



**I.A.**

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690 Chesterfield Pkwy W • Chesterfield MO 63017-0760  
Phone: 636-537-4000 • Fax 636-537-4798 • www.chesterfield.mo.us

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## **Architectural Review Board Staff Report**

**Project Type:** Amended Architectural Elevations

**Meeting Date:** August 11, 2011

**From:** Mara Perry, AICP  
Senior Planner

**Location:** South side of Chesterfield Airport Road, east of the intersection with Boones Crossing

**Applicant:** Cunningham Group on behalf of Tahoe Joe's Famous Steakhouse

**Description:** **Chesterfield Commons, Outlot 7 (Tahoe Joe's):** Amended Architectural Elevations and an Architect's Statement of Design for a 1.9 acre lot of land zoned "C8" Planned Commercial District located on the south side of Chesterfield Airport Road, east of the intersection with Boones Crossing.

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### **PROPOSAL SUMMARY**

The Cunningham Group, on behalf of Tahoe Joe's Famous Steakhouse, has submitted a request for Amended Architectural Elevations for Chesterfield Commons, Outlot 7. The request is for approval of amendments to the former Old County Buffet building.

### **HISTORY OF SUBJECT SITE**

On November 17, 1997 the City of Chesterfield approved Ordinance 1344, which permitted the development of Chesterfield Commons. On January 4, 1999 the City approved the Concept Plan for the portion of the development located on the south of Chesterfield Airport Road. The approved plan included both the strip retail center and 15 Outlots. The Site Development Section Plan for the strip retail development was approved at the same time as the Site Development Concept Plan. In February 2000, the Site Development Section Plan for Outlot 7, also known as the Old Country Buffet site, was approved.

The original governing ordinance for the Commons was amended by Ordinance 1600 and 1627. In 2004, the City of Chesterfield approved Ordinance 2081, which repealed 1600 and 1627 and consolidated the governing conditions for the Commons into one ordinance.



**STAFF ANALYSIS**

**General Requirements for Site Design:**

**A. Site Relationships**

*Addressed As Written*       *Addressed with Modification*       *Not Applicable*

The site is built out and the overall relationship of the building to the site and surrounding areas has been addressed through previously approved plans.

**B. Circulation System and Access**

*Addressed As Written*       *Addressed with Modification*       *Not Applicable*

The circulation and access to the site has already been approved and no changes are being proposed to the circulation on the site.

**C. Topography**

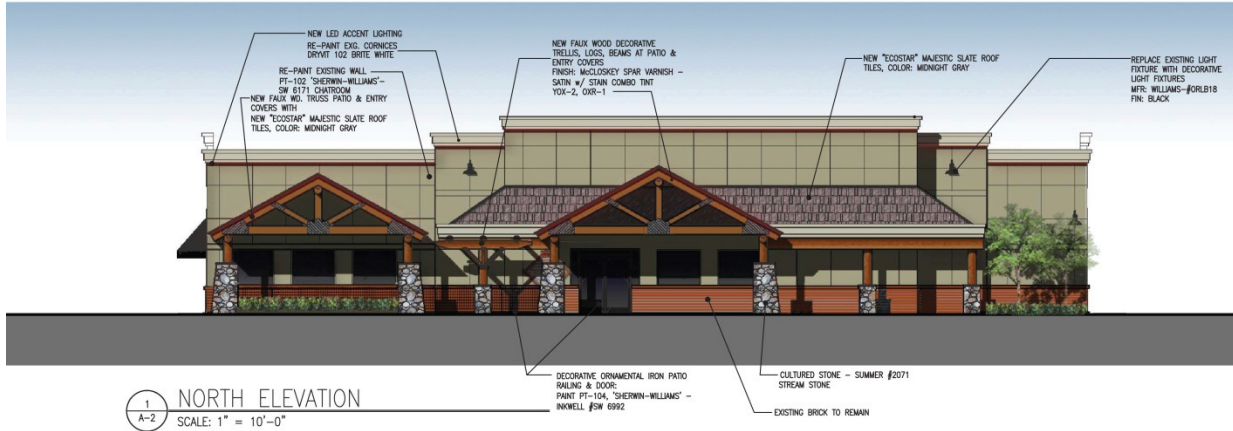
*Addressed As Written*       *Addressed with Modification*       *Not Applicable*

The subject site has already been developed.

**D. Retaining Walls**

*Addressed As Written*       *Addressed with Modification*       *Not Applicable*

No retaining walls are being proposed for the development.



**General Requirements for Building Design:**

**A. Scale**

Addressed As Written       Addressed with Modification       Not Applicable

The existing scale of the building will remain the same as it was approved and built.

**B. Design**

Addressed As Written       Addressed with Modification       Not Applicable

The proposed elevations include a covered porch area, varied roof lines and changes of materials which emphasize the pedestrian scale.

**C. Materials and Color**

Addressed As Written       Addressed with Modification       Not Applicable

The proposed elevations include a mixture of materials and colors on all elevations. The existing brick on the lower portion of the building will remain. Additional stone and wood columns will be added to the front porch and covered patio area. The rooflines which will be visible will have a slate tile roof.

**D. Landscape Design and Screening**

Addressed As Written       Addressed with Modification       Not Applicable

Landscape for the development is existing on the site. A planting bed in the front of the building will be replaced with a covered outdoor patio area.

**E. Signage**

Addressed As Written       Addressed with Modification       Not Applicable

Signage is not submitted for approval at this time. Signage will be reviewed against the Sign Package for the site and will be approved by Staff.

**F. Lighting**

Addressed As Written       Addressed with Modification       Not Applicable

New architectural light fixtures are being proposed on the building and will be flat lens fully enclosed fixtures per the City of Chesterfield code.

Architectural lighting is being proposed along the bottom side of the cornices around the building as well as along the edges of the new covered patio roof and the entry porch roof. The proposed lighting material is an LED Neon-Flex Plus. City of Chesterfield Code prohibits the use of visible neon tubing for an architectural element but it does allow for LED technology to be used subject to City of Chesterfield approval. That lighting is intended to be accent lighting only.

**DEPARTMENTAL INPUT**

Staff has reviewed the Amended Architectural Elevations and has found the application to be in conformance with City of Chesterfield Ordinance 2081, and all other applicable Zoning Ordinance requirements. Staff requests action on the Amended Architectural Elevations for The Chesterfield Commons, Outlot 7.

**MOTION**

The following options are provided to the Architectural Review Board for consideration relative to this application:

- 1) "I move to forward the Amended Architectural Elevations for Chesterfield Commons, Outlot 7, as presented, with a recommendation for approval (or denial) to the Planning Commission."
- 2) "I move to forward the Amended Architectural Elevations for Chesterfield Commons, Outlot 7, to the Planning Commission with the following recommendations..."

Attachments

1. Architectural Review Packet Submittal



RECEIVED  
AUG - 3 2011  
DEPT. OF PLANNING  
& PUBLIC WORKS

ARCHITECTURAL REVIEW BOARD  
Project Statistics and Checklist

Date of First Comment Letter Received from the City of Chesterfield July, 15 2011  
Chesterfield Commons, Outlot 7

Project Title: Tahoe Joe's Famous Steakhouse Location: Chesterfield, MO 63005  
Tahoe Joe's Cunningham Group

Developer: Famous Steakhouse Architect: Architecture, P.A. Engineer: VAA, LLC

**PROJECT STATISTICS:**  
Size of site (in acres): 1.9 (existing) Total Square Footage: 8,587 (existing) Building Height: 24 feet high - 1 story (existing)

Proposed Usage: Restaurant / Bar - No change from existing use.

Existing exterior materials to remain and be refinished with new paint on efs, stone veneer, varnish / stain combo on new wood, and new fabric on existing awnings.

Roof Material & Design: "EcoStar" slate roof tile on new covered patio and front porch remodel.  
No change to existing "Old Country Buffet" main building roof deck.

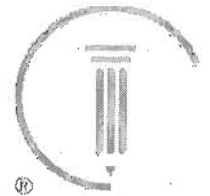
Screening Material & Design: N/A

Description of art or architecturally significant features (if any): N/A

**ADDITIONAL PROJECT INFORMATION:**

**Checklist:** Items to be provided in an 11" x 17" format

- Color Site Plan with contours, site location map, and identification of adjacent uses.
- Color elevations for all building faces.
- Color rendering or model reflecting proposed topography.
- Photos reflecting all views of adjacent uses and sites.
- Details of screening, retaining walls, etc.
- Section plans highlighting any building off-sets, etc. (as applicable)
- Architect's Statement of Design which clearly identifies how each section in the Standards has been addressed and the intent of the project.
- Landscape Plan.
- Lighting cut sheets for any proposed building lighting fixtures. (as applicable)
- Large exterior material samples. (to be brought to the ARB meeting)
- Any other exhibits which would aid understanding of the design proposal. (as applicable)
- Pdf files of each document required.



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# Tahoe Joe's Famous Steakhouse

**Chesterfield Commons, Outlot 7  
17258 Chesterfield Airport Road  
Chesterfield, MO 63005**

Project Number: 11-0047  
Date: July 28, 2011  
Architect: Cunningham Group Architecture, P.A.

## Architects Statement of Design

### Chapter One-Site Design

#### Site Plan Features

Existing topography remains virtually unchanged. The project consists of re-using the existing site conditions. Existing sidewalk, driveway, parking stall location and numbers, site drainage remains unchanged.

The proposed site plan design will modify the existing partial front porch roof at the restaurant primary façade entry on the north elevation. All materials and finishes will complement the existing adjacent development character of the neighboring area.

Convert existing landscaped area to a covered patio (510 square feet) at the restaurant primary façade entry on the northeast end of the existing building. All materials and finishes will complement the existing adjacent development character of the neighboring area.

#### Landscape

Existing Landscape Plan remains unchanged.

#### Site Lighting

Existing site lighting remains unchanged.

#### Pedestrian & Vehicular Circulation

Circulation patterns will remain intact and remain safe, obvious and simple.

Vehicular circulation around the site remains unchanged. Pedestrian access to the restaurant entry remains the same.

### Chapter Two-Buildings

#### General Architectural Guidelines

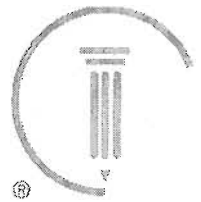
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Michael P. Strand, AIA  
Brian Tempas, AIA  
Kathryn M. Wallace, AIA  
Jonathan V. Watts, AIA



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Existing Old Country Buffet building exterior remains virtually unchanged. The project consists of interior renovation of public dining area and an outdoor patio dining addition of 510 S.F.; renovation of building exterior elevations, including finishes, lighting and signage. All new exterior materials and finishes will complement the existing adjacent development character of the neighboring area.

### Scale

Existing building remains unchanged and consistent in scale to other structures in the area. The proposed scale of the new covered patio is designed to complement the existing structure in scale. Colored rendered elevations have been included in the ARB submittal which expresses the scale of the new patio cover in relationship to the existing structure.

### Design

Architectural detailing and material types of the proposed covered patio addition will coordinate with the existing building.

Existing parapets will screen all new roof top equipment.

Existing front porch roof offer entrance protection from the elements and will be remodeled with new finishes that will complement the existing adjacent development character of the neighboring area.

Existing awnings over exterior windows will be refurbished with new fabric that will complement the existing adjacent development character of the neighboring area.

Colored rendered elevations have been included in the ARB submittal which expresses the new design and details in relationship to the existing structure.

### Relation to Adjacent Development

The overall architectural and site design of the building remains the same. It is compatible with the developed character of the neighboring area. The building shares elements of building style, form, size, color, and materials with surrounding properties. The new exterior finish materials and colors do not clash with existing materials and are consistent with other colors found in the area.

### Materials and colors

The existing building consists of a red brick around the building at the base and is to remain unchanged to complement the design and character of the neighboring area.

The existing building EIFS wall material to remain and refinished with new paint color. Remove all existing tile elements on exterior walls and finish to match existing EIFS material.

Most existing windows will remain unchanged and the window awning fabric color changed out to black with thin gold stripes. New dark painted door and frames provided at primary building entries.



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All new exterior finish materials and colors do not clash with existing materials and are consistent with other colors found in the area. Colored rendered elevations have been included in the ARB submittal which expresses the new renovated materials, color and finishes in relationship to the existing building.

#### Building Lighting

The existing building mounted lighting to be removed and replaced with new light fixtures in the same locations as the existing fixtures. New building mounted lighting as specified to comply with City of Chesterfield Lighting Ordinance 2228. This requires all metal halide lamp fixtures be fully shielded and only in enclosed luminaries.

See light fixture cut sheets that have been included in the ARB submittal package.

#### **Chapter Three-Miscellaneous**

##### Screening (Fences and Walls)

Existing trash enclosure to remain unchanged.





# GENERAL NOTES

1. CONTRACTOR TO FIELD VERIFY ALL EXISTING CONDITIONS INCLUDING LOCATIONS OF EXISTING PUBLIC AND PRIVATE UTILITIES, AND NOTIFY ENGINEER OF ANY DISCREPANCIES PRIOR TO STARTING CONSTRUCTION.
2. ALL EXISTING UTILITIES AND OTHER IMPROVEMENTS ARE TO REMAIN UNLESS NOTED OTHERWISE.
3. CONTRACTOR TO PROTECT FROM DAMAGE ALL EXISTING IMPROVEMENTS, LANDSCAPING, STRUCTURES AND UTILITIES THAT ARE TO REMAIN. CONTRACTOR TO REPAIR ANY DAMAGE AT OWN EXPENSE.
4. ALL WORK TO CONFORM WITH CITY OF CHESTERFIELD AND STATE OF MISSOURI STANDARDS AND REGULATIONS.
5. PROVIDE TRAFFIC CONTROL AT STREETS AND SIDEWALKS PER CITY OF CHESTERFIELD AND THE MANUAL OF TRAFFIC CONTROL DEVICE REQUIREMENTS.
6. ANY WORK PERFORMED OUTSIDE THE PROPERTY BOUNDARIES MUST BE APPROVED BY OWNER AND ALL REGULATING GOVERNMENT AGENCIES AND APPROPRIATE PERMITS MUST BE OBTAINED.
7. UPGRADING CURBS AND PAVEMENT AS NEEDED
8. EXISTING INFORMATION TAKEN FROM AS-BUILT DRAWINGS FROM WOLVERTON & ASSOCIATES, INC., DATED 5/ 25/ 00.



**CUNNINGHAM GROUP**

**JEFFREY J. SCHROCK, P.E.**

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Revisions

No.	Date	Description

Date: 07/20/11

Comm. No.:

Drawn By: Checked By:

PIC/ACC: Document Phase:

Project Title



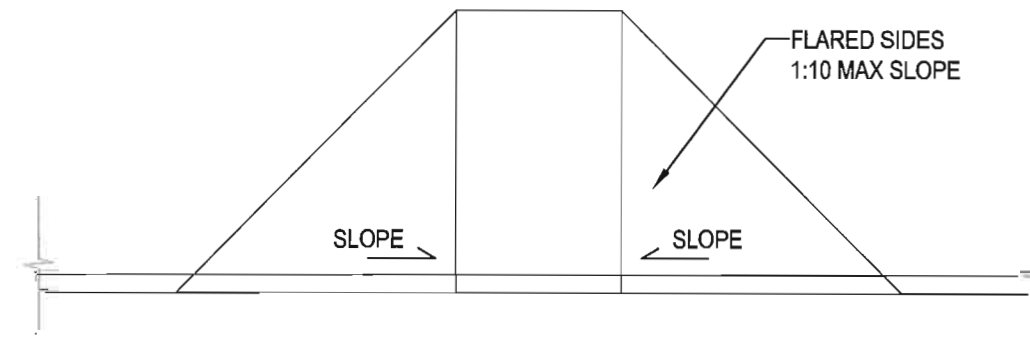
**AMENDED SITE DEVELOPMENT SECTION PLAN FOR CHESTERFIELD COMMONS OUTLOT 7**

**C-2**

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## LEGEND

PATIO HARDSCAPE  
SEE ARCHITECTURAL



406.4 LANDINGS. LANDINGS SHALL BE PROVIDED AT THE TOPS OF CURB RAMPS. THE LANDING CLEAR LENGTH SHALL BE 36 INCHES (915 MM) MINIMUM. THE LANDING CLEAR WIDTH SHALL BE AT LEAST AS WIDE AS THE CURB RAMP, EXCLUDING FLARED SIDES, LEADING TO THE LANDING. EXCEPTION: IN ALTERATIONS, WHERE THERE IS NO LANDING AT THE TOP OF CURB RAMPS, CURB RAMP FLARES SHALL BE PROVIDED AND SHALL NOT BE STEEPER THAN 1:12

## 2 ADA CURB RAMPS

C-2

N.T.S.

CHESTERFIELD AIRPORT ROAD

EXISTING SIDEWALK, DRIVEWAY, PARKING STALL LOCATION AND NUMBERS, SITE DRAINAGE REMAINS UNCHANGED

MODIFY PARTIAL FRONT PORCH ROOF-SEE ARCHITECTURAL

6" CPP @ 1.00% MIN. DOWNSPOUT COLLECTOR SYSTEM

AREA OF PLAN BEING AMENDED.

40 LF OF 6" CPP TO CONNECT INTO EXISTING 6" CPP

MAINTAIN 5x5' TURNING PAD PER ADA REQUIREMENTS. SEE DETAIL 2/C-2

CONNECT EXISTING LANDSCAPED AREA TO A COVERED PATIO (510 SF)

PATIO IMPROVEMENTS GRADE PATIO AT 2% AWAY FROM BUILDING

CONNECT ROOF DRAIN TO EXISTING 6" CPP. COORDINATE WITH MECHANICAL

EXISTING 6" CPP

EXISTING 6" CPP

EXISTING TRASH ENCLOSURE

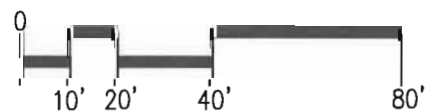
Ⓢ BUILDING SETBACK LINE

PRIVATE DRIVE

NORTH

CIVIL SITE PLAN

SCALE: 1" = 40'-0"

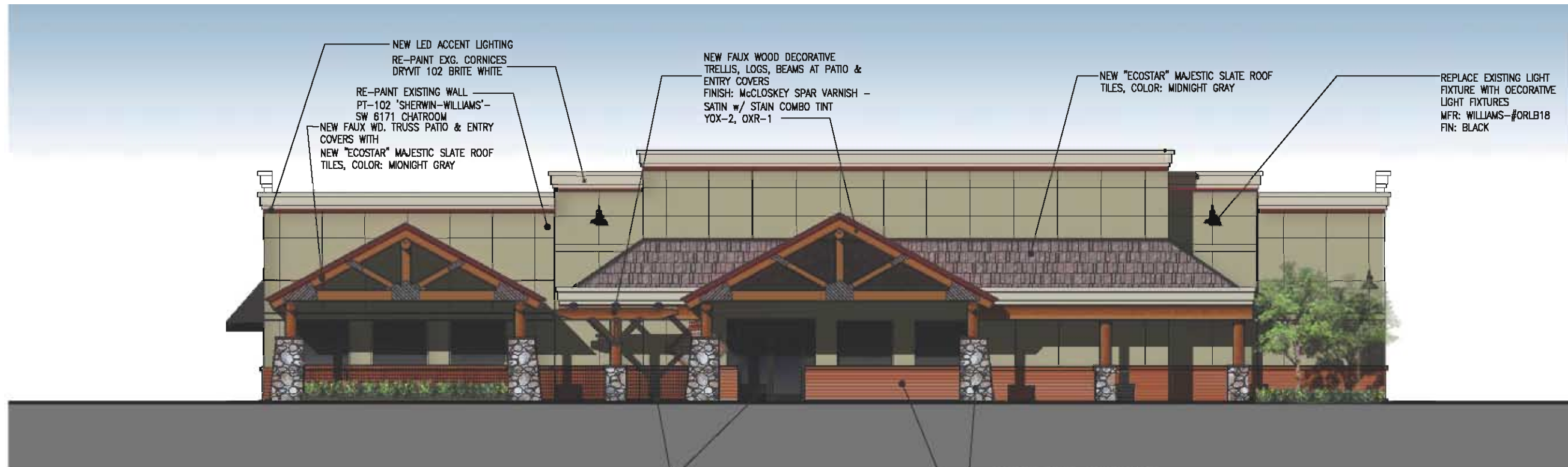


1 C-2





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1  
A-2  
**NORTH ELEVATION**  
SCALE: 1" = 10'-0"

NEW LED ACCENT LIGHTING  
RE-PAIN EXG. CORNICES  
DRYVIT 102 BRITE WHITE

RE-PAIN EXISTING WALL  
PT-102 'SHERWIN-WILLIAMS'-  
SW 6171 CHATROOM

NEW FAUX WD. TRUSS PATIO & ENTRY  
COVERS WITH  
NEW "ECOSTAR" MAJESTIC SLATE ROOF  
TILES, COLOR: MIDNIGHT GRAY

NEW FAUX WOOD DECORATIVE  
TRELLIS, LOGS, BEAMS AT PATIO &  
ENTRY COVERS  
FINISH: McCLOSKEY SPAR VARNISH -  
SATIN w/ STAIN COMBO TINT  
YOX-2, OXR-1

NEW "ECOSTAR" MAJESTIC SLATE ROOF  
TILES, COLOR: MIDNIGHT GRAY

REPLACE EXISTING LIGHT  
FIXTURE WITH DECORATIVE  
LIGHT FIXTURES  
MFR: WILLIAMS-#ORLB18  
FIN: BLACK

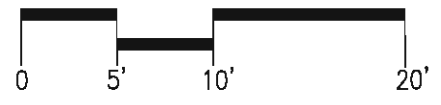
DECORATIVE ORNAMENTAL IRON PATIO  
RAILING & DOOR:  
PAINT PT-104, 'SHERWIN-WILLIAMS' -  
INKWELL #SW 6992

CULTURED STONE - SUMMER #2071  
STREAM STONE

EXISTING BRICK TO REMAIN



2  
A-2  
**EAST ELEVATION**  
SCALE: 1" = 10'-0"



REPLACE EXISTING LIGHT  
FIXTURE WITH DECORATIVE  
LIGHT FIXTURES  
MFR: WILLIAMS-#ORLB18  
FIN: BLACK

RE-PAIN EXG. CORNICES  
DRYVIT 102 BRITE WHITE

NEW LED ACCENT LIGHTING

NEW EXTERIOR FABRIC AWNINGS  
MFR: 'SUNBRELLA'-FABRIC #4988-0000  
COLOR: COOPER BLACK 46"- 4" REPEAT

NEW SIGN LOCATION

EXISTING BRICK TO REMAIN

RE-PAIN EXISTING WALL  
PT-102 'SHERWIN-WILLIAMS'-  
SW 6171 CHATROOM

NEW "ECOSTAR" MAJESTIC SLATE ROOF  
TILES, COLOR: MIDNIGHT GRAY

NEW LED ACCENT LIGHTING

NEW STONE COLUMN BASES -  
CULTURED STONE - SUMMER #2071  
STREAM STONE

DOOR PAINT PT-104,  
'SHERWIN-WILLIAMS' -  
INKWELL #SW 6992

DECORATIVE ORNAMENTAL IRON PATIO  
RAILING PAINT PT-104,  
'SHERWIN-WILLIAMS' -  
INKWELL #SW 6992

**Revisions**

No.	Date	Description

Date: 07/19/2011

Comm. No.:

Drawn By: Checked By:

PIG/AC: Document Phase:

Project Title

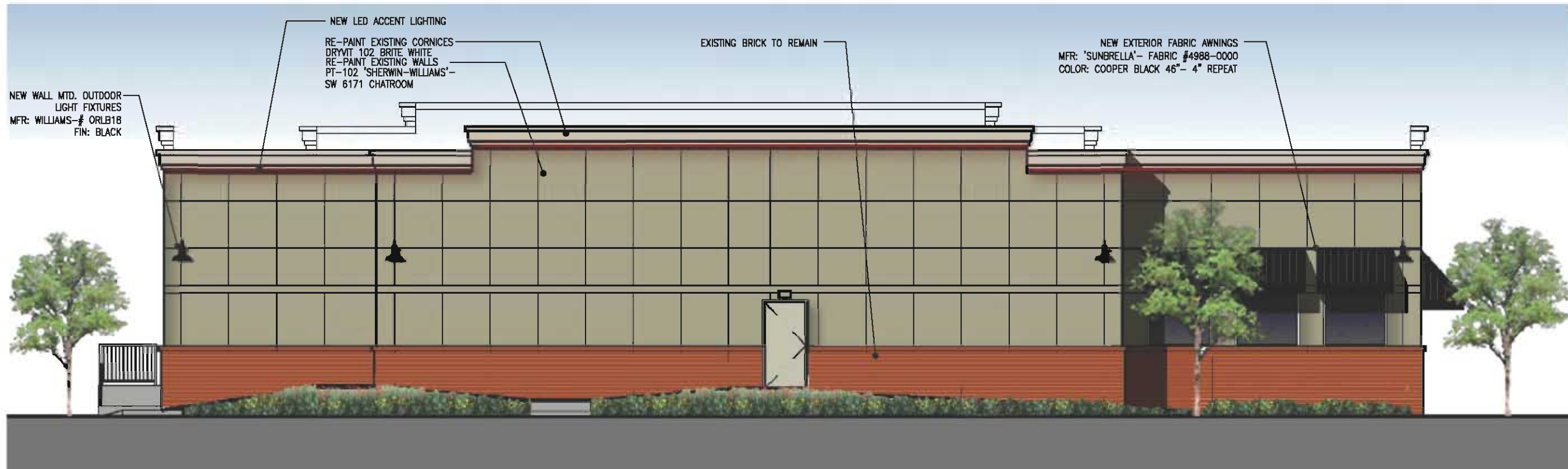
**Tahoe Joe's**  
Famous Steakhouse

**EXTERIOR  
ELEVATIONS**

**A-2**



**CUNNINGHAM**  
GROUP



1 SOUTH ELEVATION  
A-3 SCALE: 1" = 10'-0"

**Revisions**

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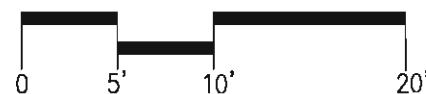
Project Title

**Tahoe Joe's**  
Famous Steakhouse

EXTERIOR  
ELEVATIONS



2 WEST ELEVATION  
A-3 SCALE: 1" = 10'-0"



**A-3**





SOUTHEAST SIDE OF BUILDING LOOKING NORTHEAST



SOUTH SIDE OF BUILDING LOOKING EAST



NORTHEAST VIEW OF EXISTING BUILDING



NORTHEAST VIEW OF EXISTING BUILDING



SOUTHWEST VIEW OF EXISTING BUILDING



NORTH VIEW OF EXISTING BUILDING

**Revisions**

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PC/AC: Document Photo:

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**Tahoe Joe's**  
Famous Steakhouse

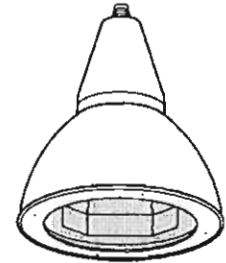
REFERENCE  
PHOTOS

REFERENCE OF EXISTING BUILDING AND ADJACENT AREA

# 18" CONE LUMINAIRE WITH LENS

# OHBD18

<b>SUBMITTAL:</b>	
<b>JOB:</b>	Tahoe Joe's Famous Steakhouse, Chesterfield, MO
<b>TYPE:</b>	<b>VOLTAGE:</b>



**EXAMPLE:** OHBD18 - 150PSMH120 - T5 - DBR - OPTIONS

SERIES

ELECTRICAL PACKAGE

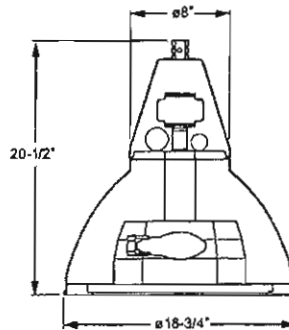
PHOTO. DIST.

FINISH OPTIONS

OPTIONS/ACCESSORIES

## SERIES

**OHBD18** — The dark sky-friendly OHBD18 is designed with a cone-shaped ballast housing, fully-rotatable segmented reflector and our exclusive self-leveling twist-lock fitter for easy on-site maintenance. The lensed door features stainless steel hardware and a high-impact, heat-resistant lens.



Total fixture EPA: 1.08/Weight: 31 Lbs.



This fixture is proudly made in the USA.

## OHBD18 SERIES

**HOUSING** — One-piece cast aluminum ballast housing, .188" minimum wall thickness, with exclusive self-leveling twist-lock fitter.  
**HOOD** — Spun aluminum reflector hood, .080" minimum wall thickness.  
**DOOR** — Cast aluminum hinged door fastened to the door frame using stainless steel hardware.  
**LENS** — Clear, .188" thick high-impact, heat-resistant tempered glass, secured with two retaining clips, sealed with silicone.

## ELECTRICAL PACKAGE (Must specify)

### PULSE START METAL HALIDE

Lamp:	ED-17/E17	ED-17/E17	ED-17/E17
Socket:	E26 Medium	E26 Medium	E26 Medium
ANSI Ballast Code:	M98/M143	M90/M140	M102/M142
	70PSMH120	100PSMH120	150PSMH120
	70PSMH208	100PSMH208	150PSMH208
	70PSMH240	100PSMH240	150PSMH240
	70PSMH277	100PSMH277	150PSMH277
	70PSMH347	100PSMH347	150PSMH347
		100PSMH480	150PSMH480

### HIGH PRESSURE SODIUM

Lamp:	E17	E17	E17
Socket:	E26 Medium	E26 Medium	E26 Medium
ANSI Ballast Code:	S62	S54	S55
	70HPS120	100HPS120	150HPS120
	70HPS208	100HPS208	150HPS208
	70HPS240	100HPS240	150HPS240
	70HPS277	100HPS277	150HPS277
	70HPS347	100HPS347	150HPS347
		100HPS480	150HPS480

## ELECTRICAL PACKAGE

**PSMH** — Rated -20°F minimum starting temperature.  
**HPS** — Rated -40°F minimum starting temperature.

All PSMH and HPS electrical packages include porcelain socket. Core and coil ballast mounted on removable ballast tray. Prewired at factory to a disconnect plug for easy field installation. HX-HPF or CWA ballast type standard. Lamp is optional, please specify when ordering.



# OHBD18

# 18" CONE LUMINAIRE WITH LENS

### REFLECTOR

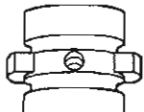
Segmented MIRD® 4 reflector in a high-reflectance white frame can be fully rotated allowing distribution orientation to be adjusted on-site.

### FINISH OPTIONS

Super durable polyester powder coat meets and exceeds AAMA 2604 specifications for outdoor durability.

### MOUNTING

Williams' exclusive self-leveling twist-lock fitter must be mounted to Williams' standard (TL2) twist-lock hub (see Williams' Decorative Pole Top Assemblies).



STANDARD TWIST-LOCK FITTER (Fits TL2 hub)

### LABELS

cCSAus certified as luminaire suitable for wet locations.

### DISTRIBUTION (Must specify)



T2 Type II



T3 Type III



T5 Type V

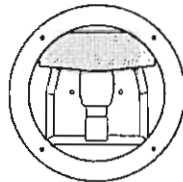
### FINISH OPTIONS (Must specify)

<b>BLK</b>	Black (RAL #9004)	<b>DBR</b>	Dark bronze (Protech #PC21462)
<b>GRAY</b>	Standard gray (Protech #PC18367)	<b>GRN</b>	Green (RAL #6005)
<b>SLV</b>	Satin aluminum (RAL #9006)	<b>WHT</b>	White (RAL #9003)
<b>RAL#</b>	Specify custom color		

### OPTIONS

<b>SF</b>	Single fuse (120V, 277V, or 347V only; must specify voltage)	<b>DF</b>	Double fuse (208V, 240V, or 480V only; must specify voltage)
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### ACCESSORIES



DHS Reflector-mounted house shield



# WALL MOUNT HOOK ASSEMBLY

# WMHK

**SUBMITTAL:**

**JOB:** Tahoe Joe's Famous Steakhouse, Chesterfield, MO

**TYPE:**

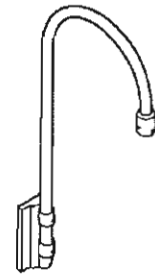
EXAMPLE:

**WMHK - S - DBR**

↓  
SERIES

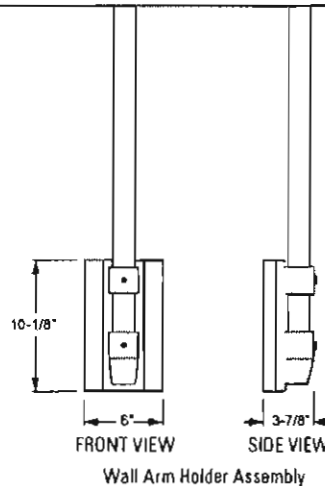
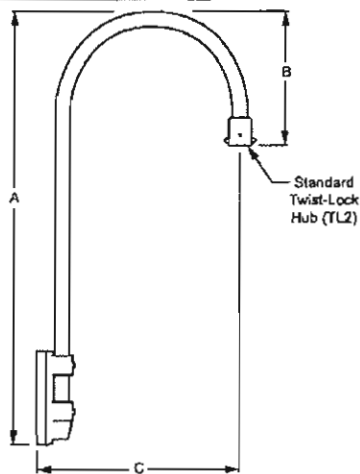
↓  
FIXTURE  
SIZE

↓  
FINISH  
OPTIONS



This assembly is proudly made in the USA

## SERIES



## WMHK SERIES

The WMHK arm is formed from a 1-1/4" schedule 40 aluminum pipe. Outer pipe diameter is 1-5/8"; inner diameter is 1-3/8". Cast aluminum wall arm holder assembly secures to 11-gauge galvanized steel mounting plate.

## FIXTURE SIZE (Must specify)

<b>S</b>	Maximum fixture diameter of 19"
<b>M</b>	Maximum fixture diameter of 24"
<b>L</b>	Maximum fixture diameter of 27"

## DIMENSIONS

	A	B	C	WEIGHT
<b>S</b>	46-1/4"	14-5/16"	17-3/4"	10 Lbs.
<b>M</b>	45-1/4"	13-5/16"	19-3/4"	10 Lbs.
<b>L</b>	44-1/4"	12-5/16"	21-3/4"	11 Lbs.

## FINISH OPTIONS (Must specify)

<b>BLK</b>	Black (RAL #9004)	<b>DBR</b>	Dark bronze (Protech #PC21462)
<b>GRAY</b>	Standard gray (Protech #PC18367)	<b>GRN</b>	Green (RAL #6005)
<b>SLV</b>	Satin aluminum (RAL #9006)	<b>WHT</b>	White (RAL #9003)
<b>RAL#</b>	Specify custom color		

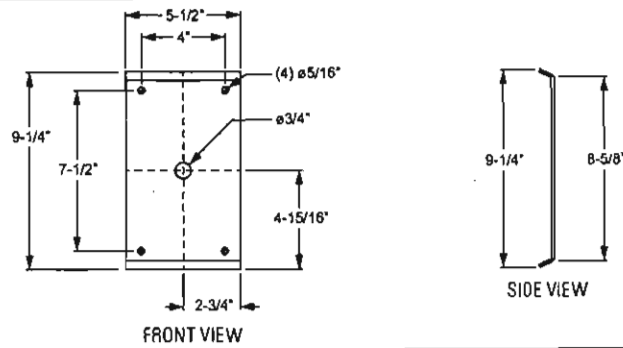
## FINISH OPTIONS

Super durable polyester powder coat meets and exceeds AAMA 2604 specifications for outdoor durability.

## WALL MOUNTING

11-gauge galvanized steel plate. Secured to wall with (4) 1/4-20 bolts (provided by others). Wall arm holder assembly is secured to back plate with (4) stainless steel set screws. See installation instructions for details.

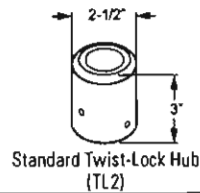
## BACK MOUNTING PLATE



## FIXTURE MOUNTING

The luminaire mounts using an exclusive twist-lock hub welded to the end of the arm with wire way. The 1/4-turn self-leveling TL2 hub provides for ease of field installation. The luminaire is secured using three stainless steel leveling set screws at 120° and one stainless steel socket-head-cap through-bolt acting as an anti-rotation and locking device.

## FIXTURE MOUNTING





# Califor neon™

*New Lighter Technology*

## Welcome to Califor neon!

Califor neon Lighting, also known as TapeLight, LightTape, Neon Tape, Lightstrip, and Flatlight. Califor neon lighting has been around since 1994 and we have been private labeling our products for companies in several different industries around the world. In 1999 Califor neon debuted their lighting to the entertainment industry, featured in the music video "She's a Bitch" by recording artist Missy Elliot. Shortly thereafter we were called upon again by the "Backstreet Boys" for their Millennium Tour! The rest is history...

Imagine a strip of light that you can cut to any length and it will still light. A strip of light that has the same beautiful clarity and vibrancy of neon and yet will not break. No need to imagine because tomorrow's technology is today's reality. We call it Califor neon. Many innovative products were developed from the billions of research dollars spent on the NASA space program. Califor neon is one of those products and is destined to revolutionize the lighting industry, as we know it.

## It is Electroluminescent ("EL") lighting.

When we think of lighting sources we think of fragile, rigid, breakable, bulky fixtures made of glass, containing gas. EL has none of these drawbacks. Can you imagine a lighting source thin as a business card? So flexible that you can wrap it around your finger? One that does not come out of a box, but rolled up in lengths up to five hundred feet. So sheer that you can cut it to the desired length with ordinary scissors. A light that comes in widths as small as .200" of an inch and as wide as 30 inches. It requires only one connection and one ballast, runs as long as 300 feet giving consistent, even brightness throughout the entire length. Imagine no more. It's here!

**A Robust Lighting System that lights better than neon!**  
It's flexible and can be cut to any length!

## FEATURES:

### AFFORDABLE BEAUTY & VISIBILITY

- Low installed cost with minimal maintenance requirements
- Low energy cost per visible light unity (foot lamberts)
- High contrast laser like light provides crisp visibility for miles, even in bad weather
- Many colors available, and several colors can be combined within one lamp run
- Lengths of hundreds of feet with consistent, even, light throughout

### EASY INSTALLATIONS & MAINTENANCE

- Systematized part and material selection for all applications
- Field modifiable, up to 500 feet between connections
- Only simple common installation tools are needed
- Narrow to wide sizes & large panels are available
- Think, flexible & compact; simple, robust & reliable

### SAFE & EFFICIENT

- Visible through smoke, haze, fog and bad weather (perfect for safety lighting)
- Unbreakable
- Water-resistant
- 99% energy conversion to light (No heat)
- Long continuous runs with no line loss

### USABLE IN ANY APPLICATION

- Suitable for interior or exterior uses...specify when ordering
- Can be used on vehicles and boats
- E.L. Drivers available for input voltages of 12 VDC, 24 VDC 110/240 VAC
- Excellent backlighting source for durotrans or transparencies

## APPLICATIONS

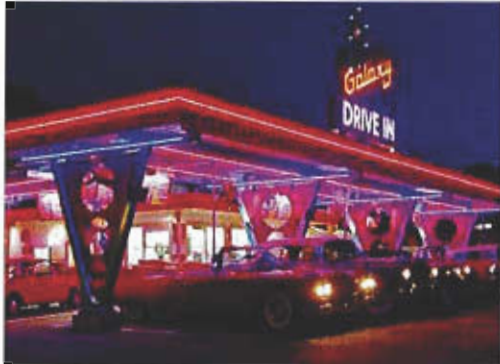
- Hotels
- Casinos
- Building exteriors
- Interior soffits
- Theatre stairs
- Aisle lighting
- Bridges
- Mines
- Restaurants
- Displays
- Signage
- Jetways
- Retail areas of malls
- Industrial
- Public vehicles for safety precautions
- Marinas
- Tunnels
- Railroad/Subway stations
- Elevators
- Hospitals
- Theme Parks



Cover Photo Painting by Jack De Sort at [jdesort@aol.com](mailto:jdesort@aol.com)



# Califor neon *A New Lighting Technology*



## LED Neon Replacement

**The Look of Neon Glass!  
The Advantage of LED!**

- No Breakage**
- No Maintenance**
- Very Low Voltage**
- Low Heat**
- Waterproof**
- Easy Installation**

## Flex Plus vs. Neon Glass Comparison Data

Parameter	LED Neon Replacement	Ø8 Glass Neon	LED Neon-Flex® Plus (Benefits) over Glass Neon
	Color: White Length: 3'	Color: White Length: 3'	
Light Source	LED	Neon Gas Fluorescents	LED is solid state semi conductor technology which offers great benefits in energy savings and environmental protection
Input Voltage	120V 230V	3KV-18KV	LED Neon-Flex® Plus has only normal AC Voltage Considerations and is safer
Lifetime(hrs)	up to 50,000	10,000	LED Neon-Flex® Plus lasts up to 5x's longer
Lumens Depreciation (rating)	LSO	Unknown	LED Neon-Flex® Plus Lumens Depreciation should not occur to at least 5x's longer than the normal life of Glass Neon
EMI (Electro Magnet Interference)	Low	High	LED Neon-Flex® Plus creates Insignificant EMI compared to Glass Neon
Luminous Efficacy (lm/W)	36.1	35	3% higher
lm/Foot	63lm/FT	59.15lm/FT	LED Neon-Flex® Plus lm/FT exceeds that of Glass Neon by as much as 6%
Environmental Considerations	No Mercury Pollution	Mercury Pollution	LED Neon-Flex® Plus is safe for the environment and the public as it contains no toxic materials like Mercury which is found in Glass Neon
Installation	Easy/Entry Skill Level	Difficult/Requires Master Craftmanship Skill Level	LED Neon-Flex® Plus is flexible, and is easy to cut, bend, and shape, unlike Glass Neon which requires a master craftsman level of experience to produce, shape, and install
Flexibility	flexible	Rigid	LED Neon-Flex® Plus is a flexible solution that requires no heating to bend or shape
Durability	Unbreakable	Breakable	LED Neon-Flex® Plus is made of high quality flame retardant PVC's, is flexible, unlike Glass which shatters easily

**Patented\* Process Using Only High Quality LEDs**

**Run 120-160 Feet on a Single 110 Outlet**

**Flexible PVC Housing-Safe to Use Anywhere**

**Energy Saving and Environmentally Safe!**

**"It's not Neon...it's better!"**

1040 Avenida Acaso, Camarillo, CA 93012 • Phone: (800) 336-6500 ext. 519 Fax: (805) 388-7950  
Email: info@califor neon.com Website: http://www.califor neon.com

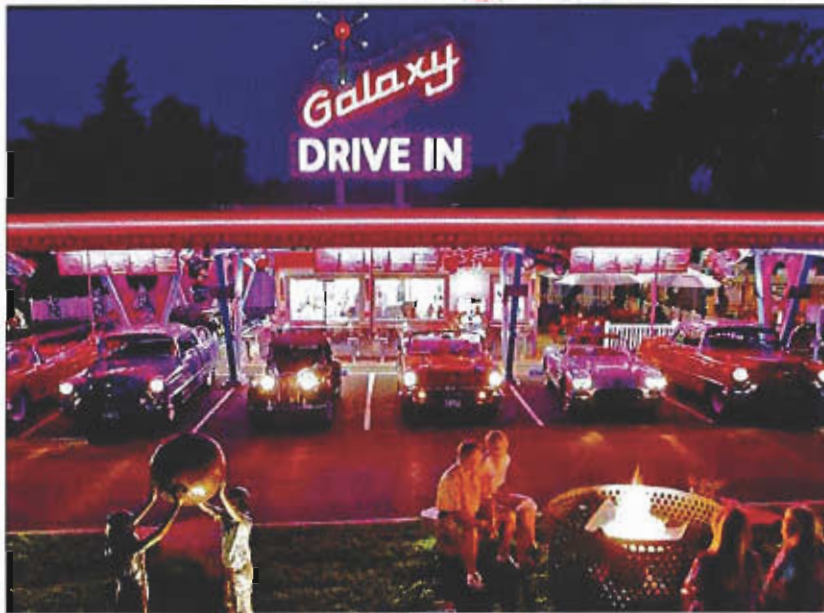


# Califor neon

*A New Lighting Technology*

## LED Neon Flex Plus

### The Look of Neon Glass! The Advantage of LED!



## Now there is a real alternative to Neon glass tube lighting!

LED Neon Flex Plus from Califor neon is the latest technology exceeding the Lumens performance, durability, safety, flexibility and energy efficiency of traditional Neon glass AND other similar LED lighting products!



UL Approved!

UL symbol stamp appears on every section!

*"It's not Neon...it's better!"*

1040 Avenida Acaso, Camarillo, CA 93012 • Phone: (800) 336-6500 ext. 519 Fax: (805) 388-7950  
Email: [info@californeon.com](mailto:info@californeon.com) Website: <http://www.californeon.com>

# Technology / Overview....

Californeon's base material is a UL48 component (File#175045). It is, in fact, a flexible light bulb, and like a light bulb, it must be installed in an appropriate fixture to meet most electrical and building codes.

Californeon is also susceptible to damage from moisture, UV exposure and repeated flexing or impact. While "exterior" grade "Californeon", has primary UV protection, and a robust laminate suitable for high humidity environments, it is not designed for direct exposure to weather, and is especially inappropriate for direct immersion applications.

Many designers also create custom fixtures to suit their desired lamp sizes and applications. Among the fixtures have been exterior pavers, glass bar tops, recessed shelf lighting and linear canopy extrusions. When in doubt, always install the lamp in an accessible manner.

Every lamp has a line directly down the center. This 10/1000 of an inch wide line separates the rear electrode into two areas of equal size and symmetry. The unique ability of our lamps is to operate with consistent luminance over great distances.

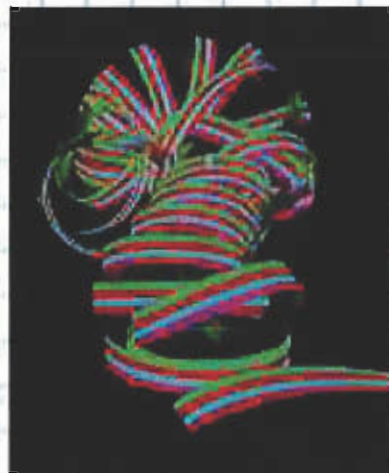
(up to 300') is due to this innovative split electrode technology. Another advantage of this rear electrode design is the convenience of being able to attach power leads anywhere on either side of the center line.

Lamps come in widths from 7/16" to 24" wide and in rolls up to 300' in length. These lamps are also available in standard sheet sizes.

Californeon is manufactured in 2 colors: Natural Blue (Aqua) and White. The white lamp has a color temperature of 5400 Kelvin, approximately. Standard colors offered for strip lamps ( up to 6" wide) are Fluorescent red, yellow, orange, green, pink and medium blue.

## Characteristics

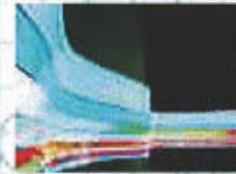
- Thin
- Flexible
- Lightweight
- No Heat
- Not effected by vibration
- Not prone to sudden failure
- Very low power consumption
- Continues to operate, even when punctured!



Rainbow E.L.



Exterior Lamination



Multiple lamps laminated as one

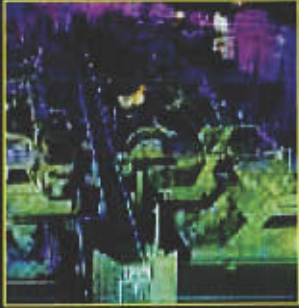
An electroluminescent lamp consists of three major components. A dielectric layer coated with light emitting phosphors is sandwiched between two conductive surfaces. EL lamps illuminate when energized with alternating current. As voltage is applied to the conductive surfaces, an electric field is generated across the phosphor/dielectric layer forcing electrons to glow. Typically our lamps operate between 280 to 300 volts at 650 to 1000 hertz.

Californeon Lamps, have an expected usable life of eight to ten thousand hours, if handled properly. The actual useful life of the lamp depends on the application which it is used.

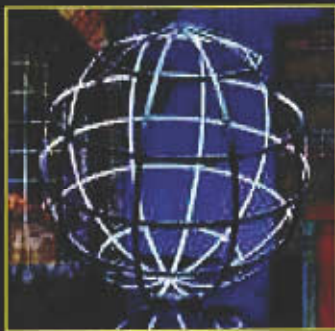
# Architecture....

## EL LIGHTING CAN BE USED FOR INTERIOR OR EXTERIOR

EL can be used for both interior and exterior applications. Interior applications can use EL to cover stairs and architectural elements. Exterior applications call attention to a design treatment and make your facility visible for miles



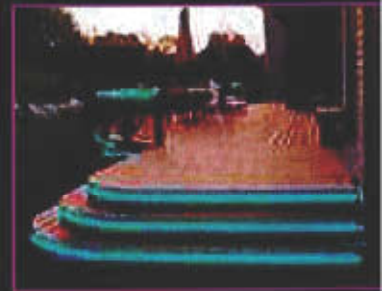
ILLUMINATED COUNTERS



STADIUMS



DANCE FLOORS



STEP LIGHTING





## CALIFORNEON STANDARD BALLASTS

Designed especially for large area flat lamps and long strips. Less power consumption. Takes up less space.

### Up to 75% Less Power Consumption

These new solid state advanced ballasts will outperform existing systems, drawing as little as 25% as much energy. For example, a Californeon Lighting System can be substituted to backlight a display area as large as 24" x 144" or any dimension up to 3,500 sq. in and the lamp and ballast will draw as little as 38 watts vs. 200 watts for conventional light boxes.

### Takes up less space

These units are manufactured using a premium grade Aluminum as their exterior case. This will provide COOLER operating conditions, yielding much longer life, than lower grade, less efficient stamped metal or plastic housings. This sophisticated design, takes up less space with its exterior mounting system, can be mounted anywhere. These EL Ballasts have overload and short circuit protection and manufactured to conform to Underwriters Laboratories, Inc. and CE.

**Compensating Ballast** - The compensating ballast automatically adjusts voltage to the lamp as it goes through a normal life-cycle. The compensating ballast helps get the longest possible life from your lamp.



- Automatic Lamp Life Compensation (up to 2.25x)
- Automatic Temperature Compensation
- Robust input filtering protects supply
- Perfect Sine Wave output (no harmonics, electronic noise)
- Adjustable output
- Pre-wired for outboard control options
- Rugged Aluminum Chassis with pre-drilled mounting flange
- Optional 12 or 24VDC input operation
- Proprietary safety circuit protects against faults to ground
- Short and Open circuit protection
- UL935 Listed

Model #	Power Usage	Lamp Range	Weight	Dimensions
ELBA 100	5 watts	100 sq. in.	6 oz.	5"x2"x2.5"
ELBA 600	25 watts	200-600 sq. in.	3 lbs.	3 1/4"x2 1/2"x2 3/8"
ELBA 2200	150 watts	600-2600 sq. in.	4 lbs.	4"x4"x14"
ELBA-75K	400 watts	3500-10,000 sq. in.	12 lbs.	19"x12"x1 1/2"

### Compensating inverters are available in 120/240

#### The smallest compensating inverter, ELBA-600

Input: 120/240 VAC  
 Max Current: 0.1 Amp  
 Lamp size: 200-600 inches  
 Size: 3.6" w x 2.5" h x 6.5" d  
 Weight: 1lb. 7oz.



#### The largest compensating inverter, ELBA-75K

Input: 120/240 VAC (Auto sensing)  
 Max Current: 625 watts  
 Lamp size: 86 Square feet  
 Size: 9.2" w x 4" h x 14" d  
 Weight: 14 pounds



### Power requirements:

When operating the lamp at 280VAC, use the following watts per sq. in. factor to calculate amperage:

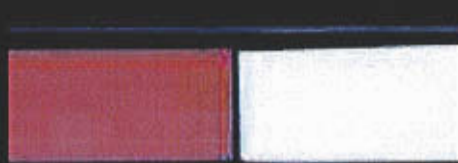
For Model 600 - 0.05 watts/ sq. in.  
 For Model 2200 - 0.05 watts/ sq. in.  
 For Model 75K - 0.05 watts/ sq. in.  
 For DC Inverters - 0.75 watts/ sq. in.

Operating the lamp at a lower brightness will reduce the power requirements

## CALIFORNEON STANDARD LAMP WIDTHS

7/16"	1/2"	1"	2"	4"	6"	12"
12mm	18mm	25.4mm	51mm	102mm	153mm	305mm

- Custom widths available up to 30" wide x 500" long on special order.
- Natural color of lamp is aqua, when lit.
- Custom colors available at additional cost: white, green, yellow, red, medium blue, florescent pink, green, yellow, orange/red.
- All lamps are overall dimensions.
- All prices are subject to change without any prior written notice.
- Flatlite Electroluminescent lamps, U.S. Patent No. 5,045,755. Copyright 2002 E-Lite Technologies, Inc.



**Off/On**  
**White Lamp**



**Standard Colors**



**Off/On**  
**Natural Blue Lamp**

## Competitive Comparison

Feature	1" Californeon	Neon	Fiberoptics	LEDStripe	Florescent
Operating Cost/Year 300**	\$88.70	\$1,576.85	\$689.85	\$495.75	\$1,642.50
Operating Cost/Day 300**	\$0.24	\$4.32	\$1.89	\$1.35	\$4.50
Power per Foot (watts)	0.54	9.6	4.2	3	10
Max Continuous Length (feet)	480	10	60	10	8
Max Length from a single ballast	1,040'	50'	60'	100'	16'
Field Cut to Length	Yes	No	Yes	Yes	No
Maintenance	None	High	Moderate	Low	Moderate
Damage Resistant	High	Low	Low	Low	High
Max. Distance Strip to Ballast	400'	25'	0'	12'	6'
Dimmable	Yes	No	Yes	Yes	No
Flexibility	Extremely	None	Moderate	None	None
Operating Voltage	200-280 VAC	3K - 25k VAC	n/a	24 VDC	110 VAC
Weather Resistant	Good	Fair	Excellent	Good	Fair
Cost / Linear Foot	\$10.00	\$16.00	\$25.00	?	\$6.00

Indicates Best in Class

