B
Type

Plans

BLD08-4757
Permit Number

300
Street Number

Via Archimedes
Street Name

GEY
Community Code

140-030-026
APN

COUNTY OF SONOMA - PERMIT AND RESOURCE MANAGEMENT DEPARTMENT

2550 Ventura Avenue, Santa Rosa, CA 95403 (707) 565-1900 FAX (707) 565-1103

Please Print Your Name: | Date Applied:

INFORMATION WITHIN HEAVY LINE TO BE COMPLETED BY APPLICANT

JOB ADDRESS: 300 VIA ARCHIMEDES GEY
PERMIT NUMBER: BLD08-4757
INSPECTION AREA: 8

SITE LOCATION INFORMATION - PRINT CLEARLY

Site Address: 300 VIA ARCHIMEDES City: GEYSERVILLE CA ZIP: 9
Cross-Street: INDEPENDENCE LN. APN: 140030026 Project Phone #: 707 857 1406 Project Fax #: 707 857 1408
Directions: 101 N. TO INDEPENDENCE, W/FWY. Subd. Name: Unit #: Lot #:
Describe Project: PUMP HOUSE 144 # Living Area / Garage / Decks: Contract Price: 15,000 -

OWNER NAME AND ADDRESS
Name: FRANCIS FORD COPPOLA PRESENTS
Mailing Address: 620 AIRPARK RD.
City: NAPA State: CA ZIP: 94558
Day Ph: 707 251.3257 Fax: ( )

APPLICANT NAME AND ADDRESS
Name: GRASSI & ASSOCIATES
Mailing Address: 1213 COOMBS ST
City: NAPA State: CA 94559
Day Ph: 707 / 255.3232 Fax: 707 255.1350

CONTRACTOR INFORMATION
Company Name: GRASSI & ASSOCIATES
Address: 1213 COOMBS ST
City: NAPA State: CA Zip: 94559
Day Ph: 707 2551323 707 2551350

OTHER PERSONS (ARCHITECT, ENGINEER, ETC.)
Name:
Address:
City: State: ZIP:
Day Ph: ( ) Fax: ( )
License No: Exp. Date:

WORKER'S COMPENSATION DECLARATION

I hereby affirm under penalty of perjury one of the following declarations:

☐ I have and will maintain a certificate of consent to self-insure for worker's compensation, as provided for by Section 3700 of the Labor Code, for the performance of the work for which this permit is issued.

☒ I have and will maintain worker's compensation insurance, as required by Section 3700 of the Labor Code, for the performance of the work for which this permit is issued. My worker's compensation insurance carrier and policy number are:

Carrier: STATE COMP.
Policy No.: 713000615?

(This section need not be completed if the permit is for one hundred dollars ($100) or less).

☐ I certify that in the performance of the work for which this permit is issued, I shall not employ any person in any manner so as to become subject to the worker's compensation laws of California, and agree that if I should become subject to the worker's compensation provisions of Section 3700 of the Labor Code, I shall forthwith comply with those provisions.

Exp. Date: 10/1/09 Applicant: [signature]

WARNING: FAILURE TO SECURE WORKER'S COMPENSATION COVERAGE IS UNLAWFUL, AND SHALL SUBJECT AN EMPLOYER TO CRIMINAL PENALTIES AND CIVIL FINES UP TO ONE HUNDRED THOUSAND DOLLARS ($100,000), IN ADDITION TO THE COST OF COMPENSATION, DAMAGES AS PROVIDED FOR IN SECTION 3706 OF THE LABOR CODE, INTEREST, AND ATTORNEY'S FEES.

CONSTRUCTION LENDING DECLARATION

I hereby affirm under penalty of perjury that there is a construction lending agency for the performance of the work for which this permit is issued. (Sec. 3097, Civ. C.).

Lenders Name: NA
Lenders Address:

FOR DEPARTMENT USE

Zoning: K File No.: PLP07-0019 Acres:
Existing Use/Structures: Winery/Restaurant
Proposed Use/Structures: pump house
Zoning Min. Yard Requirements: Front 20 Left 5 Right 5 Back 20
NOTE: Fire Safe Standards require all parcels greater than 1 Acre to have a min. 30' setback unless mitigated. ☐ Mitigation Required ☐ Address subject to change
Approval for Permit Issuance: By: Date:
Approval for Occupancy: By: [signature] Date: 11/5/08
Conditions:

Sewer Connection: ☐ Available ☐ Fees Paid
Approved by: Date:

Road Encroachment: ☐ Fees Paid
Approved by: Date:

Septic System Permit/Clearance #: SEP08-0336
Approved by: James A. Johnson Date: 11/5/08

Flood Zone: ☐ Yes ☒ No 100 Year Flood Elevation:
Site Review
Drainage Review: Approved by: Date:
Fire: Approved by: Date:

Code Enforcement Violation ☐ Yes ☒ No Violation #
This permit is limited to ______ days.

Work Authorized: pump house

OWNER-BUILDER DECLARATION

I hereby affirm under penalty of perjury that I am exempt from the Contractor's License Law for the following reason (Sec. 7031.5, Business and Professions Code: Any city or county which requires a permit to construct, alter, improve, demolish, or repair any structure, prior to its issuance, also requires the applicant for such permit to file a signed statement that he or she is licensed pursuant to the provisions of the Contractor's License Law (Chapter 9 (commencing with Section 7000) of Division 3 of the Business and Professions Code) or that he or she is exempt therefrom and the basis for the alleged exemption. Any violation of Section 7031.5 by any applicant for a permit subjects the applicant to a civil penalty of not more than five hundred dollars ($500).):

☐ I, as owner of the property, or my employees with wages as their sole compensation, will do the work, and the structure is not intended or offered for sale (Sec. 7044 Business and Professions Code: The Contractors License Law does not apply to an owner of property who builds or improves thereon, and who does such work himself or herself or through his or her own employees, provided that such improvements are not intended or offered for sale. If, however, the building or improvement is sold within one year of completion, the owner-builder will have the burden of proving that he or she did not build or improve for the purpose of sale.).

☐ I, as owner of the property, am exclusively contracting with licensed contractors to construct the project (Sec. 7044, Business and Professions Code: The Contractors License Law does not apply to an owner of property who builds or improves thereon, and who contracts for such projects with a contractor(s) licensed pursuant to the Contractors License Law.).

☐ I am exempt under Sec. ______, B & P.C. for this reason ______

Date ______ Owner ______

LICENSED CONTRACTOR'S DECLARATION

I hereby affirm under penalty of perjury that I am licensed under provisions of Chapter 9 (commencing with Section 7000) of Division 3 of the Business and Professions Code, and my license is in full force and effect.

Lic. Class: B-1 Lic. No.: 855199
Exp. Date: 3/09 Contractor: GRASSI & ASSOCIATES

ASBESTOS DECLARATION

Written asbestos notification pursuant to Part 61 of Title 40 of the Code of Federal Regulations is required when asbestos exists in buildings, or portions thereof, undergoing demolition. I hereby declare that demolition authorized by this permit is from construction that (☐ does) (☐ does not) contain asbestos, or that ☐ no demolition is authorized by this permit.

I certify that I have read this application and affirm under penalty of perjury that the above information is correct. I agree to comply with all local Ordinances and State laws relating to building construction. I hereby authorize representatives of the County of Sonoma to enter upon the above-mentioned property for inspection purposes. If, after making the Certificate of Exemption for the Worker's Compensation provision of the Labor Code I should become subject to such provisions, I will forthwith comply. In the event I do not comply with the Workman's Compensation law, this permit shall be deemed revoked.

[signature]
PERMITTEE SIGNATURE

1213 COOMBS ST NAPA 94559
ADDRESS CITY ZIP

☒ Contractor ☐ Owner ☐ Other Licensed Professional

☒ Plans Approved ☐ No Plans Subject to Field Inspection ☐ Post FIRM ☐ Pre FIRM ☐ Alquist Priolo Report Available ☐ Geotechnical report Available

Plancheck Cleared By	Date	Type of Construction	Occupancy	No. of Stories	No. of Bedrooms
Carl Smith	4-30-09	VB	U	1	Ø

Permit Cleared for Issuance By	Date	Auto. Fire Sprinklers Req'd	No of Units	Certificate of Occupancy
[signature]	5/1/09			

sennis f:/forms/cis/CIS-007.cdr Revised 4/8/2004

Machine Space for Permit Fee

PAYMENT REC'D $ [initials]
MAY 29 2009
PERMIT AND RESOURCE MANAGEMENT DEPARTMENT COUNTY OF SONOMA

Final Date: Inspector:

THIS PERMIT SHALL EXPIRE IN THREE(3) YEARS FROM DATE FEES ARE PAID UNLESS OTHERWISE NOTED BY CODE ENFORCEMENT

Distribution: White - File Canary - Applicant Pink - Audit Copy Blue - Assessor Cardstock - Inspector

131) SPECIAL INSPECTION REQUIRED	☐ YES	☒ NO	IF YES, SEE ADDITIONAL SHEET
INSPECTION RECORD	DATE	NAME	REMARKS
101) ROUGH GRADING			
103) FOUNDATION			
FORMS/SETBACK			
FOOTING			
WALLS			
106) UFER GROUND #			
104) CAISSONS/PIERS			
105) SLAB			
107) UNDERGROUND UTILITIES			
110) MASONRY			
109) RETAINING WALLS			
113) FIREPLACE			
FOOTING			
HEARTH/PROTECTION			
THROAT			
114) CHIMNEY			
120) UNDERFLOOR/UNDERSLAB			
115) HYDRONICS			
116) U/F ELECTRICAL			
117) U/F MECHANICAL			
118) U/F PLUMBING			
119) U/F FRAMING			
139) U/F INSULATION			
126) SHEAR WALLS			
☐ INTERIOR ☐ EXTERIOR			
127) DIAPHRAGMS			
☐ ROOF ☐ FLOOR			
134) SIDING/SHEATHING			
125) HOLD DOWNS			
132) CLOSE-IN			
122) ROUGH ELECTRICAL			
123) ROUGH MECHANICAL			
124) ROUGH PLUMBING			
128) ROUGH FRAME			
160) SMOKE DETECTORS			
139) INSULATION			
142) WALLBOARD			
143) FIREWALLS			
135) STUCCO/PLASTER			
☐ LATH ☐ SCRATCH			
137) ROOFING			
130) TUB/SHOWER PAN			
162) FIRE DAMPERS/DOORS			
164) SUSPENDED CEILING			
☐ ROUGH ELEC. ☐ ROUGH MECH.			
165) EXITING - RAMPS/STAIRS			
163) HANDRAILS/GUARDRAILS			
CORRIDORS/DOORS			
166) ACCESSIBILITY COMPLIANCE			
144) WATER TANKS			
☐ SLAB ☐ WALLS			
170) TEMPORARY OCCUPANCY			
171) TEMPORARY ELECTRICAL			
172) TEMPORARY GAS			
174) ELECTRIC METER AUTHORIZATION			
152) PANEL BOARDS/SERVICE			
189) SEPTIC ELECTRIC FINAL			
175) GAS METER AUTHORIZATION			
153) GAS PRESSURE TEST			
HOUSE YARD			
190) MANUF. HOME FOUNDATION			
191) MANUF. HOME INSTALLATION			
CONTINUITY			
STAIRS/SKIRTS			
RIDGE BOLTING			
193) MANUF. HOME COND. FINAL			
SWIMMING POOLS			
194) PRE-GUNITE			
195) PRE-DECK			
196) PRE-PLASTER/FENCE			
197) VINYL/FIBERGLASS POOL EXCAVATION			
102) GRADING FINAL			
176) ELECTRICAL FINAL			
177) MECHANICAL FINAL			
178) PLUMBING FINAL			
199) FINAL	12/13/10	Rob S.	
OCCUPANCY (OK TO OCCUPY)			

650) SUSMP INSPECTION		
651) NPDES EROSION COMPLIANCE		
652) NPDES SEDIMENT COMPLIANCE		
653) NPDES DOCS/SWPPP		
FIRE INSPECTION REQUIRED ☒ Yes ☐ No	DATE	NAME
759) KNOX BOX		
760) PROPANE TANK HOLD DOWNS		
770) SPRINKLER FINAL		
771) ABOVEGROUND HYDROSTATIC		
772) UNDERGROUND HYDROSTATIC		
773) UNDERGROUND FLUSH		
774) THRUST BLOCKS		
775) PIPE WELD		
776) HYDRANTS/APPLIANCES		
777) PUMP ACCEPTANCE		
778) WATER SUPPLY/TANK		
779) ALARM SYSTEM		
780) HOOD & DUCT SYSTEM		
781) ABOVEGROUND TANK/DISPENSER		
198) FIRE FINAL		

CLEARANCES:

FIRE ☐ Local ☐ County

HEALTH DEPARTMENT

ZONING

SANITATION

PLAN RETENTION REQUIRED? ☒ Yes ☐ No

PERMIT # BLD08-4757

sennis CIS-008.cdr Rev. 04/15/04

COUNTY OF SONOMA - PERMIT AND RESOURCE MANAGEMENT DEPARTMENT

2550 Ventura Avenue, Santa Rosa, CA 95403 (707) 565-1900 FAX (707) 565-1103

Please Print Your Name:

Date Applied:

JOB ADDRESS:

PERMIT NUMBER:

INSPECTION AREA:

INFORMATION WITHIN HEAVY LINE TO BE COMPLETED BY APPLICANT

SITE LOCATION INFORMATION - PRINT CLEARLY

Site Address:
City:
ZIP:
Cross-Street:
APN:
Project Phone #: ( )
Project Fax #: ( )
Directions:
Subd. Name
Unit #
Lot #
Describe Project:
Living Area
Garage
Decks
Contract Price:

OWNER NAME AND ADDRESS

Name:
Mailing Address:
City:
State:
ZIP:
Day Ph: ( )
Fax: ( )

APPLICANT NAME AND ADDRESS

Name:
Mailing Address:
City:
State:
ZIP:
Day Ph: ( )
Fax: ( )

CONTRACTOR INFORMATION

Company Name:
Address:
City:
State:
ZIP:
Day Ph: ( )
Fax: ( )

OTHER PERSONS (ARCHITECT, ENGINEER, ETC.)

Name:
Address:
City:
State:
ZIP:
Day Ph: ( )
Fax: ( )
License No:
Exp. Date:

WORKER'S COMPENSATION DECLARATION

I hereby affirm under penalty of perjury one of the following declarations:

☐ I have and will maintain a certificate of consent to self-insure for worker's compensation, as provided for by Section 3700 of the Labor Code, for the performance of the work for which this permit is issued.

☐ I have and will maintain worker's compensation insurance, as required by Section 3700 of the Labor Code, for the performance of the work for which this permit is issued. My worker's compensation insurance carrier and policy number are:

Carrier
Policy No.

(This section need not be completed if the permit is for one hundred dollars ($100) or less).

☐ I certify that in the performance of the work for which this permit is issued, I shall not employ any person in any manner so as to become subject to the worker's compensation laws of California, and agree that if I should become subject to the worker's compensation provisions of Section 3700 of the Labor Code, I shall forthwith comply with those provisions.

Exp. Date: Applicant:

WARNING: FAILURE TO SECURE WORKER'S COMPENSATION COVERAGE IS UNLAWFUL AND SHALL SUBJECT AN EMPLOYER TO CRIMINAL PENALTIES AND CIVIL FINES UP TO ONE HUNDRED THOUSAND DOLLARS ($100,000). IN ADDITION TO THE COST OF COMPENSATION, DAMAGES AS PROVIDED FOR IN SECTION 3706 OF THE LABOR CODE, INTEREST, AND ATTORNEY'S FEES

CONSTRUCTION LENDING DECLARATION

I hereby affirm under penalty of perjury that there is a construction lending agency for the performance of the work for which this permit is issued. (Sec. 3097, Civ. C.).

Lenders Name
Lenders Address

FOR DEPARTMENT USE

Zoning File No. Acres
Existing Use/Structures
Proposed Use/Structures
Zoning Min. Yard Requirements: Front Left Right Back
NOTE: Fire Safe Standards require all parcels greater than 1 Acre to have a min. 30' setback unless mitigated. ☐ Mitigation Required ☐ Address subject to change

Approval for Permit Issuance: By: Date:
Approval for Occupancy: By: Date:
Conditions:

Sewer Connection: ☐ Available ☐ Fees Paid
Approved by: Date:

Road Encroachment: ☐ Fees Paid
Approved by: Date:

Septic System Permit/Clearance #
Approved by: Date:

Flood Zone: ☐ Yes ☐ No 100 Year Flood Elevation:
Site Review
Drainage Review:
Approved by: Date:

Fire:
Approved by: Date:

Code Enforcement Violation ☐ Yes ☐ No Violation #
This permit is limited to ________ days.

Work Authorized:

OWNER-BUILDER DECLARATION

I hereby affirm under penalty of perjury that I am exempt from the Contractor's License Law for the following reason (Sec. 7031.5, Business and Professions Code: Any city or county which requires a permit to construct, alter, improve, demolish, or repair any structure, prior to its issuance, also requires the applicant for such permit to file a signed statement that he or she is licensed pursuant to the provisions of the Contractor's License Law (Chapter 9 (commencing with Section 7000) of Division 3 of the Business and Professions Code) or that he or she is exempt therefrom and the basis for the alleged exemption. Any violation of Section 7031.5 by any applicant for a permit subjects the applicant to a civil penalty of not more than five hundred dollars ($500).):

☐ I, as owner of the property, or my employees with wages as their sole compensation, will do the work, and the structure is not intended or offered for sale (Sec. 7044 Business and Professions Code: The Contractors License Law does not apply to an owner of property who builds or improves thereon, and who does such work himself or herself or through his or her own employees, provided that such improvements are not intended or offered for sale. If, however, the building or improvement is sold within one year of completion, the owner-builder will have the burden of proving that he or she did not build or improve for the purpose of sale.).

☐ I, as owner of the property, am exclusively contracting with licensed contractors to construct the project (Sec. 7044, Business and Professions Code: The Contractors License Law does not apply to an owner of property who builds or improves thereon, and who contracts for such projects with a contractor(s) licensed pursuant to the Contractors License Law.).

☐ I am exempt under Sec.________, B & P.C. for this reason

Date Owner

LICENSED CONTRACTOR'S DECLARATION

I hereby affirm under penalty of perjury that I am licensed under provisions of Chapter 9 (commencing with Section 7000) of Division 3 of the Business and Professions Code, and my license is in full force and effect.

Lic. Class Lic. No.
Exp. Date Contractor

ASBESTOS DECLARATION

Written asbestos notification pursuant to Part 61 of Title 40 of the Code of Federal Regulations is required when asbestos exists in buildings, or portions thereof, undergoing demolition. I hereby declare that demolition authorized by this permit is from construction that (☐ does) (☐ does not) contain asbestos, or that ☐ no demolition is authorized by this permit.

I certify that I have read this application and affirm under penalty of perjury that the above information is correct. I agree to comply with all local Ordinances and State laws relating to building construction. I hereby authorize representatives of the County of Sonoma to enter upon the above-mentioned property for inspection purposes. If, after making the Certificate of Exemption for the Worker's Compensation provision of the Labor Code I should become subject to such provisions, I will forthwith comply. In the event I do not comply with the Workman's Compensation law, this permit shall be deemed revoked.

PERMITTEE SIGNATURE

ADDRESS CITY ZIP

☐ Contractor ☐ Owner ☐ Other Licensed Professional

☐ Plans Approved
☐ No Plans Subject to Field Inspection
☐ Post FIRM
☐ Pre FIRM
☐ Alquist Priolo Report Available
☐ Geotechnical report Available

Plancheck Cleared By	Date:	Type of Construction	Occupancy	No. of Stories	No. of Bedrooms
	4-3-03	VB	U		
Permit Cleared for Issuance By	Date:	Auto. Fire Sprinklers Req'd	No of Units	Certificate of Occupancy	

Machine Space for Permit Fee

Final Date: Inspector:

THIS PERMIT SHALL EXPIRE IN THREE(3) YEARS FROM DATE FEES ARE PAID UNLESS OTHERWISE NOTED BY CODE ENFORCEMENT

Distribution: White - File Canary - Applicant Pink - Audit Copy Blue - Assessor Cardstock - Inspector

CIS-C07 cdr Revised 4/12/2004

COUNTY OF SONOMA
DEPARTMENT OF EMERGENCY SERVICES

FIRE SERVICES o EMERGENCY MANAGEMENT o HAZARDOUS MATERIALS

VERNON A. LOSH II, DIRECTOR

FOR THE
GEYSERVILLE FIRE PROTECTION DISTRICT

THESE ATTACHMENTS ARE PART OF THE APPROVED PLANS.
* DO NOT REMOVE THEM *

APR 3 0 2009

PERMIT AND RESOURCE MANAGEMENT DEPARTMENT BUILDING PLAN CHECK

PERMIT #_____

TO: Permit and Resource Management Department (Building Department)

FROM: Jerry Faddis, Fire Protection Plans Examiner c/o PRMD 2550 Ventura Ave. Santa Rosa 95403 (707) 565-2410 or JFADDIS@SONOMA-COUNTY.ORG

DATE: Nov. 13, 2008

SUBJECT: BLD08- 4756
Address: 300 Via Archimedes
Applicant: Grassi & Assoc.
Scope: Landscaping and trellises

The Department of Emergency Services (DES) Plan check fee for this permit is $246.00 and the field inspection fee is $246.00. These fees will be collected when the permit is issued by the Sonoma County Permit and Resources Management Department.

This proposal is in reasonable compliance with the Uniform Fire Code and Fire Safe Standards as adopted by the County of Sonoma and **approved** with the following conditions:

Inspections Prior to final approval, all Fire Safe Standards and/or Uniform Fire Code conditions must be verified by field inspection by a member of the **Sonoma County Department of Emergency Services**. There shall be inspections of the following portions of this project:

1) Fire Final (198)

Your job has been billed for __2_ hour(s) of field inspection. If more time is needed to inspect this project, you will be billed at a rate of $123.00/hr., one-hour minimum. Automated inspection requests shall be made at least 24 hours in advance by calling the Permit and Resource Management Department at (707) 565-3551.

Site Shelf

COUNTY OF SONOMA
DEPARTMENT OF EMERGENCY SERVICES

FIRE SERVICES o EMERGENCY MANAGEMENT o HAZARDOUS MATERIALS

VERNON A. LOSH II, DIRECTOR

FOR THE
GEYSERVILLE FIRE PROTECTION DISTRICT

TO: Permit and Resource Management Department
(Building Department)

FROM: Jerry Faddis, Fire Protection Plans Examiner
c/o PRMD 2550 Ventura Ave. Santa Rosa 95403
(707) 565-2410 or JFADDIS@SONOMA-COUNTY.ORG

DATE: Nov. 13, 2008

SUBJECT: BLD08- 4757
Address: 300 Via Archimedes
Applicant: Grassi & Assoc.
Scope: Pump House

The Department of Emergency Services (DES) Plan check fee for this permit is $246.00 and the field inspection fee is $246.00. These fees will be collected when the permit is issued by the Sonoma County Permit and Resources Management Department.

This proposal is in reasonable compliance with the Uniform Fire Code and Fire Safe Standards as adopted by the County of Sonoma and **approved** with the following conditions:

Submit a hazardous materials inventory to the So. Co. Hazardous Materials Division for any such storage in the pump house.

Inspections Prior to final approval, all Fire Safe Standards and/or Uniform Fire Code conditions must be verified by field inspection by a member of the **Sonoma County Department of Emergency Services.** There shall be inspections of the following portions of this project:

1) Fire Final (198)

Your job has been billed for __2_ hour(s) of field inspection. If more time is needed to inspect this project, you will be billed at a rate of $123.00/hr., one-hour minimum. Automated inspection requests shall be made at least 24 hours in advance by calling the Permit and Resource Management Department at (707) 565-3551.

2300 County Center Drive, Suite 221A, Santa Rosa, CA 95403 o phone (707) 565-1152 o fax (707) 565-1172

CERTIFICATE OF COMPLIANCE (Part 1 of 2) OLTG-1-C

PROJECT NAME: ROSSO AND BIANCO WINERY PHASE 2D	DATE: APR. 24, 2009
PROJECT ADDRESS: 300 VIA ARCHIMEDEES, GEYSERVILLE, CA 95441	Building Permit
PRINCIPAL DESIGNER - LIGHTING: SUMMIT ENGINEERING INC. / TELEPHONE: 707-527-0775	
DOCUMENTATION AUTHOR: SUMMIT ENGINEERING INC. / TELEPHONE: 707-527-0775	Checked by/Date Enforcement Agency Use

GENERAL INFORMATION

DATE OF PLANS	APR. 24, 2009	OUTDOOR LIGHTING ZONE (x one)		LZ1	X	LZ2		LZ3		LZ4	
FUNCTION TYPE	X	OUTDOOR LIGHTING		OUTDOOR SIGNS				INDOOR SIGNS			
PHASE OF CONSTRUCTION		NEW CONSTRUCTION	X	ADDITION	X	ALTERATIONS					

STATEMENT OF COMPLIANCE

This Certificate of Compliance lists outdoor lighting system specifications needed to comply with Title 24, Parts 1 and 6 of the California Code of Regulations. This certificate applies only to building lighting requirements.

The documentation preparer hereby certifies that the documentation is accurate and complete.

DOCUMENTATION AUTHOR	SIGNATURE	DATE
TERRY SZALAI, P.E.		APR. 24, 2009

The Principal lighting designer hereby certifies that the proposed outdoor lighting and signs represented in this set of construction documents is consistent with the other compliance forms and worksheets, with the specifications, and with any other calculations submitted with this permit application. The proposed building has been designed to meet the lighting requirements contained in the applicable parts of Sections 110, 119, 130 through 132, 146, and 149 of Title 24, Part 6. Please (x) one:

- [X] I hereby affirm that I am eligible under the provisions of Division 3 of the Business and Professions Code to sign this document as the person responsible for its preparation; and that I am licensed in the State of California as a civil engineer or electrical engineer, or I am a licensed architect.
- [ ] I affirm that I am eligible under the provisions of Division 3 of the Business and Professions Code by Section 5537.2 or 6737.3 to sign this document as the person responsible for its preparation; and that I am a licensed contractor performing this work.
- [ ] I affirm that I am eligible under Division 3 of the Business and Professions Code to sign this document because it pertains to a structure or type of work described as exempt pursuant to Business and Professions Code Sections 5537, 5538 and 6737.1.

(These sections of the Business and Professions Code are printed in full in the Nonresidential Manual.)

PRINCIPAL LIGHTING DESIGNER - NAME	SIGNATURE	DATE	LIC.#
TERRY SZALAI, P.E.		APR. 24, 2009	CA E15547 EXP 9/09

INSTRUCTIONS TO APPLICANT OUTDOOR LIGHTING COMPLIANCE & WORKSHEETS (x box if worksheet is included)

For detailed instructions on the use of this and all Energy Efficiency Standards compliance forms, please refer to the Nonresidential Manual published by the California Energy Commission.

LIGHTING COMPLIANCE FORMS AND WORKSHEETS (check box if worksheet is included)

X	OLTG-1-C	Certificate of Compliance. Required on plans for all submittals for outdoor lighting. Part 2 of 2 may be incorporated in schedules on the plans.
		Either LTG-1-C or OLTG-1-C may be used for signs as follows:
		1. Use LTG-1-C if the project consists solely of indoor signs.
		2. Use LTG-1-C if the project consists of indoor lighting and outdoor or indoor signs, but no other outdoor lighting.
		3. Use OLTG-1-C if the project consists solely of outdoor signs.
		4. Use OLTG-1-C if the project consists of outdoor lighting and indoor or outdoor signs, but no other indoor lighting.
X	OLTG-2-C	LIGHTING COMPLIANCE SUMMARY. Applicable Parts required for ALL outdoor lighting allowances (Except for Signs).
X	OLTG-3-C	AREA CALCULATIONS WORKSHEETS. Applicable parts required for all outdoor area calculations.
	OLTG-4-C	SIGN LIGHTING COMPLIANCE. Required for all internally and externally illuminated signs, for both indoor and outdoor signs.

CERTIFICATE OF COMPLIANCE (Part 2 of 2) OLTG-1-C

PROJECT NAME: ROSSO AND BIANCO WINERY PHASE 2D

DATE: APR. 24, 2009

Lighting Schedules on Plans Show that Outdoor Lighting Meets Allowed Lighting Power

X

- [X] Lighting power allowances for general site illumination on OLTG-2-C Part 1 of 4
  - [ ] Not Applicable
- [ ] Lighting power allowances for local ordinances or for security multipliers on OLTG-2-C Part 2 of 4
  - [X] Not Applicable
- [ ] Lighting power allowances for specific applications, other than vehicle service stations with canopies on OLTG-2-C Part 3 of 4
  - [X] Not Applicable
- [ ] Lighting power allowances for vehicle service station canopies on OLTG-2-C Part 4 of 4
  - [X] Not Applicable
- [ ] Sign lighting compliance on OLTG-4-C
  - [X] Not Applicable

Mandatory Measures on Plans Show that Outdoor Lighting Meets Outdoor Lighting Controls and Equipment

Indicate location on plans of Note Block for Mandatory Measures

X

- [X] Installed lighting power has been determined in accordance with Section 130©1
  - [ ] Not Applicable
- [ ] All permanently installed luminaires with lamps rated over 100 watts either have a lamp efficacy of at least 60 lumens per watt or are controlled by a motion sensor - Section 132(a)
  - [X] Not Applicable
- [ ] All Luminaires with lamps rated greater than 175 watts in hardscape areas, including parking lots, building entrances, canopies, and all outdoor sales areas meet the Cutoff Requirements of Section 132(b)
  - [X] Not Applicable
- [X] All permanently installed outdoor lighting meets the Control Requirements of Section 132(c)1
  - [ ] Not Applicable
- [X] Building facades, parking lots, garages, canopies, and outdoor sales areas meet the Multi-Level Lighting Requirements of Section 132(c)2
  - [ ] Not Applicable

MANDATORY AUTOMATIC CONTROLS

CONTROL LOCATION	CONTROL IDENTIFICATION	CONTROL TYPE Auto Time Switch/Photosensor, etc	AREA CONTROLLED	NOTE TO FIELD
LCP-B	LCP	LOW-VOLTAGE LIGHTING CONTROL	EXTERIOR LIGHTS	

LIGHTING COMPLIANCE SUMMARY (Part 1 of 4) OLTG-2-C

PROJECT NAME: ROSSO AND BIANCO WINERY PHASE 2D

DATE: APR. 24, 2009

LIGHTING POWER ALLOWANCES - GENERAL SITE ILLUMINATION - (Table 147-A)

	ALLOTTED WATTS			LUMINAIRE			LAMPS/BALLASTS				INSTALLED WATTS			
A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
Lighting Applications Category (Table 147-A)	Area (SFT) or Length (LF)	Allotted LPD W/SFT or W/LF	Allotted Watts (B x C)	Code for Luminaire Type	Description	Cutoff Designation	Lamp Type	# of lamps per Luminaire	Watts per Lamp	# of ballasts per Luminaire	Watts per Luminaire	x if CEC Default	# of luminaires	Installed Watts (L x N)
HARDSCAPE 1	7036	0.09	633.2	SC	STEP LIGHT	CUT-OFF	CFL	1	13	1	17	x	2	34
				SE	PENDANT		MR16	1	20		20	x	8	160
				SA1	POLE LIGHT	CUT-OFF	MH	1	50	1	68	x	4	272
HARDSCAPE 2	4007	0.09	360.6	SA1	POLE LIGHT	CUT-OFF	MH	1	50	1	68	x	2	136
HARDSCAPE 3	3791	0.09	341.2	SE	PENDANT		MR16	1	20		20	x	16	320
HARDSCAPE 4	746	0.09	67.14	SC	STEP LIGHT	CUT-OFF	CFL	1	13	1	17	x	1	17
				SJ	WALL MOUNTED		CFL	1	13	1	17	x	3	51
		Total Allotted Watts	1402										Total Installed Watts	990

ILLUMINATED AREA CALCULATION WORKSHEET (Part 1 of 5) OLTG-3-C

PROJECT NAME	DATE
ROSSO AND BIANCO WINERY PHASE 2D	APR. 24, 2009

Hardscape - Method (i)

A. Hardscape for automotive vehicular use, including parking lots, driveways and site roads

A	B	C	D	E	F	G	H
		Areas (SFT) to Subtract from within Illuminated Area					
Lift Specific Application (Table 147-A)	Actual Paved Area plus 5' perimeter of adjacent unpaved land. Includes planters and landscaped areas less than 10' wide that are enclosed by hardscape on at least 3 sides	Areas between poles or luminaires that are greater than 6 mounting height distance (if applicable)	Overlapping Areas of Another Application or Luminaire	Building Areas	Areas Obstructed By Sign or Other Structure	Sub Total of areas to Subtract (C + D + E + F)	Illuminated Area (B - G)

B. Hardscape for pedestrian use including plazas, sidewalks, walkways and bikeways

A	B	C	D	E	F	G	H
		Areas (SFT) to Subtract from within Illuminated Area					
Lift Specific Application (Table 147-A)	Actual Paved Area plus 5' perimeter of adjacent unpaved land. Includes planters and landscaped areas less than 10' wide that are enclosed by hardscape on at least 3 sides	Areas between poles or luminaires that are greater than 6 mounting height distance (if applicable)	Overlapping Areas of Another Application or Luminaire	Building Areas	Areas Obstructed By Sign or Other Structure	Sub Total of areas to Subtract (C + D + E + F)	Illuminated Area (B - G)
HARDSCAPE 1	7036	0	0	0	0	0	**7036**
HARDSCAPE 2	4007	0	0	0	0	0	**4007**
HARDSCAPE 3	3791	0	0	0	0	0	**3791**
HARDSCAPE 4	746	0	0	0	0	0	**746**

Checklist

x Sec 147(c) 1 B - Each portion of all illuminated areas has been assigned only one lighting application, and the applications are consistent with the actual use of the areas.

x Sec 147(c) 1 A - General illumination areas includes only those illuminated areas that are in the bounds of the Application and are within a square pattern around a luminaire that is six times the luminaire mounting height, with the luminaire in the middle of the pattern, less any areas that are within buildings, under canopies, beyond property lines, or obstructed by signs or other structures.

MANDATORY MEASURES - OUTDOOR LIGHTING OLTG-M

PROJECT NAME	DATE
ROSSO AND BIANCO WINERY PHASE 2D	APR. 24, 2009

[X] **Installed Lighting Power**
Installed lighting power has been determined in accordance with Section 130(c)1.

[ ] **Controls for Inefficient Lighting Systems**
All outdoor luminaires with lamps rated over 100 watts must either:
[ ] have a lamp efficacy of at least 60 lumens per watt.
or
[ ] be controlled by a motion sensor (Section 132(a)).

[ ] **Outdoor Luminaire Cutoff**
Outdoor luminaires that use lamps rated greater than 175 watts (Section 132(b)) in the hardscape areas, parking lots, building entrances, canopies and all outdoor sales areas will be required to be designated cutoff in a photometric test report that includes any tilt or other non-level mounting conditions.

[X] **Controls to turn off the lights during the day**
All permanently installed outdoor lighting must be controlled by a photoelectric switch or astronomical time switch that automatically turns off the outdoor lighting when daylight is available (Section 132 (c)1).

[X] **Controls to provide the option to turn off a portion of the lights**
For lighting of building facades, parking lots, garages, sales and nonsales canopies, and all outdoor sales areas, automatic controls are required to provide the owner with the ability to turn off the lighting or to reduce the lighting power by at least 50% but not exceeding 80% when the lighting is not needed (Section 132(c)2).

STRUCTURAL CALCULATIONS

for

ROSSO & BIANCO WINERY
PHASE 2D

PUMP HOUSE/ LANDSCAPE

300 VIA ARCHIMEDES
GEYSERVILLE, CA

Project No.: 2007031

Issued: October 20, 2008
Re-Issue April 24, 2009

THESE ATTACHMENTS ARE PART OF THE APPROVED PLANS.
* DO NOT REMOVE THEM *

APR 30 2009

PERMIT AND RESOURCE MANAGEMENT DEPARTMENT
BUILDING PLAN CHECK

PERMIT #_____

REGISTERED PROFESSIONAL ENGINEER
DAVID J. WILCOX
4-24-09
C 69925
Exp 9/30/10
CIVIL
STATE OF CALIFORNIA

Prepared by:

SUMMIT

SUMMIT ENGINEERING, INC.
Consulting Civil Engineers
463 Aviation Boulevard, Suite 200
Santa Rosa, CA 95403
(707) 527-0775

Table of Contents

DESIGN CRITERIA

Building Code = 2007 California Building Code

Soil Condition

Dead Load + Live Load = 2500 psf

Total Include Wind and Seismic = 3500 psf

Materials

Rough Lumber = Western Cedar No 1 & BTR (6X or 8X Timber Lumber)
Western Cedar No 2 & BTR (3X Dimension Lumber)

Concrete = 3000 psi @ 28 days

Column Steel = ASTM A500 Grade B (F_y = 46 ksi)

Misc Steel = ASTM A36 (F_y = 36 ksi)

PUMP HOUSE PAD

General Footing Design

File: C:\Documents and Settings\David\My Documents\ENERCALC Data Files\vanch-trellis.ec6
ENERCALC, INC. 1983-2008, Ver: 6.0.19

Lic. # : KW-06000145 License Owner : SUMMIT ENGINEERING, INC

Description : Pad @ Pump house for Mechanical Equip

General Information

Calculations per IBC 2006, CBC 2007, ACI 318-05

Material Properties

f'c : Concrete 28 day strength	=	3.0 ksi
Fy : Rebar Yield	=	60.0 ksi
Ec : Concrete Elastic Modulus	=	3,122.0 ksi
Concrete Density	=	145.0 pcf
Φ Values Flexure	=	0.90
Shear	=	0.850

Analysis Settings

Min Steel % Bending Reinf.	=	.00140
Min Allow % Temp Reinf.	=	.00180
Min. Overturning Safety Factor	=	1.50 : 1
Min. Overturning Safety Factor	=	1.50 : 1
AutoCalc Footing Weight as DL	:	No
AutoCalc Pedestal Weight as DL	:	No

Soil Design Values

Allowable Soil Bearing	=	2,500.0 ksf
Increase Bearing By Footing Weight	=	No
Soil Passive Resistance (for Sliding)	=	350.0 pcf
Soil/Concrete Friction Coeff.	=	0.30

Increases based on footing Depth

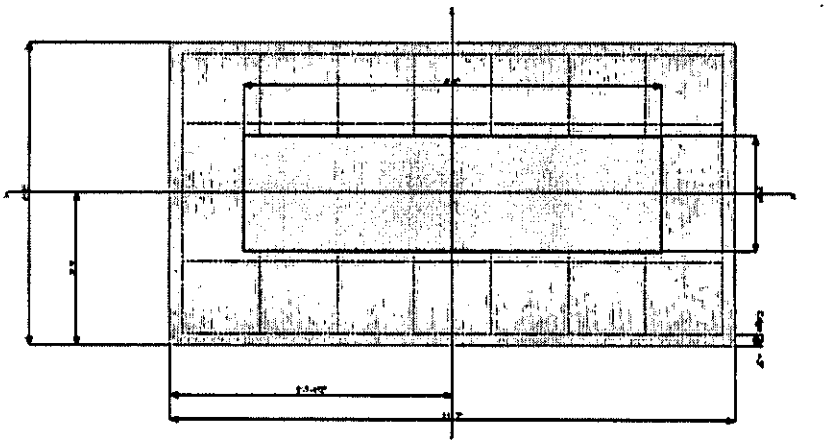
Reference Depth below Surface	=	ft
Allow. Pressure Increase per foot of depth	=	ksf
when base footing is below	=	ft

Increases based on footing Width

Allow. Pressure Increase per foot of width	=	ksf
when footing is wider than	=	ft

Dimensions

Width along X-X Axis	=	11.250 ft
Length along Z-Z Axi	=	6.50 ft
Footing Thickness	=	6.0 in
Load location offset from footing center...		
ex : Along X-X Axis	=	in
ez : Along Z-Z Axis	=	in
Pedestal dimensions...		
px : Along X-X Axis	=	100.0 in
pz : Along Z-Z Axis	=	30.0 in
Height	=	0.50 in
Rebar Centerline to Edge of Concrete..		
at Top of footing	=	3.0 in
at Bottom of footing	=	3.0 in



Reinforcing

Bars along X-X Axis		
Number of Bars	=	5.0
Reinforcing Bar Size	=	# 4.0
Bars along Z-Z Axis		
Number of Bars	=	8.0
Reinforcing Bar Size	=	# 4

Bandwidth Distribution Check (ACI 15.4.4.2)

Direction Requiring Closer Spacing Z-Z Axis

# Bars required within zone	=	73.2 %
# Bars required on each side of zone	=	26.8 %

LANDSCAPE

Seat Wall

Retain Pro 2007, 16-Apr-2008, (c) 1989-2008
www.retainpro.com/support for latest release
Registration # : RP-1176025 2007013

Cantilevered Retaining Wall Design — **Code: IBC 2006**

Criteria

Retained Height	=	3.00 ft
Wall height above soil	=	0.00 ft
Slope Behind Wall	=	0.00 : 1
Height of Soil over Toe	=	0.00 in
Water height over heel	=	0.0 ft
Wind on Stem	=	0.0 psf

Vertical component of active lateral soil pressure options:
USED for Soil Pressure.
NOT USED for Sliding Resistance.
USED for Overturning Resistance.

Soil Data

Allow Soil Bearing	=	2,500.0 psf
Equivalent Fluid Pressure Method		
Heel Active Pressure	=	35.0 psf/ft
Toe Active Pressure	=	35.0 psf/ft
Passive Pressure	=	350.0 psf/ft
Soil Density, Heel	=	110.00 pcf
Soil Density, Toe		0.00 pcf
Footing||Soil Friction	=	0.300
Soil height to ignore for passive pressure	=	0.00 in

Footing Dimensions & Strengths

Toe Width	=	0.50 ft
Heel Width	=	1.50
Total Footing Width	=	2.00
Footing Thickness	=	12.00 in
Key Width	=	0.00 in
Key Depth	=	0.00 in
Key Distance from Toe	=	0.00 ft

f'c = 2,500 psi Fy = 40,000 psi
Footing Concrete Density = 150.00 pcf
Min. As % = 0.0018
Cover @ Top = 2.00 in @ Btm.= 3.00 in

Surcharge Loads

Surcharge Over Heel	=	0.0 psf
Used To Resist Sliding & Overturning		
Surcharge Over Toe	=	0.0 psf
Used for Sliding & Overturning		

Lateral Load Applied to Stem

Lateral Load	=	0.0 #/ft
...Height to Top	=	0.00 ft
...Height to Bottom	=	0.00 ft

Adjacent Footing Load

Adjacent Footing Load	=	0.0 lbs
Footing Width	=	0.00 ft
Eccentricity	=	0.00 in
Wall to Ftg CL Dist	=	0.00 ft
Footing Type		Line Load
Base Above/Below Soil at Back of Wall	=	0.0 ft
Poisson's Ratio	=	0.300

Axial Load Applied to Stem

Axial Dead Load	=	0.0 lbs
Axial Live Load	=	0.0 lbs
Axial Load Eccentricity	=	0.0 in

*Design Summary

Wall Stability Ratios

Overturning	=	2.79 OK
Sliding	=	1.52 OK
Total Bearing Load	=	825 lbs
...resultant ecc.	=	2.41 in
Soil Pressure @ Toe	=	661 psf OK
Soil Pressure @ Heel	=	164 psf OK
Allowable	=	2,500 psf
Soil Pressure Less Than Allowable		
ACI Factored @ Toe	=	718 psf
ACI Factored @ Heel	=	178 psf
Footing Shear @ Toe	=	2.3 psi OK
Footing Shear @ Heel	=	2.3 psi OK
Allowable	=	75.0 psi

Sliding Calcs (Vertical Component NOT Used)

Lateral Sliding Force	=	262.5 lbs
less 100% Passive Force	= -	175.0 lbs
less 100% Friction Force	= -	224.1 lbs
Added Force Req'd	=	0.0 lbs OK
....for 1.5 : 1 Stability	=	0.0 lbs OK

Load Factors

Building Code	IBC 2006
Dead Load	1.200
Live Load	1.200
Earth, H	1.600
Wind, W	1.600
Seismic, E	1.600

Stem Construction — Top Stem

		Stem OK
Design Height Above Ftg	ft =	0.00
Wall Material Above "Ht"	=	Masonry
Thickness	=	12.00
Rebar Size	=	# 4
Rebar Spacing	=	16.00
Rebar Placed at	=	Center
Design Data		
fb/FB + fa/Fa	=	0.161
Total Force @ Section	lbs =	157.5
Moment....Actual	ft-# =	157.5
Moment....Allowable	=	979.9
Shear.....Actual	psi =	2.9
Shear.....Allowable	psi =	19.4
Wall Weight	=	94.0
Rebar Depth 'd'	in =	5.75
LAP SPLICE IF ABOVE	in =	24.00
LAP SPLICE IF BELOW	in =	
HOOK EMBED INTO FTG	in =	6.00
Masonry Data		
f'm	psi =	1,500
Fs	psi =	20,000
Solid Grouting	=	No
Use Full Stresses	=	No
Modular Ratio 'n'	=	21.48
Short Term Factor	=	1.000
Equiv. Solid Thick.	in =	8.50
Masonry Block Type	=	Medium Weight
Masonry Design Method	=	ASD
Concrete Data		
f'c	psi =	
Fy	psi =	

Cantilevered Retaining Wall Design

Code: IBC 2006

Footing Design Results

		Toe	Heel	
Factored Pressure	=	718	178	psf
Mu' : Upward	=	183	69	ft-#
Mu' : Downward	=	51	209	ft-#
Mu: Design	=	132	140	ft-#
Actual 1-Way Shear	=	2.31	2.27	psi
Allow 1-Way Shear	=	75.00	75.00	psi
Toe Reinforcing	=	None Spec'd		
Heel Reinforcing	=	None Spec'd		
Key Reinforcing	=	None Spec'd		

Other Acceptable Sizes & Spacings

Toe: Not req'd, Mu < S * Fr

Heel: Not req'd, Mu < S * Fr

Key: No key defined

Summary of Overturning & Resisting Forces & Moments

		.....OVERTURNING..... Force lbs	Distance ft	Moment ft-#
Heel Active Pressure	=	280.0	1.33	373.3
Toe Active Pressure	=	-17.5	0.33	-5.8
Surcharge Over Toe	=			
Adjacent Footing Load	=			
Added Lateral Load	=			
Load @ Stem Above Soil	=			
Total	=	262.5	O.T.M. =	367.5

Resisting/Overturning Ratio = 2.79

Vertical Loads used for Soil Pressure = 825.0 lbs

Vertical component of active pressure used for soil pressure

		.....RESISTING..... Force lbs	Distance ft	Moment ft-#
Soil Over Heel	=	165.0	1.75	288.8
Sloped Soil Over Heel	=			
Surcharge Over Heel	=			
Adjacent Footing Load	=			
Axial Dead Load on Stem	=		0.00	
Soil Over Toe	=			
Surcharge Over Toe	=			
Stem Weight(s)	=	282.0	1.00	282.0
Earth @ Stem Transitions	=			
Footing Weight	=	300.0	1.00	300.0
Key Weight	=			
Vert. Component	=	78.0	2.00	156.1
Total =		825.0 lbs	R.M.=	1,026.8

DESIGNER NOTES:

Gate Pad

General Footing Design

File: C:\Documents and Settings\David\My Documents\ENERCALC Data Files\sands-trellis.ec6
ENERCALC, INC. 1983-2008, Ver: 6.0.19

Lic. #: KW-06000146 — License Owner: SUMMIT ENGINEERING, INC.

Description : Pad @ gate

General Information

Calculations per IBC 2006, CBC 2007, ACI 318-05

Material Properties

fc : Concrete 28 day strength	=	2.50 ksi
Fy : Rebar Yield	=	40,000.0 ksi
Ec : Concrete Elastic Modulus	=	3,122.0 ksi
Concrete Density	=	145.0 pcf
Φ Values Flexure	=	0.90
Shear	=	0.850

Analysis Settings

Min Steel % Bending Reinf.	=	.00140
Min Allow % Temp Reinf.	=	.00180
Min. Overturning Safety Factor	=	1.50 : 1
Min. Overturning Safety Factor	=	1.20 : 1
AutoCalc Footing Weight as DL	:	No
AutoCalc Pedestal Weight as DL	:	No

Soil Design Values

Allowable Soil Bearing	=	2.50 ksf
Increase Bearing By Footing Weight	=	No
Soil Passive Resistance (for Sliding)	=	350.0 pcf
Soil/Concrete Friction Coeff.	=	0.30

Increases based on footing Depth

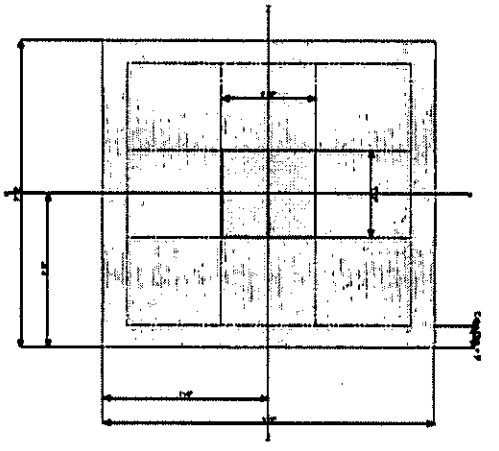
Reference Depth below Surface	=	ft
Allow. Pressure Increase per foot of depth	=	ksf
when base footing is below	=	ft

Increases based on footing Width

Allow. Pressure Increase per foot of width	=	ksf
when footing is wider than	=	ft

Dimensions

Width along X-X Axis	=	3.50 ft
Length along Z-Z Axi	=	3.50 ft
Footing Thickness	=	12.0 in
Load location offset from footing center...		
ex : Along X-X Axis	=	in
ez : Along Z-Z Axis	=	in
Pedestal dimensions...		
px : Along X-X Axis	=	12.0 in
pz : Along Z-Z Axis	=	12.0 in
Height	=	1.0 in
Rebar Centerline to Edge of Concrete..		
at Top of footing	=	3.0 in
at Bottom of footing	=	3.0 in



Reinforcing

Bars along X-X Axis		
Number of Bars	=	4.0
Reinforcing Bar Size	=	# 4.0
Bars along Z-Z Axis		
Number of Bars	=	4.0
Reinforcing Bar Size	=	# 4

Bandwidth Distribution Check (ACI 15.4.4.2)

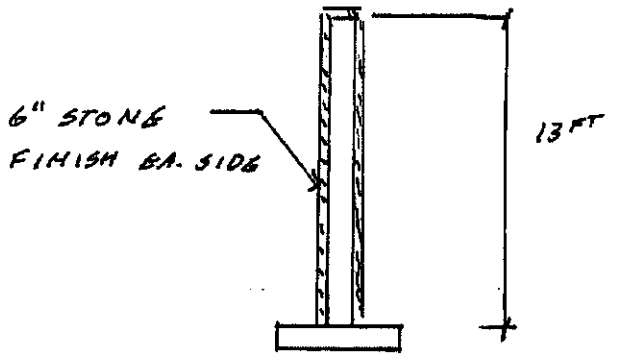
Direction Requiring Closer Separation		n/a
# Bars required within zone	=	n/a
# Bars required on each side of zone	=	n/a

Applied Loads

		D	Lr	L	S	W	E	H	
P : Column Load	=	1.620							k
OB : Overburden	=								ksf
M-xx	=						1.70		k-ft
M-zz	=								k-ft
V-x	=								k
V-z	=						0.570		k

Screen Wall

Loading



Seismic Coeff.

PER ASCE 7, TABLE 13.5-1

$F_p = \frac{0.4\, a_p\, S_{DS}}{(R_p/I_p)}(w_p)\left(1 + 2\left(\frac{z}{h}\right)\right)$

$= 0.3536\, W_p$

$F_{max} = 1.6\, S_{DS}\, I_p\, W_p$

$= 1.768\, W_p$

$F_{min} = 0.3\, S_{DS}\, I_p\, W_p$

$= 0.3315\, W_p$

$a_p = 1.0$

$R_p = 2.5$

$I_p = 1.0$

$z = 6.5$ FT

$h = 13.0$ FT

$S_{DS} = 1.105$

$S_{D1} = 0.736$

USE 0.356 W_p

$(12''/12)(120) = 120$ PSF

$(0.356)(120) = 42.72$ PSF

↑ ADDED weight

Retain Pro to calc's self weight

Screen Wall Full Height

Retain Pro 2007, 8-Mar-2009, (c) 1989-2009
www.retainpro.com/support for latest release
Registration # : RP-1176025 RP2007-Q

Cantilevered Retaining Wall Design

Code: CBC 2007

Criteria

Retained Height	=	1.00 ft
Wall height above soil	=	13.00 ft
Slope Behind Wall	=	0.00 : 1
Height of Soil over Toe	=	0.00 in
Water height over heel	=	0.0 ft
Wind on Stem	=	0.0 psf

Vertical component of active lateral soil pressure options:
USED for Soil Pressure.
NOT USED for Sliding Resistance.
USED for Overturning Resistance.

Soil Data

Allow Soil Bearing	=	2,500.0 psf
Equivalent Fluid Pressure Method		
Heel Active Pressure	=	45.0 psf/ft
Toe Active Pressure	=	45.0 psf/ft
Passive Pressure	=	350.0 psf/ft
Soil Density, Heel	=	120.00 pcf
Soil Density, Toe		0.00 pcf
Footing||Soil Friction	=	0.300
Soil height to ignore for passive pressure	=	0.00 in

Footing Dimensions & Strengths

Toe Width	=	2.83 ft
Heel Width	=	3.75
Total Footing Width	=	6.58
Footing Thickness	=	18.00 in
Key Width	=	0.00 in
Key Depth	=	0.00 in
Key Distance from Toe	=	2.83 ft

f'c = 3,000 psi Fy = 60,000 psi
Footing Concrete Density = 150.00 pcf
Min. As % = 0.0018
Cover @ Top = 2.00 in @ Btm.= 3.00 in

Surcharge Loads

Surcharge Over Heel	=	0.0 psf
Used To Resist Sliding & Overturning		
Surcharge Over Toe	=	0.0 psf
Used for Sliding & Overturning		

Axial Load Applied to Stem

Axial Dead Load	=	1,560.0 lbs
Axial Live Load	=	0.0 lbs
Axial Load Eccentricity	=	0.0 in

Lateral Load Applied to Stem

Lateral Load	=	43.0 #/ft
...Height to Top	=	14.00 ft
...Height to Bottom	=	1.00 ft

Adjacent Footing Load

Adjacent Footing Load	=	0.0 lbs
Footing Width	=	0.00 ft
Eccentricity	=	0.00 in
Wall to Ftg CL Dist	=	0.00 ft
Footing Type		Line Load
Base Above/Below Soil at Back of Wall	=	0.0 ft
Poisson's Ratio	=	0.300

Stem Weight Seismic Load

F_p / W_p Weight Multiplier = 0.350 g

Added seismic base force 612.5 lbs

Design Summary

Wall Stability Ratios

Overturning	=	1.71 OK
Sliding	=	1.53 OK
Total Bearing Load	=	5,175 lbs
...resultant ecc.	=	22.53 in
Soil Pressure @ Toe	=	2,439 psf OK
Soil Pressure @ Heel	=	0 psf OK
Allowable	=	2,500 psf
Soil Pressure Less Than Allowable		
ACI Factored @ Toe	=	2,908 psf
ACI Factored @ Heel	=	0 psf
Footing Shear @ Toe	=	19.4 psi OK
Footing Shear @ Heel	=	6.2 psi OK
Allowable	=	82.2 psi

Sliding Calcs (Vertical Component NOT Used)

Lateral Sliding Force	=	1,261.5 lbs
less 100% Passive Force	= -	393.8 lbs
less 100% Friction Force	= -	1,542.4 lbs
Added Force Req'd	=	0.0 lbs OK
....for 1.5 : 1 Stability	=	0.0 lbs OK

Load Factors

Building Code	CBC 2007
Dead Load	1.200
Live Load	1.600
Earth, H	1.600
Wind, W	1.600
Seismic, E	1.000

Stem Construction

Top Stem

			Stem OK
Design Height Above Ftg	ft =		0.00
Wall Material Above "Ht"	=		Concrete
Thickness	=		10.00
Rebar Size	=		# 5
Rebar Spacing	=		12.00
Rebar Placed at	=		Edge
Design Data			
fb/FB + fa/Fa	=		0.415
Total Force @ Section	lbs =		1,207.5
Moment....Actual	ft-# =		8,492.0
Moment.....Allowable	=		10,996.3
Shear.....Actual	psi =		15.7
Shear.....Allowable	psi =		82.2
Wall Weight	=		125.0
Rebar Depth 'd'	in =		8.19
LAP SPLICE IF ABOVE	in =		21.36
LAP SPLICE IF BELOW	in =		
HOOK EMBED INTO FTG	in =		9.59
Masonry Data			
f'm	psi =		
Fs	psi =		
Solid Grouting	=		
Modular Ratio 'n'	=		
Short Term Factor	=		
Equiv. Solid Thick.	=		
Masonry Block Type	=		Medium Weight
Masonry Design Method	=		ASD
Concrete Data			
f'c	psi =		3,000.0
Fy	psi =		60,000.0

Footing Design Results

		Toe	Heel
Factored Pressure	=	2,908	0 psf
Mu' : Upward	=	0	22 ft-#
Mu' : Downward	=	0	1,919 ft-#
Mu: Design	=	4,205	1,897 ft-#
Actual 1-Way Shear	=	19.43	6.17 psi
Allow 1-Way Shear	=	82.16	82.16 psi
Toe Reinforcing	=	# 4 @ 12.00 in	
Heel Reinforcing	=	# 4 @ 12.00 in	
Key Reinforcing	=	None Spec'd	

Other Acceptable Sizes & Spacings

Toe: Not req'd, Mu < S * Fr

Heel: Not req'd, Mu < S * Fr

Key: No key defined

Summary of Overturning & Resisting Forces & Moments

Item		.....OVERTURNING..... Force lbs	Distance ft	Moment ft-#		.....RESISTING..... Force lbs	Distance ft	Moment ft-#
Heel Active Pressure	=	140.6	0.83	117.2	Soil Over Heel	= 350.0	5.13	1,793.8
Surcharge over Heel	=				Sloped Soil Over Heel	=		
Toe Active Pressure	=	-50.6	0.50	-25.3	Surcharge Over Heel	=		
Surcharge Over Toe	=				Adjacent Footing Load	=		
Adjacent Footing Load	=				Axial Dead Load on Stem	= 1,560.0	3.25	5,070.0
Added Lateral Load	=	559.0	9.00	5,031.0	* Axial Live Load on Stem	=		
Load @ Stem Above Soil	=				Soil Over Toe	=		
					Surcharge Over Toe	=		
Seismic Stem Self Wt	=	612.5	8.50	5,206.3	Stem Weight(s)	= 1,750.0	3.25	5,687.5
					Earth @ Stem Transitions	=		
Total	=	1,261.5	O.T.M. =	10,329.1	Footing Weight	= 1,481.3	3.29	4,875.8
					Key Weight	=	2.83	
					Vert. Component	= 33.8	6.58	222.6
					Total =	5,175.1 lbs	R.M.=	17,649.6

Resisting/Overturning Ratio = 1.71

Vertical Loads used for Soil Pressure = 5,175.1 lbs

Vertical component of active pressure used for soil pressure

* Axial live load NOT included in total displayed, or used for overturning resistance, but is included for soil pressure calculation.

Screen Wall Partial Retaining

Cantilevered Retaining Wall Design

Code: CBC 2007

Criteria

Retained Height	=	8.00 ft
Wall height above soil	=	6.00 ft
Slope Behind Wall	=	0.00 : 1
Height of Soil over Toe	=	0.00 in
Water height over heel	=	0.0 ft
Wind on Stem	=	0.0 psf

Vertical component of active lateral soil pressure options:
USED for Soil Pressure.
NOT USED for Sliding Resistance.
USED for Overturning Resistance.

Soil Data

Allow Soil Bearing	=	2,500.0 psf
Equivalent Fluid Pressure Method		
Heel Active Pressure	=	45.0 psf/ft
Toe Active Pressure	=	45.0 psf/ft
Passive Pressure	=	350.0 psf/ft
Soil Density, Heel	=	120.00 pcf
Soil Density, Toe		0.00 pcf
Footing||Soil Friction	=	0.300
Soil height to ignore for passive pressure	=	0.00 in

Footing Dimensions & Strengths

Toe Width	=	3.08 ft
Heel Width	=	3.92
Total Footing Width	=	7.00
Footing Thickness	=	18.00 in
Key Width	=	12.00 in
Key Depth	=	27.00 in
Key Distance from Toe	=	3.08 ft

f'c = 3,000 psi Fy = 60,000 psi
Footing Concrete Density = 150.00 pcf
Min. As % = 0.0018
Cover @ Top = 2.00 in @ Btm.= 3.00 in

Surcharge Loads

Surcharge Over Heel	=	100.0 psf
Used To Resist Sliding & Overturning		
Surcharge Over Toe	=	0.0 psf
Used for Sliding & Overturning		

Axial Load Applied to Stem

Axial Dead Load	=	1,560.0 lbs
Axial Live Load	=	0.0 lbs
Axial Load Eccentricity	=	0.0 in

Lateral Load Applied to Stem

Lateral Load	=	43.0 #/ft
...Height to Top	=	14.00 ft
...Height to Bottom	=	8.00 ft

Adjacent Footing Load

Adjacent Footing Load	=	0.0 lbs
Footing Width	=	0.00 ft
Eccentricity	=	0.00 in
Wall to Ftg CL Dist	=	0.00 ft
Footing Type		Line Load
Base Above/Below Soil at Back of Wall	=	0.0 ft
Poisson's Ratio	=	0.300

Stem Weight Seismic Load

F_p / W_p Weight Multiplier = 0.350 g

Added seismic base force 612.5 lbs

Design Summary

Wall Stability Ratios

Overturning	=	2.39 OK
Sliding	=	1.56 OK
Total Bearing Load	=	8,978 lbs
...resultant ecc.	=	11.22 in
Soil Pressure @ Toe	=	2,311 psf OK
Soil Pressure @ Heel	=	255 psf OK
Allowable	=	2,500 psf
Soil Pressure Less Than Allowable		
ACI Factored @ Toe	=	2,622 psf
ACI Factored @ Heel	=	289 psf
Footing Shear @ Toe	=	22.0 psi OK
Footing Shear @ Heel	=	17.1 psi OK
Allowable	=	82.2 psi

Sliding Calcs (Vertical Component NOT Used)

Lateral Sliding Force	=	3,206.8 lbs
less 100% Passive Force	= -	2,460.9 lbs
less 100% Friction Force	= -	2,547.0 lbs
Added Force Req'd	=	0.0 lbs OK
....for 1.5 : 1 Stability	=	0.0 lbs OK

Load Factors

Building Code	CBC 2007
Dead Load	1.200
Live Load	1.600
Earth, H	1.600
Wind, W	1.600
Seismic, E	1.000

Stem Construction

Top Stem

Stem OK

Design Height Above Ftg	ft =		0.00
Wall Material Above "Ht"	=		Concrete
Thickness	=		10.00
Rebar Size	=		# 5
Rebar Spacing	=		10.00
Rebar Placed at	=		Edge
Design Data			
fb/FB + fa/Fa	=		0.860
Total Force @ Section	lbs =		3,654.5
Moment....Actual	ft-# =		15,189.5
Moment.....Allowable	=		13,093.5
Shear.....Actual	psi =		38.8
Shear.....Allowable	psi =		82.2
Wall Weight	=		125.0
Rebar Depth 'd'	in =		8.19
LAP SPLICE IF ABOVE	in =		21.36
LAP SPLICE IF BELOW	in =		
HOOK EMBED INTO FTG	in =		9.59
Masonry Data			
f'm	psi =		
Fs	psi =		
Solid Grouting	=		
Modular Ratio 'n'	=		
Short Term Factor	=		
Equiv. Solid Thick.	=		
Masonry Block Type	=		Medium Weight
Masonry Design Method	=		ASD
Concrete Data			
f'c	psi =		3,000.0
Fy	psi =		60,000.0

Footing Design Results

		Toe	Heel
Factored Pressure	=	2,622	289 psf
Mu' : Upward	=	10,834	3,001 ft-#
Mu' : Downward	=	1,283	9,925 ft-#
Mu: Design	=	9,550	6,923 ft-#
Actual 1-Way Shear	=	21.98	17.11 psi
Allow 1-Way Shear	=	82.16	82.16 psi

Toe Reinforcing	=	# 4 @ 12.00 in
Heel Reinforcing	=	# 4 @ 12.00 in
Key Reinforcing	=	None Spec'd

Other Acceptable Sizes & Spacings

Toe: #4@ 7.75 in, #5@ 12.00 in, #6@ 17.00 in, #7@ 23.00 in, #8@ 30.50 in, #9@ 38

Heel: Not req'd, Mu < S * Fr

Key: #4@ 12.50 in, #5@ 19.25 in, #6@ 27.25 in, #7@ 37.25 in,

Summary of Overturning & Resisting Forces & Moments

		.....OVERTURNING..... Force lbs	Distance ft	Moment ft-#			.....RESISTING..... Force lbs	Distance ft	Moment ft-#
Item									
Heel Active Pressure	=	2,030.6	3.17	6,430.3	Soil Over Heel	=	2,959.4	5.46	16,151.2
Surcharge over Heel	=	356.3	4.75	1,692.2	Sloped Soil Over Heel	=			
Toe Active Pressure	=	-50.6	0.50	-25.3	Surcharge Over Heel	=	308.3	5.46	1,682.4
Surcharge Over Toe	=				Adjacent Footing Load	=			
Adjacent Footing Load	=				Axial Dead Load on Stem	=	1,560.0	3.50	5,459.5
Added Lateral Load	=	258.0	12.50	3,225.0	* Axial Live Load on Stem	=			
Load @ Stem Above Soil	=				Soil Over Toe	=			
					Surcharge Over Toe	=			
Seismic Stem Self Wt	=	612.5	8.50	5,206.3	Stem Weight(s)	=	1,750.0	3.50	6,124.4
					Earth @ Stem Transitions	=			
Total	=	3,206.8	O.T.M.	= 16,528.4	Footing Weight	=	1,574.8	3.50	5,510.9
					Key Weight	=	337.5	3.58	1,209.3
					Vert. Component	=	488.2	7.00	3,416.8
						Total =	8,978.1 lbs	R.M.=	39,554.5

Resisting/Overturning Ratio = 2.39

Vertical Loads used for Soil Pressure = 8,978.1 lbs

Vertical component of active pressure used for soil pressure

* Axial live load NOT included in total displayed, or used for overturning resistance, but is included for soil pressure calculation.

Retaining Wall

Cantilevered Retaining Wall Design — **Code: CBC 2007**

Criteria

Retained Height	=	8.00 ft
Wall height above soil	=	0.50 ft
Slope Behind Wall	=	0.00 : 1
Height of Soil over Toe	=	0.00 in
Water height over heel	=	0.0 ft
Wind on Stem	=	0.0 psf

Vertical component of active lateral soil pressure options:
USED for Soil Pressure.
NOT USED for Sliding Resistance.
USED for Overturning Resistance.

Soil Data

Allow Soil Bearing	=	2,500.0 psf
Equivalent Fluid Pressure Method		
Heel Active Pressure	=	45.0 psf/ft
Toe Active Pressure	=	45.0 psf/ft
Passive Pressure	=	350.0 psf/ft
Soil Density, Heel	=	120.00 pcf
Soil Density, Toe		0.00 pcf
Footing||Soil Friction	=	0.300
Soil height to ignore for passive pressure	=	0.00 in

Footing Dimensions & Strengths

Toe Width	=	3.75 ft
Heel Width	=	2.00
Total Footing Width	=	5.75
Footing Thickness	=	18.00 in
Key Width	=	12.00 in
Key Depth	=	30.00 in
Key Distance from Toe	=	3.75 ft

f'c = 3,000 psi Fy = 60,000 psi
Footing Concrete Density = 150.00 pcf
Min. As % = 0.0018
Cover @ Top = 2.00 in @ Btm.= 3.00 in

Surcharge Loads

Surcharge Over Heel	=	0.0 psf
Used To Resist Sliding & Overturning		
Surcharge Over Toe	=	0.0 psf
Used for Sliding & Overturning		

Lateral Load Applied to Stem

Lateral Load	=	0.0 #/ft
...Height to Top	=	0.00 ft
...Height to Bottom	=	0.00 ft

Adjacent Footing Load

Adjacent Footing Load	=	0.0 lbs
Footing Width	=	0.00 ft
Eccentricity	=	0.00 in
Wall to Ftg CL Dist	=	0.00 ft
Footing Type		Line Load
Base Above/Below Soil at Back of Wall	=	0.0 ft
Poisson's Ratio	=	0.300

Axial Load Applied to Stem

Axial Dead Load	=	0.0 lbs
Axial Live Load	=	0.0 lbs
Axial Load Eccentricity	=	0.0 in

Stem Weight Seismic Load

F_p / W_p Weight Multiplier = 0.350 g

Added seismic base force 371.9 lbs

Design Summary

Wall Stability Ratios

Overturning	=	2.15 OK
Sliding	=	1.68 OK
Total Bearing Load	=	4,339 lbs
...resultant ecc.	=	7.43 in
Soil Pressure @ Toe	=	1,242 psf OK
Soil Pressure @ Heel	=	287 psf OK
Allowable	=	2,500 psf
Soil Pressure Less Than Allowable		
ACI Factored @ Toe	=	1,323 psf
ACI Factored @ Heel	=	285 psf
Footing Shear @ Toe	=	12.0 psi OK
Footing Shear @ Heel	=	10.7 psi OK
Allowable	=	82.2 psi

Sliding Calcs (Vertical Component NOT Used)

Lateral Sliding Force	=	2,351.9 lbs
less 100% Passive Force	= -	2,800.0 lbs
less 100% Friction Force	= -	1,155.4 lbs
Added Force Req'd	=	0.0 lbs OK
....for 1.5 : 1 Stability	=	0.0 lbs OK

Load Factors

Building Code	CBC 2007
Dead Load	1.200
Live Load	1.600
Earth, H	1.600
Wind, W	1.600
Seismic, E	1.000

Stem Construction

Top Stem

Design Height Above Ftg	ft =		0.00
		Stem OK	
Wall Material Above "Ht"	=		Concrete
Thickness	=		10.00
Rebar Size	=		# 5
Rebar Spacing	=		10.00
Rebar Placed at	=		Edge
Design Data			
fb/FB + fa/Fa	=		0.479
Total Force @ Section	lbs =		2,675.9
Moment....Actual	ft-# =		7,724.5
Moment.....Allowable	=		13,093.5
Shear.....Actual	psi =		27.2
Shear.....Allowable	psi =		82.2
Wall Weight	=		125.0
Rebar Depth 'd'	in =		8.19
LAP SPLICE IF ABOVE	in =		21.36
LAP SPLICE IF BELOW	in =		
HOOK EMBED INTO FTG	in =		9.59
Masonry Data			
f'm	psi =		
Fs	psi =		
Solid Grouting	=		
Modular Ratio 'n'	=		
Short Term Factor	=		
Equiv. Solid Thick.	=		
Masonry Block Type	=		Medium Weight
Masonry Design Method	=		ASD
Concrete Data			
f'c	psi =		3,000.0
Fy	psi =		60,000.0

ROSSO & BIANCO WINERY

SUMMIT

PHASE 2D

PROJECT NO. 2007031 DATE 10/20/2008

BY DW CHK AT SHT NO 14 OF 14

Footing Design Results

		Toe	Heel
Factored Pressure	=	1,323	285 psf
Mu' : Upward	=	7,714	242 ft-#
Mu' : Downward	=	1,898	1,879 ft-#
Mu: Design	=	5,815	1,637 ft-#
Actual 1-Way Shear	=	12.03	10.67 psi
Allow 1-Way Shear	=	82.16	82.16 psi
Toe Reinforcing	=	# 5 @ 10.00 in	
Heel Reinforcing	=	# 5 @ 10.00 in	
Key Reinforcing	=	None Spec'd	

Other Acceptable Sizes & Spacings

Toe: Not req'd, Mu < S * Fr

Heel: Not req'd, Mu < S * Fr

Key: #4@ 12.50 in, #5@ 19.25 in, #6@ 27.25 in, #7@ 37.25 in,

Summary of Overturning & Resisting Forces & Moments

Item		.....OVERTURNING..... Force lbs	Distance ft	Moment ft-#
Heel Active Pressure	=	2,030.6	3.17	6,430.3
Surcharge over Heel	=			
Toe Active Pressure	=	-50.6	0.50	-25.3
Surcharge Over Toe	=			
Adjacent Footing Load	=			
Added Lateral Load	=			
Load @ Stem Above Soil	=			
Seismic Stem Self Wt	=	371.9	5.75	2,138.3
Total	=	2,351.9	O.T.M. =	8,543.3

Resisting/Overturning Ratio = 2.15

Vertical Loads used for Soil Pressure = 4,339.4 lbs

Vertical component of active pressure used for soil pressure

Item		.....RESISTING..... Force lbs	Distance ft	Moment ft-#
Soil Over Heel	=	1,120.0	5.17	5,788.7
Sloped Soil Over Heel	=			
Surcharge Over Heel	=			
Adjacent Footing Load	=			
Axial Dead Load on Stem	=			
* Axial Live Load on Stem	=			
Soil Over Toe	=			
Surcharge Over Toe	=			
Stem Weight(s)	=	1,062.5	4.17	4,427.1
Earth @ Stem Transitions	=			
Footing Weight	=	1,293.8	2.88	3,719.5
Key Weight	=	375.0	4.25	1,593.8
Vert. Component	=	488.2	5.75	2,807.0
	Total =	4,339.4 lbs	R.M.=	18,334.1

* Axial live load NOT included in total displayed, or used for overturning resistance, but is included for soil pressure calculation.

CERTIFICATE OF COMPLIANCE (Part 1 of 2) OLTG-1-C

PROJECT NAME: ROSSO AND BIANCO WINERY PHASE 2D	DATE: FEB 08, 2010
PROJECT ADDRESS: 300 VIA ARCHIMEDEES, GEYSERVILLE, CA 95441	
PRINCIPAL DESIGNER - LIGHTING: SUMMIT ENGINEERING INC.	TELEPHONE: 707-527-0775
DOCUMENTATION AUTHOR: SUMMIT ENGINEERING INC.	TELEPHONE: 707-527-0775

Building Permit

Checked by/Date

Enforcement Agency Use

GENERAL INFORMATION

DATE OF PLANS	APR. 24, 2009	OUTDOOR LIGHTING ZONE (x one)		LZ1	X	LZ2		LZ3		LZ4	
FUNCTION TYPE		X	OUTDOOR LIGHTING		OUTDOOR SIGNS			INDOOR SIGNS			
PHASE OF CONSTRUCTION			NEW CONSTRUCTION	X	ADDITION	X	ALTERATIONS				

STATEMENT OF COMPLIANCE

This Certificate of Compliance lists outdoor lighting system specifications needed to comply with Title 24, Parts 1 and 6 of the California Code of Regulations. This certificate applies only to building lighting requirements.

The documentation preparer hereby certifies that the documentation is accurate and complete.

DOCUMENTATION AUTHOR	SIGNATURE	DATE
TERRY SZALAI, P.E.		FEB 08, 2010

The Principal lighting designer hereby certifies that the proposed outdoor lighting and signs represented in this set of construction documents is consistent with the other compliance forms and worksheets, with the specifications, and with any other calculations submitted with this permit application. The proposed building has been designed to meet the lighting requirements contained in the applicable parts of Sections 110, 119, 130 through 132, 146, and 149 of Title 24, Part 6. Please (x) one:

- [X] I hereby affirm that I am eligible under the provisions of Division 3 of the Business and Professions Code to sign this document as the person responsible for its preparation; and that I am licensed in the State of California as a civil engineer or electrical engineer, or I am a licensed architect.
- [ ] I affirm that I am eligible under the provisions of Division 3 of the Business and Professions Code by Section 5537.2 or 6737.3 to sign this document as the person responsible for its preparation; and that I am a licensed contractor performing this work.
- [ ] I affirm that I am eligible under Division 3 of the Business and Professions Code to sign this document because it pertains to a structure or type of work described as exempt pursuant to Business and Professions Code Sections 5537, 5538 and 6737.1.

(These sections of the Business and Professions Code are printed in full in the Nonresidential Manual.)

PRINCIPAL LIGHTING DESIGNER - NAME	SIGNATURE	DATE	LIC.#
TERRY SZALAI, P.E.		FEB 08, 2010	CA E15547 EXP 9/11

INSTRUCTIONS TO APPLICANT OUTDOOR LIGHTING COMPLIANCE & WORKSHEETS (x box if worksheet is included)

For detailed instructions on the use of this and all Energy Efficiency Standards compliance forms, please refer to the Nonresidential Manual published by the California Energy Commission.

LIGHTING COMPLIANCE FORMS AND WORKSHEETS (check box if worksheet is included)

X	OLTG-1-C	Certificate of Compliance. Required on plans for all submittals for outdoor lighting. Part 2 of 2 may be incorporated in schedules on the plans.
		Either LTG-1-C or OLTG-1-C may be used for signs as follows:
		1. Use LTG-1-C if the project consists solely of indoor signs.
		2. Use LTG-1-C if the project consists of indoor lighting and outdoor or indoor signs, but no other outdoor lighting.
		3. Use OLTG-1-C if the project consists solely of outdoor signs.
		4. Use OLTG-1-C if the project consists of outdoor lighting and indoor or outdoor signs, but no other indoor lighting.
X	OLTG-2-C	LIGHTING COMPLIANCE SUMMARY. Applicable Parts required for ALL outdoor lighting allowances (Except for Signs).
X	OLTG-3-C	AREA CALCULATIONS WORKSHEETS. Applicable parts required for all outdoor area calculations.
	OLTG-4-C	SIGN LIGHTING COMPLIANCE. Required for all internally and externally illuminated signs, for both indoor and outdoor signs.

THESE ATTACHMENTS ARE PART OF THE APPROVED PLANS. OLTG1C1

* DO NOT REMOVE THEM *

FEB 26 2010

PERMIT AND RESOURCE MANAGEMENT DEPARTMENT BUILDING PLAN CHECK

PERMIT #_____

CERTIFICATE OF COMPLIANCE (Part 2 of 2) OLTG-1-C

PROJECT NAME
ROSSO AND BIANCO WINERY PHASE 2D

DATE
FEB 08, 2010

Lighting Schedules on Plans Show that Outdoor Lighting Meets Allowed Lighting Power

X

- [X] Lighting power allowances for general site illumination on OLTG-2-C Part 1 of 4
  - [ ] Not Applicable
- [ ] Lighting power allowances for local ordinances or for security multipliers on OLTG-2-C Part 2 of 4
  - [X] Not Applicable
- [ ] Lighting power allowances for specific applications, other than vehicle service stations with canopies on OLTG-2-C Part 3 of 4
  - [X] Not Applicable
- [ ] Lighting power allowances for vehicle service station canopies on OLTG-2-C Part 4 of 4
  - [X] Not Applicable
- [ ] Sign lighting compliance on OLTG-4-C
  - [X] Not Applicable

Mandatory Measures on Plans Show that Outdoor Lighting Meets Outdoor Lighting Controls and Equipment
Indicate location on plans of Note Block for Mandatory Measures

X

- [X] Installed lighting power has been determined in accordance with Section 130©1
  - [ ] Not Applicable
- [ ] All permanently installed luminaires with lamps rated over 100 watts either have a lamp efficacy of at least 60 lumens per watt or are controlled by a motion sensor - Section 132(a)
  - [X] Not Applicable
- [ ] All Luminaires with lamps rated greater than 175 watts in hardscape areas, including parking lots, building entrances, canopies, and all outdoor sales areas meet the Cutoff Requirements of Section 132(b)
  - [X] Not Applicable
- [X] All permanently installed outdoor lighting meets the Control Requirements of Section 132(c)1
  - [ ] Not Applicable
- [X] Building facades, parking lots, garages, canopies, and outdoor sales areas meet the Multi-Level Lighting Requirements of Section 132(c)2
  - [ ] Not Applicable

MANDATORY AUTOMATIC CONTROLS

CONTROL LOCATION	CONTROL IDENTIFICATION	CONTROL TYPE Auto Time Switch/Photosensor, etc	AREA CONTROLLED	NOTE TO FIELD
LCP-B	LCP	LOW-VOLTAGE LIGHTING CONTROL	EXTERIOR LIGHTS	

LIGHTING COMPLIANCE SUMMARY (Part 1 of 4) OLTG-2-C

PROJECT NAME: ROSSO AND BIANCO WINERY PHASE 2D

DATE: FEB 08, 2010

LIGHTING POWER ALLOWANCES - GENERAL SITE ILLUMINATION - (Table 147-A)

	ALLOTTED WATTS			LUMINAIRE			LAMPS/BALLASTS				INSTALLED WATTS			
A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
Lighting Applications Category (Table 147-A)	Area (SFT) or Length (LF)	Allotted LPD W/SFT or W/LF	Allotted Watts (B x C)	Code for Luminaire Type	Description	Cutoff Designation	Lamp Type	# of lamps per Luminaire	Watts per Lamp	# of ballasts per Luminaire	Watts per Luminaire	x if CEC Default	# of luminaires	Installed Watts (L x N)
HARDSCAPE 1	7036	0.09	633.2	D2	STEP LIGHT	FULL	CFL	1	13	1	17 ✓	x	~~13~~ 14+14	~~221~~ 416
				D1	STEP LIGHT	FULL	CFL	1	5	1	8	x	8	64
HARDSCAPE 2	4007	0.09	360.6	SO	LINEAR LED CANOPY		LED	1	2		2		4	8
HARDSCAPE 3	3791	0.09	341.2	SE	PENDANT		MR16	1	20		20 ✓	x	16 ✓	320
HARDSCAPE 4	746	0.09	67.14	D1	STEP LIGHT	FULL	CFL	1	5	1	8	x	4	32
				SG	STEP LIGHT		MH	1	20	1	25 ✓		6 ✓	150
		Total Allotted Watts	1402										Total Installed Watts	~~795~~ 990 ✓

ILLUMINATED AREA CALCULATION WORKSHEET (Part 1 of 5) OLTG-3-C

PROJECT NAME	DATE
ROSSO AND BIANCO WINERY PHASE 2D	FEB 08, 2010

Hardscape - Method (i)

A. Hardscape for automotive vehicular use, including parking lots, driveways and site roads

A	B	C	D	E	F	G	H
		Areas (SFT) to Subtract from within Illuminated Area					
Lift Specific Application (Table 147-A)	Actual Paved Area plus 5' perimeter of adjacent unpaved land. Includes planters and landscaped areas less than 10' wide that are enclosed by hardscape on at least 3 sides	Areas between poles or luminaires that are greater than 6 mounting height distance (if applicable)	Overlapping Areas of Another Application or Luminaire	Building Areas	Areas Obstructed By Sign or Other Structure	Sub Total of areas to Subtract (C + D + E + F)	Illuminated Area (B - G)

B. Hardscape for pedestrian use including plazas, sidewalks, walkways and bikeways

A	B	C	D	E	F	G	H
		Areas (SFT) to Subtract from within Illuminated Area					
Lift Specific Application (Table 147-A)	Actual Paved Area plus 5' perimeter of adjacent unpaved land. Includes planters and landscaped areas less than 10' wide that are enclosed by hardscape on at least 3 sides	Areas between poles or luminaires that are greater than 6 mounting height distance (if applicable)	Overlapping Areas of Another Application or Luminaire	Building Areas	Areas Obstructed By Sign or Other Structure	Sub Total of areas to Subtract (C + D + E + F)	Illuminated Area (B - G)
HARDSCAPE 1	7036	0	0	0	0	0	**7036**
HARDSCAPE 2	4007	0	0	0	0	0	**4007**
HARDSCAPE 3	3791	0	0	0	0	0	**3791**
HARDSCAPE 4	746	0	0	0	0	0	**746**

Checklist

x Sec 147(c) 1 B - Each portion of all illuminated areas has been assigned only one lighting application, and the applications are consistent with the actual use of the areas.

x Sec 147(c) 1 A - General illumination areas includes only those illuminated areas that are in the bounds of the Application and are within a square pattern around a luminaire that is six times the luminaire mounting height, with the luminaire in the middle of the pattern, less any areas that are within buildings, under canopies, beyond property lines, or obstructed by signs or other structures.

MANDATORY MEASURES - OUTDOOR LIGHTING OLTG-M

PROJECT NAME	DATE
ROSSO AND BIANCO WINERY PHASE 2D	FEB 08, 2010

[X] **Installed Lighting Power**
Installed lighting power has been determined in accordance with Section 130(c)1.

[ ] **Controls for Inefficient Lighting Systems**
All outdoor luminaires with lamps rated over 100 watts must either:
[ ] have a lamp efficacy of at least 60 lumens per watt.
or
[ ] be controlled by a motion sensor (Section 132(a)).

[ ] **Outdoor Luminaire Cutoff**
Outdoor luminaires that use lamps rated greater than 175 watts (Section 132(b)) in the hardscape areas, parking lots, building entrances, canopies and all outdoor sales areas will be required to be designated cutoff in a photometric test report that includes any tilt or other non-level mounting conditions.

[X] **Controls to turn off the lights during the day**
All permanently installed outdoor lighting must be controlled by a photoelectric switch or astronomical time switch that automatically turns off the outdoor lighting when daylight is available (Section 132 (c)1).

[X] **Controls to provide the option to turn off a portion of the lights**
For lighting of building facades, parking lots, garages, sales and nonsales canopies, and all outdoor sales areas, automatic controls are required to provide the owner with the ability to turn off the lighting or to reduce the lighting power by at least 50% but not exceeding 80% when the lighting is not needed (Section 132(c)2).

Rosso & Bianco Winery
Geyserville, CA

Architectural Lighting Design
Fixture Schedule & Cutsheets
Phase IId

Ohm Lighting
December 2, 2009

~~May 12, 2009~~

for **Francis Ford Coppola**

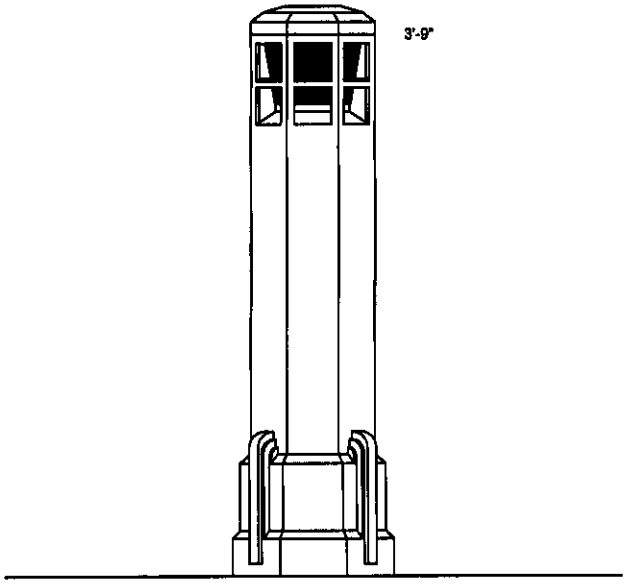
Francis Ford Coppola Winery - Lighting Fixture Schedule

December 2, 2009

ID	Qty	Landscape	Exterior Elevations	Cabanas	Outdoor Dining	1st	2nd	West Tower	Model	Description	Watts / Volts	Notes	Load Type	Lamp
BA	27	27							Holophane ARU 180MH MABCSSCH, Pole: Colorado - ZCO12F512CABKH	decorative pole mount	100 / TBD	voltage per Engineer	non-dim	Philips MHC100/C/U/M/3K ALTO
BB	17	17							Holophane HOL7451LDBKH / HSD120 / P-20184	decorative bollard	50 / TBD	voltage per Engineer	non-dim	Philips MHC50/U/M/3K ALTO
BC	28	28							BK Lighting MD-LED-281-F-BLP-1-A	directional in-grade	1 / 12	Semi-recessed in-grade requires remote transformer. Fixture orientation shown in lighting plans.	non-dim	integral
BD	1		1						Bega 3276P-BLK	surface mounted	26 / 120	mounts to recessed j-box	non-dim	G.E. F26TBX827/4P/ECO
BE	16	16							BK Lighting NSI-MR-2-BLP-9-11-TS-TMC-BLP	tree mounted downlight	20 / 12	tree strap mounted, requires remote low voltage transformer	magnetic low voltage	included
BF	32					32			Sistemalux Microtechnospot S.3595-120-24/ S.3525	trellis mounted	3 / 24	provide specified glare shield	non-dim	integral
BG	5	5							BK Lighting S-DR2MR-14520-TR-278-BLW-1-120	in-grade	20 / 120		non-dim	included
BH	20			20					BK Lighting AR-E320-TR-277-BZW-13-11-D-base height-120/BC8-BZW CANOPY	surface mounted	20 / 120		non-dim	included
BJ	2			2					sconce by Owner	wall mounted	TBD	changing trellis sconce selected by Owner	TBD	TBD
BK	lot	lot							Tokistar LSW-60-WW-HB/WP-L01C (silicone caps)/RC-8 (mounting track)	handrail lighting	1.2w / l.f.	LED replacement for integral low voltage handrail lighting. Lengths per Contractor.	non-dim	integral
BL	25			25					BK Lighting EC-LED-3000°K MFL 8W-BZW-9-11-60	surface mounted	8 / 12	requires remote transformer	non-dim	included
BM	0	0							NOT USED					
BN	6					6			Teka HLP-8-LV-288-BLP-18-PP	mounted in planter	20 / 12	remote low voltage transformer required	magnetic low voltage	included
BN1	1					1			Teka HLP-8-LV-288-BLP-12-SMC	surface mounted	20 / 12	remote low voltage transformer required	magnetic low voltage	included
BO	lot		lot						Tokistar LSW-60-WW-HB/WP-L01C/RC-8	canopy mounted	2 / 8	mounts in channel under canopy, requires silicone caps and remote driver	magnetic low voltage	integral
BP	2			2					We-ef 831-1030	pendant	18 / 120	pendant mounted at changing trellis	non-dim	G.E. F18DBX/827/ECO4P
BQ	15	15							Hunza Fish-SP-copper trim-Brown	in-grade	20 / 12	In-grade mounts on ledge. Remote transformer required.	magnetic low voltage	GE Q20MR16C/SP15
BR	lot	lot							Light Technologies T-24AMBS-tbd-SC-00	channel mounted	24v	Channel mounted at Bandshell and outdoor restaurant. Further coordination and remote transformer required.	electronic low voltage	integral
BR1	10	10							Light Technologies T-24AMBS-tbd-SC-00	channel mounted	21 / 24	Channel mounted at Bandshell and outdoor restaurant. Further coordination and remote transformer required.	electronic low voltage	integral
BR2	lot	lot							Light Technologies T-24AMBS-tbd-SC-00	canopy mounted	24v	Channel mounted at Bandshell and outdoor restaurant. Further coordination and remote transformer required.	electronic low voltage	integral
BS	0								NOT USED					
BS1	0								NOT USED					
BT	lot	lot							Tokistar BK-8-124-C	exhibitor lamps	7.5 / 24	mounts from bank shell to aircraft cable between trusses	magnetic low voltage	integral
BU	8	8							Altman OD-500 W/OD-P64-8N	truss mounted theatrical fixture	575 / 120	mounts to vertical truss	incandescent	Ushio HPL-575/115X
BV	10			10					Ruud E4213-UL	surface mounted	13 / 120		non-dim	included
BV1	8			8					Ruud E2213-UL-ES87	surface mounted	13 / 120		non-dim	included
A	20					20			Contractor - ACT-4.5-24-INC-AD-8-finish trim- 2' length	shelf lighting	40 / 24	transformer	magnetic low voltage	included
A1	48						48		Contractor - ACT-4.5-24-INC-AD-8-finish trim- 2.5' length	shelf lighting	50 / 24	shelf lighting mounts behind fascia	magnetic low voltage	included
B	6					6			sconce by Owner	wall mount	75 / 120	see interior design documents for mounting elevation	incandescent	TBD
C	79					54	25		LSI TP36-2G-CC-B-Louver C-C990	custom mount	50 / 120	plugs into receptacle, mounts to unistrut	electronic low voltage	GE 50AR111/FL24
D	16					8	8		Bega 3116P-BLK	wall recessed steplight	13 / 120	confirm mounting requirements	non-dim	GE F13DBX/827/ECO4P
D1	20	20							Bega 2096P-BLK	wall recessed steplight	5 / 120	vertically oriented	non-dim	GE F5BX/827/ECO
D2	47	25	2	6		11		2	Bega 3117P-BLK/CPC	wall recessed steplight	13 / 120	include concrete protection cover	non-dim	GE F13DBX/827/ECO4P
D3	9					9			Bega 2289P-BLK	wall recessed steplight	13 / 120		non-dim	GE F13BX/827/ECO
E	88					68	40		LSI LN16-00-B-Hood AAA	track/monopoint	50 / 120	recessed track or monopoint mounting per plans	electronic low voltage	GE Q50MR16/HIR/CG25
E1	14						14		LSI LN16-SA-B-Hood AAA	monopoint	50 / 120	monopoint mounted	electronic low voltage	GE Q50MR16/HIR/CG25
F	20					20			RSA ACT17ES-PW/ACT930-MAG-120/LN8LSL	recessed downlight	50 / 120	recessed downlight	magnetic low voltage	GE Q50MR16/HIR/CG25
F1	0								NOT USED					
G	62				40	20	2		Tokistar AVCC-BK-3-LWW-2' (w/black end caps)	undercabinet lighting	9 / 24	mounts under cabinet behind fascia, unless otherwise noted in design documents	magnetic low voltage	included
G1	0								NOT USED					
G2	0								Tokistar AVCC-BK-3-LWW-1' (w/black end caps)	undercabinet lighting	3 / 24	mounts under cabinet behind fascia	magnetic low voltage	included
G3	3					1	2		Tokistar AVCC-BK-3-LWW-5' (w/black end caps)	undercabinet lighting	15 / 24	mounts under cabinet behind fascia	magnetic low voltage	included
G4	1						1		Tokistar AVCC-BK-3-LWW-3' (w/black end caps)	undercabinet lighting	9 / 24	mounts under cabinet behind fascia	magnetic low voltage	included
H	3					3			Exterior wall fixture by Owner	wall mount	32 / 120	control on timeclock by Engineer	non-dim	TBD
I	7					7			Translite Sonoma RES2-NS-ST-DB / MPT1-B-R-DB	monopoint	37 / 12	requires remote transformer	electronic low voltage	GE Q37MR16/HIR/CG25
I1	10					10			Translite Sonoma RES2-NS-ST-DB-900 / MPT1A-N1-DB	monopoint	37 / 120	include 900 sandblasted lens	electronic low voltage	GE Q37MR16/HIR/CG25
K	20					12	8		Nippo SAL-UW-1500-A-M / FRT-1500-EL25	over-shelf lighting	45 / 120	surface mounts above shelf behind fascia	dim per manufacturer	included
K1	12						12		Nippo SAL-UW-1250-A-M / FRT-1250-EL25	beam mounted	18 / 120	surface mounts to top of beam	dim per manufacturer	included
K2	4						4		Nippo SAL-UW-500-A / FRT-500-EL25	surface mounted	17 / 120	surface mounted	non-dim	included
L	9					4		5	Exterior wall sconce by Owner	wall mount	18 / 120	control on timeclock by Engineer	non-dim	TBD
M	16						4	12	ETC PAR-EA-C / 400PTH8 / 400L black	custom mount	575 / 120	mounts to custom bracket, requires 20A twistlock receptacle, futher coordination required	incandescent	Ushio HPL-575/115X
M1	4							4	ETC SourceFour 450-C / 400PH-A / 400SC / 400DN black	custom mount	575 / 120	mounts to custom bracket, requires 20A twistlock receptacle, futher coordination required. Gobo to be selected pending further coordination.	incandescent	Ushio HPL-575/115X
N	18					13		5	Lightolier 2001F1SU/2001WHD	recessed downlight	13 / 120	recessed downlight	non-dim	GE F13TBX827/4P/ECO
P	11					8		3	wall sconce by Owner	decorative sconce	75 / 120	public restrooms	incandescent	TBD
Q	2					2			torchiere lamp by Owner	floor mounted	100 / 120	reception area, hardwired	incandescent	TBD
R	1					1			ceiling mount fixture by Owner	decorative ceiling mount	100 / 120	decorative ceiling mount	incandescent	TBD
R1	2					2			ceiling mount fixture by Owner	decorative ceiling mount	150 / 120	decorative ceiling mount	incandescent	TBD
R2	2						2		ceiling mount fixture by Owner	decorative ceiling mount	150 / 120	decorative ceiling mount	incandescent	TBD
R3	8					4	4		ceiling mount fixture by Owner	decorative ceiling mount	100 / 120	decorative ceiling mount	incandescent	TBD
R4	19					17		2	ceiling mount fixture by Owner	decorative ceiling mount	100 / 120	reception area	incandescent	TBD
S	4					4			picture light	wall mount	75 / 120	1st floor Wine Bar	incandescent	TBD
S1	0								NOT USED					
T	30					26	4		Color Kinetics eW Profile Powercore 523-000027-14	undercounter lighting	25 / 120	connectors by Contractor	incandescent	integral
T1	2					2			Color Kinetics eW Profile Powercore 523-000027-13	display lighting	13 / 120	connectors by Contractor	incandescent	integral
T2	4					4			Color Kinetics eW Profile Powercore 523-000027-12	display lighting	8 / 120	connectors by Contractor	incandescent	integral
U	0								NOT USED					
V	28			28					pendant by Owner	decorative pendant	26 / 120	cabanas	non-dim	TBD
V1	4				4				pendant by Owner	decorative pendant	32 / 120	outdoor restaurant	non-dim	TBD
W	12						12		RSA MLV3006 / BH2A	recessed downlight	20 / 12	requires remote transformer	magnetic low voltage	GE Q20MR16C/FL40
Y	4				4				wall sconce by Owner	decorative sconce	75 / 120	outdoor restaurant	incandescent	TBD
Z	32							32	Edge Lighting Adam M-ADA-3-BZ-coil focus lens	track mounted	50 / 12	wall mounted rail supports track fixtures	magnetic low voltage	GE Q50MR16/HIR/CG25
									Each rail system consists of (4) rails M-04-BZ, (2) outrigger power feeds: MP-4RD-OUT-BZ, (3) outrigger standoffs: MS-OUT-BZ, (1) MC-SI connector, (2) MC-SC-BZ connectors, (2) MC-CA-BZ end caps, and (2) 300W low voltage transformers. Refer to Lighting Design plans and elevations for configurations. Stem and cable support lengths to be adjusted on site by Contractor.					
EX	16					14		2	Concealite recessed emergency lighting	wall or ceiling	TBD	Emergency lighting requirements per Engineer	non-dim	included
									Lightolier LG Series exit sign - black housing			location and specification by Engineer, letter finish to be confirmed		
									WattStopper LP Lighting Control Panel(s)					
									following:	3 site visits minimum		system start up, programming & training		
									provide (1) 100' extension cable for portable LCD station					
									* Lamp compatibility to be confirmed					
									* All fixtures must be UL listed and labeled					

Freeport Series

Cast Iron Lighted Bollard



BOL/FP45/13/L-CI

TYPE SB

Specifications

DESCRIPTION The bollard shall be cast iron construction with a classic octagonal design. The bollard shall be provided with an optical assembly including a glass refractor, and an octagonal top.

MATERIALS The bollard shall be ASTM-A48 Class 30 cast iron. The castings shall be formed true to the pattern with complete detail. The refractor shall be borosilicate glass. All exposed hardware shall be tamper resistant stainless steel. Anchor bolts to be completely hot dip galvanized.

CONSTRUCTION The bollard shall be made from a one-piece casting. The top shall be attached to the bollard with four tamper resistant set screws.

DIMENSIONS The bollard shall be 3'- 9" in height with a 13" octaflute base, and a 10" octagonal top.

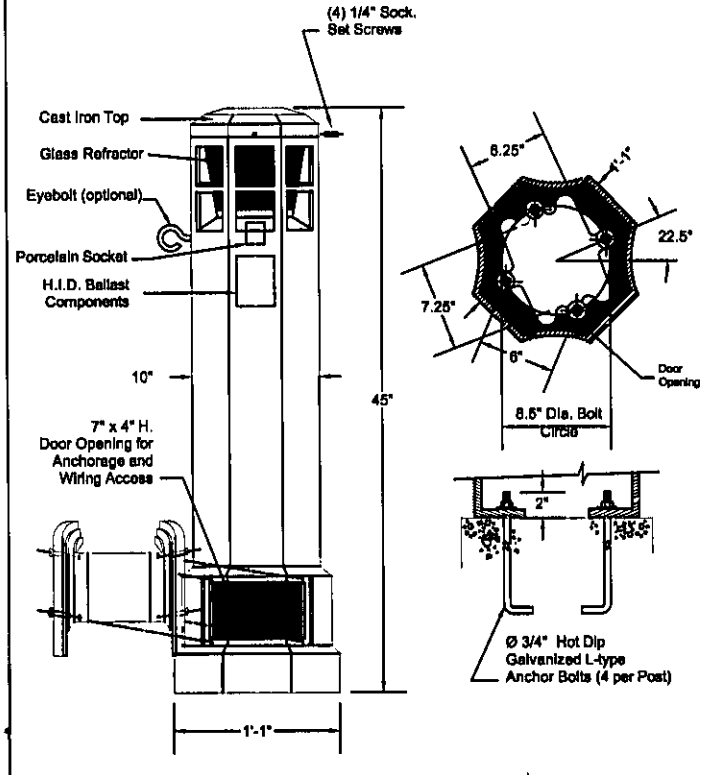
INSTALLATION The bollard shall be provided with four 3/4" diameter, hot dip galvanized, L-type anchor bolts to be installed on a 8.5" diameter bolt circle. An access door shall be provided in the base for anchorage and wiring access. The top shall be removable for access to the optical assembly.

LIGHT SOURCE The lighted bollard shall be furnished with an H.I.D. ballast and socket assembly. Sockets shall be glazed porcelain, mogul or medium base, with a copper alloy nickel plated screw shell and center contact. The ballast shall be a core and coil, high power factor, regulating type.

For finish specifications and color options, see " **Finish**" section in catalog.

ORDER NUMBER - BOLFP4513LCIBKH / M50120 /

CONFIRM VOLTAGE CONFIRM COLOR FINISH



ORDERING GUIDE

sample catalog number

BOL / FP45 / 13 / L-CI / BK-

Bollard (check appropriate boxes)

☐ **BOL/FP45/13/L**

Material/Finish

Catalog Suffix	*Description*
☐ -CI/BK	Cast Iron/Black (std.)
☐ -CI/DG	Cast Iron/Dark Green
☐ -CI/DB	Cast Iron/Dark Bronze
☐ -CI/PP	Cast Iron/Prime Painted
☐ -CI/CC	Cast Iron/Custom Color

(for complete finish and color options, see " **Finish**" section in catalog)

Light Source

H.I.D ballast & socket

☐ -H50	50	watt Mercury Vapor
☐ -H75	75	watt Mercury Vapor
☐ -H100	100	watt Mercury Vapor
☐ -M50	50	watt Metal Halide
☐ -M70	70	watt Metal Halide
☐ -M100	100	watt Metal Halide
☐ -S35	35	watt High Pressure Sodium
☐ -S50	50	watt High Pressure Sodium
☐ -S70	70	watt High Pressure Sodium
☐ -S100	100	watt High Pressure Sodium

Voltage

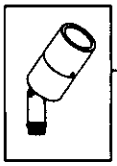
☐ /12 ☐ /20 ☐ /24 ☐ /27
☐ /34 ☐ /48 ☐ /MT

Optional Equipment

☐ -EB	Eyebolt mounted on bollard for use with chain by others
☐ -2	Weatherproof duplex Receptacle mounted inside base
☐ -DBB	Direct Burial Base for mounting without a concrete footing
☐ -CLD	Custom Logos cast into access door
☐ -V	Borosilicate Glass Refractor with an I.E.S Type 5 Distribution
☐ -II	Borosilicate Glass Refractor with an I.E.S Type 2 Distribution
☐ -III	Borosilicate Glass Refractor with an I.E.S Type 3 Distribution
☐ -HSS	House Side Shield
☐ -PEC	Photo Electric Control (120 volt)
☐ -PEC2	Photo Electric Control (240 volt)

HOLOPHANE® An AcuityBrandsCompany
LEADER IN LIGHTING SOLUTIONS 214 OAKWOOD AVENUE - NEWARK, OHIO 43055

TYPE SE



MR-16 Halogen

NITE STAR II™

PROJECT:	
TYPE:	
CATALOG NUMBER:	
LAMP(S):	
NOTES:	

CATALOG NUMBER LOGIC

Example	- NSII	- MR	- 9	- BLW	- 12	- 11	- 360SL

Material

Blank - Aluminum
B - Brass

Series

NSII - Nite Star II™

Source

MR - MR16

Lamp

0 - By Others
1 - ESX(20W), 12° Spot
2 - BAB(20W), 40° Flood
3 - FRB(35W), 12° Spot
4 - FRA(35W), 23° N. Flood
5 - FMW(35W), 40° Flood
15 - EYR(42W), 12° Spot
16 - EYS(42W), 25° N. Flood
17 - EYP(42W), 40° Flood
6 - EXT(50W), 13° Spot
7 - EXZ(50W), 26° N. Flood
8 - EXN(50W), 40° Flood
9 - FNV(50W), 60° W. Flood

Finish

Aluminum & Brass Finish

Powder Coat Color	Satin	Wrinkle
Bronze	BZP	BZW
Black	BLP	BLW
White (Gloss)	WHP	WHW
Aluminum	SAP	—
Verde	—	VER

Brass

Machined	MAC
Polished	POL
Mitique™	MIT

Also available in Premium Finishes
See submittal SUB-1439-00 for Premium Finishes

Lens Type

9 - Clear (Standard)
10 - Spread*
12 - Soft Focus*
13 - Rectilinear*

Shielding

11 - Honeycomb Baffle*

Options

360SL - 360SL™ Knuckle Mounting System

INCLUDE TREE STRAP ACCESSORY

REQUIRES REMOTE LOW VOLTAGE TRANSFORMER

* Accomodates up to 2 Lens/Shielding media

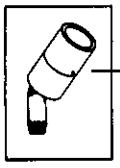
LAMP DATA

BK No.	Lamp Watts	Description	Rated Life (hrs.)	Center Beam Candlepower	Beam Angle	Beam Type

B-K LIGHTING

SUBMITTAL DATE 03-19-08

DRAWING NUMBER SUB-1121-02

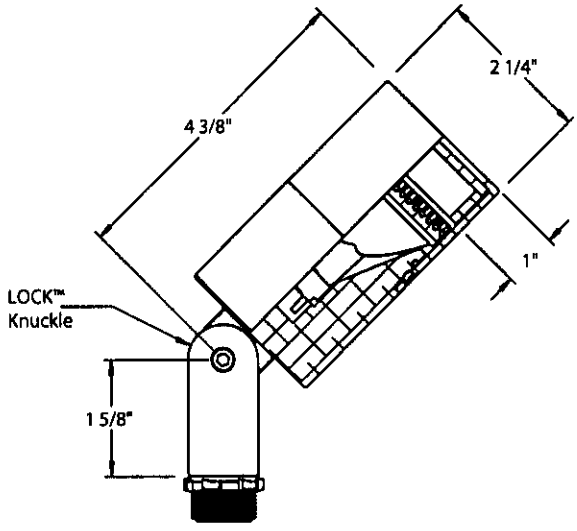


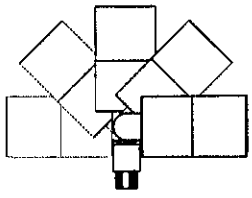
MR-16 Halogen

NITE STAR II™

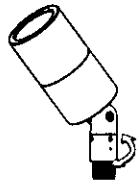
PROJECT:	
TYPE:	

SIDE VIEW





180° Vertical adjustment
(Standard)



Horizontal Rotation
(Optional 360SL™ Knuckle)

SPECIFICATIONS

Body
Fully machined from solid, copper-free aluminum. Also available in solid machined brass. Unibody design provides enclosed, water-proof wireway and heat sink to maximize lamp life. Integral knuckle for maximum mechanical strength. High temperature, silicone 'O' Ring provides water-tight seal.

Knuckle
The LOCK™ (Locking 'O' Ring Compression Knuckle) is comprised of two components. The first is integral to the body and features an interior, machined taper. The second is machined from solid billet and features a second, reverse angle taper. The resultant mechanical taper-lock allows a full 180° vertical adjustment without the use of serrated teeth, which inherently limit aiming. High temperature, silicone 'O' Ring provides water-tight seal and compressive resistance to maintain fixture position. Design withstands 73 lb. static load prior to movement to ensure decades of optical alignment. 1/2" pipe thread for mounting.

Optional 360SL™ Knuckle Mounting System additionally provides biaxial source control with 360° horizontal rotation in addition to vertical adjustment.

Cap
Machined from copper-free aluminum. Also available in machined brass. 1" deep cutoff with flush mounted lens. Accommodates up to (2) lens or louver media.

Lens
Shock resistant, tempered, clear glass lens is factory adhered to fixture cap and provides hermetically sealed optical compartment.

Lamp
For use with 50 watt maximum, MR-16 lamp.*
**Except GE Light Q42MR16/C/VNSP9 (EZY).*

Transformer
For use with 12 VAC remote transformer.

Socket
Specification grade, ceramic body lamp holder. GU5.3 base. Nickel alloy contacts and heat resistant, spring loaded, stainless steel lamp retaining clips.

Wiring
Teflon* coated wire, 18AWG, 600V, 250° C rated and certified to UL 1659 standard. Leads extend 6" beyond knuckle.

Hardware
Flush mounted, tamper-resistant, stainless steel hardware. LOCK™ vertical aiming screw is additionally black oxided.

Finish
StarGuard® (Pat. Pend.), a 15 stage chromate-free process cleans and conversion coats aluminum components prior to application of Class 'A' TGIC polyester powder coating. Brass components are available in powder coat or handcrafted metal finish.

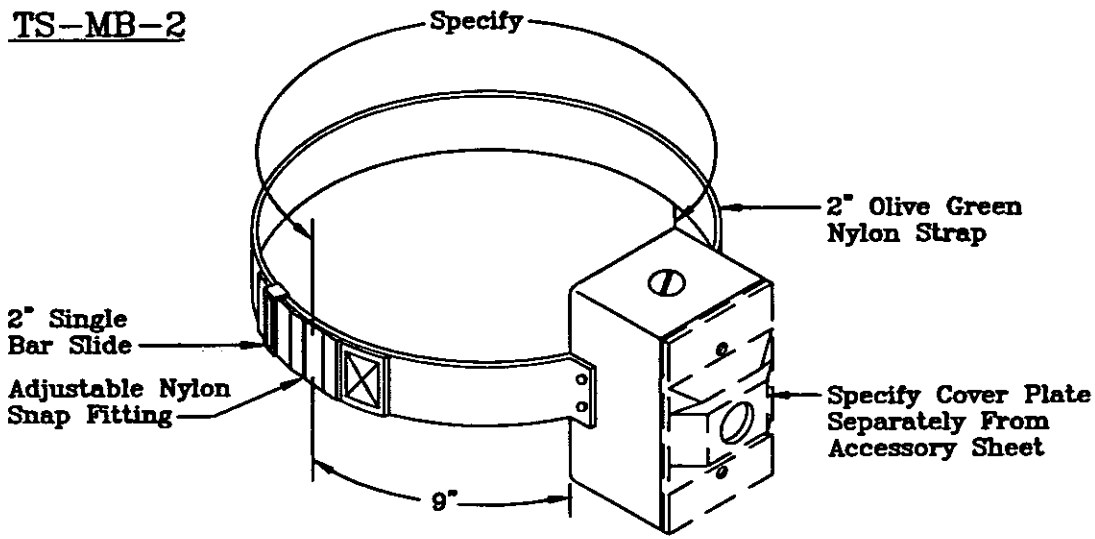
Warranty
5 year limited warranty.

Listings
ARL and CSA listed to UL 1838 standard. Suitable for indoor or outdoor use. Suitable for use in wet locations.

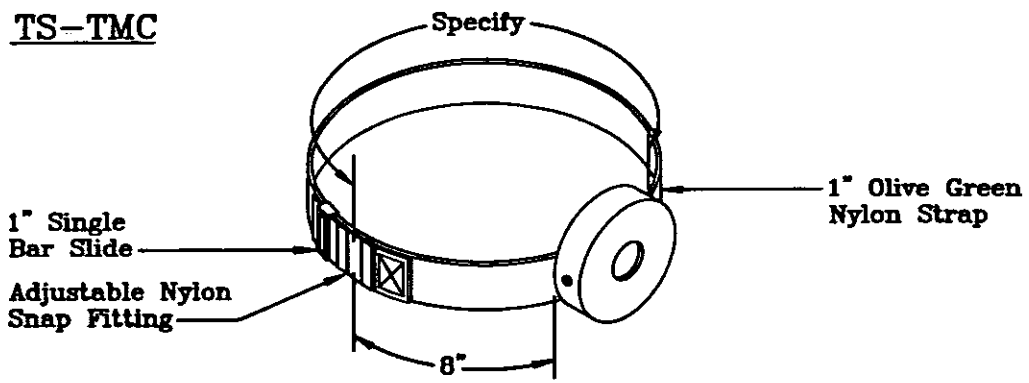
**Teflon is a registered trademark of DuPont Corporation.*

B-K LIGHTING		SUBMITTAL DATE	DRAWING NUMBER
		03-19-08	SUB-1121-02

TS–MB–2



TS–TMC



CATALOG NUMBER LOGIC

EXAMPLE: TS – MB–2 – BLP – 36"

Series: TS

Style: MB–2, TMC

Finish:

Powdercoat	Satin	Wrinkle
Bronze	BZP	BZW
Black	BLP	BLW
White (Gloss)	WHP	WHW
Aluminum	SAP	—
Verde	—	VER

Adjustable Strap Length:

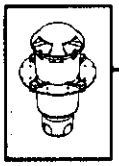
3" Miniumum

STRAP LENGTH - TBD

For Remote Transformers See Sheets TRSS Series, TR Series, Power Pipe, Power Pipe II or Power Canopy in Accessory Section.

TREE STRAP™ SERIES

4/00 | B-K LIGHTING, INC. | DRAWING NUMBER SUB–1039–02



Precision²

T4.5/T-6 Metal Halide • Integral Ballast (TR)

TYPE SG

DR²MH™

PROJECT:	
TYPE:	
CATALOG NUMBER:	
LAMP(S):	
NOTES:	

CATALOG NUMBER LOGIC

	DR2MH		TR					
Example	S	- DR2MH -	T4535	- TR	- 314	- POL	- 1	- 120

Material

Blank - Aluminum B - Brass S - Stainless Steel

Faceplate

DR2MH - Drive Star (T-6 Metal Halide)

OptiLock®

T4520 - T-4.5 Metal Halide (20W) T4535 - T-4.5 Metal Halide (35W) T635 - T-6 Metal Halide (35W)

Housing

TR - Integral Ballast

Lamp Type

0 - By Others
278 - (20W) Metal Halide T-4.5 / 830
~~314 - (35W) Metal Halide T-4.5 / 830~~
81 - (35W) Metal Halide T-6 / 830

Finish

Aluminum & Brass Faceplates

Powder Coat Color	Satin	Wrinkle
Bronze	BZP	BZW
Black	BLP	BLW
White (Gloss)	WHP	WHW
Aluminum	SAP	—
Verde	—	VER

Brass Faceplates

Machined	MAC
Polished	POL
Mitique™	MIT

Stainless Faceplates

Machined	MAC
Polished	POL
Brushed	BRU

Also available in Premium Finishes. See submittal SUB-1439-00 for Premium Finishes.

Optical Openings

1 - Single 2 - 2 at 180° 4 - 4 at 90°

Input Voltage

120 - 120 VAC Input
~~277 - 277 VAC Input~~

LAMP DATA

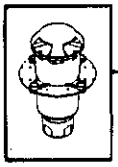
BK No.	Lamp Watts	Description	Rated Life	Initial Lumens	Mean Lumens	CRI	CCT(K)
278	20	CMH20T/U/830/G12	12,000	1,600	1,200	81	3,000
314	35	CMH39T/U/830/G12	15,000	3,400	2,300	84	3,000
81	35	35T6/MH/830	12,000	3,300	2,600	81	3,000

B-K LIGHTING

40429 Brickyard Drive • Madera, CA 93636 • USA
559.438.5800 • FAX 559.438.5900
www.bklighting.com • info@bklighting.com

SUBMITTAL DATE: 8-7-09

DRAWING NUMBER: SUB-1368-00



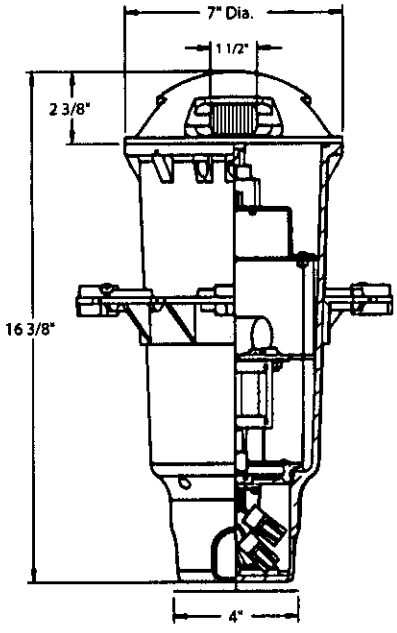
Precision²

DR²MH™

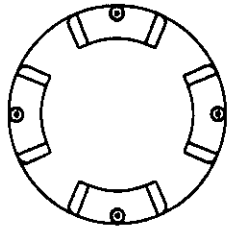
T4.5/T-6 Metal Halide • Integral Ballast (TR)

PROJECT:	
TYPE:	

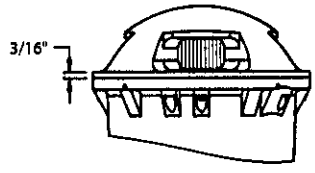
SIDE VIEW



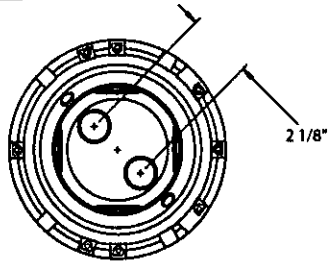
FACEPLATE



TOP SIDE VIEW



BOTTOM VIEW



SPECIFICATIONS

GreenSource Initiative™
Metal and packaging components are made from recycled materials. Manufactured using renewable solar energy, produced onsite. Returnable to manufacturer at end of life to ensure cradle-to-cradle handling. Packaging contains no chlorofluorocarbons (CFC's). RoHs compliant.

Fixture Housing
Corrosion-free composite, made from high strength, thermo-formed, sheet molded polyester compound. Glass reinforced, flame retardant and UV stabilized. (2) Bottom-Entry, 3/4" NPT female conduit entries with knockout plugs and (4) side flats for 1/2" or 3/4" conduit adapters.

Stability Flange (Patent Pending)
Corrosion-free composite flange projects into installation substrate to reinforce housing stability. Integral REBAR saddles simplify installation onto concrete form. (4) Orthogonal bosses permit use of 1/2" PCV conduit or EMT to simplify vertical position and leveling of housing. Pre-set self-tapping screws anchor housing at proper elevation.

Optics
Fixed position bracket ensures a highly efficient, direct component contribution by the lamp to the lens. 360° stainless steel cutoff shield provides field adjustable brightness control.

Socket
Specification grade ceramic body lamp holder rated for 5kV starting pulse. G12 bi-pin base, nickel-plated contacts and stainless steel, heat resistant lamp retaining clips.

Ballast Assembly
High Power Factor, Electronic (120VAC or 277 VAC) Ballast. Integral, removable gear tray with quick disconnect and carrying handle.

Wiring / Connectors
Teflon® coated wire, 18 gauge, 600V, 250°C rated and certified to UL1659 standard. OptiLock® and gear tray quick disconnects. Patented HydroLock® with anti-siphon valve (ASV™) wireway. (3) Water-Tight connectors supplied for line connection. Maximum (2) #10 & (1) #18. Minimum (1) #12 & (1) #18.

Water Management
Self Evacuating Airtight Lamp Module (S.E.A.L.™). IP-68 rated, vacuum sealed enclosure. Patented Anti-Condensation Valve (ACV™) eliminates condensation from optical chamber. High temperature silicone 'O' Ring at faceplate. Patented HydroLock® technology provides fail safe water barrier between junction box and interior components. Anti-siphon valve (ASV™) prevents "wicking" through conductor insulation.

Lens
High heat, shock resistant, 1/4" Pyrex® vertical prism glass lens. Suitable for walk-over and drive-over applications.

Faceplate
Solid, 2-3/8" machined 6061T6 aluminum with (4) black oxide, captive, stainless steel mounting screws. Faceplate options include solid, 2-3/8" machined brass and solid, 2-3/8" machined stainless steel.

Finish
StarGuard® (Patent Pending), a 15 stage, chromate-free process cleans and conversion coats aluminum components prior to application of Class 'A' TGIC polyester powder coating. Brass components are available in powder coat or handcrafted metal finish. Stainless steel components are available in handcrafted metal finish. RoHs compliant.

Listings
ETL Listed to ANSI/UL Standard 1598 and Certified to CAN/CSA Standard C22.2 No. 250.

®Teflon is a registered trademark of DuPont Corporation

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SUBMITTAL DATE	DRAWING NUMBER
8-7-09	SUB-1368-00

How to Specify

LSW - 30 - WH-HB - WP

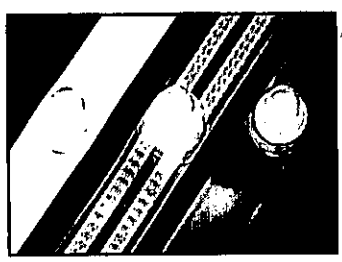
Lengths Per Contractor

Select TokiLeds or Incandescent Lamps as the light source, and refer to the appropriate chart.

Series		Socket Spacing		TokiLeds			
Code	Cable Color	Code	Inches (mm)	Code	Color	Style	Watts/Volts
LSW	White	**15**	0.6" (15 mm)	**WW**	2400K White	Standard	0.1 W / 8 VDC
LSC*	Clear	**30**	1.2" (30 mm)	**IW**	3000K White	Standard	0.1 W / 8 VDC
LSB*	Brown	**50**	2.0" (50 mm)	**WH**	6500K White	Standard	0.1 W / 8 VDC
		80	3.0" (80 mm)	**AM**	Amber	Standard	0.1 W / 8 VDC
* Clear and brown available in 4", 6" and 12" spacing only.		**100**	4.0" (100 mm)	**BL**	Blue	Standard	0.1 W / 8 VDC
		150	6.0" (150 mm)	**GR**	Green	Standard	0.1 W / 8 VDC
		300	12.0" (300 mm)	**MG**	Magenta	Standard	0.1 W / 8 VDC
				PL	Purple	Standard	0.1 W / 8 VDC
				RD	Red	Standard	0.1 W / 8 VDC
				WW-HB	2400K White	High Brightness	0.2 W / 8 VDC
				IW-HB	3000K White	High Brightness	0.2 W / 8 VDC
				WH-HB	6500K White	High Brightness	0.2 W / 8 VDC
				IW-UB	3000K White	Ultra-Bright	0.4 W / 8 VDC
				WH-UB	6500K White	Ultra-Bright	0.4 W / 8 VDC
				KLED-FF	3000K White	Fast Flashing	0.2 W / 8 VDC
				KLED-SF	3000K White	Slow Flashing	0.2 W / 8 VDC
				KLED-CF	3000K White	Cross-Fading	0.2 W / 8 VDC

Next, decide on cable color and the suitable socket spacing. For indirect applications, closer socket spacing provides a more uniform wash of light. When accenting with distinct points of light, wider socket spacing is the best choice. For perimeter lighting on buildings viewed from greater distances, 6" or 12" spacing are the most popular selections.

REQUIRED
WP-LOIC - SILICONE CAPS
REMOTE DRIVER

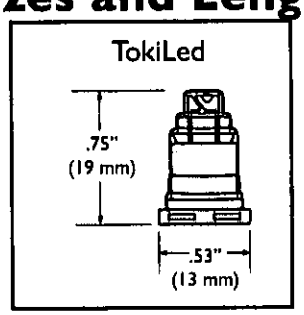


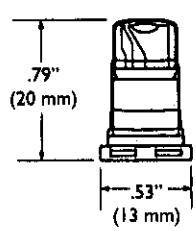
Cable color is available in white, clear or brown.

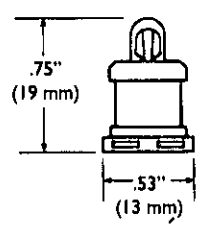
LSW - 80 - 106a

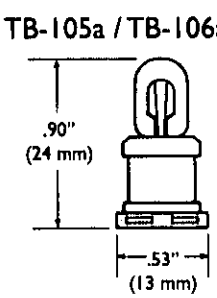
Series		Socket Spacing		Incandescent		
Code	Cable Color	Code	Inches (mm)	Code	Style	Watts/Volts
LSW	White	**30**	1.2" (30 mm)	**101a**	Outdoor	0.9 W / 24 VAC
LSC*	Clear	**50**	2.0" (50 mm)	**105a**	Outdoor	1.8 W / 24 VAC
LSB*	Brown	**80**	3.0" (80 mm)	**106a**	Outdoor	2.8 W / 24 VAC
		100	4.0" (100 mm)			
* Clear and brown available in 4", 6" and 12" spacing only.		**150**	6.0" (150 mm)	**101**	Indoor	0.9 W / 24 VAC
		300	12.0" (300 mm)	**105**	Indoor	1.8 W / 24 VAC
				106	Indoor	2.8 W / 24 VAC

Sizes and Lengths









Fixture Length
To minimize voltage drop and keep conductors safely within their rating, do not exceed the maximum lengths shown for each independent length of Tapelight.

	LED			Incandescent		
Spacing	0.1 Watt	0.2 Watt	0.4 Watt	0.9 Watt	1.8 Watt	2.8 Watt
0.6" (15 mm)	20' (6.0 M)	10' (3.0 M)	5' (1.5 M)	N/A	N/A	N/A
1.2" (30 mm)	40' (12.0 M)	20' (6.0 M)	10' (3.0 M)	30' (9.1 M)	15' (4.5 M)	10' (3.0 M)
2.0" (50 mm)	66' (20.0 M)	33' (10.0 M)	16' (5.0 M)	40' (12.2 M)	26' (7.9 M)	16' (5.0 M)
3.0" (80 mm)	88' (26.8 M)	50' (15.2 M)	25' (8.0 M)	50' (15.2 M)	34' (10.3 M)	28' (8.5 M)
4.0" (100 mm)	98' (30.0 M)	66' (20.0 M)	33' (10.0 M)	56' (17.0 M)	40' (12.2 M)	30' (9.1 M)
6.0" (150 mm)	120' (36.6 M)	90' (27.4 M)	50' (15.0 M)	72' (21.9 M)	48' (14.6 M)	39' (11.9 M)
12.0" (300 mm)	164' (50.0 M)	126' (38.4 M)	82' (25.0 M)	100' (30.4 M)	72' (21.9 M)	55' (16.7 M)

Accessories

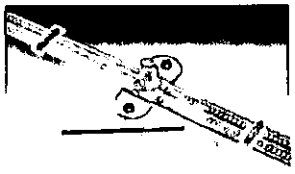
Mounting Devices

Tokistar offers a wide variety of mounting devices. The proper selection is determined by the surface Tapelight is attached to. In addition to the devices shown, construction adhesives capable of adhering well to PVC may be used.

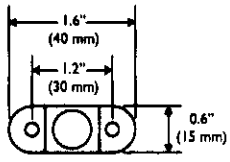
Mounting Devices	
Part Number	Description
TP-01	Mounting Bracket
TP-02	Mounting Staple
WFT-32	32 ft. roll Adhesive Tape
WFL-20	20 ft. roll Adhesive Tape
WFL-108	108 ft. roll Adhesive Tape
RC-S	Mounting Track
SH-02	Metal Fastener

Bracket and Staples

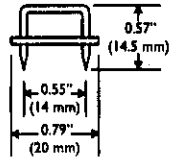
Brackets and staples provide secure mounting. The proper quantity and positioning is determined by the specifics of each application. When turning corners, a device should be used at the start of each bend.

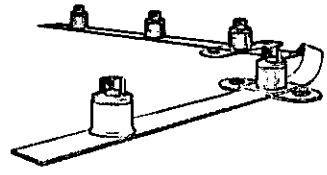


TP-01



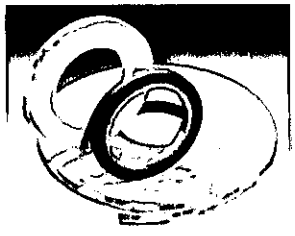
TP-02





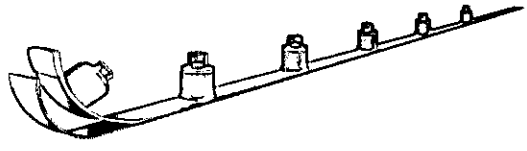
Adhesive Tape

Adhesive tapes work best on smooth surfaces. The WFT-32 roll is for use with TLP and TLW Series Tapelight. The WFL-108 and WFL-20 rolls are exterior-grade adhesive tapes for use with LS Series Tapelight.



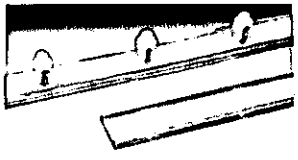
WFL
for LS Series

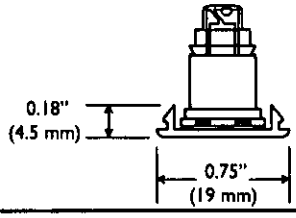
WFT
for TLP and TLW Series



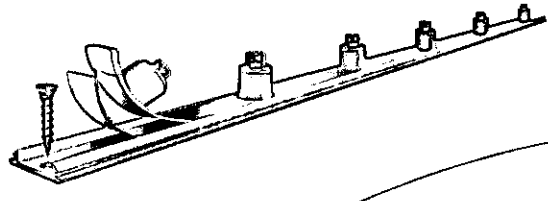
Mounting Track

The RC-S is a semi-rigid polycarbonate track which can be securely mounted in place with screws to any surface. This provides a smooth surface to apply adhesive tapes on, and ensures perfect linear integrity.



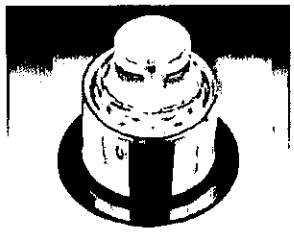


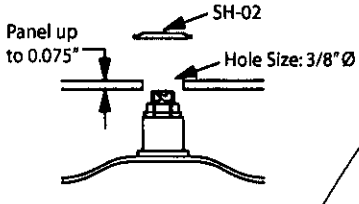
RC-S



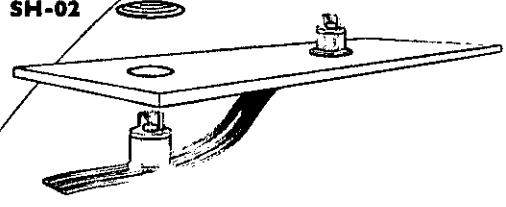
Panel Fastener

The SH-02 metal fasteners are used to securely lock sockets in place for panel mounting. Tapelight sockets are pushed through the hole in the panel from behind, and the fastener is pressed in place from above.



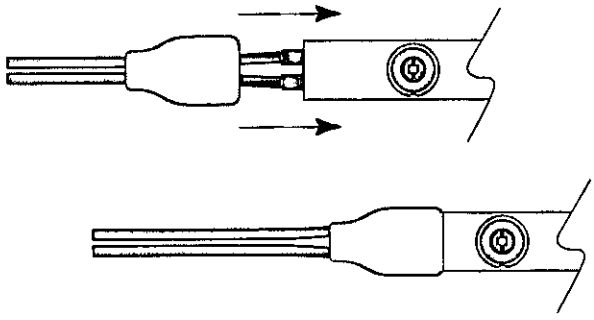


SH-02



Cord Protectors and End Caps

Cord Protectors are required to insulate the lead wire soldered to the beginning of each Tapelight, and End Caps are attached to the end.

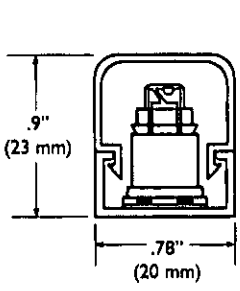


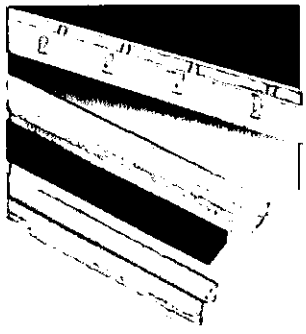
Cord Protectors		
Part Number	Color	Series
ECL-BK	Black	LS
ECL-WH	White	LS
ECL-CL	Clear	LS
EC-L	Clear	TLP
ECW-L	Clear	TLW

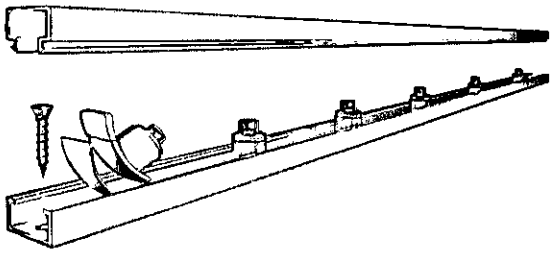
End Caps		
Part Number	Color	Series
ECD-BK	Black	LS
ECD-WH	White	LS
ECD-CL	Clear	LS
EC-D	Clear	TLP & TLW

Decorative Channels

Decorative Channels provide added appeal in high-visibility applications. Tapelight is installed to the base with adhesive tape, and the clear cover snapped in place. These channels may be used with all TokiLeds, TB-101 and BB-301 incandescent lamps.



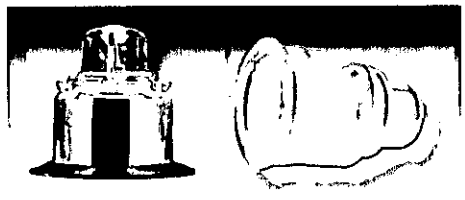


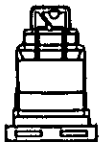


Part Number	Description
TXB-B	PVC Brown Base
TXB-W	PVC White Base
TXS-CS	Polycarbonate Lens
EC-B	Black End Cap
EC-W	White End Cap

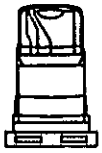
Silicone Caps

Silicone caps provide protection to LS Series Tapelight for exterior use. When incandescent lamps are used in harsh environments, the WP-101C and WP-105C caps provide an additional measure of protection.



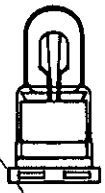


WP-L01C
for TokiLed



WP-L02C
for TokiLed-UB

WP-101C
for TB-101



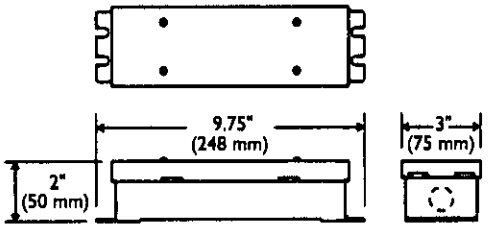
WP-105C
for TB-105 / TB-106

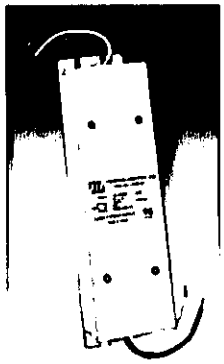
Part Number	Description
WP-L01C	LED Cap
WP-L02C	UB LED Cap
WP-101C	TB-101 Cap
WP-105C	TB-105 / TB-106 Cap

LED Driver

Tokistar Tapelight is ETL Listed when operated from our LED Driver.

Tokistar's LDR8-40 is a 40 Watt UL Recognized Class 2 LED Driver, used to convert an AC input into an 8VDC output. It may be operated from a wide range of input voltages, and is provided within an enclosure suitable for wet locations.





Part #: LDR8-40

Specifications
Input Range: 90-264 VAC
Frequency Range: 47-63 Hz
Output: 8 VDC (Adjustable +10% / -25%)
Max. Output Current: 5.0A
Max. Output Power: 40W
Protection: Overload, Overcurrent, Short Circuit
Operating Temperature: -30°C to +60°C

Mechanical Specifications
Dimensions: 3" x 9.75" x 2"
Weight: 1.94 lbs
Enclosure Rating: Nema 3/IP65
Mounting: Flange Mount
Connection: Knockouts for 1/2" Conduit

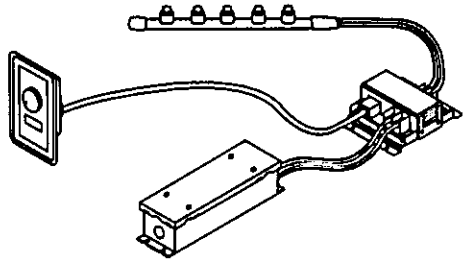
Compliance/Safety
Standards: UL Recognized Class 2/EN60950

LED Capacity
0.10 Watt LEDs: 400 pieces
0.20 Watt LEDs: 200 pieces
0.24 Watt LEDs: 166 pieces
0.40 Watt LEDs: 100 pieces

LED Dimmers

LC Dimming System

This proprietary Dimming System provides full-range dimming of Tokistar 8VDC LEDs. The remote wall dimmer controls an unlimited number of dimmer packs.



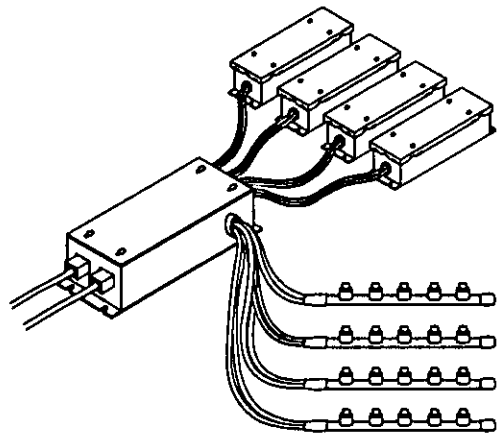
Part #: LC-DMR
The remote wall dimmer has a rotary dial and on/off switch. Power to the wall dimmer is provided from the LED Driver powering the first Dimmer Pack.

Part #: LC-1CH-DP
Each dimmer pack receives an 8VDC input from an LDR8-40 LED Driver and sends a 0-8VDC output to the fixture. Logic input and output is communicated through CAT5 Cable. Dimensions: 1-1/2" x 3-1/2" x 4-1/16"

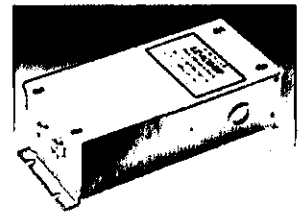
Part #: LC-SB
To maintain a stable control signal, a signal booster is required after each 12 dimmer packs. Power to the LC-SB is provided from the LED Driver powering the adjacent dimmer pack. Dimensions: 1" x 1-3/4" x 3"

DMX Dimming System

For applications operating from DMX protocol dimming systems, we offer a DMX dimmer pack. These dimmer packs have four outputs rated at 40 Watts each.



Part #: LC-4CH-DMX
Each dimmer pack accepts an 8VDC input signal from up to four LDR8-40 LED Drivers. Logic input and output is communicated to the dimmer pack with CAT5 Cable. Each of the four channels is independently addressable. When assigned to the same DMX channel, all fixtures will dim in unison. Dimensions: 3-1/4" x 4-1/2" x 11"



LSW - 30 - WH-HB - WP

18" LENGTH

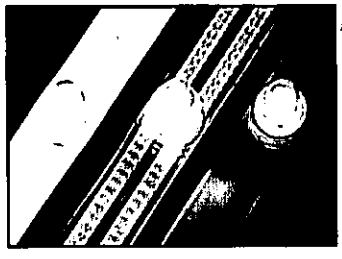
How to Specify

Select TokiLeds or Incandescent Lamps as the light source, and refer to the appropriate chart.

Series		Socket Spacing		TokiLeds			
Code	Cable Color	Code	Inches (mm)	Code	Color	Style	Watts/Volts
LSW	White	**15**	0.6" (15 mm)	**WW**	2400K White	Standard	0.1 W / 8VDC
LSC*	Clear	**30**	1.2" (30 mm)	**IW**	3000K White	Standard	0.1 W / 8VDC
LSB*	Brown	**50**	2.0" (50 mm)	**WH**	6500K White	Standard	0.1 W / 8VDC
		80	3.0" (80 mm)	**AM**	Amber	Standard	0.1 W / 8VDC
* Clear and brown available in 4", 6" and 12" spacing only.		**100**	4.0" (100 mm)	**BL**	Blue	Standard	0.1 W / 8VDC
		150	6.0" (150 mm)	**GR**	Green	Standard	0.1 W / 8VDC
		300	12.0" (300 mm)	**MG**	Magenta	Standard	0.1 W / 8VDC
				PL	Purple	Standard	0.1 W / 8VDC
				RD	Red	Standard	0.1 W / 8VDC
				WW-HB	2400K White	High Brightness	0.2 W / 8VDC
				IW-HB	3000K White	High Brightness	0.2 W / 8VDC
				WH-HB	6500K White	High Brightness	0.2 W / 8VDC
				IW-UB	3000K White	Ultra-Bright	0.4 W / 8VDC
				WH-UB	6500K White	Ultra-Bright	0.4 W / 8VDC
				KLED-FF	3000K White	Fast Flashing	0.2 W / 8VDC
				KLED-SF	3000K White	Slow Flashing	0.2 W / 8VDC
				KLED-CF	3000K White	Cross-Fading	0.2 W / 8VDC

Next, decide on cable color and the suitable socket spacing. For indirect applications, closer socket spacing provides a more uniform wash of light. When accenting with distinct points of light, wider socket spacing is the best choice. For perimeter lighting on buildings viewed from greater distances, 6" or 12" spacing are the most popular selections.

REQUIRED
WP-LOIC - SILICONE CAPS
REMOTE DRIVER

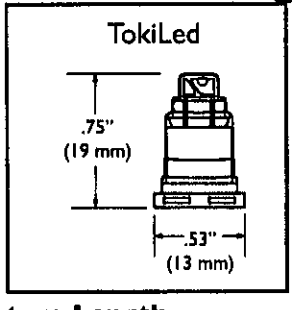


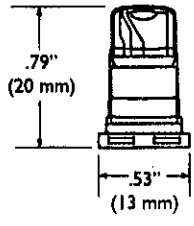
Cable color is available in white, clear or brown.

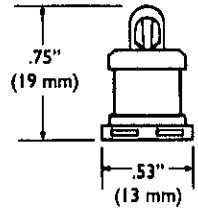
LSW - 80 - 106a

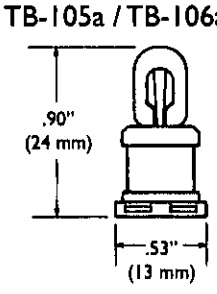
Series		Socket Spacing		Incandescent		
Code	Cable Color	Code	Inches (mm)	Code	Style	Watts/Volts
LSW	White	**30**	1.2" (30 mm)	**101a**	Outdoor	0.9 W / 24VAC
LSC*	Clear	**50**	2.0" (50 mm)	**105a**	Outdoor	1.8 W / 24VAC
LSB*	Brown	**80**	3.0" (80 mm)	**106a**	Outdoor	2.8 W / 24VAC
		100	4.0" (100 mm)			
* Clear and brown available in 4", 6" and 12" spacing only.		**150**	6.0" (150 mm)	**101**	Indoor	0.9 W / 24VAC
		300	12.0" (300 mm)	**105**	Indoor	1.8 W / 24VAC
				106	Indoor	2.8 W / 24VAC

Sizes and Lengths









Fixture Length
To minimize voltage drop and keep conductors safely within their rating, do not exceed the maximum lengths shown for each independent length of Tapelight.

	LED			Incandescent		
Spacing	0.1 Watt	0.2 Watt	0.4 Watt	0.9 Watt	1.8 Watt	2.8 Watt
0.6" (15 mm)	20' (6.0 M)	10' (3.0 M)	5' (1.5 M)	N/A	N/A	N/A
1.2" (30 mm)	40' (12.0 M)	20' (6.0 M)	10' (3.0 M)	30' (9.1 M)	15' (4.5 M)	10' (3.0 M)
2.0" (50 mm)	66' (20.0 M)	33' (10.0 M)	16' (5.0 M)	40' (12.2 M)	26' (7.9 M)	16' (5.0 M)
3.0" (80 mm)	88' (26.8 M)	50' (15.2 M)	25' (8.0 M)	50' (15.2 M)	34' (10.3 M)	28' (8.5 M)
4.0" (100 mm)	98' (30.0 M)	66' (20.0 M)	33' (10.0 M)	56' (17.0 M)	40' (12.2 M)	30' (9.1 M)
6.0" (150 mm)	120' (36.6 M)	90' (27.4 M)	50' (15.0 M)	72' (21.9 M)	48' (14.6 M)	39' (11.9 M)
12.0" (300 mm)	164' (50.0 M)	126' (38.4 M)	82' (25.0 M)	100' (30.4 M)	72' (21.9 M)	55' (16.7 M)

Accessories

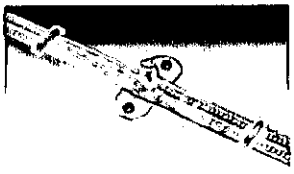
Mounting Devices

Tokistar offers a wide variety of mounting devices. The proper selection is determined by the surface Tapelight is attached to. In addition to the devices shown, construction adhesives capable of adhering well to PVC may be used.

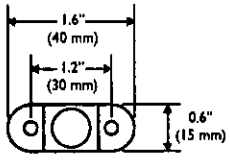
Mounting Devices	
Part Number	Description
TP-01	Mounting Bracket
TP-02	Mounting Staple
WFT-32	32 ft. roll Adhesive Tape
WFL-20	20 ft. roll Adhesive Tape
WFL-108	108 ft. roll Adhesive Tape
RC-S	Mounting Track
SH-02	Metal Fastener

Bracket and Staples

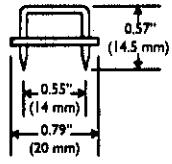
Brackets and staples provide secure mounting. The proper quantity and positioning is determined by the specifics of each application. When turning corners, a device should be used at the start of each bend.



TP-01

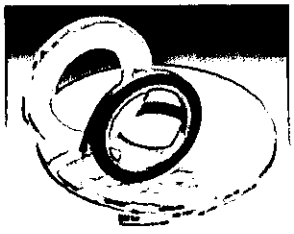


TP-02



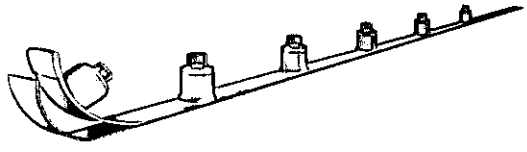
Adhesive Tape

Adhesive tapes work best on smooth surfaces. The WFT-32 roll is for use with TLP and TLW Series Tapelight. The WFL-108 and WFL-20 rolls are exterior-grade adhesive tapes for use with LS Series Tapelight.



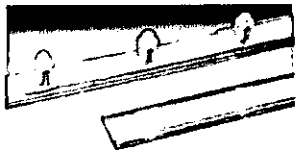
WFL
for LS Series

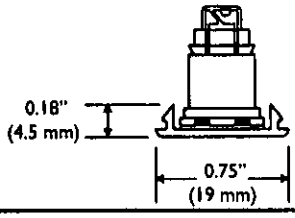
WFT
for TLP and TLW Series



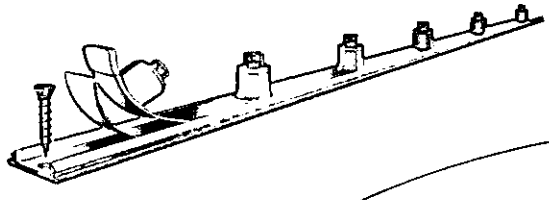
Mounting Track

The RC-S is a semi-rigid polycarbonate track which can be securely mounted in place with screws to any surface. This provides a smooth surface to apply adhesive tapes on, and ensures perfect linear integrity.



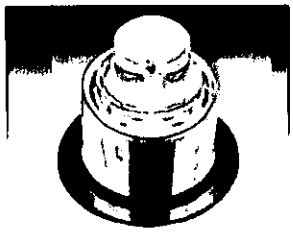


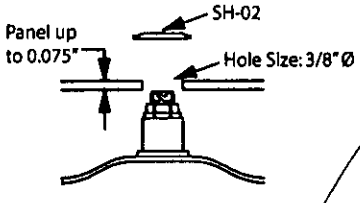
RC-S



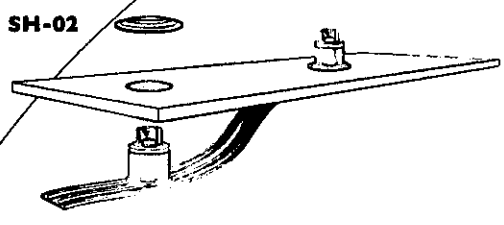
Panel Fastener

The SH-02 metal fasteners are used to securely lock sockets in place for panel mounting. Tapelight sockets are pushed through the hole in the panel from behind, and the fastener is pressed in place from above.



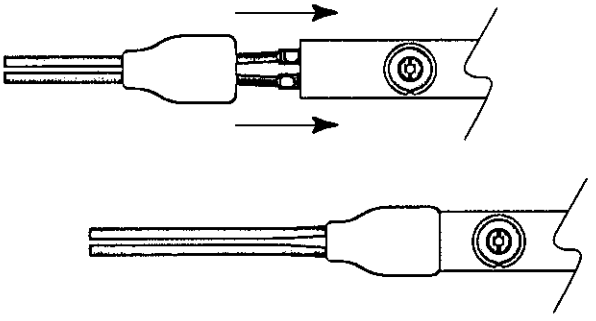


SH-02



Cord Protectors and End Caps

Cord Protectors are required to insulate the lead wire soldered to the beginning of each Tapelight, and End Caps are attached to the end.

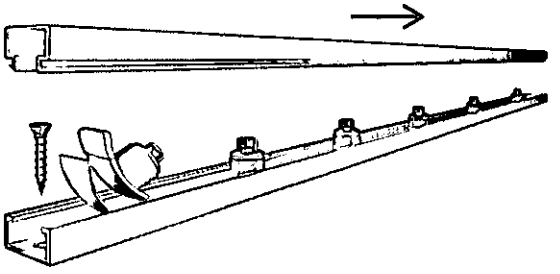


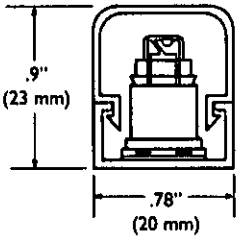
Cord Protectors		
Part Number	Color	Series
ECL-BK	Black	LS
ECL-WH	White	LS
ECL-CL	Clear	LS
EC-L	Clear	TLP
ECW-L	Clear	TLW

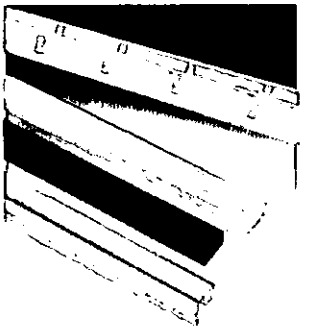
End Caps		
Part Number	Color	Series
ECD-BK	Black	LS
ECD-WH	White	LS
ECD-CL	Clear	LS
EC-D	Clear	TLP & TLW

Decorative Channels

Decorative Channels provide added appeal in high-visibility applications. Tapelight is installed to the base with adhesive tape, and the clear cover snapped in place. These channels may be used with all TokiLeds, TB-101 and BB-301 incandescent lamps.



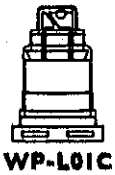




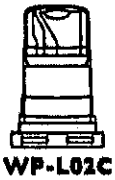
Part Number	Description
TXB-B	PVC Brown Base
TXB-W	PVC White Base
TXS-CS	Polycarbonate Lens
EC-B	Black End Cap
EC-W	White End Cap

Silicone Caps

Silicone caps provide protection to LS Series Tapelight for exterior use. When incandescent lamps are used in harsh environments, the WP-101C and WP-105C caps provide an additional measure of protection.

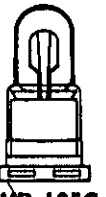


WP-L01C
for TokiLed

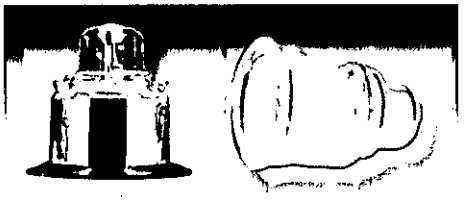


WP-L02C
for TokiLed-UB

WP-101C
for TB-101



WP-105C
for TB-105 / TB-106

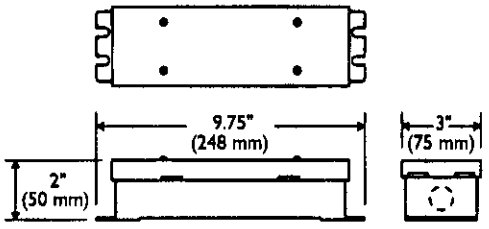


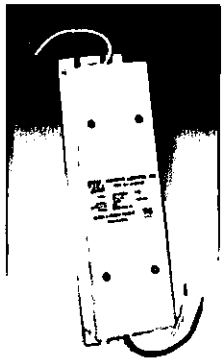
Part Number	Description
WP-L01C	LED Cap
WP-L02C	UB LED Cap
WP-101C	TB-101 Cap
WP-105C	TB-105 / TB-106 Cap

LED Driver

Tokistar Tapelight is ETL Listed when operated from our LED Driver.

Tokistar's LDR8-40 is a 40 Watt UL Recognized Class 2 LED Driver, used to convert an AC input into an 8 VDC output. It may be operated from a wide range of input voltages, and is provided within an enclosure suitable for wet locations.





Part #: LDR8-40

Specifications
Input Range: 90-264 VAC
Frequency Range: 47-63 Hz
Output: 8 VDC (Adjustable +10% / -25%)
Max. Output Current: 5.0A
Max. Output Power: 40W
Protection: Overload, Overcurrent, Short Circuit
Operating Temperature: -30°C to +60°C

Mechanical Specifications
Dimensions: 3" x 9.75" x 2"
Weight: 1.94 lbs
Enclosure Rating: Nema 3/IP65
Mounting: Flange Mount
Connection: Knockouts for 1/2" Conduit

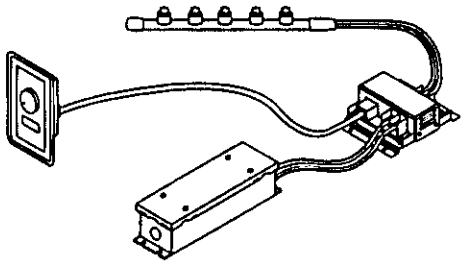
Compliance/Safety
Standards: UL Recognized Class 2/EN60950

LED Capacity
0.10 Watt LEDs: 400 pieces
0.20 Watt LEDs: 200 pieces
0.24 Watt LEDs: 166 pieces
0.40 Watt LEDs: 100 pieces

LED Dimmers

LC Dimming System

This proprietary Dimming System provides full-range dimming of Tokistar 8 VDC LEDs. The remote wall dimmer controls an unlimited number of dimmer packs.



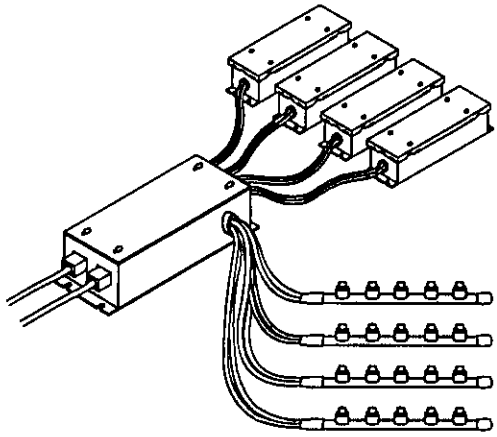
Part #: LC-DMR
The remote wall dimmer has a rotary dial and on/off switch. Power to the wall dimmer is provided from the LED Driver powering the first Dimmer Pack.

Part #: LC-1CH-DP
Each dimmer pack receives an 8 VDC input from an LDR8-40 LED Driver and sends a 0-8 VDC output to the fixture. Logic input and output is communicated through CAT5 Cable.
Dimensions: 1-1/2" x 3-1/2" x 4-1/16"

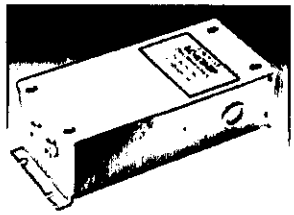
Part #: LC-SB
To maintain a stable control signal, a signal booster is required after each 12 dimmer packs. Power to the LC-SB is provided from the LED Driver powering the adjacent dimmer pack.
Dimensions: 1" x 1-3/4" x 3"

DMX Dimming System

For applications operating from DMX protocol dimming systems, we offer a DMX dimmer pack. These dimmer packs have four outputs rated at 40 Watts each.



Part #: LC-4CH-DMX
Each dimmer pack accepts an 8 VDC input signal from up to four LDR8-40 LED Drivers. Logic input and output is communicated to the dimmer pack with CAT5 Cable. Each of the four channels is independently addressable. When assigned to the same DMX channel, all fixtures will dim in unison.
Dimensions: 3-1/4" x 4-1/2" x 11"



TYPE D1

Recessed wall luminaires with shielded light

Housing: One piece die-cast aluminum housing with integral wiring compartment.

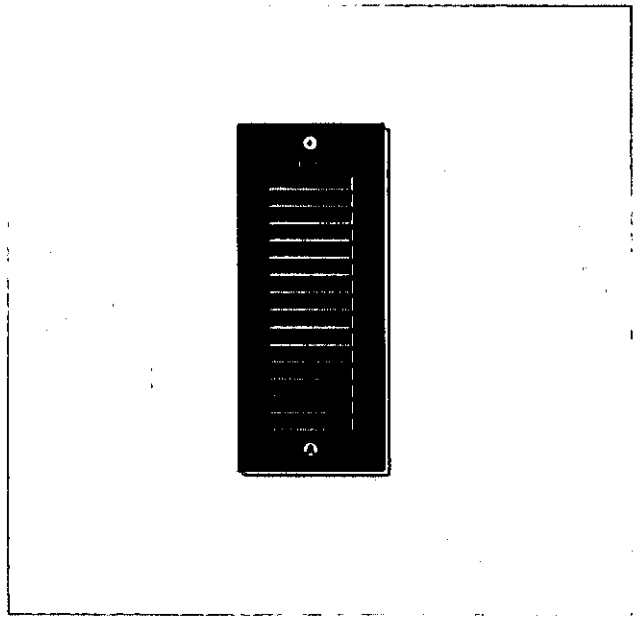
Enclosure: One piece die-cast aluminum faceplate; ⅛" thick, clear, etched glass (behind louvers). Faceplate is secured by two (2) flush, socket head, stainless steel, captive screws threaded into stainless steel inserts in the housing. Continuous high temperature O-ring gasket for weather tight operation.

Electrical: Compact fluorescent lampholder: G23, 2-pin (5 W), rated 75 W, 600 V. Ballast: Compact fluorescent 5 W is magnetic - 120 V only. Through Wiring: Maximum of four (4) No. 12 AWG conductors (plus ground) suitable for 75° C. Two ⅞" knockouts provided for ½" conduit.

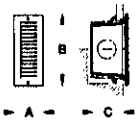
Finish: Available in five standard BEGA colors: Black (BLK); White (WHT); Bronze (BRZ); Silver (SLV); Eurocoat™ (URO). To specify, add appropriate suffix to catalog number. Custom colors supplied on special order.

U.L. listed, suitable for wet locations and for installation within 3 feet of ground. Suitable for all types of construction including poured concrete.Protection class: IP 64.

Type:
BEGA Product:
Project:
Voltage:
Color:
Options:
Modified:



COLOR - BLACK



Recessed luminaires · **shielded**

		Lamp		Lumen	A	B	C
2098 P	ADA	1	5W CF twin-2p	250	3 3/16	7 ½	4

BEGA-US 1000 BEGA Way, Carpinteria, CA 93013 (805) 684-0533 FAX (805) 566-9474 www.bega-us.com

TYPE D2

Recessed wall luminaires · shielded

Housing: Die-cast aluminum with integral wiring compartment.

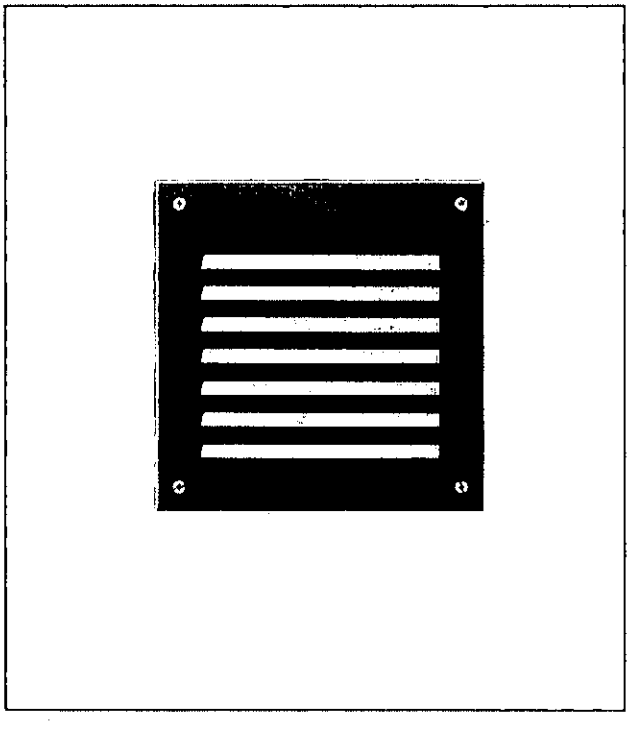
Enclosure: One piece die-cast aluminum faceplate. Etched, clear tempered glass. Faceplate is secured by four (4) flush socket head stainless steel captive screws threaded into stainless steel inserts in the housing casting. Continuous high temperature O-ring gasket for weather tight operation.

Electrical: Compact fluorescent lampholder: G24q-1 (13W), 4-pin rated 75W, 600V. Ballast: Electronic universal voltage (120V through 277V). Through Wiring: Maximum of four (4) No. 12 AWG conductors (plus ground) suitable for 90°C. Two ⅞" knockouts provided for ½" conduit.

Finish: Available in five standard BEGA colors: Black (BLK); White (WHT); Bronze (BRZ); Silver (SLV); Eurocoat™ (URO). To specify, add appropriate suffix to catalog number. Custom colors supplied on special order.

U.L. listed, suitable for wet locations and for installation within 3 feet of ground. Suitable for all types of construction including poured concrete. Protection class: IP 65.

Type:
BEGA Product:
Project:
Voltage:
Color:
Options:
Modified:



COLOR - BLACK

		Lamp	Lumen	A	B	C	CPC*
3117 P	ADA	1 13W CF quad-4p	860	7½	7½	4	**522**

*CPC: Optional Concrete Protection Cover

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