



U.S. Department
of Transportation
**Federal Highway
Administration**

Georgia Division

July 18, 2016

61 Forsyth Street S.W.
Suite 17T100
Atlanta, Georgia 30303
Phone 404-562-3630
Fax 404-562-3703
Georgia.fhwa@fhwa.dot.gov

In Reply Refer To:
HPE-GA

Russell McMurry, P.E., Commissioner
Georgia Department of Transportation
One Georgia Center
600 West Peachtree St. NW
Atlanta, GA 30308

Dear Commissioner McMurry:

We have reviewed the request to use proprietary items for the US23/SR13 Buford Highway LCI Project, in the City of Suwanee, Gwinnett County, project PI # 0011639.

FHWA accepts the Certification provided by the City of Suwanee that the following items are essential for aesthetic synchronization to match the visual appearance of existing facilities previously installed in the City:

Pedestrian & Street Lights

Poles: Union Metal Developer Series Columbian Pole, 12 flat flute, Model No. N1571-70-B23 (Pedestrian light pole); Union Metal Developer Series, 16 flat flute, Model No. N5922-190-B55 (Street light pole)

Luminaires: Philips Hadco Post Top LED, Model No. S5371 Post Mount (Pedestrian light luminaire); Lumec RN20-135W80LED4K-R-GL-LE3R-VOLT-DMG-SMB-BKTX (Street light luminaire)

Total Estimated Cost for Poles and Luminaires: \$880,350

Therefore, FHWA finds that it is acceptable to use the above listed items for the purpose of synchronization with existing facilities. This approval is only applicable for use on Project PI # 0011639, Gwinnett County. The City of Suwanee is responsible for ensuring that these items comply with the Buy America Act.

If you have any questions, please contact Trevor Smart, Transportation Engineer, at (404) 562-4280.

Sincerely,

A handwritten signature in black ink, appearing to read 'R. Barry', with a long horizontal flourish extending to the right.

R^N Rodney N. Barry, P.E.
Division Administrator

Cc: Dave Peters, Conceptual Design Group Manager

Russell McMurry, P.E., Commissioner



GEORGIA DEPARTMENT OF TRANSPORTATION

One Georgia Center, 600 West Peachtree Street, NW
Atlanta, Georgia 30308
Telephone: (404) 631-1000

July 14, 2016

Mr. Rodney Barry – Division Administration
Federal Highway Administration
61 Forsyth Street, Suite 17T100
Atlanta, GA 30277
Attention: Melinda Roberson

Subject: Request for Proprietary Items Usage (Lighting)
PI # 0011639
US23/SR13/Buford Hwy from CR1962/McGinnis Ferry Rd to George Pierce Park
LCI Project - Bicycle/Pedestrian Enhancements
City of Suwanee, Gwinnett County

Mr. Barry:

Please review the attached request from the City of Suwanee for the use of proprietary lighting items along US23/SR13/Buford Hwy from CR1962/McGinnis Ferry Rd to George Pierce Park.

The City of Suwanee has previously installed identical items in the project vicinity, and intends to install identical items on all future streetscape projects in accordance with the Old Town Master Plan which Suwanee adopted in 2002. In order to ensure aesthetic continuity within its downtown area and comply with the Old Town Master Plan, the City of Suwanee respectfully requests approval to utilize the requested items.

The Department considers the use of the proposed proprietary items to be in compliance with 23 CFR 635.411 for aesthetic synchronization. The City of Suwanee is responsible for ensuring that these items comply with the Buy America Act.

Should you have any questions or concerns, please contact Dave Peters at 404-631-1738 or Program Manager Jeremy Busby at 678-518-3686.

Sincerely,

A handwritten signature in blue ink that reads "Brent Story".

for Brent Story, P.E.
State Design Policy Engineer

BAS:drp



June 21, 2016

Ms. Heidi Schneider
Project Manager
Georgia Department of Transportation
600 West Peachtree Street, 25th floor
Atlanta, Georgia 30308

RE: GDOT P.I. No. 0011639, Gwinnett County
US23/SR13 Buford Highway LCI Project

Dear Ms. Schneider,

As per Federal Highway Administration regulation in 23 CFR 635.411 (a) 2), proprietary materials, specifications and processes can be used if their use is essential for synchronization with existing highway facilities. For the City of Suwanee's Buford Highway Bicycle and Pedestrian Improvements LCI project, GDOT P.I. No. 0011639, Gwinnett County, the following proprietary items are proposed for use:

Pedestrian & Street Lights

Manufacturer: Poles: Union Metal Developer Series Columbian Pole, 12 flat flute, Model No. N1571-70-B231 (Pedestrian light pole); Union Metal Developer Series, 16 flat flute, Model No. N5922-190-B55 (Street light pole)

Luminaire: Phillips Hadco Post Top LED, Model No. S5375I Post Mount (Pedestrian light luminaire); Lumec RN20-135W80LED4K-R-GL-LE3R-VOLT-DMG-SMB-BKTX (Street light luminaire)

(See attachments)

Quantity in Project: 107 total (92 Pedestrian lights + 15 Street lights)
Total Estimated Cost for Pedestrian and Street Lights: \$880,350

The total estimated costs for the materials listed above are based on recent construction bids on similar projects. These costs include materials, labor, tax and freight.

The estimated total construction cost for the project is \$11,056,000. The cost of \$880,350 for proprietary items represents 8% of the estimated construction costs.



The Suwanee City Council adopted the Old Town Master Plan in 2002, after an extensive public participation process. As a result of this plan the City underwent a detailed planning study for a new town center. This planning effort resulted in a number of recommendations, including the use particular street pedestrian street lights, as mentioned above. This street light has been identified as the Suwanee lamp since 2003 and has been an integral part of the City's identity to the extent that the lamp was a part of the City's logo for more than a decade, as noted below.



This standard has been in place prior to the start of this LCI funded streetscape project. The specific products designated by the City of Suwanee Streetscape Design Guidelines are the ones that are being used in the construction drawings. These products have been installed in previous projects around Downtown Suwanee. These products will also be used in future streetscape enhancement projects in Downtown Suwanee.

The City of Suwanee certifies that the use of these products is essential for aesthetic synchronization to match the visual appearance of existing facilities previously installed in the City of Suwanee along Buford Highway/U.S. 23/S.R. 13, Lawrenceville-Suwanee Road/S.R. 317 and in the adjacent Suwanee Town Center Park.

The City of Suwanee respectfully requests that the use of these proprietary products be approved. If you have any questions or need additional information, please call me at 770-945-8966.

Sincerely,

A handwritten signature in blue ink, appearing to read "JC", is written over a faint, larger blue outline of the signature.

Josh Campbell
Planning Director
City of Suwanee

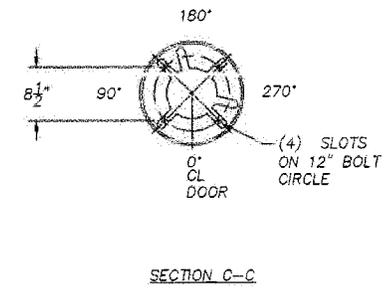
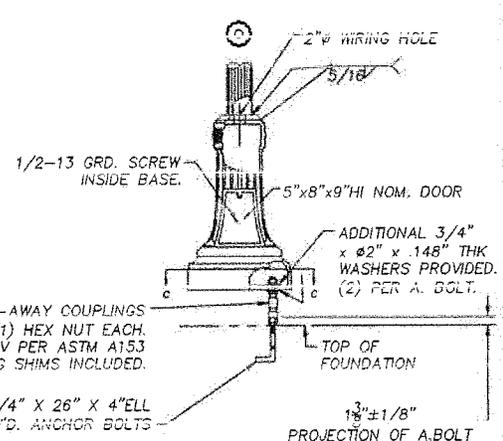
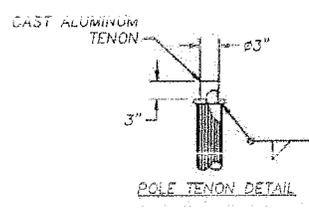
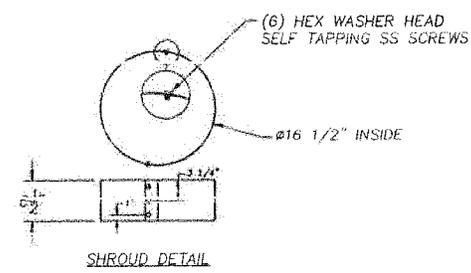
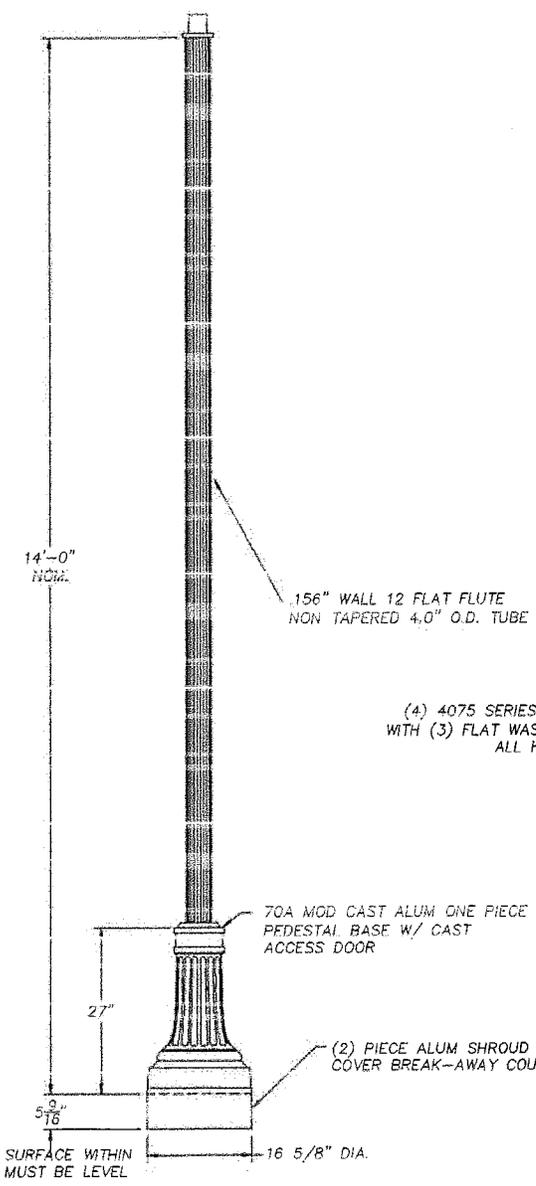
Attachments

c: Derrick Brown, GDOT
Sean Pharr, AECOM
Jim Simpson, MAAI

STRUCTURE DESIGNED IN ACCORDANCE WITH 1994 AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY TRAFFIC SIGNS, ILLUMINAIRES & TRAFFIC SIGNALS FOR 80 MPH WIND ZONE.

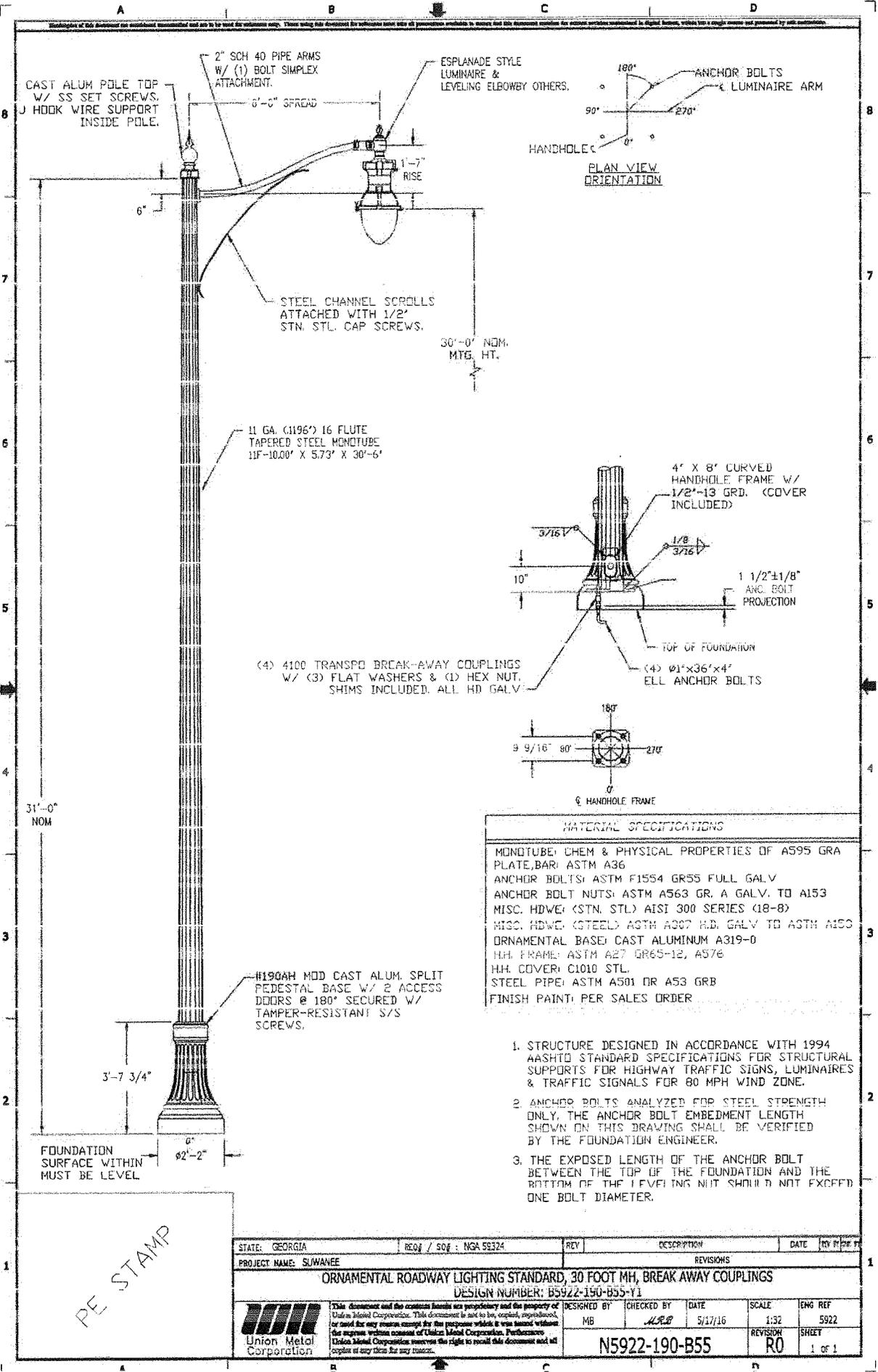
MATERIAL SPECIFICATIONS	
FLUTED SHAFT:	ASTM 6063-T6
ALUM PIPE & TUBE	6063
ANCHOR BOLTS:	ASTM F1554 GR55
ANCHOR BOLT NUTS:	ASTM A563 GRA
PEDESTAL BASE:	CAST ALUM A356-T6
MISC. HDWE. (STN. STL)	AISI 300 SERIES (18-8)
FINISH:	POWDER COATED, COLOR PER SALES ORDER

WELDED ASSEMBLIES HEAT TREATED TO T6 TEMPER



PE STAMP

STATE: GEORGIA	REQ# / SO# : NGAS9324	REV	DESCRIPTION	DATE	BY	CHK	APP
PROJECT NAME: SUWANEE		REVISIONS					
ORNAMENTAL ALUMINUM 10'-0" LIGHTING STANDARD WITH BREAK AWAY COUPLINGS AND GFCI RECEPTACLE							
DESIGN NUMBER: P1571-70-B231-Y1							
	DESIGNED BY		CHECKED BY	DATE	SCALE	ENG REF	
	MB		MRB	5/13/16		P1571	
	N1571-70-B231				REVISION	SHEET	
				R1	1 OF 1		



MATERIAL SPECIFICATIONS

MONOTUBE: CHEM & PHYSICAL PROPERTIES OF A595 GRA PLATE, BAR, ASTM A36
 ANCHOR BOLTS: ASTM F1554 GR55 FULL GALV
 ANCHOR BOLT NUTS: ASTM A563 GR. A GALV. TO A153
 MISC. HDWE: (STN. STL.) AISI 300 SERIES (18-8)
 MISC. HDWE: (STEEL) ASTM A307 H.D. GALV TO ASTM A153
 ORNAMENTAL BASE: CAST ALUMINUM A319-0
 HH. FRAME: ASTM A27 GR65-12, A576
 HH. COVER: C1010 STL.
 STEEL PIPE: ASTM A501 OR A53 GRB
 FINISH PAINT: PER SALES ORDER

1. STRUCTURE DESIGNED IN ACCORDANCE WITH 1994 AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY TRAFFIC SIGNS, LUMINAIRES & TRAFFIC SIGNALS FOR 80 MPH WIND ZONE.
2. ANCHOR BOLTS ANALYZED FOR STEEL STRENGTH ONLY. THE ANCHOR BOLT EMBEDMENT LENGTH SHOWN ON THIS DRAWING SHALL BE VERIFIED BY THE FOUNDATION ENGINEER.
3. THE EXPOSED LENGTH OF THE ANCHOR BOLT BETWEEN THE TOP OF THE FOUNDATION AND THE BOTTOM OF THE LEVELING NUT SHOULD NOT EXCEED ONE BOLT DIAMETER.

STATE: GEORGIA	REQ# / SO# : NGA 59324	REV	DESCRIPTION	DATE	REV BY/DATE
PROJECT NAME: SUWANEE		REVISIONS			
ORNAMENTAL ROADWAY LIGHTING STANDARD, 30 FOOT MH, BREAK AWAY COUPLINGS					
DESIGN NUMBER: B5922-190-B55-Y1					
<p>Union Metal Corporation</p>	<small>This document and the contents herein are proprietary and the property of Union Metal Corporation. This document is not to be copied, reproduced, or used for any reason except for the purpose which it was issued without the express written consent of Union Metal Corporation. Furthermore Union Metal Corporation reserves the right to recall this document and all copies of any time for any reason.</small>				
	DESIGNED BY	CHECKED BY	DATE	SCALE	ENG REF
	MB	MB	5/17/16	1:52	5922
N5922-190-B55				REVISION	SHEET
				RO	1 OF 1

PE STAMP

Ordering Guide:

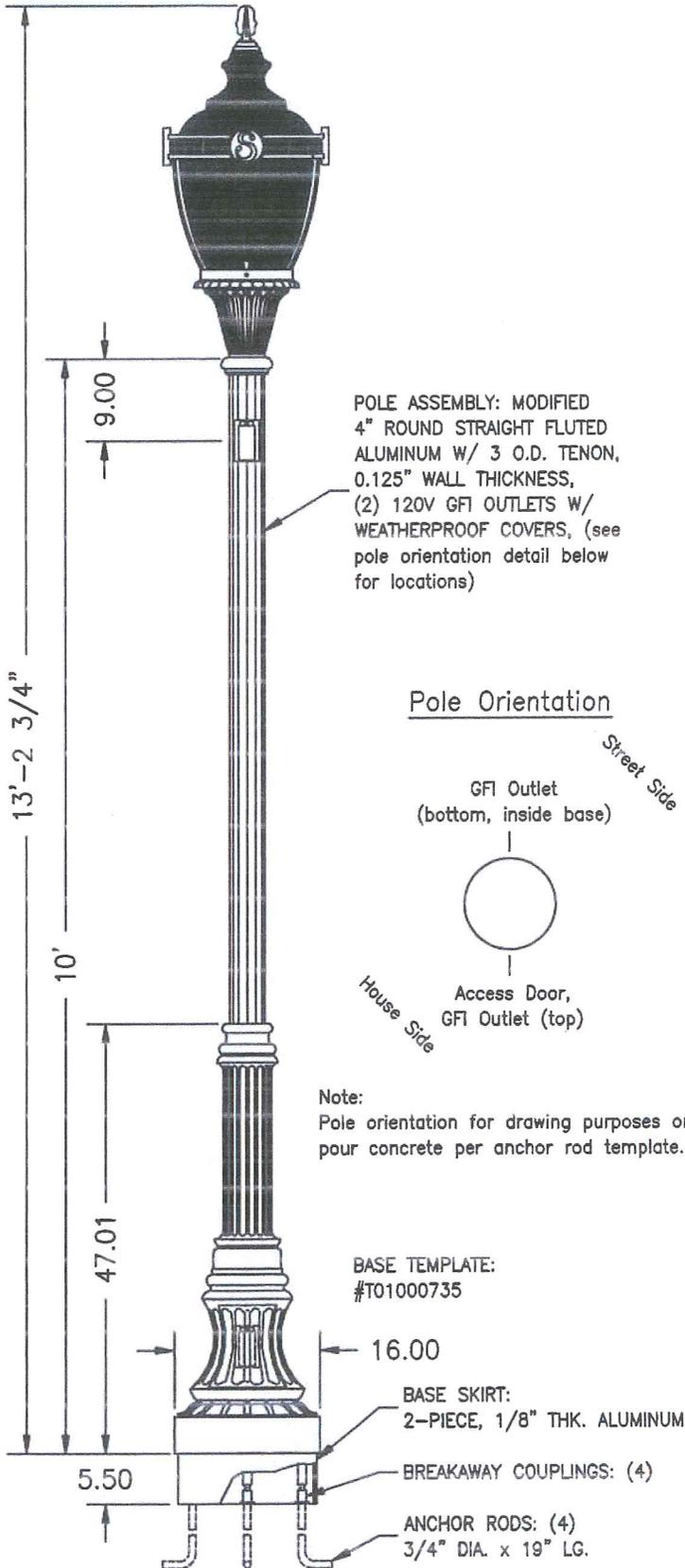
S5375I: LUMINAIRE

SA5375A: BASE SKIRT

SA5375F: BREAKAWAY COUPLINGS

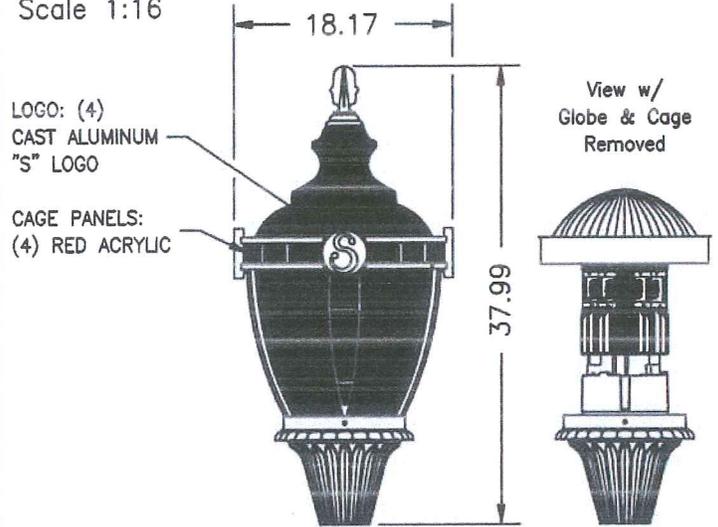
SP5375C: POLE ASSEMBLY

Color:
Black



Luminaire Detail

Scale 1:16



FASTENERS:

- X HEX HEAD BOLTS
- ALLEN HEAD SCREWS

COLOR:

- X BLACK
- WHITE
- VERDE
- BRONZE
- GREEN

PHOTO CONTROL:

- 120 VAC BUTTON-EYE
- 208/240/277 VAC BUTTON-EYE
- TWIST-LOCK RECEPTACLE
- X NONE

DIMMING CONTROLS:

- 4 HRS. 25% REDUCTION
- 4 HRS. 50% REDUCTION
- 4 HRS. 75% REDUCTION
- 6 HRS. 25% REDUCTION
- 6 HRS. 50% REDUCTION
- 6 HRS. 75% REDUCTION
- 8 HRS. 25% REDUCTION
- 8 HRS. 50% REDUCTION
- 8 HRS. 75% REDUCTION
- CUSTOM DIMMING SCHEDULE
- X NONE

Lumilock LED Specifications:

- 64, 4000K (neutral) Philips Lumileds Luxeon R LEDs, typical 75 Color Rendering Index (CRI), >80,000 hours of operational life (at 25°C ambient temperature & 70% lumen maintenance), injection molded type III optical plates, IP66 rated LED module.
- Integral Philips Advance Xitanium LED driver, class 1, IP66 rated, 350mA, RoHS compliant, field replaceable 10kV/10kA surge suppression.
- Delivered lumens: 6140, Wattage: 68W

Lumilock Certifications:

- ETL & cETL listed to U.S. & Canadian safety standards for wet locations, manufactured to ISO 9001:2008 Standards, vibration tested to ANSI C136.31 for Normal Applications, UL8750 & UL1598 compliant, LM79 & LM80 tested, DLC listed.

PRODUCT APPROVALS

HADCO	GH
CUSTOMER	

CONFIDENTIAL:

This drawing is confidential and proprietary to Philips Hadco and may not be reproduced without the express written consent of Philips Hadco. Any use hereof or of any of the information or detail herein shall be for the sole benefit of Philips Hadco.

NOTICE:

This drawing is for reference only. Check for latest revision prior to ordering.



100 Craftway Drive
Littlestown, Pa 17340
Phone 800-331-4185
Fax 717-359-9289
www.philips.com

JOB NAME:

City of Swanee

DRAWN BY:

H. Kuhn

SCALE:

1:20

DATE:

04/19/16

DRAWING NUMBER:

S5375-DWG07

REP:

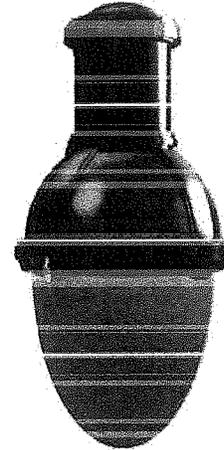
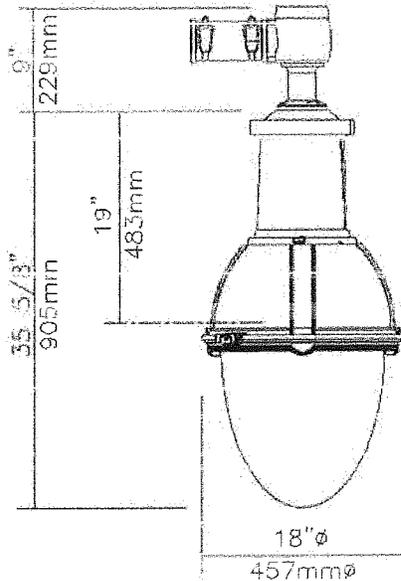
SESCO-Atlanta

REV: A

PCN: 16-010

BY:

DATE:



EPA: 2.63 sq ft / weight: 75 lb (34.1 kg)
Note: 3D image may not represent color or option selected.
Logos above include link, click to access.

Qty	1	Luminaire	RN20-135W80LED4K-R-GL-LE3R-VOLT-DMG-SMB-BKTX
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Description of Components:

Hood: Injection die cast A360.1 aluminium dome, mechanically assembled on the luminaire housing.

Housing: In a round shape, this housing is made of injection die cast A360.1 aluminium, complete with a weatherproof door giving a tool-free access to the ballast, without disconnection of wiring, mechanically assembled. This suspension system permits a full rotation of the luminaire in 90 degree increments.

Access-Mechanism: Injection die cast A360.1 aluminium frame with latch and hinge, complete with cast-in security block for frame's open position. The mechanism shall offer tool-free access to the inside of the luminaire. An embedded memory-retentive gasket shall ensure weatherproofing.

Light Engine: LEDgine composed of 5 main components: **Globe / LED Module / Optical System / Heat Sink / Driver**
Electrical components are RoHS compliant.

Heat Sink: Made of cast aluminum optimising the LEDs efficiency and life. Product does not use any cooling device with moving parts (only passive cooling device).

Globe: (GL), Made of one-piece seamless injection-molded clear borosilicate glass globe having an inner prismatic surface. Complete with a semi-prismatic house side shield and external glare softening prisms. The globe is mechanically assembled and sealed onto the lower part of the heat sink.

LED Module: LED type Philips Lumileds LUXEON R. Composed of 80 high-performance white LEDs. Color temperature as per ANSI/NEMA bin Neutral White, 4000 Kelvin nominal (3985K +/- 275K or 3710K to 4260K), CRI 70 Min. 75 Typical.



