

Arm Assemblies, Streetlight Pole, Decorative, Three-Ball, Globe



1. Scope

This standard covers the requirements for three-ball globe decorative arm assemblies and compression plates.

This standard applies to the following Seattle City Light (SCL) stock numbers:

Stock No.	Description
572900	3-Ball Globe Arm Assembly
572902	3-Ball Globe Compression Plate

Chief Seattle ornamental steel streetlight poles and ball globes are outside the scope of this standard and must be ordered separately. See SCL 5756.22 and SCL 5724.15, respectively.

2. Application

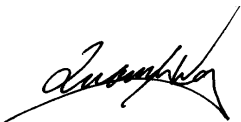
Three-ball globe arm assemblies and compression plates are used exclusively with Chief Seattle ornamental steel streetlight poles and globe luminaires and are installed in the following City of Seattle lighting districts: Pioneer Square and Central Business District.

Seattle City Light owns the aluminum, three-ball globe arm assembly casting patterns, which are stored at Travis Pattern & Foundry, Inc.

Standard Coordinator
Quan Wang

Standards Engineering Supervisor
John Shipek

Division Director
Andrew Strong



3. Industry Standards

Three-ball globe arm assemblies and compression plates shall meet the applicable requirements of the latest revision of the following industry standards:

ASTM A 153; Standard Specification for Zinc Coating (Hot-Dip) on Iron and Steel Hardware

ASTM B26-12; "Standard Specification for Aluminum Alloy Sand Castings"

AASHTO; Standard Specifications for Structural Supports for Highway Signs, Luminaires, and Traffic Signals

4. Requirements

4.1 Three-Ball Globe Assemblies

Three-ball globe arm assemblies shall conform to the details in Travis Pattern & Foundry drawing, "Seattle Lamp, Revision A," dated 12/10/2012.

Travis Pattern & Foundry shall inform SCL in writing of all updates to the drawing.

Three-ball globe arm assemblies shall conform to the attributes as shown in Table 4.1 and figures 4.1a and 4.1b.

Finish shall be polyester powder coated "Sherwin Williams DGS-4003, Railroad Green color" and AAMA 2604 compliant.

Three-ball globe arm assemblies shall include the components and quantities as shown in Table 4.1:

Table 4.1. Three-Ball Globe Assembly Component Attributes and Quantity

Components	Material	Quantity
Center Post	Cast Aluminum	1
Center Body	Cast Aluminum	1
Double Squares	Cast Aluminum	3
Single Square with End Cap	Cast Aluminum	2
Saucer	Cast Aluminum	3
Top Arm, 3" x 3" x 21-7/8", 1/4" Wall Thickness	6061 Aluminum Tubing	2
Bottom Arm, 3" x 3" x 11-5/8", 1/4" Wall Thickness	6061 Aluminum Tubing	2
Center Box Door	Cast Aluminum	1

Figure 4.1a. Three-Ball Globe Assembly Component Diagram

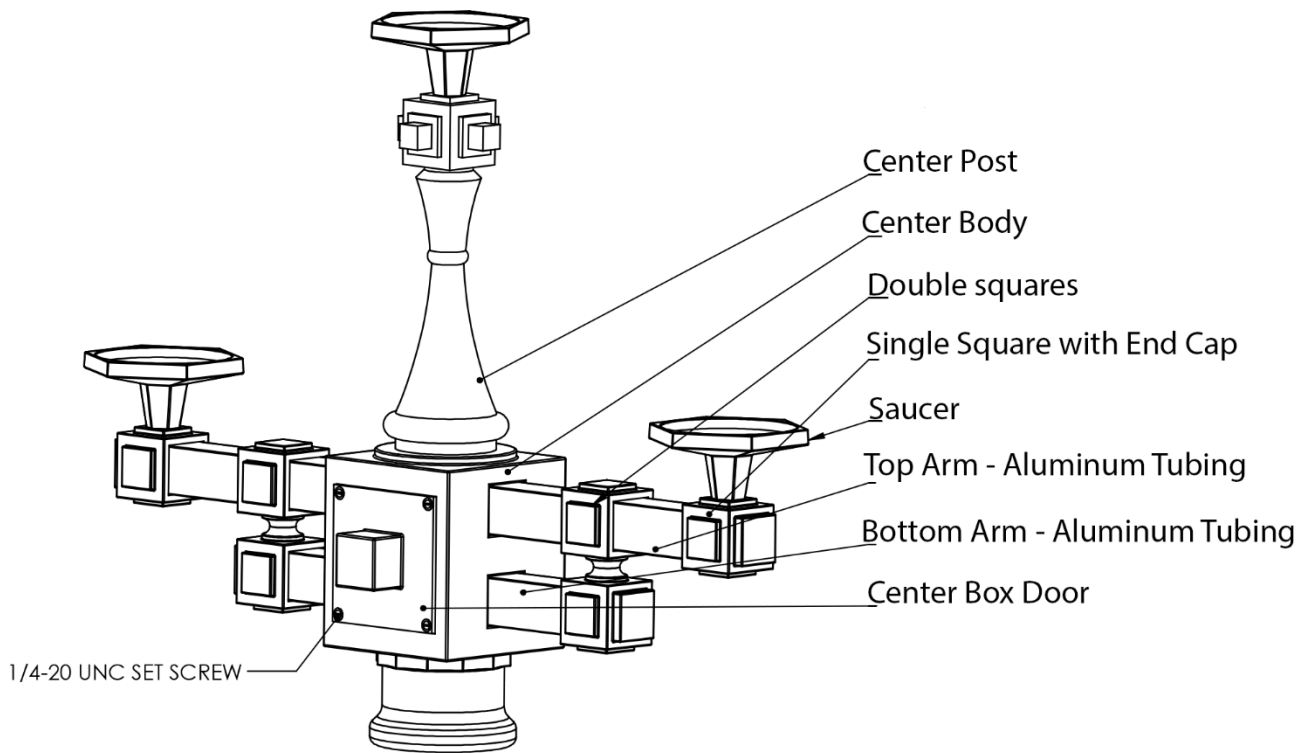
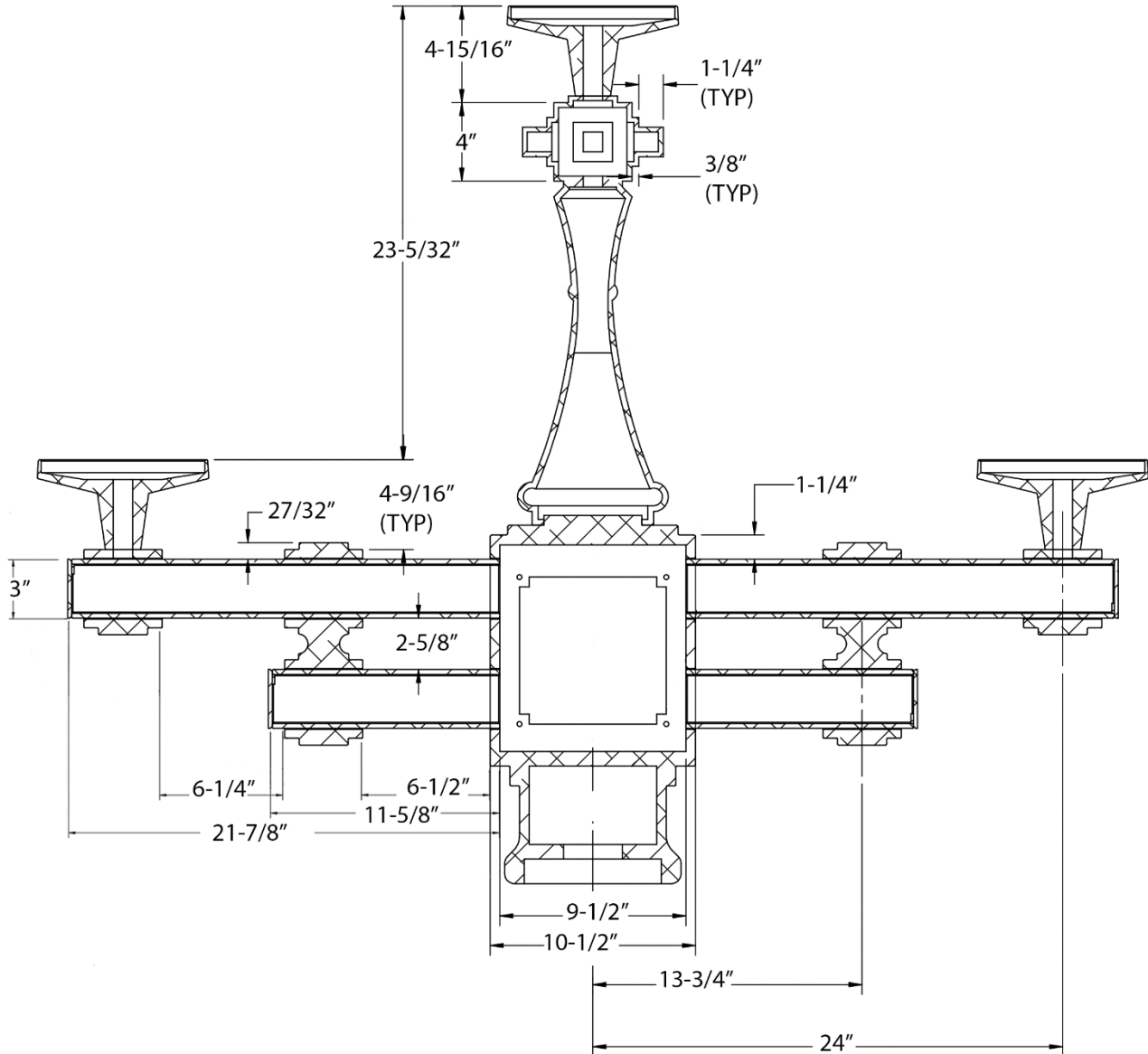


Figure 4.1b. Three-Ball Globe Arm Assemblies, Overall Dimensions, Nominal



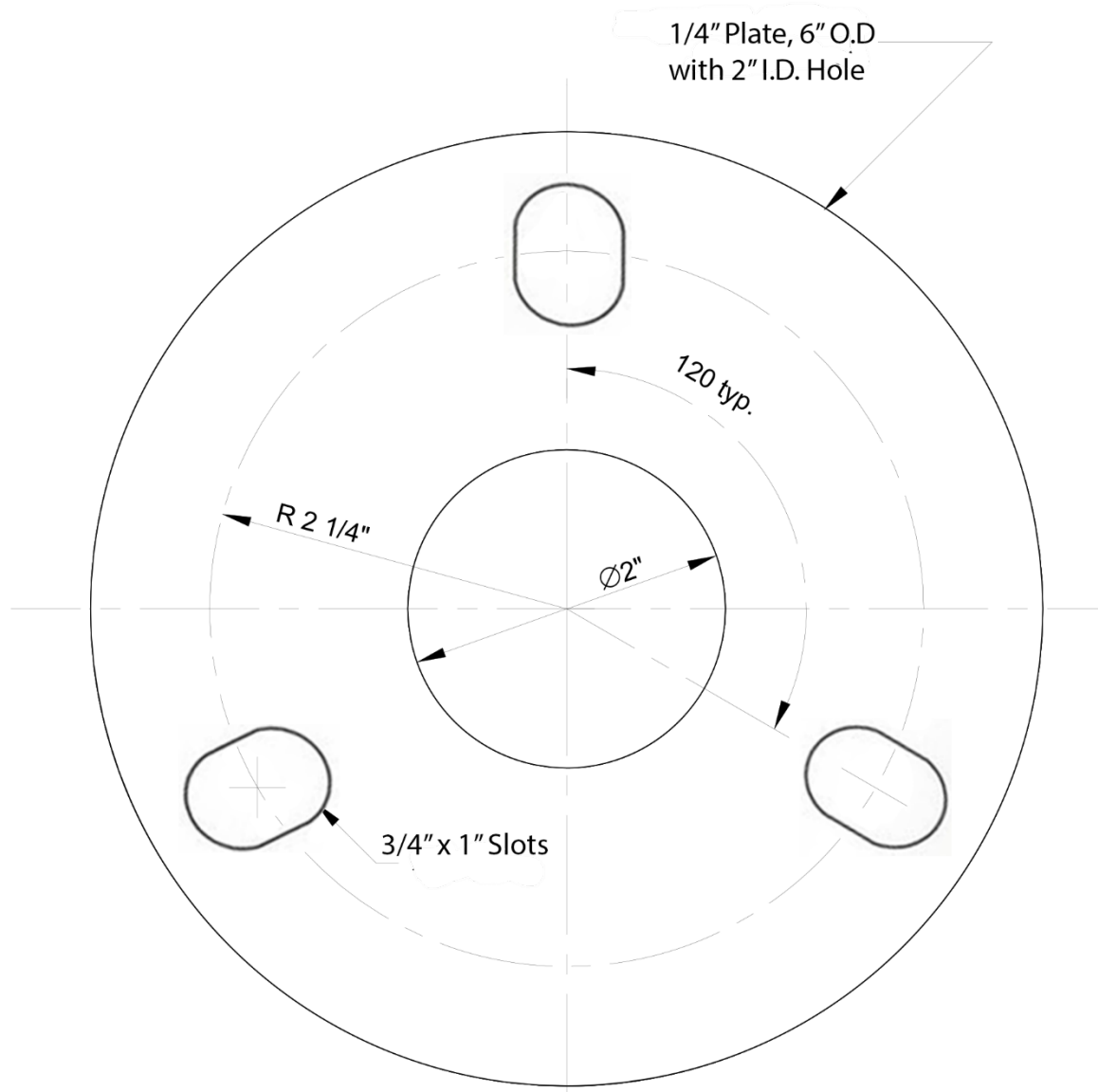
4.2 Compression Plates

Compression plates shall be made of aluminum or hot dipped galvanized steel.

Compression plates shall have three 3/4" x 1" slots at 120-degrees and a 4-3/8-inch bolt circle.

Compression plates shall conform to the dimensions as shown in Figure 4.2

Figure 4.2. Compression Plate Dimensions (in)



5. Packaging

Three-ball globe arm assemblies and compression plates shall be protected during shipping, outside storage and installation.

Center posts are shipped separately from the main body of the arm assemblies.

Each shipping container shall be legibly marked with the following information:

- Manufacturer identification
- Product description
- SCL stock number
- Quantity
- SCL purchase order number

6. Issuance

Stock Unit: EA

7. Approved Manufacturers

Stock No.	Description	Garmire Iron Works Inc.
572900	Three-Ball Globe Arm Assembly	Three-Globe Arm Assembly
572902	Three-Ball Globe Compression Plate	592902

8. References

AAMA 2604, Voluntary Specification, Performance Requirements and Test Procedures for High Performance Organic Coating on Aluminum Extrusions and Panels, 2005 (2020 latest revision)

SCL Material Standard 5724.15; "Globe Fixtures"

SCL Material Standard 5756.22; "Steel Streetlight Poles, Ornamental, Chief Seattle"

Travis Pattern & Foundry Inc. drawing, "Seattle Lamp, Revision A," December 10, 2012

9. Sources

Borek, Tom, SCL Streetlight Engineer and subject matter expert for 5721.17

Wang, Quan; SCL Standards Engineer, originator, and subject matter expert for 5721.17.

The Light Group drawing, "Seattle Lamp, 3-Globe Arm Assembly," October 19, 2012

SCL Stock Catalog page 57-11, August 19, 2014

SCL Material Standard 5721.0; "Compression Plate for Three Globe Luminaire" (canceled)

www.garmireironworks.com/