



SUBJECT: Street Lighting / Security

COMMISSION ACTION REQUESTED ON: August 16, 2017 Work Session (60 min.)

PURPOSE: Jody Camak from Georgia Power to make a presentation on lighting upgrades and the SiteView camera program.

HISTORY: In response to input from the fledgling Norwich Group, the DDA, City and Georgia Power worked to add 26 additional street lights to the Norwich Corridor between L Street & 5th Street. Safety and lighting are still high priority issues for the Norwich Corridor and improving both are action items in the RSVP plan. Georgia Power has again teamed up with the City and DDA to survey for “dark spots” in the neighborhood, upgrade existing lighting to LED and also make their SiteView camera system available to the City.

FACTS AND ISSUES: After review by staff, it is apparent that cross streets and lanes along the Norwich Corridor are poorly lit, if they are lit at all. Georgia Power is in the process of checking existing lights for operation and providing a list of suggestions for new lights. The upgrade of the existing streetlights to LED would provide a brighter truer light than the current sodium vapor lamps. Similar upgrades have been completed in other cities with great success. The City has been investigating cameras, but Georgia Power has the SiteView camera that is managed much like the street lights. GA Power installs & maintains the cameras, placed where the city dictates. The “film” can be accessed from any internet connected device by those authorized. Options include License Plate Recognition, and connection with the PD software.

BUDGET INFORMATION: Streetlight upgrade is nominal charge for standard lights, decorative downtown lights would be subject to an upcharge to choose the fixture. Cameras are billed monthly and range from \$200 - \$240/month. Staff recommends 5 cameras.

OPTIONS: Proceed with streetlight upgrade as presented, proceed with roadway light upgrade but select decorative downtown lighting later, proceed with camera program.

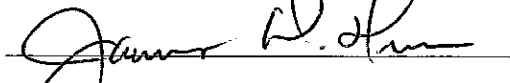
DEPARTMENT RECOMMENDATION ACTION: Staff recommends upgrading the roadway lighting to LED (standard and decorative) and continuing to refine installation of SiteView cameras. Also working with Georgia Power to improve lighting in known “dark areas”.

DEPARTMENT:

Prepared by: Mathew Hill, Executive Director, Brunswick Downtown Development Authority. *MB*

ADMINISTRATIVE COMMENTS:

ADMINISTRATIVE RECOMMENDATION:



City Manager

8-8-17

Date



SUBJECT: Street Lighting / Security

Roadway Lighting Upgrade Pricing:

Remove 1,672 Cobra Head fixtures	-\$	25,038.54
Remove 196 Post Top fixtures (decorative)	-\$	<u>3,206.56</u>
Total Removal	-\$	28,245.10

Option 1 – upgrade with stock LED fixtures

Install 1,672 LED Roadway fixtures	+\$	25,861.67
Install 196 Traditionaire decorative fixtures	+\$	<u>3,239.88</u>
Total Installation	+\$	29,101.55

Option 2 – upgrade with Brighton LED fixtures – upfront payment for upgrade to Brighton results in the standard monthly lease of \$16.53 each.

Install 1,672 LED Roadway fixtures	+\$	25,861.67
Install 196 Brighton decorative fixtures	+\$	<u>294,000.00</u>
Total Installation	+\$	319,861.67

Option 3 – upgrade with Brighton LED fixtures – no upfront payment for upgrade to Brighton results in higher monthly lease of \$38.00 each.

Install 1,672 LED Roadway fixtures	+\$	25,861.67
Install 196 Brighton decorative fixtures	+\$	<u>0.00</u>
Total Installation	+\$	25,861.67

Cameras – Install 5 SiteView cameras in the Norwich Corridor - \$1,000 – 1,200 per month
 Each camera is \$200 - \$240/month.

DESCRIPTION

The Traditionaire LED outdoor luminaire displays the old-fashioned charm of traditional area lighting, enhancing any setting with distinctive styling. As a decorative luminaire, the Traditionaire LED tastefully complements the architectural and environmental design of parks and roadways. The high-lumen downlight configuration uses Eaton's patented LightBAR™ technology to deliver uniform and efficient illumination to pedestrian and roadway applications.

Catalog #		Type
Project		
Comments		Date
Prepared by		

SPECIFICATION FEATURES

Construction

Hinged (stainless steel hinge pins) die-cast aluminum housing and cover with cupola. 3G vibration tested to ensure strength of construction and longevity in application.

Optics

Choice of six patented, high-efficiency AccuLED Optic™ technology manufactured from injection-molded acrylic. Optics are precisely designed to shape the light output, maximizing efficiency and application spacing. AccuLED Optic technology, creates consistent distributions with the scalability to meet customized application requirements. Offered Standard in 4000K (+/- 275K) CCT and minimum 70 CRI. Optional 3000K CCT, 5000K CCT and 5700K CCT. For the ultimate level of spill

light control, an optional house-side shield accessory can be field or factory installed. The house-side shield is designed to seamlessly integrate with the SL2 or SL3 optics.

Electrical

LED drivers mount to die-cast aluminum back housing for optimal heat sinking, operation efficacy, and prolonged life. Standard drivers feature electronic universal voltage (120-277V 50/60Hz), 347V 60Hz or 480V 60Hz operation, greater than 0.9 power factor, less than 20% harmonic distortion, and is suitable for operation in -40°C to 40°C ambient environments. All fixtures are shipped standard with 10kV/10kA common – and differential – mode surge protection. LightBARs feature an IP66 enclosure rating and

maintain greater than 95% lumen maintenance at 60,000 hours per IESNA TM-21.

Mounting

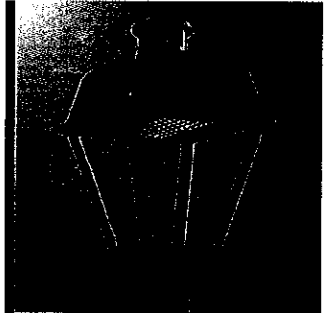
Self-aligning pole-top fitter for 3" O.D. pole tops or vertical tenons. Square headed 1-1/4" polymer coated mounting bolts with a lock nut.

Finish

Cast components finished in a super durable black TGIC polyester powder coat paint, 2.5 mil nominal thickness for superior protection against fade and wear. Optional colors include: bronze, grey and white. RAL and custom color matches available.

Warranty

Five-year warranty.

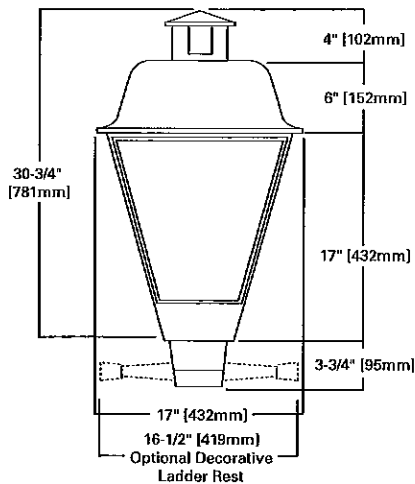


UTLD TRADITIONAIRE LED DOWNLIGHT

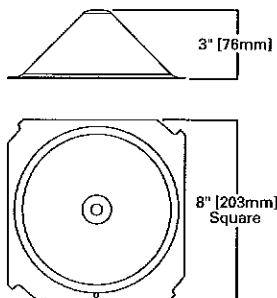
1 - 3 LightBARs
Solid State LED

DECORATIVE POST TOP
LUMINAIRE

DIMENSIONS



OPTIONAL BIRD CONE



CERTIFICATION DATA

ULcUL Listed
LM79 / LM80 Compliant
3G Vibration Rated
IP66 LightBARs
ISO 9001

ENERGY DATA

Electronic LED Driver
>0.9 Power Factor
<20% Total Harmonic Distortion
120-277V/50 & 60Hz, 347V/60Hz,
480V/60Hz
-40°C Minimum Temperature
40°C Ambient Temperature Rating

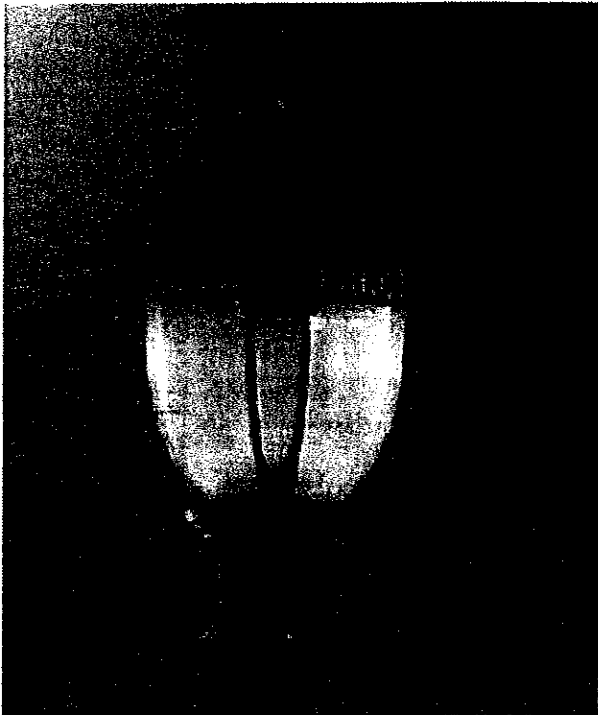
EPA

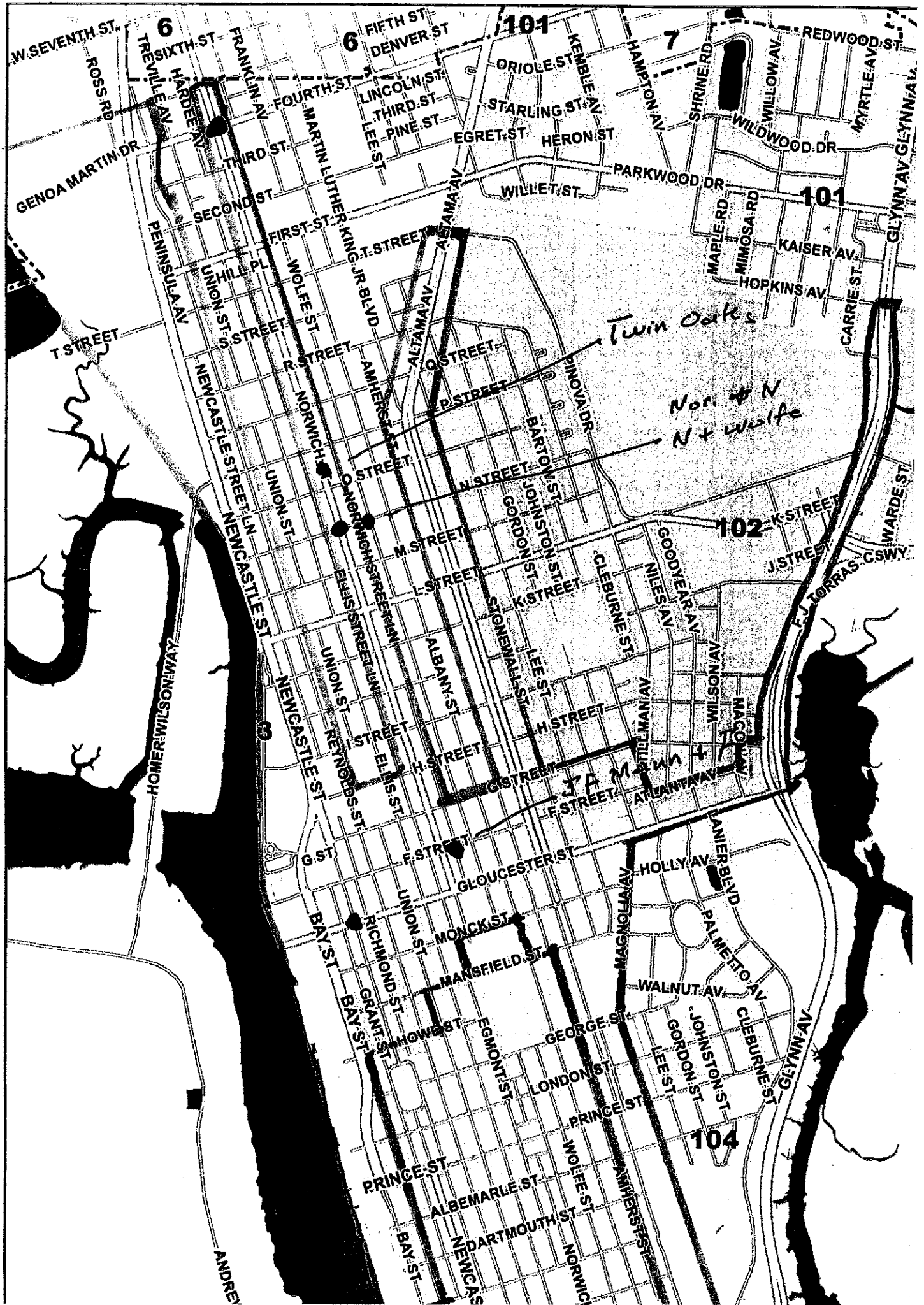
Effective Projected Area: (Sq. Ft.)
2.3

SHIPPING DATA

Approximate Net Weight:
37 lbs. (17 kgs.)

15 Brighton Post-Top





W. SEVENTH ST.
ROSS RD.

6

TRENTVILLE ST.
SIXTH ST.
FRANKLIN AV.

6

FIFTH ST.
DENVER ST.
LINCOLN ST.
THIRD ST.
PINE ST.

101

ORIOLE ST.
STARLING ST. AV.
EGRET ST.
HERON ST.

7

HAMPTON AV.
SHRINE RD.
WILLOW AV.
REDWOOD ST.
MYRTLE AV.

GENOA MARTIN DR.
PENNINSULA AV.

SECOND ST.
UNION HILL PL.
UNION ST.

FIRST ST.
WOLFE ST.
R STREET

ALTA MA AV.
Q STREET.
P STREET.

101
WILLOW DR.
MAPLE RD.
MINOSA RD.
KAISER AV.
HOPKINS AV.

Twin Oaks

*Nor. & N
N + wife*



HOMER WILSON WAY

3

NEWCASTLE ST.
UNION ST.
REYNOLDS ST.

ALBANY ST.
M STREET.
L STREET.

STONEMAN ST.
LEE ST.
H STREET.

102
K STREET.
J STREET.
WARDE ST.

J.A. M...

NEWCASTLE ST.
UNION ST.
REYNOLDS ST.

ALBANY ST.
H STREET.
G ST.

GLoucester ST.
MONCK ST.
MANSFIELD ST.

104
MAGNOLIA AV.
HOLLY AV.
PALMETTO AV.

BAY ST.

UNION ST.
MONCK ST.
MANSFIELD ST.

GLoucester ST.
MONCK ST.
MANSFIELD ST.

104
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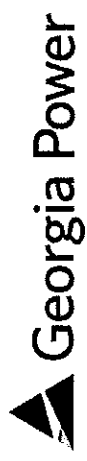
104
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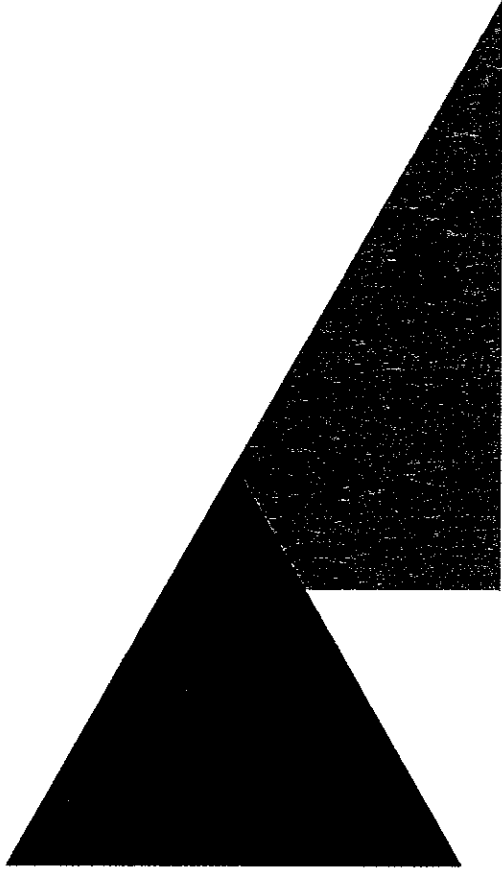
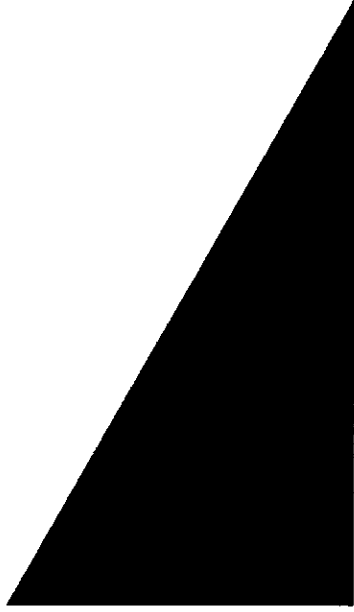
GLoucester ST.
MONCK ST.
MANSFIELD ST.

104
MAGNOLIA AV.
HOLLY AV.
PALMETTO AV.



Lighting, Security and Smart Cities

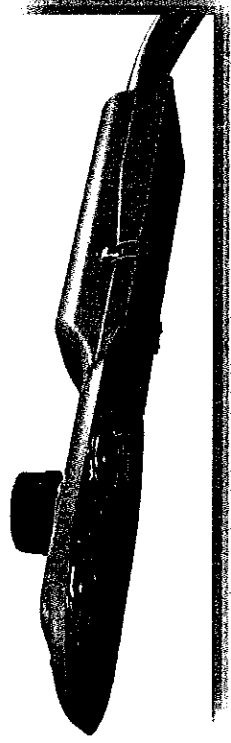
Jody Camak Lighting Sales Manager





Lighting and LED's

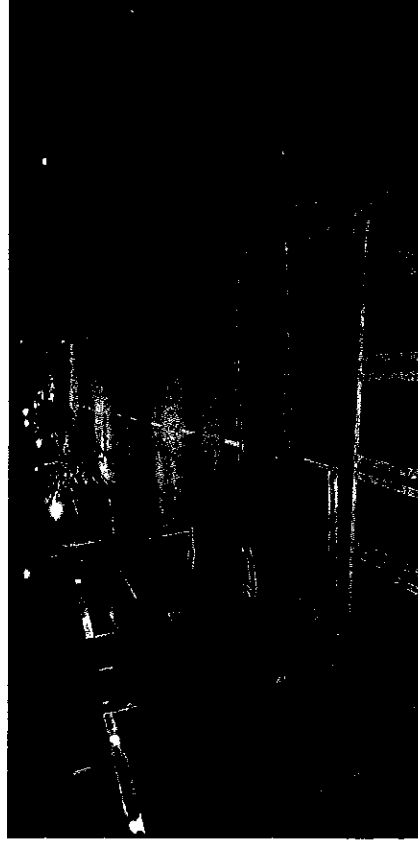
- Customers want it!
- Better Light (quality/white light + uniformity)
- Better control (of light + of fixture (NLCs))
- Flexibility (customization)
- Reduced maintenance
- Light trespass minimized/eliminated
- Instant on/No warm-up





Why LED?

HPS



LED



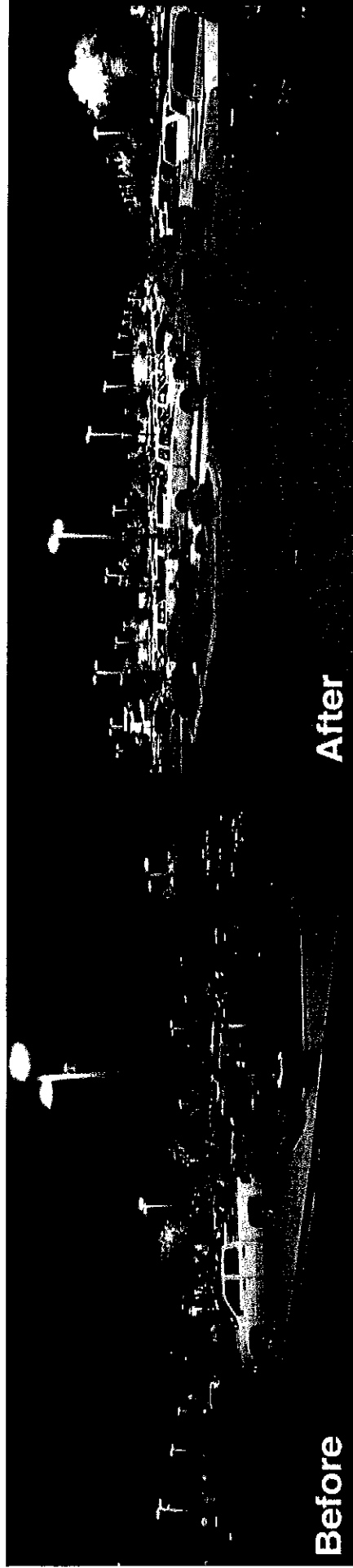
City of Atlanta – Recent roadway LED conversion
Beckwith St. near Vine St.

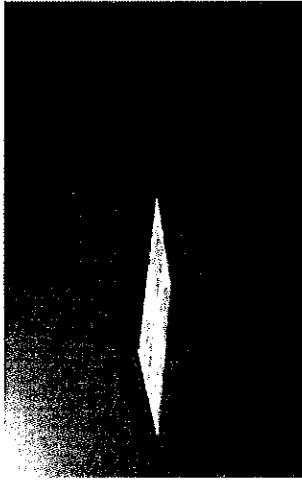
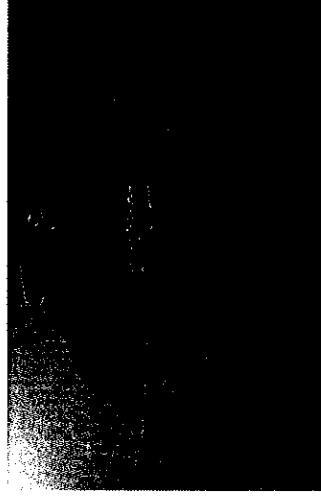
Why LED?



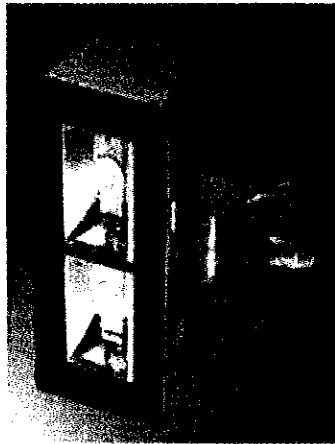
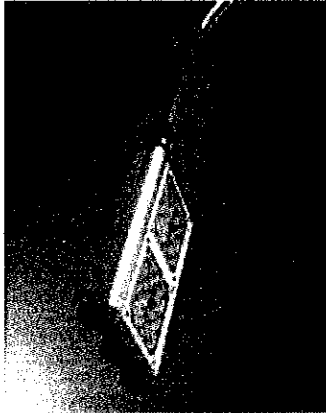
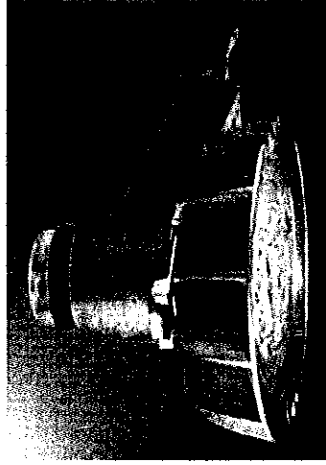
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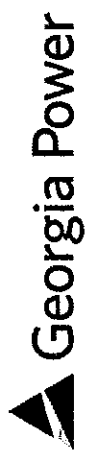
LED



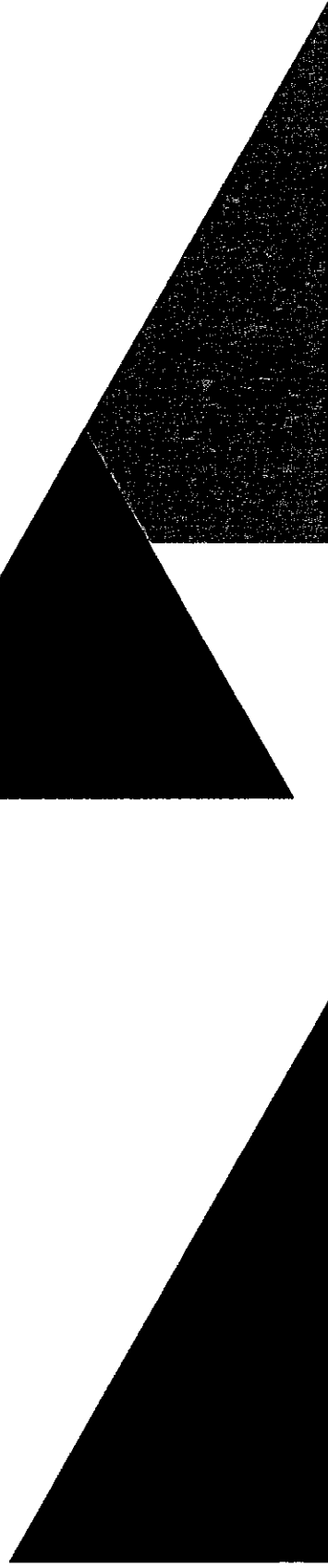


Types of Fixtures




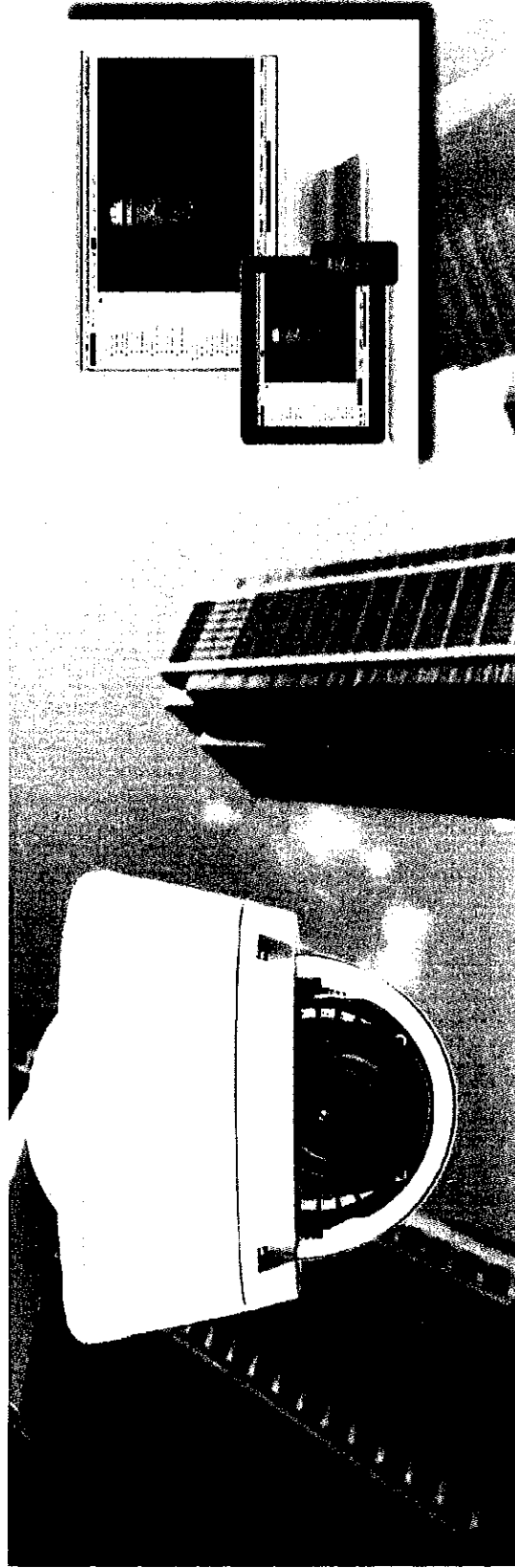


SiteView™ Video Surveillance as a Service

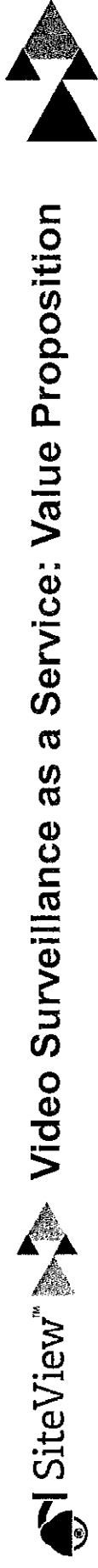




 Georgia Power



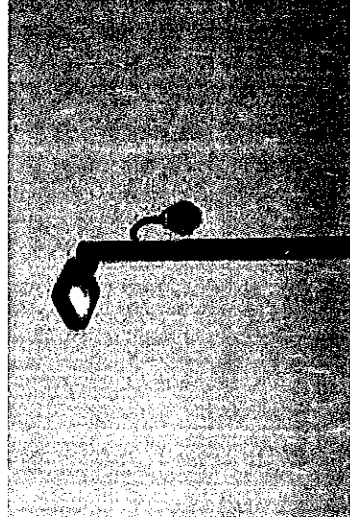
 SiteView™ 

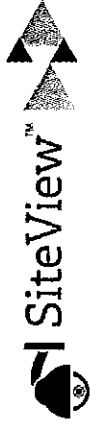


Video Surveillance as a Service: Value Proposition



- No upfront capital investment
- Valuable vantage point from our vertical infrastructure
- Georgia Power owns the camera equipment
- No assets to manage or maintain
- One single call to Georgia Power for support
- Exterior cameras only
- A monthly fee for equipment, network or internet connection and energy
- Options for either cloud or local onsite video storage
- An option to directly connect and share video with local law enforcement where supported



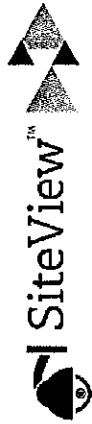


What are we offering?

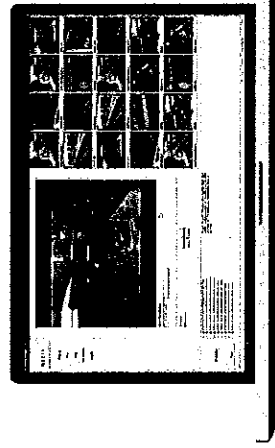
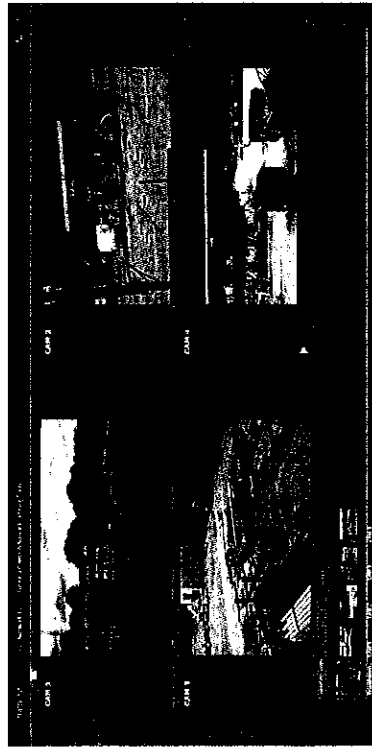
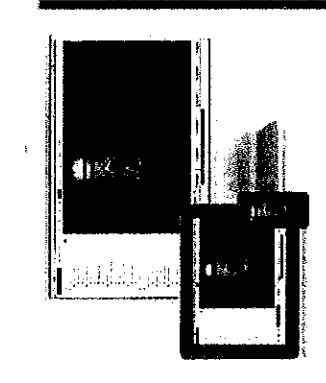
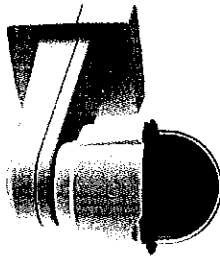


What's included?

- Georgia Power owned camera equipment mounted on Georgia Power or customer owned lighting only poles (not on distribution poles)
- Networking equipment required to connect the camera system
- Energy connection for the camera system on our poles
- Internet enabled remote access to live and recorded HD Resolution video through a mobile, tablet or PC device
- Full professional installation and maintenance



Technology Offerings



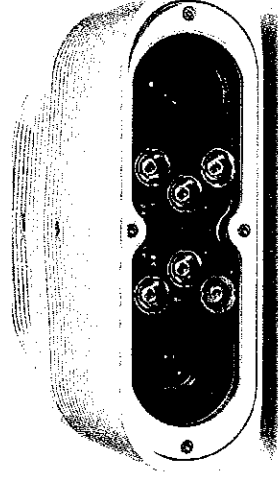
Automatic License Plate Recognition





License Plate Recognition (LPR)

- Parking lots
- Traffic patterns
- Municipal/police use



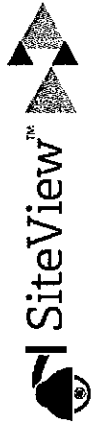
Swift Deployment Surveillance Solution

- Integrated solution combining local recording, wireless transmission, day/night PTZ color camera
- Operates over wireless technologies
- Access live video or stored digital footage
- Controlled remotely with full 360° pan, tilt and zoom functions





View live or stored video



Stratocast ISO Network, LLC | Peachtree Hill Shopping Center

Banfield Dumpster

Kroger Fuel 2

Outparcel 2

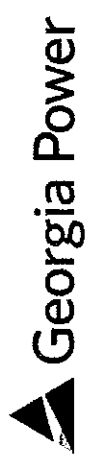
LAF Front Parking

Pleasant Hill Entrance

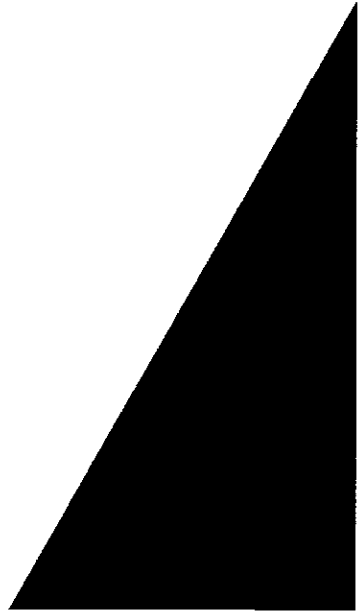
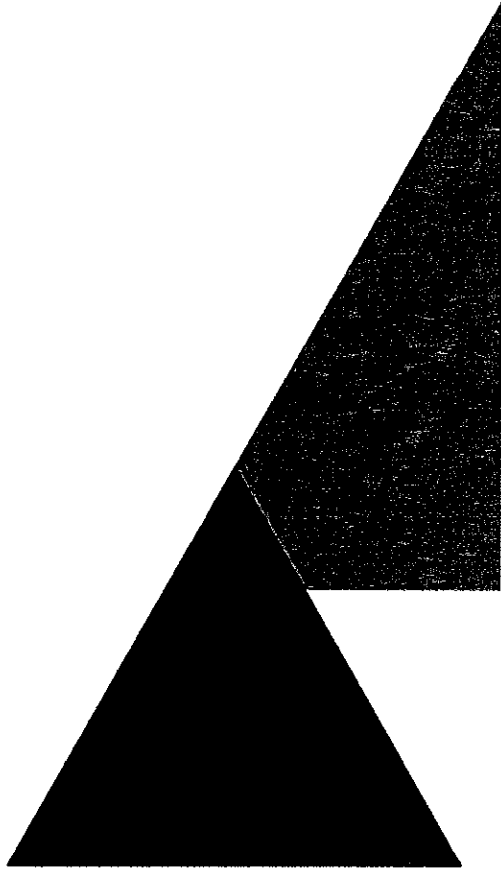
Outparcel 1

Search Cameras

Genetec



Smart Cities



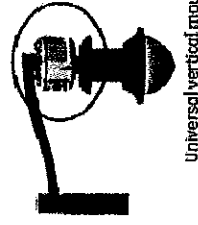
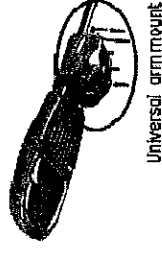
Our Capabilities, Experience and Performance



Smart Campus – “Improving the quality of life with information”

Georgia Power utilizes our existing infrastructure combined with intelligent devices to provide:

- Outdoor Lighting Control
 - Dimming and scheduling for safety and ambience
- Increased Security & Public Safety
 - SiteView™ Camera surveillance to monitor critical areas
 - Gunshot / chemical / radiation detection to detect and respond to hazards
 - Advanced camera package: facial recognition, license plate reader for increased security
- Operational Efficiency
 - Traffic pattern recognition to reduce congestion
 - Parking optimization for convenience and enforcement
 - Environmental Monitoring (temp/RH, rainfall, pollution, etc.)
- Communications/Quality of Life
 - Public Wi Fi for convenience
 - Community messaging or music via concealed placement speakers
 - Digital Signage for ad revenue or public service announcements



Universal vertical mount

Universal vertical mount

