CERTIFICATE OF COMPLIANCE (Part 1 of 4) LTG-1-C

PROJECT NAME: MODERNIZATION AT CURRAN MIDDLE SCHOOL		DATE: 11-15-07
PROJECT ADDRESS: 1116 LYMRIC WAY, BAKERSFIELD, CA 93309		
PRINCIPAL DESIGNER/LIGHTING: THEODORE M. ROSE	TELEPHONE: 559-733-2611 EXT. 208	Building Permit #
DOCUMENTATION AUTHOR: RICHARD SAENZ	TELEPHONE: 559-733-2611 EXT. 203	Checked by/Date Enforcement Agency Use

GENERAL INFORMATION

DATE OF PLANS: 11-15-07	BUILDING CONDITIONED FLOOR AREA: 49,449	CLIMATE ZONE:	
BUILDING TYPE	☑ NONRESIDENTIAL ☐ HIGH RISE RESIDENTIAL	☐ HOTEL/MOTEL GUEST	
☑ CONDITIONED SPACES	☐ UNCONDITIONED SPACES ☐ INDOOR / OUTDOOR SIGNS		
PHASE OF CONSTRUCTION	☑ NEW CONSTRUCTION ☐ ADDITION ☐ ALTERATION		

METHOD OF COMPLIANCE

☐ PERFORMANCE ☑ COMPLETE BUILDING ☐ AREA CATEGORY ☐ TAILORED ☐ COMMON LIGHTING

STATEMENT OF COMPLIANCE

This Certificate of Compliance lists the building features and performance specifications need 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
RICHARD SAENZ		11-15-07

The Principal Lighting Designer hereby certifies that the proposed building design 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, 146,148 and 149 of Title 24, Part

☐ The plans & specifications meet the requirements of Part 6 (Sections 10-103a). ☐ The installation certificates meet the requirements of Part 6 (10-103a3).

☐ The operation & maintenance information meets the requirements of Part 6 (10-103c).
Please check one: (Those sections of the Business and Professions Code are printed in full in the Nonresidential Manual.)

☑ 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.

PRINCIPAL LIGHTING DESIGNERS NAME	SIGNATURE	DATE	LIC. #
THEODORE M. ROSE		11-15-07	14420

LIGHTING MANDATORY MEASURES

✓ ☑ Indicate location on plans of Note Block for Mandatory Measure SHEET #E-124

LIGHTING COMPLIANCE FORMS & WORKSHEETS (check box if worksheet is included)	
☑ LTG-1-C, Parts 1 of 4 and 2 of 4	Certificate of Compliance. Part 1 of 4 and 2 of 4 are required for all submittals
☐ LTG-1-C, Parts 3 of 4	Certificate of Compliance. Part 3 of 4 submittal is required only if Control Credits are claimed
☐ LTG-1-C, Parts 4 of 4	Certificate of Compliance. Part 4 of 4 submittal is required when lighting controls are installed
☑ LTG-2-C	Indoor Lighting Schedule
☐ LTG-3-C	Portable Lighting Worksheet
☑ LTG-4-C	Lighting Controls Credit Worksheet
☑ LTG-5-C	Indoor Lighting Power Allowance
☐ LTG-6-C	Tailored Method Worksheet
☐ LTG-7-C	Room Cavity Ratio Worksheet
☐ LTG-8-C	Common Lighting Systems Method Worksheet
☐ LTG-9-C	Line Voltage Track Lighting Worksheet
☐ OLTG-4-C	Signs (See OLTG-4-C Sign Worksheet in Chapter 6, Outdoor Lighting and Signs Chapter)

CERTIFICATE OF COMPLIANCE (Part 2 of 4) LTG-1-C

PROJECT NAME: MODERNIZATION AT CURRAN MIDDLE SCHOOL DATE: 11-15-07

INSTALLED INDOOR LIGHTING POWER FOR CONDITIONED AND UNCONDITIONED SPACES

		INSTALLED WATTS
INSTALLED LIGHTING, CONDITIONED SPACES (From LTG-2-C)		30,634
PORTABLE LIGHTING (From LTG-3-C)	+	———
LIGHTING CONTROL CREDIT, CONDITIONED SPACES (From LTG-4-C)	-	———
CONDITIONED SPACE ADJUSTED INSTALLED LIGHTING POWER	=	———
INSTALLED LIGHTING, UNCONDITIONED SPACES (From LTG-2-C)		811
LIGHTING CONTROL CREDIT, UNCONDITIONED SPACES (From LTG-4-C)	-	———
UNCONDITIONED SPACE ADJUSTED INSTALLED LIGHTING POWER	=	811

ALLOWED INTERIOR LIGHTING POWER FOR CONDITIONED SPACES

☑ COMPLETE BUILDING METHOD (from LTG-5-C)
☐ AREA CATEGORY METHOD (from LTG-5-C)
☐ TAILORED METHOD (from LTG-6-C)

	ALLOWED WATTS
ALLOWED LIGHTING POWER	54,338

ALTERNATE COMPLIANCE

☑ PERFORMANCE METHOD

☐ COMMON LIGHTING SYSTEM (from LTG-8-C)

ALLOWED INTERIOR LIGHTING POWER FOR UNCONDITIONED SPACE (From LTG-5-C) . Watts

MANDATORY LIGHTING MEASURES FOR INDOOR AND DAYLIT AREAS
MANDATORY INDOOR AND DAYLIGHTING AUTOMATIC CONTROLS

CONTROL LOCATION (Room #, Area #, or Description)	CONTROL IDENTIFICATION	CONTROL TYPE (Auto Time Switch, Dimming,Photosensor, etc.)	SPACE CONTROLLED Lists the location of controlled lights	✓ If Control is for Daylighting	NOTE TO FIELD
X		X	X		X

LIGHTING MANDATORY MEASURES

X BUILDING LIGHTING SHUT-OFF

a. THE BUILDING LIGHTING SHUT-OFF SYSTEM CONSISTS OF AN AUTOMATIC TIME SWITCH WITH A ZONE FOR EACH FLOOR OR OCCUPANCY SENSORS.

X OVERRIDE FOR BUILDING LIGHTING SHUT-OFF

THE AUTOMATIC BUILDING LIGHTING SHUT-OFF SYSTEM IS PROVIDED WITH A MANUALLY OPERATED OVERRIDE SWITCH IN SIGHT OF THE LIGHTS. THE AREA OF OVERRIDE SHALL NOT EXCEED 5,000 SQUARE FEET.

X AUTOMATIC CONTROL DEVICES CERTIFIED

ALL AUTOMATIC CONTROL DEVICES SPECIFIED ARE CERTIFIED, ALL ALTERNATE EQUIPMENT SHALL BE CERTIFIED AND INSTALLED AS DIRECTED BY THE MANUFACTURER.

X FLUORESCENT BALLASTS AND LUMINAIRES CERTIFIED

ALL FLUORESCENT LAMP BALLASTS AND LUMINAIRES WITH FLUORESCENT LAMP BALLASTS SPECIFIED ARE CERTIFIED AND LISTED IN THE DIRECTORY OF CERTIFIED LUMINAIRES AND BALLASTS.

X TANDEM WIRING FOR TWO LAMP BALLASTS

a. ALL ONE AND THREE LAMP FLUORESCENT FIXTURES SHALL BE TANDEM WIRED WITH TWO LAMP BALLASTS WHERE REQUIRED BY STANDARDS #132; OR

b. ALL FLUORESCENT FIXTURES WHICH ARE SPECIFIED WITH ELECTRONIC HIGH-FREQUENCY BALLASTS ARE EXEMPT FROM THE TANDEM WIRING REQUIREMENTS.

X INDIVIDUAL ROOM/AREA CONTROLS

EACH ROOM AND AREA IN THIS BUILDING SHALL BE EQUIPPED WITH A SEPARATE SWITCH OR OCCUPANCY SENSOR DEVICE FOR EACH AREA WITH CEILING HEIGHT PARTITIONS.

X UNIFORM REDUCTION FOR INDIVIDUAL ROOMS

ALL ROOMS AND AREAS 100 SQUARE FEET OR GREATER AND MORE THAN 1.2 WATTS PER SQUARE FOOT OF LIGHTING LOAD SHALL BE CONTROLLED WITH BI-LEVEL SWITCHING FOR UNIFORM REDUCTION OF LIGHTING WITHIN THE ROOM.

X DAYLIT AREA CONTROL

a. ALL ROOMS WITH WINDOWS AND SKYLIGHTS, THAT ARE GREATER THAN 250 SQUARE FEET, AND THAT ALLOW FOR THE EFFECTIVE USE OF DAYLIGHT IN THE AREA SHALL HAVE 50% OF THE LAMPS IN EACH DAYLIT AREA CONTROLLED BY A SEPARATE SWITCH; OR

b. THE EFFECTIVE USE OF DAYLIGHTING CONTROLS CANNOT BE ACCOMPLISHED BECAUSE THE WINDOWS ARE CONTINUOUSLY SHADED BY A BUILDING ON THE ADJACENT LOT. DIAGRAM OF SHADING DURING DIFFERENT TIMES OF YEAR IS INCLUDED ON PLANS.

X CONTROL OF EXTERIOR LIGHTS

EXTERIOR MOUNTED FIXTURES THAT ARE SERVED FROM THE ELECTRICAL PANEL INSIDE THE BUILDING ARE CONTROLLED WITH A DIRECTIONAL PHOTO CELL OR AN ASTRONOMICAL TIME SWITCH THAT TURNS OFF THE EXTERIOR LIGHTING WHEN DAYLIGHT IS AVAILABLE.

NA DISPLAY LIGHTING

DISPLAY LIGHTING SHALL BE SEPARATELY SWITCHED ON CIRCUITS THAT ARE 20 AMPS OR LESS.

CERTIFICATE OF COMPLIANCE (Part 4 of 4) LTG-1-C

PROJECT NAME: MODERNIZATION AT CURRAN MIDDLE SCHOOL DATE: 11-15-07

Designer:

This form is to be used by the designer and attached to the plans. Listed below are all the acceptance tests for lighting systems. The designer is required to check the boxes by all acceptance tests that apply and list all equipment that require an acceptance test. If all equipment of a certain type requires a test, list the equipment description and the number of systems to be tested in parenthesis. The NJ number designates the Section in the Appendix of the Nonresidential ACM Manual that describes the test. Also indicate the person responsible for performing the tests (i.e. the installing contractor, design professional or an agent selected by the owner). Since this form will be part of the plans, completion of this section will allow the responsible party to budget for the scope of work appropriately.

Building Departments:

Systems Acceptance. Before an occupancy permit is granted for a newly constructed building or space, or a new space-conditioning system serving a building or space is operated for normal use, all control devices serving the building or space shall be certified as meeting the Acceptance Requirements for Code Compliance. In addition a Certificate of Acceptance, LTG-1-A, Forms shall be submitted to the building department that:

A Certifies plans, specifications, installation certificates, and operating and maintenance information meet the requirements of § 10-103(b) and Title 24 Part 6.

Test Description	Test Performed By:
☑ LTG-2-A: Lighting Control Acceptance Document - Occupancy Sensor Acceptance - Manual Daylight Controls Acceptance - Automatic Time Switch Control Acceptance Equipment requiring acceptance testing: OCCUPANCY SENSOR WALL SWITCHES AND CEILING MT'D OCCUPANCY SENSORS	ELECTRICAL CONTRACTOR
☐ LTG-3-A: Automatic Daylighting Controls Document Equipment requiring acceptance testing:	

INDOOR LIGHTING SCHEDULE (Part 1 of 2) LTG-2-C

PROJECT NAME: MODERNIZATION AT CURRAN MIDDLE SCHOOL DATE: 11-15-07

INSTALLED LIGHTING POWER FOR CONDITIONED SPACES

Luminaire A: Name	Luminaire B: Type Description	Lamps/Ballasts C: Lamp Type	D: Number of Lamps per Luminaire	E: Watts per Lamp	F: Number of Ballasts per Luminaire	Installed Watts G: Watts per Luminaire	H: ✓ if ESC Default	I: Number of Luminaires	J: Installed Watts (G x I)
A	SUSPENDED	T8	6	32	1	146	✓	132	19,272
A2	SUSPENDED	T8	3	32	1	73		5	365
B	T-BAR TROFFER	T8	4	32	1	93		2	186
C	SURFACE DRUM	T4	2	13	1	30		4	120
D	SURFACE WRAP	T8	2	32	1	47		47	2,209
E	SURFACE WRAP	T8	2	32	1	47		76	3,512
G	SURFACE OPEN STRIP	T8	1	32	1	25		1	25
H	SURFACE WRAP	T8	2	32	1	47		22	1,034
Q	SURFACE WRAP	T8	2	32	1	47		33	1,551
EX	RECESSED 3 U LAMP	T8	3	32	1	92		25	2,300

PAGE TOTAL	+	30,634
BUILDING TOTAL (sum of all pages)	+	———
PORTABLE LIGHTING (From LTG-3-C)	+	———
CONTROL CREDIT (from LTG-4-C)	+	———
ADJUSTED ACTUAL WATTS	=	.

INDOOR LIGHTING POWER ALLOWANCE LTG-5-C

PROJECT NAME: MODERNIZATION AT CURRAN MIDDLE SCHOOL DATE: 11-15-07

ALLOWED LIGHTING POWER (Choose One Method)

COMPLETE BUILDING METHOD - CONDITIONED SPACES

BUILDING CATEGORY (FROM § 146 Table 146-B)	WATTS PER (ft^2)	COMPLETE BLDG. AREA	ALLOWED WATTS
SCHOOL	1.2	49,449	54,338

AREA CATEGORY METHOD - CONDITIONED SPACES

A: AREA CATEGORY (From §146 Table 146-C)	B: WATTS PER (ft^2)	C: AREA (ft^2)	D: ALLOWED WATTS
.	.	.	.
TOTALS		.	.
		AREA	WATTS

TAILORED METHOD - CONDITIONED SPACES

TOTAL ALLOWED WATTS (From LTG-6-C)	.

UNCONDITIONED SPACES

A: Complete Building and Area Category Methods CATEGORY (From § 146 Table 146-B & C)	B: WATTS PER (ft^2)	C: AREA (ft^2)	D: ALLOWED WATTS
ELECTRICAL ROOMS, STORAGE	0.6	811	522
TOTALS		811	522
		AREA	WATTS

TAILORED METHOD - UNCONDITIONED SPACES

TOTAL UNCONDITIONED SPACES ALLOWED WATTS (From LTG-5-C and LTG-6-C)	.

APPROVED
DIV. OF THE STATE ARCHITECT
LOS ANGELES BASIN REGIONAL OFFICE
AC ___ FLS EV SS RO
APPL NO. 03 107003 DATE FEB 10 2010

ORDIZ MELBY ARCHITECTS, INC.
5500 MING AVENUE SUITE 280
BAKERSFIELD, CALIFORNIA 93309
TELEPHONE (661) 832-5258
FACSIMILE (661) 832-4291

LICENSED ARCHITECT DANNY E. ORDIZ No. C-14728 EXPIRES 5-31-2011 DATE STATE OF CALIFORNIA

LICENSED ARCHITECT WILLIAM JOHN MELBY No. C-16835 DEC 31 2007 RENEWAL DATE STATE OF CALIFORNIA

DANNY E. ORDIZ, AIA
ARCHITECT C-14,728

WILLIAM J. MELBY, AIA
ARCHITECT C-16,835

CONSULTANT

REGISTERED PROFESSIONAL ENGINEER THEODORE M. ROSE No. E-14420 Exp. 6/30/11 ELECTRICAL STATE OF CALIFORNIA

Rose Sing and Associates, Inc.
Electrical Consultants
131 S. Dunworth – (559)733-2671
Visalia, California 93292-6705

IDENTIFICATION STAMP
DIVISION OF STATE ARCHITECT
OFFICE OF REGULATION SERVICES
APPL 03-107003
FILE # 15-6
AC ___ FLS ___ SS ___
DATE ___

MODERNIZATION AT CURRAN MIDDLE SCHOOL FOR:

BAKERSFIELD CITY SCHOOL DISTRICT

1116 LYMRIC WAY
BAKERSFIELD
CALIFORNIA
93309

MARK	DATE	DESCRIPTION

JOB NUMBER: 2002480
CAD DRAWING FILE: .
DRAWN BY: ES
CHECKED BY: TWR

CHECK AND VERIFY ALL DIMENSIONS BEFORE PROCEEDING WITH THE WORK. REPORT DESCREPANCIES TO THE ARCHITECT.

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SHEET TITLE

TITLE 24 (INTERIOR)

SHEET IDENTIFICATION NUMBER

AE-124

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