

CROCKETT

ENGINEERING CONSULTANTS

2608 North Stadium Boulevard

Columbia, Missouri 65202

(573) 447-0292

DATE: Sept. 10th, 2012

TO: MODOT Division Engineer, Design
Attn: Design Standards

FROM: Jesse Stephens, Crockett Engineering

SUBJECT: Design
New Franklin
Job Nos. STP (9900-247)
Public Interest Finding

With reference to the above mentioned project, we request approval of a finding in the public interest to use the Niland N-19-F5-16-OL-CON-X-BOR pole light fixture on this project. It is manufactured by the Niland Company in El Paso Texas.

The Katy Crossroads Phase 1 project utilized this fixture down the reconstructed Highway 5. It is the intent of the design documents to run this same fixture all the way up to Broadway. To use a different fixture at this point would be inconsistent with the period themes of the lighting, and it would introduce a second fixture that would have to be maintained by the City of New Franklin.

The existing fixtures have performed well, and this product has demonstrated that it is economical, durable, and easy to maintain.

Approval of this request at your earliest convenience would be appreciated. This project is scheduled for an October 2012 bid opening.

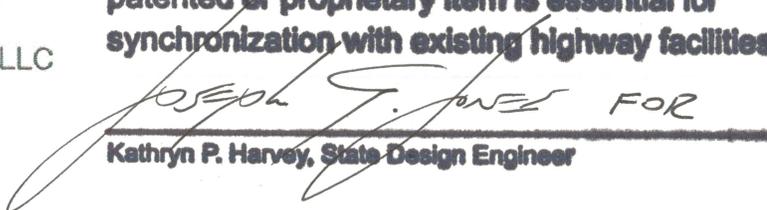
Sincerely,



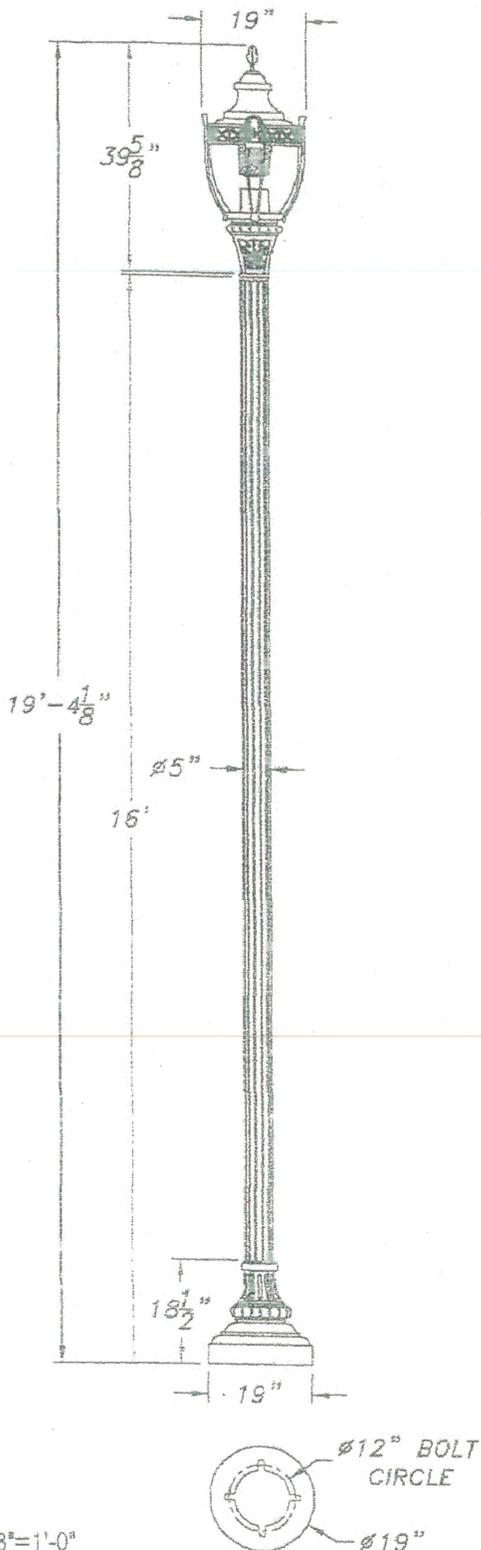
Crockett Engineering Consultants, LLC

Jesse Stephens, PE

I do hereby certify that in accordance with the requirements of 23 CFR 635.411(a)(2), this patented or proprietary item is essential for synchronization with existing highway facilities.


Kathryn P. Harvey, State Design Engineer

NILAND-19 SERIES



N-19-F5-16-OL-CON-X-BOR

CSI POLE SPECIFICATION

I. POLE

Base shall be cast aluminum. Aluminum shall be certified as pure 356 alloy, free of any porosity, foreign materials or cosmetic fillers. Base casting shall be of uniform wall thickness with no warping or mold shifting. Minimum wall thickness shall be .250". The base casting shall have an internal sleeve up to 23" deep (depending on style chosen) to accept the pole shaft. Pole shaft shall be seated into the base sleeve and circumferentially welded around the inside of the base. Exterior transition ring shall be cast in to the top of the base to mirror the design of the fluted shaft. There are no exterior welds to finish. The anchor bolt locations in the base shall be cast in place as part of the base casting, for maximum strength. Pole shaft shall be seamless, deep-fluted extruded 6063-T6 aluminum. Cast aluminum access cover shall be secured with two to four tamper proof stainless steel screws.

II. FINISH

Fixture finish shall consist of degreasing, phosphate acid etching with 140°+ de-ionizing water, rinsed, oven dry off and top coated with a thermoset TGC super polyester powder coat finish designed not to chalk or fade for many years. All Niland Company powders must pass a minimum 3000-hour salt spray test for corrosion resistance.

III. ANCHOR BOLTS

Anchors to be 5/8" x 18" L-type bolts with a hot dipped galvanized finish.

FINISHES

Five Year Powder Coating Warranty

Niland Company factory-applied powder coatings are warranted against peeling, excessive fading and cracking under normal climatic exposure for a period of five years from date of shipment. Damage to finish coating caused by abuse or mishandling during installation is not covered by this warranty. This warranty is limited to the repair or replacement of the material involved and does not include reimbursement of consequential expenses such as installation or removal of equipment or transportation costs.

I. STANDARD FINISH

Satin aluminum achieved by rotary sanding, blasting and chemical etching.

II. THERMOSET POWDER PAINT FINISH

Pretreatment shall consist of degreasing phosphate acid-etching with 140° and de-ionizing water, rinsed and oven dried.

FINISH COAT

Thermoset TGC super polyester powder coat finish electrostatically applied, oven cured and bonded at approximately 420° F to a minimum dry film thickness of 1.5 mils. All Niland powders must pass a minimum 3000-hour salt-spray test for corrosion resistance. The National Association of Architectural Metal Manufacturers, Metal Finishes Manual rates the outdoor life of these powders at 15-plus years.

HOUSING

The post top shall be core cast aluminum. Aluminum shall be certified as pure #356 alloy, free of any porosity, foreign materials or cosmetic fillers. Castings shall be uniform wall thickness with no warping or mold shifting. Minimum wall thickness shall be 3/16". Electrical components are mounted to the fitter and ballast canister. The ballast canister shall be mounted in the post top with three stainless steel screws. The optional refractor shall be molded of borosilicate glass or an upgraded globe with external refractor designed for either a type III or type V light distribution pattern.

III. ELECTRICAL

All electrical components and materials shall be UL-recognized and wired by a certified technician. All Niland ballasts are high power factor rated for 30° starting. Medium and Mogul base sockets are SKV rated. The electrical assembly is pre-wired with quick-disconnects for servicing. The fixture shall be UL-listed for wet locations use and carry all HID listings required. Ballast components shall carry the ballast manufacturers limited warranty of two years. Optional QL Induction ballasts and lamps.

WARRANTY

Niland Company warrants to repair or replace, at our option, any equipment that fails due to defects in material or workmanship within one year from date of shipment. This warranty does not include failures as a result of improper installation, mishandling or misapplication. This guarantee is limited to repair or replacement only and does not include reimbursement for expense of installation, removal of equipment, transportation or any other expenses that may be incurred. Authorization must be obtained from Niland Company in El Paso, Texas before any material is returned.

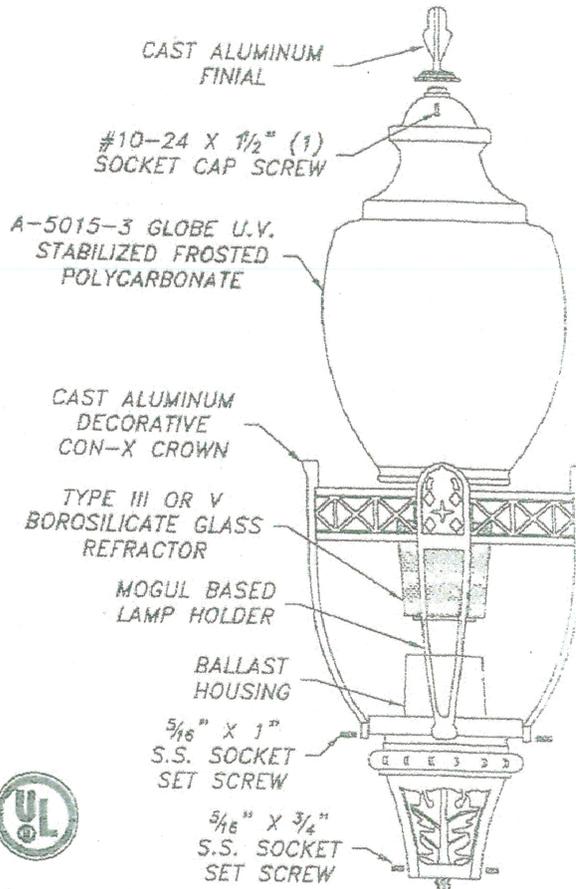
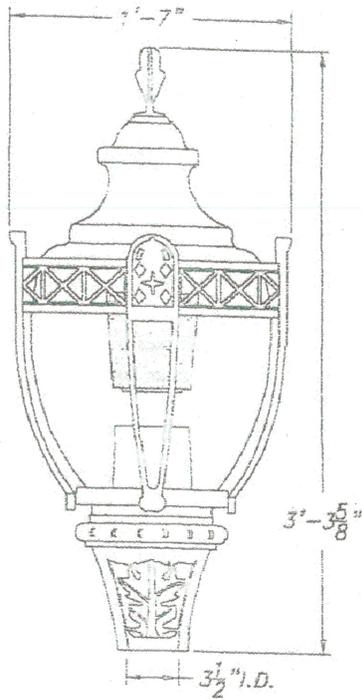


Niland Company

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320 N. Clark El Paso, Tx 79905 • PH: 806-649-9013 • FAX: 868-775-3155 • WEB PAGE: HTTP://www.nilandco.com

OAKLEAF SERIES

OL-CON-X-BOR



E.P.A. = 2.84 SQ. FT.

SCALE: 1" = 1'-0"

SCALE: 1" = 1'-0"

EXAMPLE

OL-CON-X-BOR-PSMH-150-208-III-TB

OL-CON-X-BOR- HPS - 250 - MT - III - TB
Ballast Watts Refractor Color

BALLAST	WATTS	VOLTS		REFRACTOR	COLOR (POWDER COATED)
INC. <input type="checkbox"/>	42 <input type="checkbox"/> 150 <input type="checkbox"/>	120 <input type="checkbox"/>	<input type="checkbox"/>	TYPE III <input checked="" type="checkbox"/>	(TB) TEXTURED BLACK <input type="checkbox"/> (GG) GLOSS GREEN <input type="checkbox"/>
CFL <input type="checkbox"/>	50 <input type="checkbox"/> 175 <input type="checkbox"/>	208 <input type="checkbox"/> 277 <input type="checkbox"/>	MULTI TAP <input type="checkbox"/>	TYPE V <input type="checkbox"/>	(TG) TEXTURED FOREST GREEN <input type="checkbox"/> (GR) GLOSS BRONZE <input type="checkbox"/>
HPS <input checked="" type="checkbox"/>	70 <input type="checkbox"/> 250 <input checked="" type="checkbox"/>	240 <input type="checkbox"/> 480 <input type="checkbox"/>	120 240 <input type="checkbox"/>		(TR) TEXTURED BRONZE <input type="checkbox"/> (VG) HAND BRUSHED VERDI GRIS <input type="checkbox"/>
PSMH <input type="checkbox"/>	100 <input type="checkbox"/>		208 277 <input type="checkbox"/>		(GB) GLOSS BLACK <input type="checkbox"/> CUSTOM <input type="checkbox"/>
LED <input type="checkbox"/>					

LUMINAIRE SPECIFICATIONS

HOUSING

The post top shall be core cast aluminum. Aluminum shall be certified as pure #356 alloy, free of any porosity, foreign materials or cosmetic fillers. Castings shall be uniform wall thickness with no warping or mold shifting. Minimum wall thickness shall be 3/16". Electrical components are mounted to the fitter and ballast canister. The ballast canister shall be mounted in the post top with three stainless steel screws. The optional refractor shall be molded of borosilicate glass or an upgraded globe with external refractor designed for either a type III or type V light distribution pattern.

ELECTRICAL

All electrical components and materials shall be UL-recognized and wired by a certified UL technician. All Niland ballasts are high power factor rated for 30°C/-20°F starting. Medium and Mogul base sockets are 5KV rated. The electrical assembly is provided with quick disconnects for servicing. Fixture shall be UL certified for wet locations.

MOUNTING

Fixture shall be mounted to canopy with stainless steel allen head set screws (3 @ 120°)

RELAMPING

The fixture is removed by loosening 4 stainless steel screws around globe.

FINISH

Fixture finish shall consist of degreasing, phosphate acid etching with 140°F+ deionized water, rinsed, oven dry off and top coated with a thermoset TGIC super polyester powder coat finish designed not to chalk or fade for many years. All Niland Company powders must pass a minimum 3000-hour salt spray test for corrosion resistance.

CERTIFICATION

The fixture shall be UL-listed for wet location use, and all H.D. listings.

WARRANTY

Fixture shall be warranted to be free of defects for five years. Ballast components shall carry the ballast manufacturers limited warranty of two years.

PHOTOMETRICS

Complete photometric data for all fixtures is available inIES-formatted 3.5 disks. A certified independent laboratory performs all testing. Call the Niland Company directly for more information.



Niland Company

NILAND COMPANY • PH: (915) 779-1405 • FAX: (915) 779-1411 • E-MAIL: INFO@NILAND.CO
 320 N. Oak (I) Paso, Tx 79905 • PH: 800-648-8013 • FAX: 888-773-2115 • WEB PAGE: HTTP://WWW.NILAND.CO

NILAND-19 SERIES

ORDERING GUIDE

Catalog Code Description: N-18-F5-ht-top-globe

Name of base (Niland-19); Diameter of Base (19")
 Type of Pole (Fluted 5"); Height of Pole (None)
 Top Style (None); Color (None); Optional Equip. (None)

Post Selection: Specify pole height from bottom of base.

Catalog Code	Shaft Type	Heights
N-19-S5-__	5" dia. smooth	8'-16'
N-19-F5-__	5" dia. fluted	8'-16'
N-19-TF35-__	3"-5" dia. tapered-fluted	8'-16'

Check Appropriate Boxes for Finish and Material

Finish	Material
<input type="checkbox"/> Flat Black	<input type="checkbox"/> Cast Aluminum
<input type="checkbox"/> Hunter Green	<input type="checkbox"/> Cast Iron
<input type="checkbox"/> Forest Green	<input type="checkbox"/> Steel
<input type="checkbox"/> Dark Bronze	<input type="checkbox"/> Custom
<input type="checkbox"/> Custom	

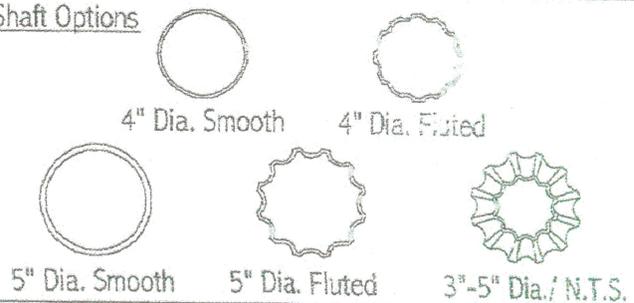
Optional Equipment

- Receptacles (see Accessories section)
- Banner Arms (see Accessories section)
- Flag Pole Holders (see Accessories section)
- Signage (see Signage section)

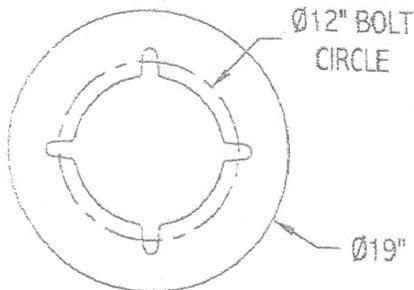
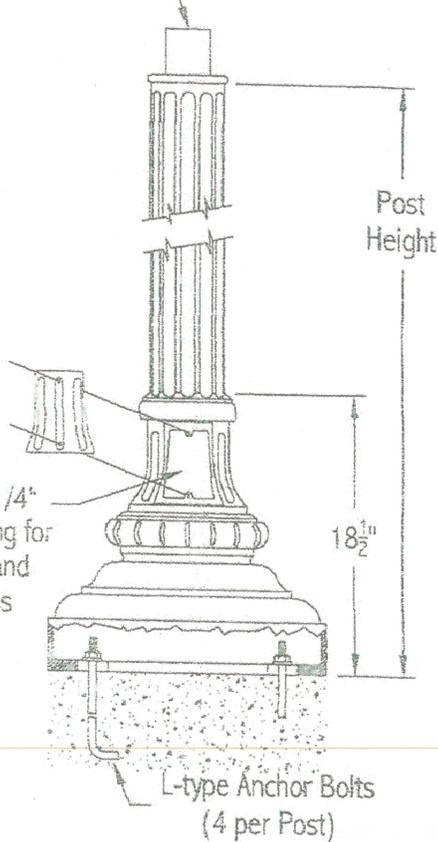
Ordering Instructions

To order, simply follow the format for the Catalog Code. The code description is: Base-Diameter-Pole-Height-Top-Globe. Once the base has been selected, use the base initials to begin your catalog code. The next entry to the code is the diameter of the base. Next, you will choose the type of pole that the product will have whether it is smooth, fluted, tapered fluted, etc. The height of pole is next and it is measured from the bottom of the base. The post top style is next and followed by the globe type. Codes can be found under each item.

Shaft Options



Ø3" O.D. X 3" H. Tenon



SCALE: 1" = 1'-0"



Niland Company

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