvanic reaction between the aluminum housing and the fasteners
- Salt spray tested and approved
- IK (Impact Resistance) Rating: IK07
- IP (Ingress Protection) Rating: IP65 (Suitable for commercial and industrial applications)
- Silicon Gasket: 4mm thickness
  *Cure Profile: Post Cure 10'/171°C and 1h/250°C
  *Hardness, Shore A: 35
  *Elongation: 585%
  *Plasticity (mm X 100): 150
- Field changeable PCB (including color temperature)
- Field changeable Optical (lens) system: **One-piece** PMMA Optical lens
- Tempered Safety Glass lens (4mm thickness) and frame with safety clips
- Thermally separated driver compartment for optimal thermal management of drivers and the light source
- Optional: Gimbal mounted 30° tiltable and 355°rotatable

Warranty & Standards

- ETL Listed. Suitable for wet locations
- Salt spray tested
- LED Lifetime: LED > 60,000h Ta 25°C (L70/B10) Control Gear >50,000h Ta 25°C
- 5-year warranty
- Note: Modularity of the DAC accounts for easily adjusting lenses/optics, PCB's etc

SPECIFICATIONS

NO SCALE:

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Architecture Engineering Interiors
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