

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

PROJECT NAME: COLLEGE OF SAN MATEO SITE
 PROJECT ADDRESS: 1700 WEST HILLSDALE BLVD., SAN MATEO, CA
 PRINCIPAL LIGHTING DESIGNER: TONY HERNANDEZ
 DATE: 04-09-09

DATE OF PLANS: 04-09-09
 FUNCTION TYPE: OUTDOOR LIGHTING
 PHASE OF CONSTRUCTION: NEW CONSTRUCTION

STATEMENT OF COMPLIANCE

The Certificate of Compliance into outdoor lighting system specifications need to comply with Title 24, Parts 1 and 5 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.

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.

DOCUMENTATION AUTHORITY: SILVIA RAVE
 SIGNATURE: [Signature]
 DATE: 04-09-09

INSTRUCTIONS TO APPLICANT OUTDOOR LIGHTING COMPLIANCE & WORKSHEETS

- 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

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

PROJECT NAME: COLLEGE OF SAN MATEO SITE

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

- Lighting power allowances for general site illumination on OLTG-2-C Part 1 of 4
- Lighting power allowances for local ordinances or for security multipliers on OLTG-2-C Part 2 of 4
- Lighting power allowances for specific applications, other than vehicle service stations with canopies on OLTG-2-C Part 3 of 4
- Sign lighting compliance on OLTG-4-C

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

- 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 § 132(b)
- All permanently installed outdoor lighting meets the Control Requirements of § 132(c)

CONTROL LOCATION	CONTROL IDENTIFICATION	CONTROL TYPE	AREA CONTROLLED	NOTE TO FIELD
MAIN ELECTRICAL ROOM	VIA PHOTOCELL / ASTRONOMICAL TIME CLOCK	Auto Time Switch/Photosensory, etc.	SITE LIGHTING	

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

PROJECT NAME: COLLEGE OF SAN MATEO SITE
 DATE: 04-09-09

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

A	Allotted Watts			Luminaire					Lamps/Ballasts				Installed Watts		
	B	C	D	E	F	G	H	I	J	K	L	M	N	O	
PARKING LOT/ROADWAY	131,835	0.15	19,745	E1	POLE MOUNT	FCO	MH	1	400	1	452	✓	15	6,780	
PARKING LOT/ROADWAY	114,621	0.15	17,193	E2	POLE MOUNT	FCO	MH	2	400	1	904	✓	12	10,848	
ROADWAY	43,561	0.15	6,534	B	POLE MOUNT	FCO	MH	9	400	1	452	✓	9	4,068	
ROADWAY	46,878	0.15	7,032	BSP	POLE MOUNT	FCO	MH	1	400	1	904	✓	6	5,424	
SIDEWALK/WALKWAY	6,305	0.17	1,072	M2	POLE MOUNT	FCO	MH	1	150	1	168	✓	38	6,384	
SIDEWALK/WALKWAY	2,292	0.17	390	M6	BOLLARD	NONE	MH	1	100	1	110	✓	4	440	
SIDEWALK/WALKWAY	11,573	0.17	1,967	MM2	POLE MOUNT	FCO	MH	1	200	1	32	✓	5	1,168	
SIDEWALK/WALKWAY	100,407	0.17	17,069	MM3	POLE MOUNT	FCO	MH	1	200	1	219	✓	74	16,208	
SIDEWALK/WALKWAY	1,169	0.17	199	MM13	STEP LIGHT	NONE	COMP FLUOR	2	42	1	94	✓	12	1,128	
SIDEWALK/WALKWAY	12,423	0.17	2,112	MM15	UPLIGHT	NONE	MR16	1	75	75	✓	26	1,950		
SIDEWALK/WALKWAY	160	0.17	27	MM16	UPLIGHT FLAGPOLE	NONE	ED37	1	380	1	365	✓	3	1,095	
LOADING DOCK	6,389	0.17	1,086	E1	POLE MOUNT	FCO	MH	1	400	1	452	✓	2	904	
WALKWAY	811	0.17	138	RUDD	POLE MOUNT	NONE	MH	1	100	1	185	✓	1	180	
Total Allotted Watts				74,564					Total Installed Watts				58,513		

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TITLE 24 OUTDOOR LTG. COMPLIANCE NOTES:

- AUTOMATIC CONTROL DEVICES CERTIFIED:**
 ALL AUTOMATIC CONTROL DEVICES SHALL BE CERTIFIED BY THE STATE OF CALIFORNIA AND INSTALLED AS DIRECTED BY THE MANUFACTURER FOR PROPER CONTROL AND OPERATION.
- CONTROL OF EXTERIOR LIGHTS:**
 EXTERIOR MOUNTED FIXTURES ATTACHED TO OR POWERED BY THE ELECTRICAL SERVICE IN BUILDINGS THAT CONTAIN CONDITIONED SPACE SHALL BE CONTROLLED WITH A DIRECTIONAL PHOTOCELL CONTROL ON THE ROOF OR AN ASTRONOMICAL TIME SWITCH AND A CORRESPONDING ELECTRICAL CONDUCTOR THAT AUTOMATICALLY TURNS OFF THE EXTERIOR LIGHTING WHEN DAYLIGHT IS AVAILABLE. EXTERIOR LUMINAIRES WITH LAMPS RATED OVER 100 WATTS THAT HAVE A SOURCE EFFICACY OF LESS THAN 80 LUMENS PER WATT SHALL BE CONTROLLED BY A MOTION SENSOR.
 THE ASTRONOMICAL TIME-SWITCH CONTROLS SHALL:
 A. CONTAIN AT LEAST 2 SEPARATELY PROGRAMMABLE CHANNELS PER FUNCTION AREA;
 B. HAVE THE ABILITY TO INDEPENDENTLY OFFSET THE 'ON' AND 'OFF' TIMES FOR EACH CHANNEL BY 0 TO 99 MINUTES BEFORE OR AFTER SUNRISE OR SUNSET;
 C. HAVE A SUNRISE AND SUNSET PREDICTION ACCURACY WITHIN +/- 15 MINUTES AND TIMEKEEPING ACCURACY WITHIN 5 MINUTES PER YEAR;
 D. STORE TIME ZONE, LONGITUDE AND LATITUDE IN NON-VOLATILE MEMORY;
 E. DISPLAY DATE/TIME, SUNRISE AND SUNSET;
 F. HAVE AN AUTOMATIC DAYLIGHT SWINGS TIME ADJUSTMENT;
 G. BE CAPABLE OF PROGRAMMING DIFFERENT SCHEDULES FOR WEEKDAYS AND WEEKENDS;
 H. HAVE PROGRAM BACKUP CAPABILITIES THAT PREVENT THE LOSS OF THE DEVICE'S PROGRAM AND TIME SETTING FOR AT LEAST 10 HOURS IF POWER IS INTERRUPTED.
- LUMINAIRE CUTOFF REQUIREMENTS:**
 ALL OUTDOOR LUMINAIRES THAT USE LAMPS RATED GREATER THAN 175 WATTS IN HARDSCAPE AREAS INCLUDING PARKING LOTS, BUILDING ENTRANCES, SALES AND NON-SALES CANOPIES, AND ALL OUTDOOR SALES AREAS SHALL BE DESIGNATED 'CUTOFF' FOR LIGHT DISTRIBUTION.
- CONTROLS FOR OUTDOOR LIGHTING:**
 A. ALL PERMANENTLY INSTALLED OUTDOOR LIGHTING SHALL BE CONTROLLED BY A PHOTOCONTROL OR ASTRONOMICAL TIME SWITCH THAT AUTOMATICALLY TURNS OFF THE OUTDOOR LIGHTING WHEN DAYLIGHT IS AVAILABLE.
 B. FOR LIGHTING OF BUILDING FACADES, PARKING LOTS, GARAGES, SALES AND NON-SALES CANOPIES, AND ALL OUTDOOR SALES AREAS, WHERE TWO OR MORE LUMINAIRES ARE USED, AN AUTOMATIC TIME SWITCH SHALL BE INSTALLED THAT:
 (1) TURNS OFF THE LIGHTING WHEN NOT NEEDED, AND,
 (2) REDUCES THE LIGHTING POWER (IN WATTS) BY AT LEAST 50% BUT NOT EXCEEDING 80%, OR PROVIDES CONTINUOUS DIMMING THROUGH A RANGE THAT INCLUDES 50% THROUGH 80% REDUCTION.

GENERAL NOTES

- A. THE (5) TYPE 'MM14' SIGN WALL UPLIGHT FIXTURES ARE EXEMPT FROM THE LUMINAIRE CUTOFF REQUIREMENT PER TITLE 24 SEC. 132(b), EXCEPTION #1: "... EXTERNALLY ILLUMINATED ... SIGNS."
- B. FOR LIGHTING OF BUILDING FACADES, PARKING LOTS, GARAGES, SALES AND NON-SALES CANOPIES, AND ALL OUTDOOR SALES AREAS, WHERE TWO OR MORE LUMINAIRES ARE USED, AN AUTOMATIC TIME SWITCH SHALL BE INSTALLED THAT:
 (1) TURNS OFF THE LIGHTING WHEN NOT NEEDED, AND,
 (2) REDUCES THE LIGHTING POWER (IN WATTS) BY AT LEAST 50% BUT NOT EXCEEDING 80%, OR PROVIDES CONTINUOUS DIMMING THROUGH A RANGE THAT INCLUDES 50% THROUGH 80% REDUCTION.

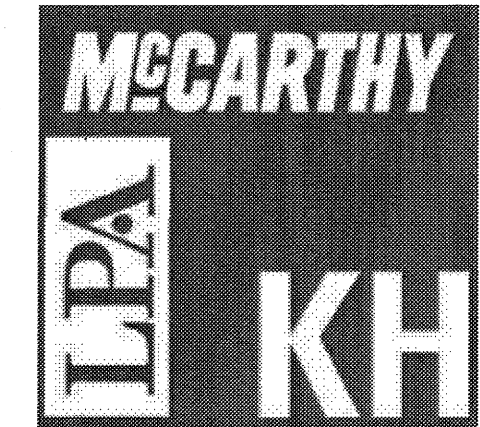
SIGN LIGHTING COMPLIANCE OLTG-4-C

PROJECT NAME: COLLEGE OF SAN MATEO SITE
 DATE: 04-09-09

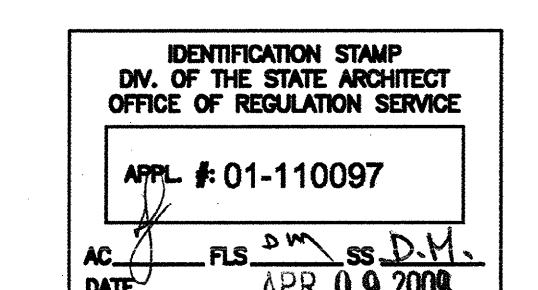
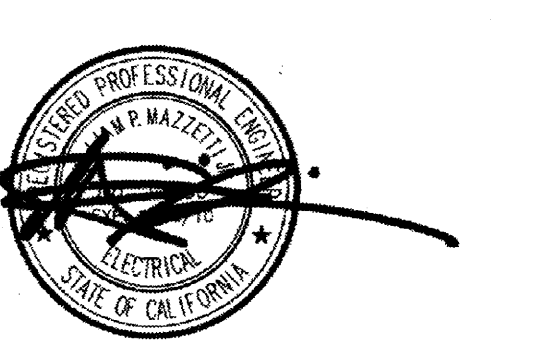
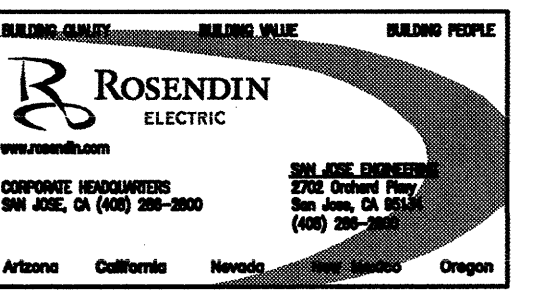
A	B	C	Alternative 1 - Lighting Power Allowances							Alternative 2 - For Signs that ONLY use one or more of the technologies listed in M through S (Check all that apply)												
			D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S				
MM14	22	WALL-FLAGPOLES	1369			2.3	3149	T5HD	22	11	1320	N										
MM12	7	RECESSED LOW VOLT LED LIGHT																				

F: For Allotted LPD use 12 watts/square foot for Internally Illuminated Signs, and use 2.3 watts/ft² for Externally Illuminated Signs.
 Note: If an Internally Illuminated or Externally Illuminated sign contains light sources and ballasts other than those included in columns (M) through (S), such as incandescent lamps, medium base sockets, magnetic ballasts, etc., then the sign must comply under Alternative 1. However, unfiltered signs, and unfiltered portions of Internally and Externally Illuminated signs, are not required to meet these Standards.

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FILE NUMBER: APR 09 2009

College of San Mateo Site Package
 San Mateo, CA
 Developed for San Mateo County Community College District

Date	
Revision	
Description	

Date	19 SEPT 2006
Date	09 APRIL 2009
Number	05
Description	DSA SUBMITTAL
Description	DSA FINAL

Job No.	300085
Date	09 APRIL 2009
Drawn by	REI CAD TEAM
Checked by	THS/FRW
Scale	AS SHOWN

Title 24 Compliance
E0.02