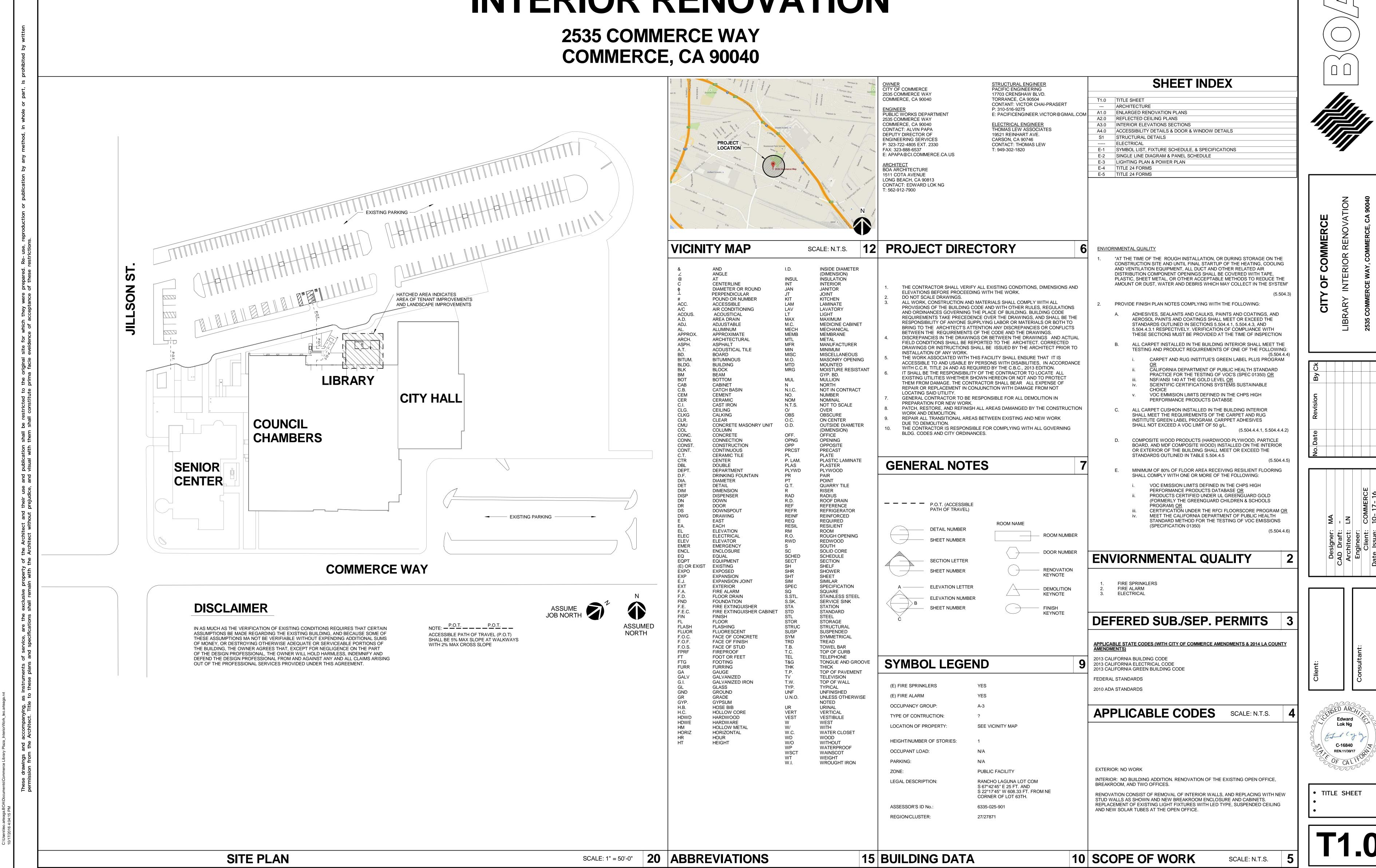
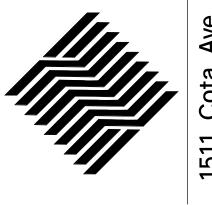
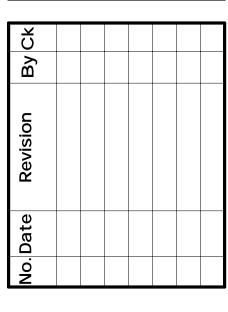
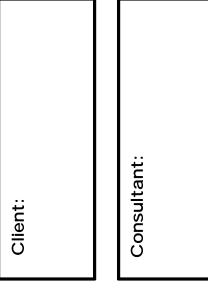
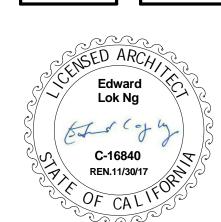
CITY OF COMMERCE ROSEWOOD NEIGHBORHOOD LIBRARY INTERIOR RENOVATION

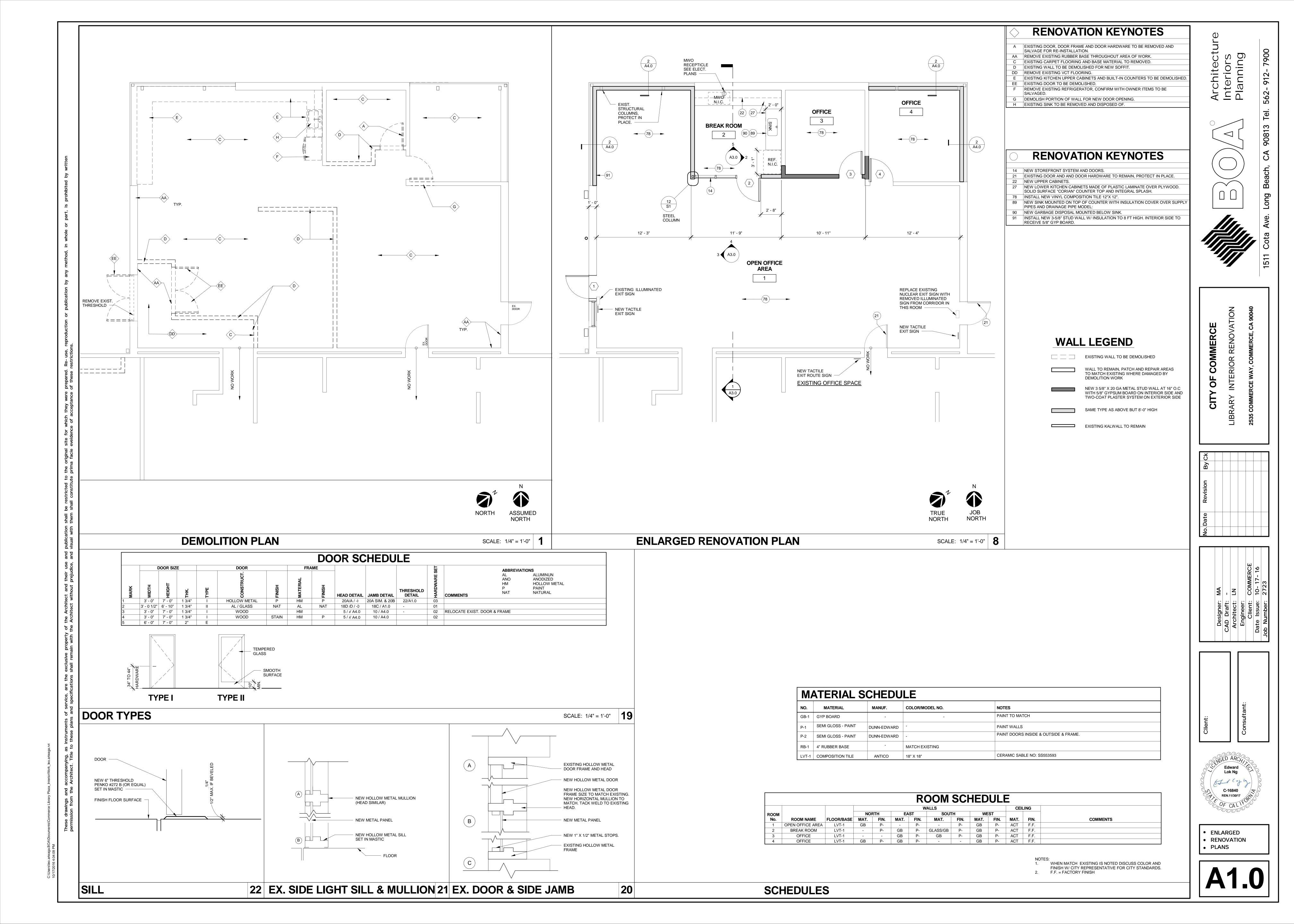


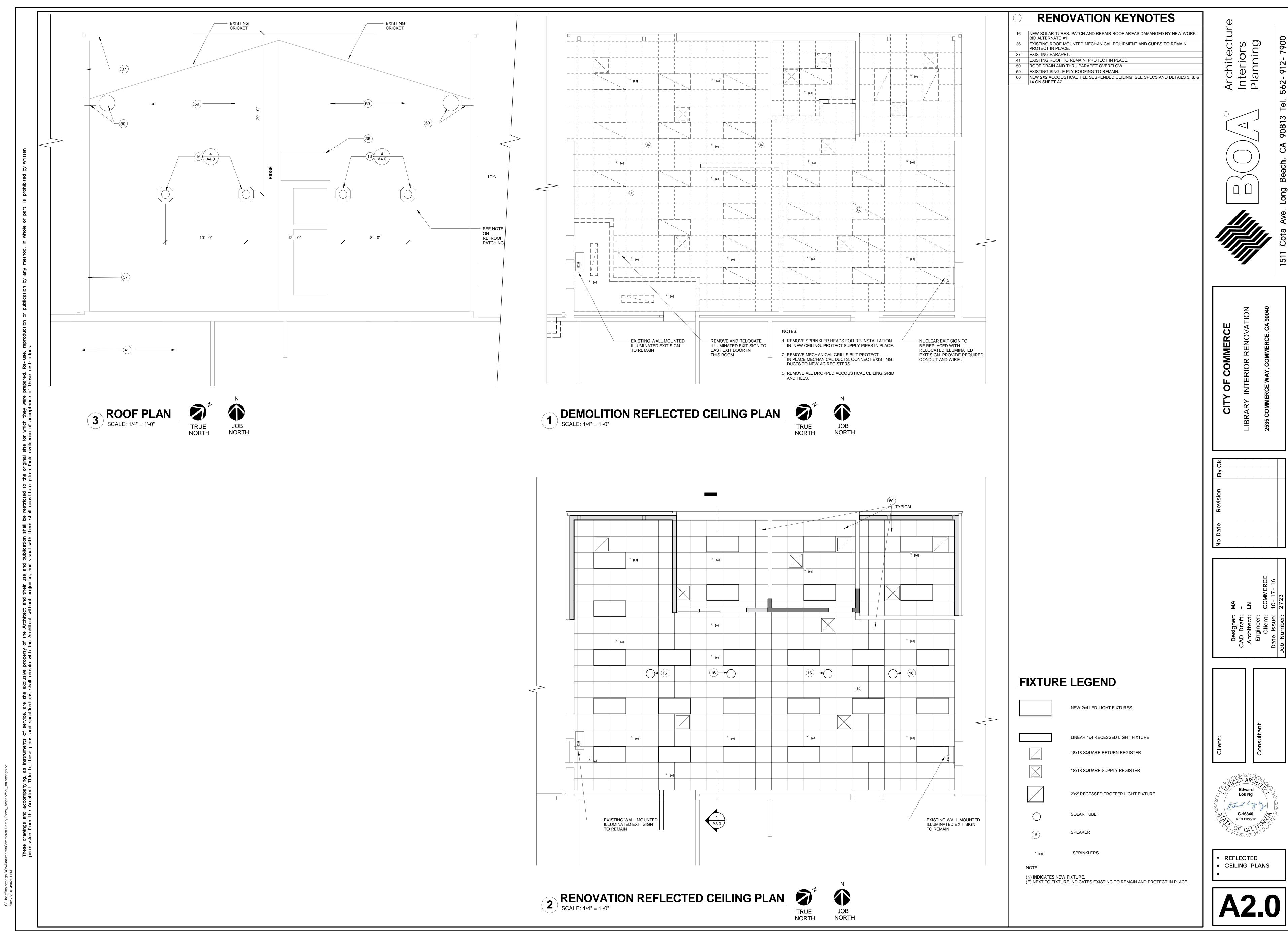


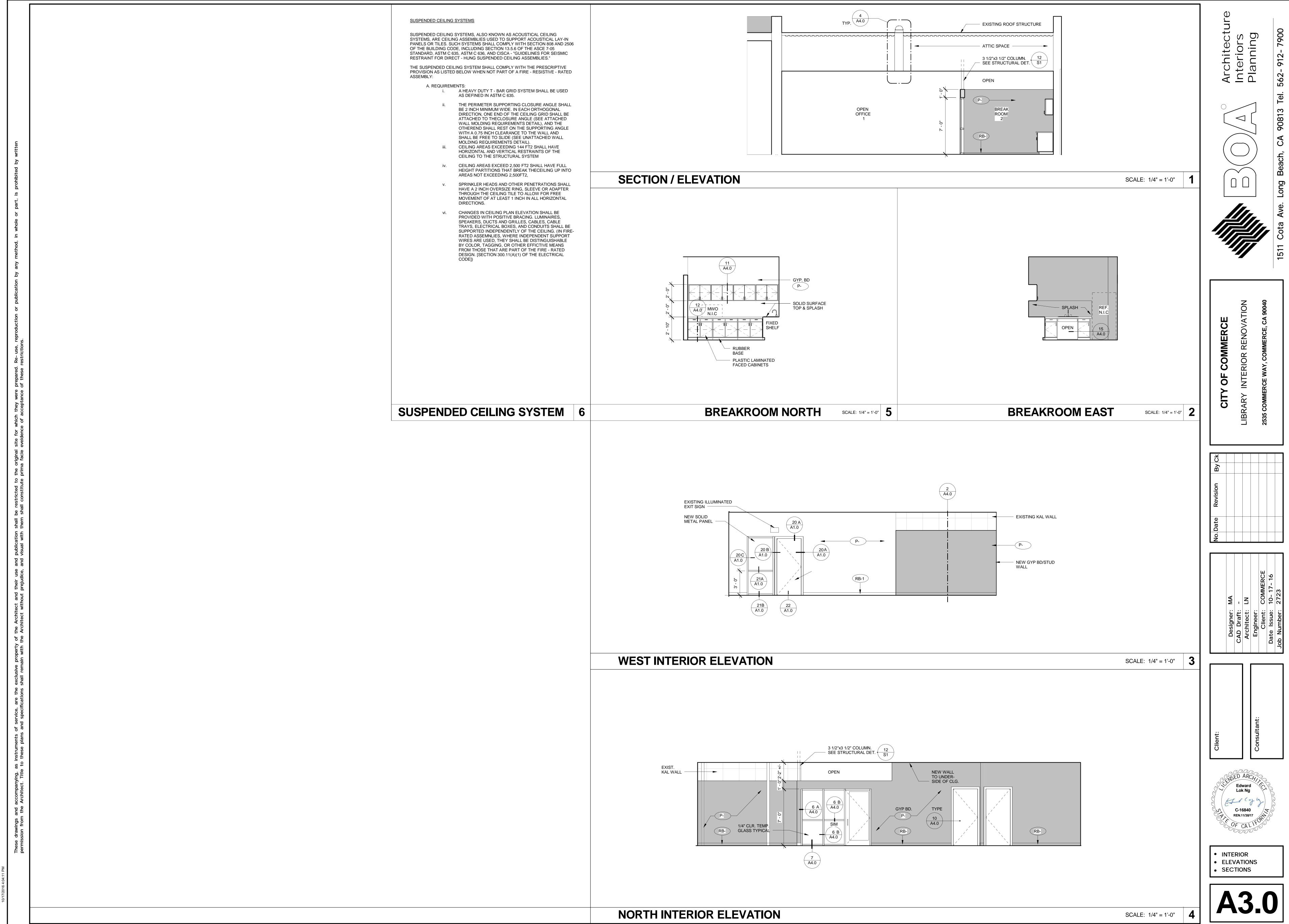


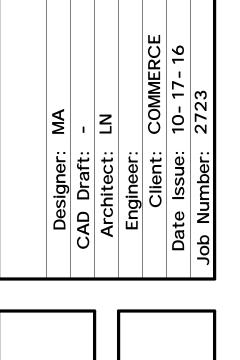


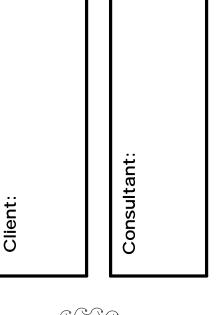












SECTION 803 803.1 General. The provisions of this section shall limit the allowable fire performance and smoke development of interior wall and ceiling finishes and interior wall and ceiling trim in existing buildings based on location and occupancy classification. Interior wan and ceiling finishes shall be classified in accordance with Section 803 of the California Building Code. Such materials shall be grouped in accordance with ASTM E 84, as indicated in Section 803.1.1, or in accordance with NFPA 286, as

1. Materials having a thickness less than 0.036 inch (0.9 mm) applied directly to the surface of walls 2. Exposed portions of structural members complying with the requirements of buildings of Type IV construction in accordance with the California Building Code shaH not be subject to interior finish

803.1.1 Classification in accordance with ASTM E 84. Interior finish materials shaH be grouped in the following classes in accordance with their flame spread and smokedeveloped index when tested in accordance with ASTM E84. Class A: flame spread index 0-25; smoke-developed index 0-450.

Class B: flame spread index 26-75; smoke-developed index 0-450.

Class C: flame spread index 76-200; smoke-developed index 0-450. 803.1.2 Classification in accordance with NFPA 286. Interior wall or finishes shall be allowed to be tested in accordance with NFP A 286. Finishes tested in accordance with NFP A 286 shall comply with Section 803.1.2.1. Interior wall and ceiling finish materials tested in accordance with NFP A 286 and meeting the acceptance criteria of Section 803.1.2.1 shall be allowed to be used where a Class A classification in accordance with ASTM E 84 is required

803.1.2.1 Acceptance criteria for NFP A 286. The interior finish shall comply with the following: 1. During the 40 kW exposure, flames shall not spread to the ceiling. 2. The flame shall not spread to the outer extremity of the sample on any wall or

4. The peak heat release rate throughout the test shall not exceed 800 kW.

5. The total smoke released throughout the test shall not exceed 1,000 m2. 803.2 Stability. Interior finish materials regulated by this chapter shall be applied Of otherwise fastened in such a manner that such materials will not readily become detached where subjected to room temperatures of 2000 P (93°C) for not less than 30 minutes. **803.3 Interior finish requirements based on occupancy.** Interior wall and ceiling finish shall have a flame spread index not greater than that specified in Table 803.3 for the group and location designated. **803.4 Fire-retardant coatings**. The required flame spread or smoke-developed index of surfaces in existing buildings shall be allowed to be achieved by application of approved fireretardant coatings, paints or solutions to surfaces having a flame spread index exceeding that allowed. Such applications shall comply with NFP A 703 and the required fire-retardant properties shall be maintained or renewed in accordance with the manufacturer's instructions. 803.5 Textiles. Where used as interior wall or ceiling finish materials, textiles, including materials having woven or nonwoven, napped, tufted, looped or similar surface, shall comply with the

3. Flashover, as defined in NFPA 286, shall not occur.

requirements of this section. 803.5.1 Textile wall or ceiling coverings. Textile wall or ceiling coverings shall comply with one of 1. The wall or ceiling covering shall have a Class A flame spread index in accordance with ASTM E 84 or UL 723, and be protected by automatic sprinklers installed in accordance with Section 903.3.1.1 or 903.3.1.2;

2. The wall covering shall meet the criteria of Section 803.5.1.1 or 803.5.1.2 when tested in the manner intended for use in accordance with NFP A 265 using the product-mounting system, including adhesive, of actual use; or 3. The wall or ceiling covering shall meet the criteria of Section 803.1.2.1 when tested in accordance with NFPA 286 using the product-mounting system, including adhesive, of

803.5.1.1 Method A test protocol. During the Method A protocol, flame shall not spread to the ceiling during the 40-kW exposure. During the 150-kW exposure, the textile wa]] covering shall comply with all of the following:

1. Flame shall not spread to the outer extremity of the sample on the 8-foot by 12-foot (203 mm by 305 mm) wall. 2. The specimen shall not burn to the outer extremity of the 2-foot-wide (610 mm) samples mounted in the corner of the room. 3. Burning droplets deemed capable of igniting textile wall coverings or that burn for 30 seconds or more shall not fornl.

4. Flashover, as defined in NFPA 265, shall not occur. 5. The maximum net instantaneous peak heat release rate, determined by subtracting the burner output from the maximum heat release rate, does not exceed 300 kW. **803.5.1.2 Method B test protocol.** During the Method B protocol, the textile wall covering or expanded vinyl wall covering shall comply with the following:

1. During the 40-kW exposure, flames shall not spread to the ceiling. 2. The Harne shall not spread to the outer extremities of the samples on the 8-foot by 12-3. Flashover, as defined in NFPA 265, shall not occur.

4. For newly introduced wall and ceiling coverings, the total smoke released throughout the test shall not exceed 1,000 803.5.2 Newly introduced textile wall and ceiling coverings. Newly introduced textile wall and ceiling coverings shall comply with one of the following: 1. The wall or ceiling covering shall have a Class A flame spread index in accordance with ASTM E 84 or UL 723, and be protected by automatic sprinklers installed in accordance with Section 903.3.1.1 or 903.3.1.2. Test specimen preparation and mounting shall be in

accordance with ASTM E 2404. 2. The wall covering shall meet the criteria of Section 803.5.1.2 when tested in the manner intended for use in accordance with NFPA 265 using the productmounting system (including adhesive) of actual use. 3. The wall or ceiling covering shall meet the criteria of Section 803.1.2.1 when tested in accordance with NFPA 286 using the product-mounting system (including adhesive) of

803.6 Expanded vinyl wall or ceiling coverings. Expanded vinyl wall or ceiling coverings shall comply with one of the following: 1. The wall or ceiling covering shall have a Class A flame spread index in accordance with ASTM E 84 or UL 723, and be protected by automatic sprinklers installed in accordance with Section 903.3.1.1 or 903.3.1.2. Test specimen preparation and mounting shall be in accordance with ASTM E 2404. 2. The wall covering shall meet the criteria of Section 803.5.1.2 when tested in the

manner intended for use in accordance with NFPA 265 using the product-mounting system (including adhesive) of actual use. 3. The wall or ceiling covering shall meet the criteria of Section 803.1.2.1 when tested in accordance with NFPA 286 using the product-mounting system (including adhesive) of actual use.

803.7 Foam plastic materials. Foam plastic materials shall not be used as interior wall and ceiling finish unless specifically allowed by Section 803.7.1 or 803.7.2. Foam plastic materials shall not be used as interior trim unless specifically allowed by Section 803.7.3. 803.7.1 Combustibility characteristics. Foam plastic materials shall be allowed on the basis of fire tests that substantiate their combustibility characteristics for the use intended under actual fire conditions, as indicated in Section 2603.10 of the California Building Code. This section shall apply both to exposed foam plastics and to foam plastics used in conjunction with a textile or vinyl facing or 803.7.2 Thermal barrier. Foam plastic material shall be allowed if it is separated from the interior of

the building by a thermal barrier in accordance with Section 2603.4 of the California Building Code. **803.7.3 Trim.** Foam plastic shall be allowed for trim in accordance with Section 804.2. 803.8 High-density polyethylene (HDPE) and polypropylene (PP). Where high-density polyethylene or polypropylene is used as an interior finish it shall comply with Section 803.1.2. 803.9 Site-fabricated stretch systems. Where used as newly installed interior wall or interior ceiling finish materials, sitefabricated stretch systems containing all three components described in the definition in Section 802 shall be tested in the manner intended for use, and shall comply with the requirements of Section 803.1.1 or 803.1.2. If the materials are tested in accordance with ASTM E 84

preparation and mounting shall be in accordance with ASTM E 2573. **803.10 Unframed rigid combustible decorative material.** Rigid combustible decorative material and assemblies of materials not more than 1/4 inch in thickness used for folding doors, room dividers decorative screens and similar applications, which do not create concealed spaces and which are installed with exposed edges, shall be flame resistant in accordance with SFM Standard 12-7-5 contained in Title 24.

Part 12, California Referenced Standards Code. **803.10.1 Framed rigid combustible decorative material.** Rigid combustible decorative material and assemblies of materials not more than 1/4 inch in thickness used for folding doors, room dividers, decorative screens and similar applications, and which are installed with all edges protected, shall conform to SFM Standard 12-7-5 contained in Title 24, Part 12, California Referenced Standards Code.

SECTION 804

or UL 723, specimen

804.1 Interior trim. Material, other than foam plastic, used as interior trim in new and existing buildings shall have minimum Class B flarne spread and 450 smoke-developed index in Group [-3 and for all other occupancies Class C flame spread and smoke-developed indices, when tested in accordance with ASTM E 84 or UL 723, as described in Section 803.1.1. Combustible trim, excluding handrails and guardrails, shall not exceed 10 percent of the specific wall or ceiling areas to which it is attached. **804.1.1 Alternative testing.** When the interior trim material has been tested as an interior finish in accordance with NFP A 286 and complies with the acceptance criteria in Section 803.1.2.1, it shall not be required to be tested for flame spread index and smoke-developed index in accordance with ASTM E

804.2 Foam plastic. Foam plastic used as interior trim shall comply with Sections 804.2.1 through 804.2.1 Density. The minimum density of the interior trim shall be 20 pounds per cubic foot (320 kg/m3). 804.2.2 Thickness. The maximum thickness of the interior trim shall be 1/2 inch (12.7 mm) and the maximum width shall be 8 inches (203 mm). 804.2.3 Area limitation. The interior trim shall not constitute more than 10 percent of the specific wall or ceiling area to which it is attached 804.2.4 Flame spread. The flame spread index shall not exceed 75 where tested in accordance with ASTM E 84 or UL 723. The smoke-developed index shall not be limited. Exception: When the interior trim material has been tested as an interior finish in accordance with NFP A 286 and complies with the acceptance criteria in Section 803.1.2.1, it shall not be required to be tested for flame spread index in accordance with ASTM E 84 or

804.3 New interior floor finish. New interior floor finish and floor covering materials in new and existing buildings shall comply with Sections 804.3.1 through 804.3.3.2. **Exception:** Floor finishes and coverings of a traditional type, such as wood, vinyl, linoleum or terrazzo, and resilient floor covering materials that are not comprised of fibers. **804.3.1 Classification.** Interior floor finish and floor covering materials required by Section 804.3.3.2 to be of Class I or II material s shall be classified in accordance with NFPA 253. The classification referred to herein corresponds to the classifications determined by NFPA 253 as follows: Class I, 0.45 watts/cm2 or greater; Class II, 0.22 watts!cm2 or greater. 804.3.2 Testing and identification. Interior floor finish and floor covering materials shall be tested by

an approved agency in accordance with NFP A 253 and identified by a hang tag or other suitable method so as to identify the manufacturer or supplier and style, and shall indicate the interior floor finish or floor covering classification according to Section 804.3.1. Carpet-type floor coverings shall be tested as proposed for use, including underlayment. Test reports confirming the information provided in the manufacturer's product identification shall be furnished to the fire code official upon request. 804.3.3 Interior floor finish requirements. New interior floor coverings materials shall comply with Sections 804.3.3.1 and 804.3.3.2, and interior floor finish materials shall comply with Section 804.3.1. **804.3.3.1 Pill test.** In all occupancies, new floor covering materials shall comply with the requirements of the DOC FF-I "pill test" (CPSC 16 CFR Part 1630) or of ASTMD 2859.

804.3.3.2 Minimum critical radiant flux. In all occupancies, new interior floor finish and floor covering materials in enclosures for stairways and ramps, exit passageways, conidors and rooms or spaces not separated from corridors by full-height partitions extending from the floor to the underside of the ceiling shall withstand a minimum critical radiant flux. The minimum critical radiant flux shall not be less than Class I in Groups 1-1, 1-2 and 1-3 and not less than Class II in Groups A, B, H, 1-4, M, R-I, R-2

Exception: Where a building is equipped throughout with an automatic sprinkler system in accordance with Section 903.3.1.1 or 903.3.1.2, Class II materials shall be permitted in any area where Class I materials are required and materials complying with DOC FF-I "pill test" (CPSC 16 CFR Part 1630) or with ASTM D 2859 shall be permitted in any area where Class II materials are required. **804.4 Interior floor-wall base.** Interior floor-waH base that is 6 inches (152 mm) or less in height shall be tested in accordance with NFPA 253 and shall not be less than Class II. Where a Class I floor finish is required, the floor-wall base shaH be Class I. The classification referred to herein corresponds to the classifications determined by NFPA 253 as follows: Class I, 0.45 watt/cm2 or greater; Class II, 0.22 watts/cm2 or greater.

Exception: Interior him materials that comply with Section 804.1.

SECTION 1006

[B] 1006.1 Illumination required. The means of egress, including the exit discharge, shall be illuminated at all times the building space served by the means of egress is occupied. Occupancies in Group U.

2. Aisle accessways in Group A. 3. Dwelling units and sleeping units in Groups R-I, R-2 and R-3. 4. Sleeping units of Group I, R-2.1 and R-4 occupancies.

[B] 1006.2 Illumination level. The means of egress illumination level shall not be less than 1 footcandle (11 lux) at the walking surface. Exception: For auditoriums, theaters, concert or opera halls and similar assembly occupancies. the illumination at the walking surface is permitted to be reduced during per-formances to not less than 0.2 footcandle (2.15 lux), provided that the required illumination is automatically restored upon activation of a premises' fire alarm system where such system is provided.

[B] 1006.3 Emergency power for illumination. The power supply for means of egress illumination shall normally be provided by the premises' electrical supply. In the event of power supply failure, an emergency electrical system shall automatically illuminate all of the following

1. Aisles and unenclosed egress stairways in rooms and spaces that require two or more

2. Corridors, interior exit stairways and ramps and exit passageways in buildings required 3. Exterior egress components at other than their levels of exit discharge until exit is accomplished for buildings required to have two or more exits. 4. Interior exit discharge elements, as permitted in Section 1027.1, in buildings required to

5. Exterior landings as required by Section 1008.1.6 for exit discharge doorways in

The emergency power system shall provide power for a duration of not less than 90 minutes and shall consist of storage batteries, unit equipment or an on-site generator. The installation of the emergency power system shall be in accordance with Section 604. [B] 1006.3.1 Illumination level under emergency power. Emergency lighting facilities shall be arranged to provide initial illumination that is at least an average of 1 footcandle (11 lux) and a minimum at any point of 0.1 footcandle (1 lux) measured along the path of egress at floor level. Illumination levels shall be permitted to decline to 0.6 footcandle (6 lux) average and a minimum at any point of 0.06 footcandle (0.6 lux) at the end of the emergency lighting time duration. A maximum-to-minimum illumination uniformity ratio of 40 to 1 shall not be exceeded.

SECTION 1008

buildings required to have two or more exits.

means of egress.

[B] 1008.1.9 Door operations. Except as specifically permitted by this section egress doors shall be readily openable from the egress side without the use of a key or special knowledge or effort. [B] 1008.1.9.1 Hardware. Door handles, pulls, latches, locks and other operating devices on doors required to be accessible by Chapter IIA or 11 B of the California Building Code shall not require tight grasping, tight pinching or twisting of the wrist to operate. These design requirements for door handles, pulls, latches, locks and other operating devices, intended for use on required means of egress doors in other than Group Rand M occupancies with an occupant load of 10 or less, shall comply with California Code of Regulations, Title 24, Part 12, SFM Standard 12-

[B] 1008.1.9.2 Hardware height. Door handles, pulls, latches, locks and other operating devices shall be installed 34 inches (864 mm) minimum and 48 inches (1219 mm) maximum above the finished floor. Locks used only for security purposes and not used for normal operation are permitted at any height. **Exception:** Access doors or gates in barrier walls and fences protecting pools, spas and hot tubs shall be permitted to have operable parts of the release of latch on self-latching devices at 54 inches (1370 mm) maximum above the finished floor or ground, provided the self-latching devices are not a1so selflocking devices operated by means of a key, electronic opener or integral combination lock. [B] 1008.1.9.3 Locks and latches. Locks and latches shall be permitted to prevent

operation of doors where any of the following exists: . Places of detention or restraint. 2. In buildings in occupancy Group A having an occupant load of 300 or less, Groups B, F, M and S, and in places of religious worship, the main exterior door or doors are permitted to be equipped with key-operated locking devices from the egress side provided:

2.1. The locking device is readily distinguishable as locked; 2.2. A readily visible durable sign is posted on the egress side on or adjacent to the door stating: THIS DOOR TO REMAIN UNLOCKED WHEN BUILDING IS OCCUPIED. The sign shall be in letters I-inch (25 mm) high on a contrasting

2.3. The use of the key-operated locking device is revokable by the fire code official tor due cause 3. Where egress doors are used in pairs, approved automatic flush bolts shall be permitted to be used, provided that the door leaf having the automatic flush bolts has no doorknob or surfacemounted hardware. 4. Doors from individual dwelling or sleeping units of Group R occupancies having an occupant load of 10 or less are permitted to be equipped with a night latch, dead bolt or security chain, provided such devices are open able from the inside

without the use of a key or tool. 5. Fire doors after the minimum elevated temperature has disabled the unlatching mechanism in accordance with listed fire door test procedures.

TABLE 803.3

			SPRINKLERED'		NC	NSPRINKLERED	
	GROUP	Interior exit stairways and interior exit ramps and exit passageways*,b	Corridors and enclosure for exit access stairways and exit access ramps	Rooms and enclosed spaces ^c	Interior exit stairways and interior exit ramps and exit passageways*.5	Corridors and enclosure for exit access stairways and exit access ramps	Rooms and enclosed spaces ^c
	A-1 & A-2	В	В	С	A	A ^d	Be
Г	A-3f, A-4, A-5	В	В	C	A	A ^d	C
I	3, E, M, R-1, R-4	В	C	C	A	В	C
Г	F	С	С	С	В	C	С
F	Н	В	В	C ^g	A	A	В
Г	I-2, I-2.1	В	В	Bh, i	A	A	В
	I-3	A	Ai	В	NP	NP	NP
Т	I-4	В	В	Bh, i	A	A	В
	R-2	C	С	C	В	В	C
Г	R-2.1	В	С	С	A	В	В
Г	R-3, R-3.1	С	С	С	С	С	С
T	S	С	С	С	В	В	С
Г	U		No Restrictions		N N	lo Restrictions	

For SI: 1 inch = 25.4 mm, 1 square foot = 0.0929 m^2 .

NP=Nor Permitted [SFM]

a. Class C interior finish materials shall be allowed for wainscoting or paneling of not more than 1,000 square feet of applied surface area in the grade lobby where applied directly to a noncombustible base or over furring strips applied to a noncombustible base and fireblocked as required by Section 803.11 of the b. In exit enclosures of buildings less than three stories in height of other than Group I-3, Class B interior finish for nonsprinklered buildings and Class C for

sprinklered buildings shall be permitted. c. Requirements for rooms and enclosed spaces shall be based upon spaces enclosed by partitions. Where a fire-resistance rating is required for structural elements, the enclosing partitions shall extend from the floor to the ceiling. Partitions that do not comply with this shall be considered as enclosing spaces and the rooms or spaces on both sides shall be considered as one. In determining the applicable requirements for rooms and enclosed spaces, the specific

occupancy thereof shall be the governing factor regardless of the group classification of the building or structure. d. Lobby areas in Group A-1, A-2 and A-3 occupancies shall not be less than Class B materials.

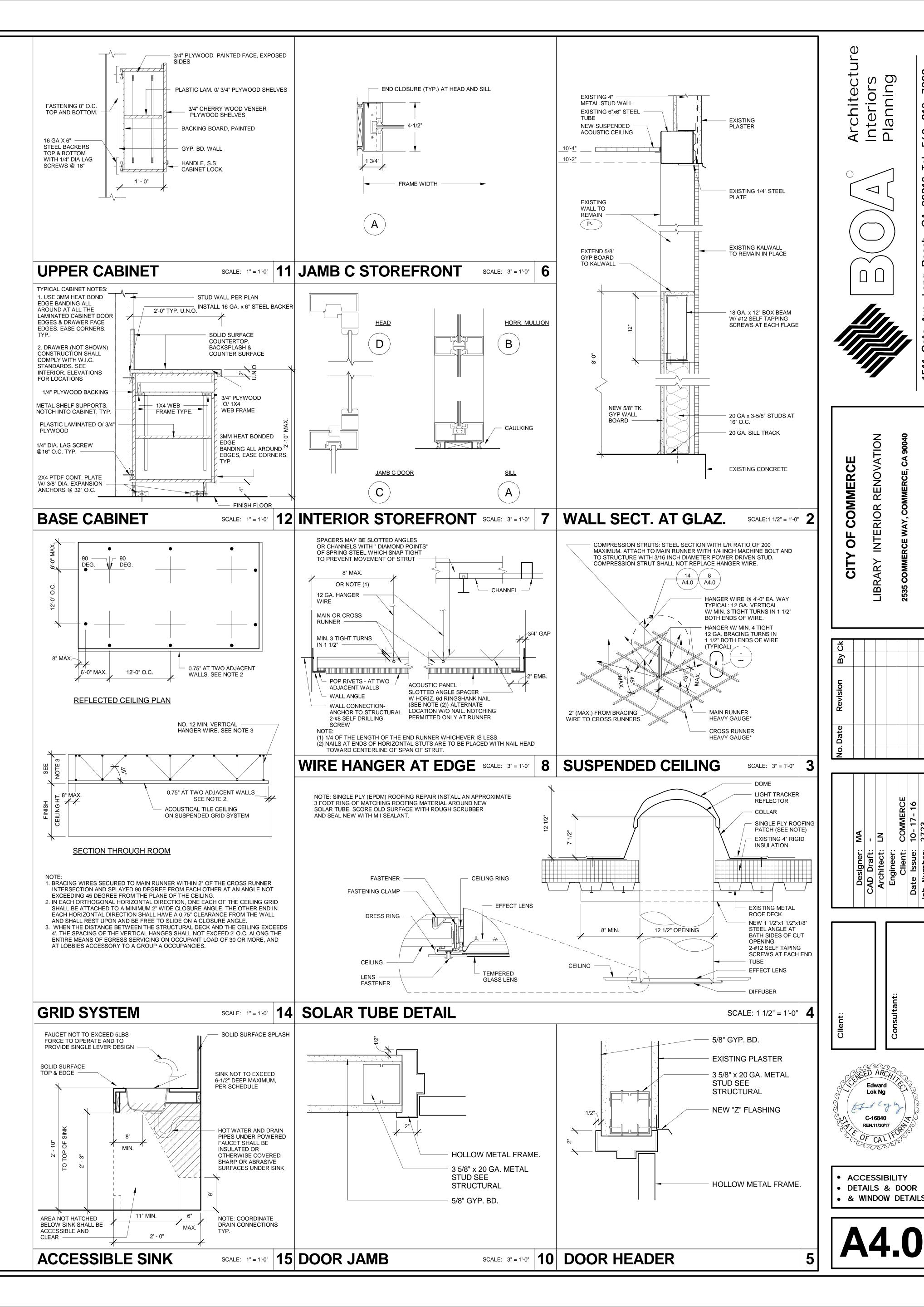
 Class C interior finish materials shall be allowed in Group A occupancies with an occupant load of 300 persons or less. f. In places of religious worship, wood used for ornamental purposes, trusses, paneling or chancel furnishing shall be allowed.

g. Class B material is required where the building exceeds two stories. h. Class C interior finish materials shall be allowed in administrative spaces.

 Class C interior finish materials shall be allowed in rooms with a capacity of four persons or less. Class B materials shall be allowed as wainscoting extending not more than 48 inches above the finished floor in corridors.

Finish materials as provided for in other sections of this code.

1. Applies when the vertical exits, exit passageways, corridors or rooms and spaces are protected by an approved automatic sprinkler system installed in accordance with Section 903.3.1.1 or 903.3.1.2.

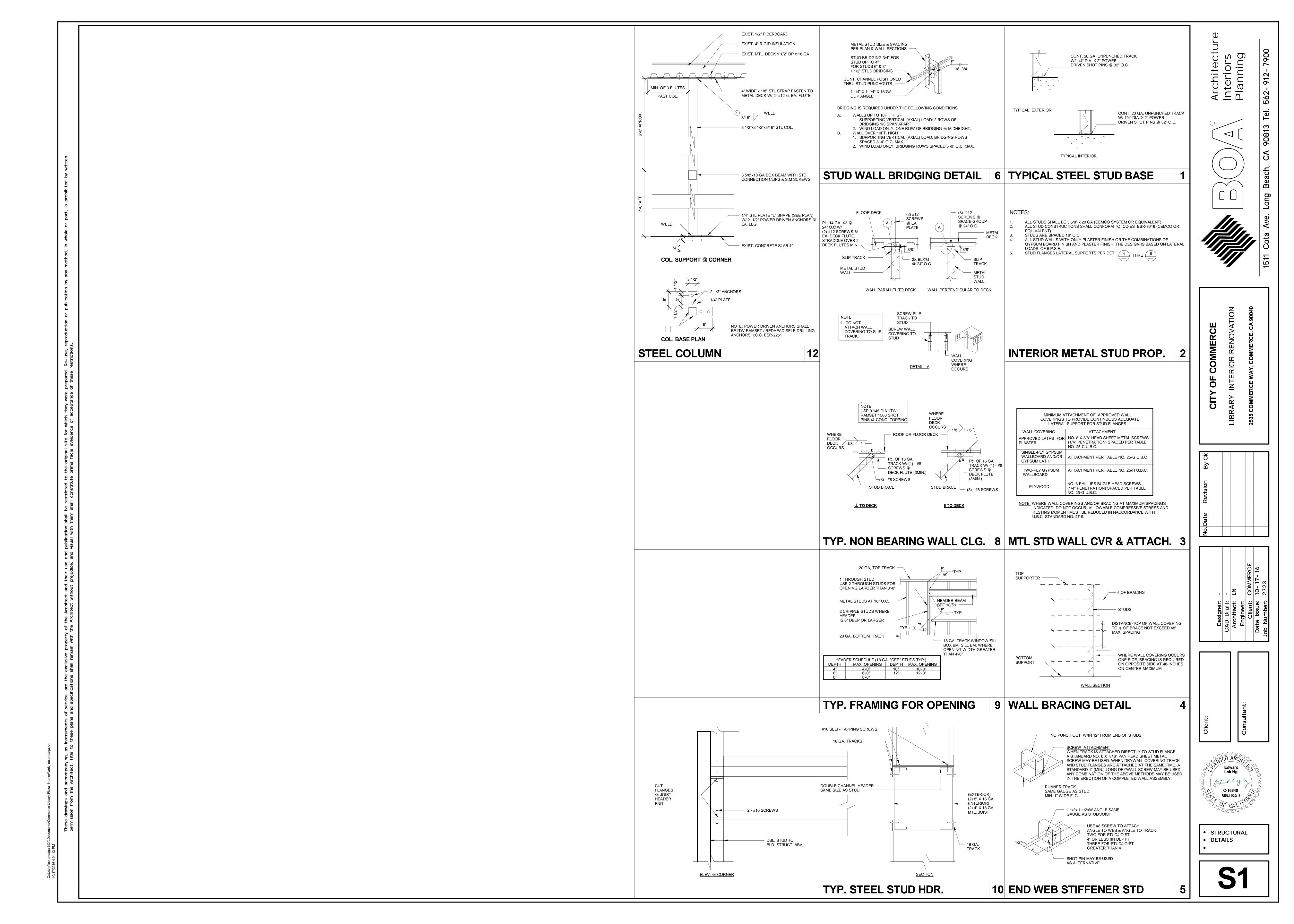


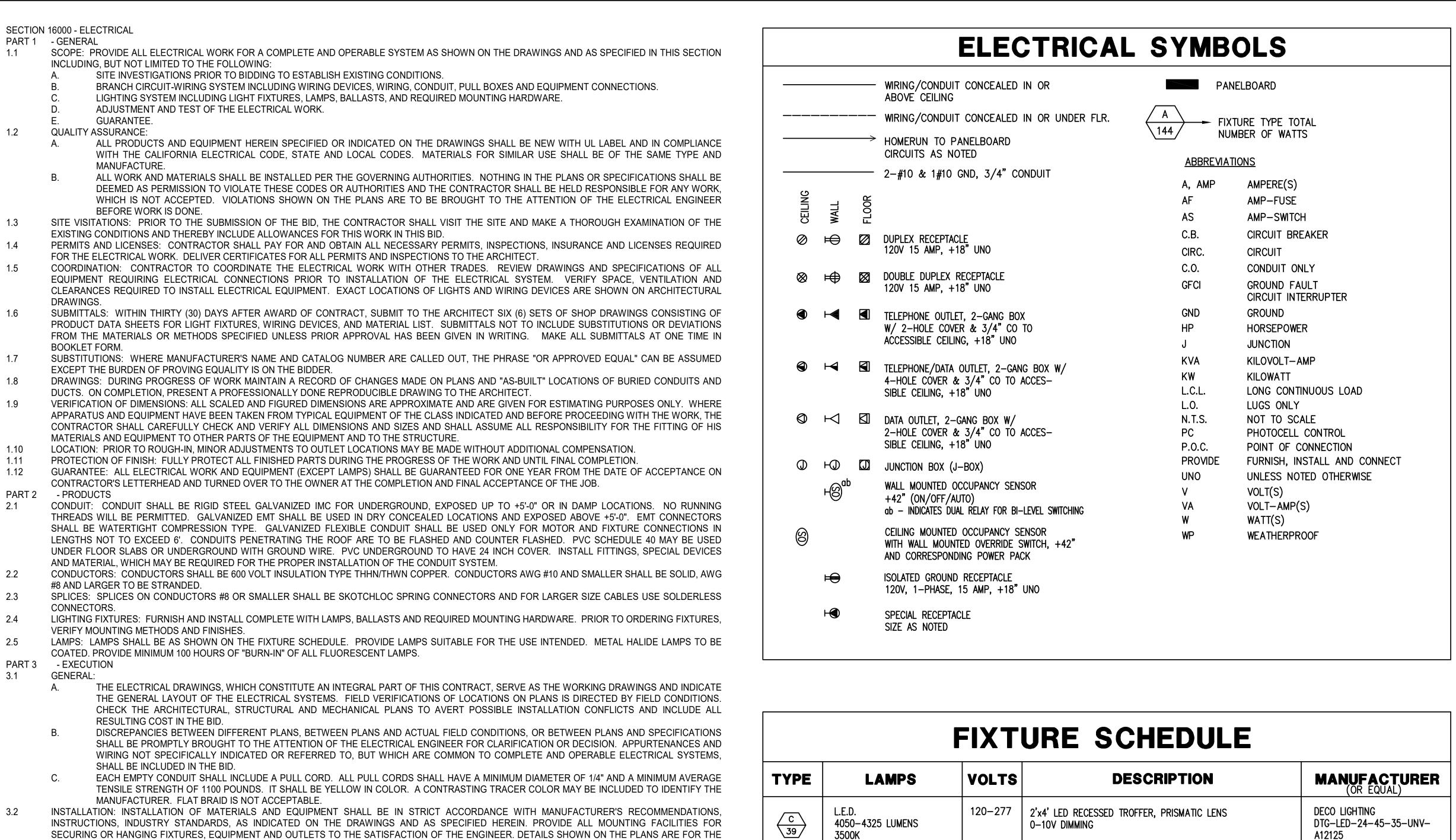
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PURPOSE OF ESTABLISHING THE EXTENT AND GENERAL METHODS REQUIRED. PROVIDE ALL SLEEVES, INSERTS, EXPANSION JOINTS, VIBRATION

CONDUIT AND WIRING: ALL CONDUIT AND WIRING SHALL BE INSTALLED CONCEALED IN WALLS, ABOVE CEILINGS AND BELOW FLOOR SLABS OR EXPOSED IN ACCORDANCE WITH APPLICABLE REGULATIONS AND THE ELECTRICAL DRAWINGS. ALL PENETRATIONS OF FIRE-RATED WALLS OR CEILINGS TO BE COORDINATED WITH OWNER. CONDUIT RUNS ARE SHOWN DIAGRAMMATICALLY. EXACT ROUTING AND LOCATION OF THE EQUIPMENT TO BE

MOISTURE PROTECTION: WHERE REQUIRED BY REGULATIONS, ALL PANELBOARDS, MAIN SWITCHBOARDS AND ELECTRICAL DEVICES IN THE SPRAY

GROUNDING: ALL METALLIC CONDUITS, SUPPORTS AND ENCLOSURES SHALL BE GROUNDED IN COMPLIANCE WITH THE NATIONAL ELECTRICAL CODE.

TESTING: ALL NEW CIRCUITS SHALL BE TESTED FOR SHORT AND OPEN CIRCUIT TO GROUND WITH A MEGGAR. RESISTANCE TO GROUND SHALL BE IN COMPLIANCE WITH THE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE. FURNISH ALL NECESSARY LABOR, INSTRUMENTS AND EQUIPMENT REQUIRED FOR MAKING TESTS TO DEMONSTRATE THAT THE OPERATION OF THE SYSTEM IS IN ACCORDANCE WITH THE INTENT OF THE CONTRACT DOCUMENTS. ALSO PERFORM A COMPLETE "IN SERVICE" OPERATION OF THE ENTIRE ELECTRICAL SYSTEM TO THE FULL SATISFACTION OF THE OWNER.

PROVIDE STORAGE FACILITIES AND PROTECT ALL WORK, MATERIALS AND EQUIPMENT FROM DAMAGE DURING PROCESS OF WORK

MATERIALS AND EQUIPMENT SHALL NOT BE STORED EXPOSED TO WEATHER. REPLACE ALL DAMAGED OR DEFECTIVE WORK, MATERIALS AND

FITTING, ETC

END OF SECTION

DETERMINED IN THE FIELD.

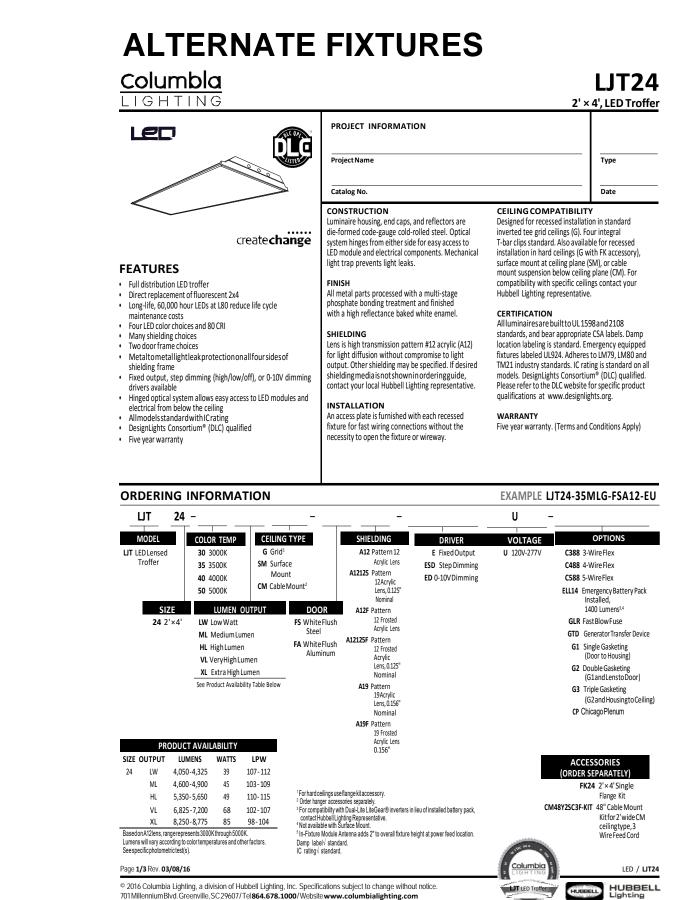
EQUIPMENT WITHOUT ADDITIONAL COST TO THE OWNER.

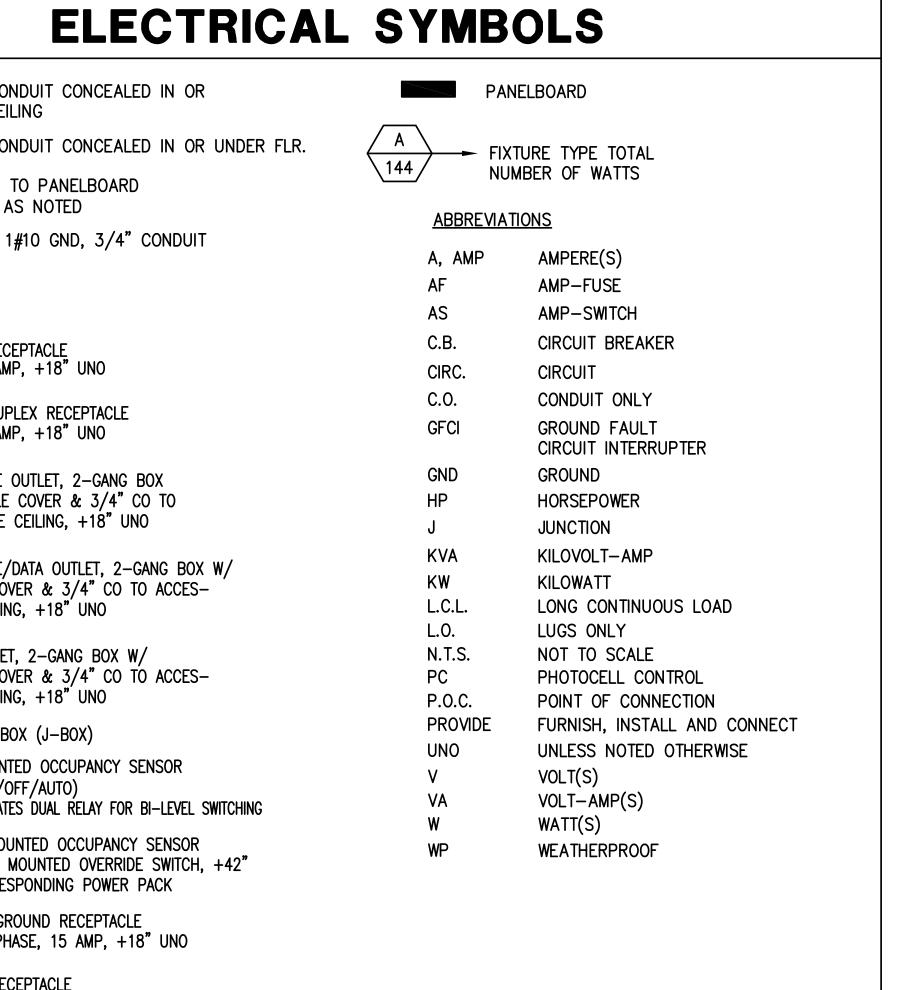
EXTERIOR EQUIPMENT: ALL EQUIPMENT AND WIRING OUTSIDE TO BE WEATHERPROOF AND TAMPERPROOF.

GROUNDING BUSHINGS SHALL BE USED WHEREVER CONDUITS ARE REQUIRED TO BE GROUNDED.

RADIUS OF SPRINKLERS SHALL BE INSTALLED WITH WEATHERPROOF ENCLOSURES IN COMPLIANCE WITH THESE REGULATIONS.







"EM" - INDICATES EMERGENCY BATTERY BACKUP

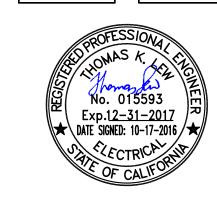
1400 LUMENS OUTPUT.

C

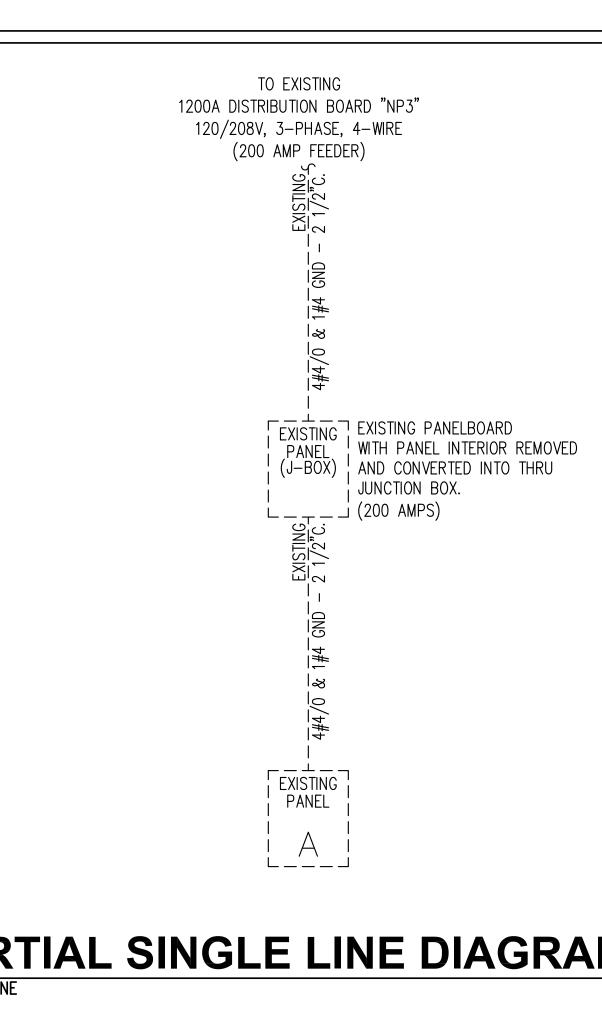
MATCH EXISTING.

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SYMBOL LIST, FIXTURE SCHEDULE SPECIFICATIONS



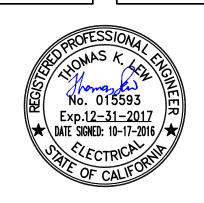
PARTIAL SINGLE LINE DIAGRAM

	PA	NEL:	"A" (E	EXISTING) PANEL VOLTA	GE:		120/20	8V, 3	B-PH	1, 4-WI	RE	С	IRC	UIT	COE	DE: N	: NON-CONTINUOUS				
	LOCA	ATION:	OFFICE	E AREA B	US:		225A									L	.: LONG-CONTINUOUS				
	MOUN	ITING:	RECES	SSED M	AIN:		LUGS (ONLY	,							F	R: DEMANDABLE RECEPTACL	ES			
				AIC RATI	NG:		MATCH	EXIS	STIN	IG						K	K: KITCHEN				
S S	\	/A LOAE)		JE JE	TYP	E CNT.	C.I	В.	BUS	C	В.	TYF	PE C	NT.	ЭE			VA LOA	D	2
CKT T	Α	В	С	LOAD DESCRIPTION	00	М	R L	TR	Р	АВС	TR	Р			М		LOAD DESCRIPTION	Α	В	С	- [
1	540			EXIST RECEPT	N		3	20	1	Х	20	1		3		N E	EXIST RECEPT	540			
3		540		EXIST RECEPT	N		3	20	1	Х	20	1		3		N E	XIST RECEPT		540		_
5	•		540	EXIST RECEPT	N		3	20	1)	(20	1		3		N E	XIST RECEPT			540	
7	500			EXIST REFRIGERATOR	N			20	1	Χ	30	2				N E	XIST COPIER	500	•		
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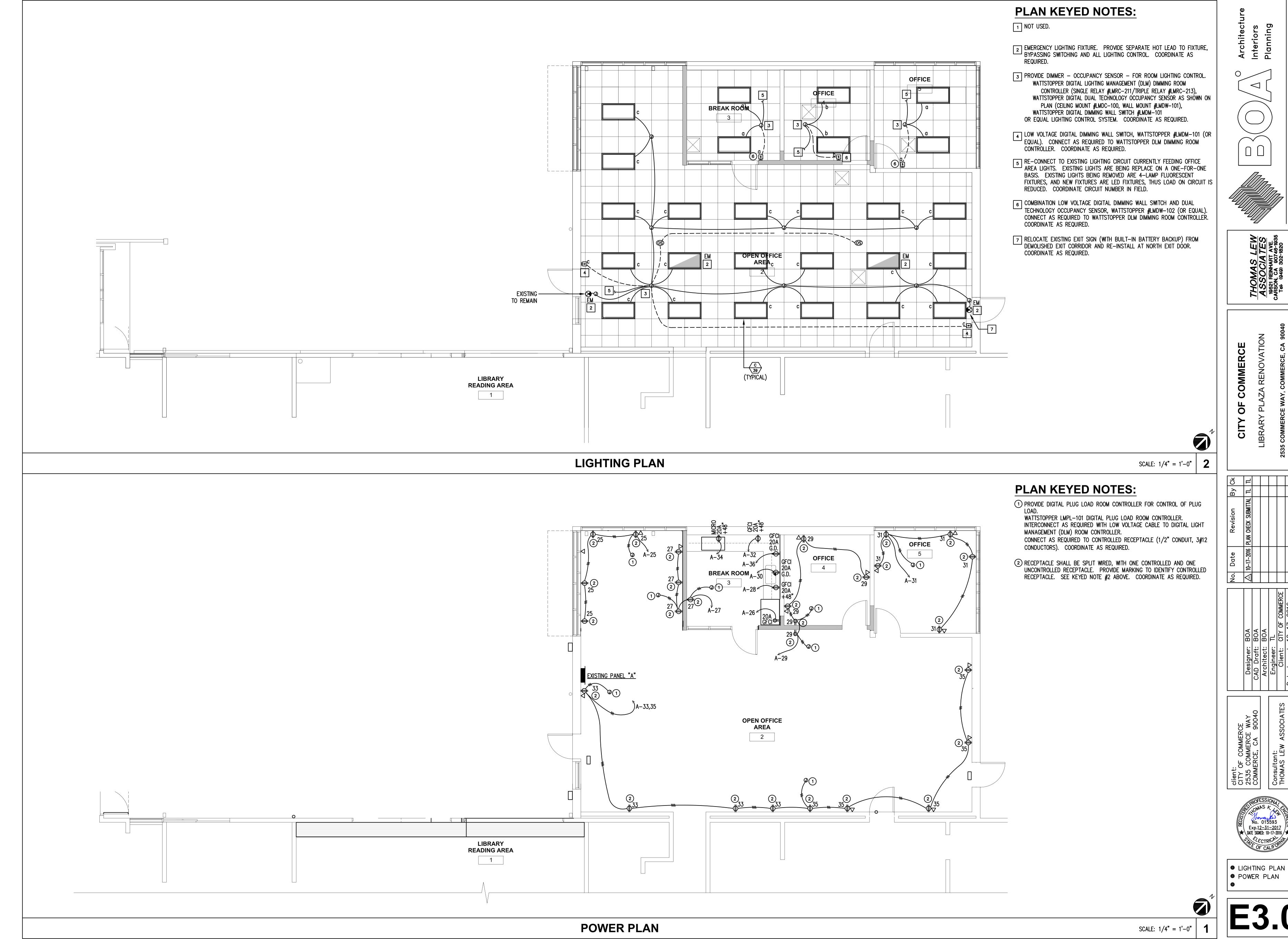
CITY OF COMMERCE

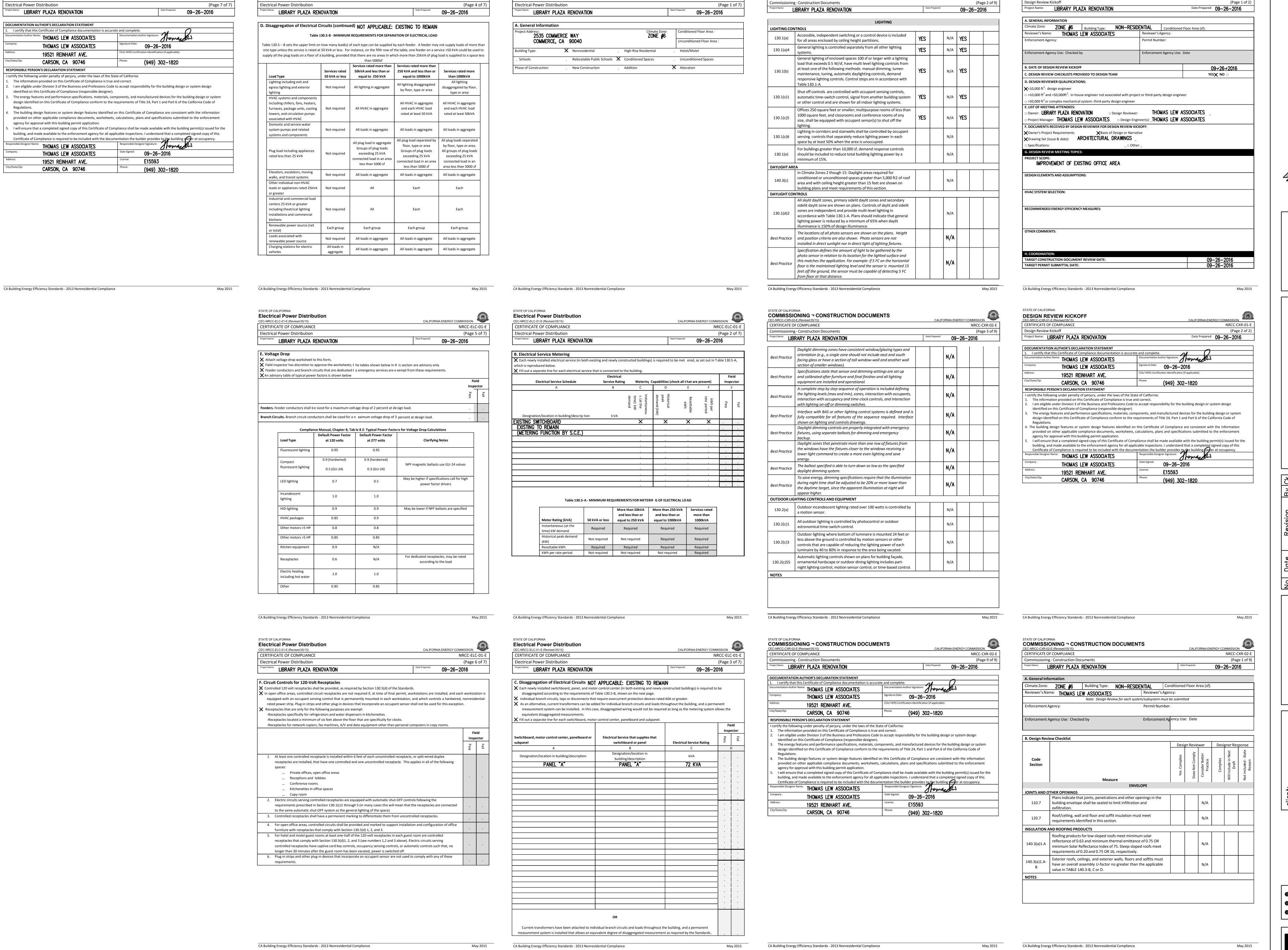
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Designer: BOA	BOA
CAD Draft: BOA	BOA
Architect: BOA	BOA
Engineer:	TL
Client:	CITY OF COMMERCE
Date Issued:	Date Issued: 10-17-2016
Job Number:	#



SINGLE LINE DIAGRAMPANEL SCHEDULE





STATE OF CALIFORNIA

NRCC-ELC-01-E

Electrical Power Distribution

CERTIFICATE OF COMPLIANCE

STATE OF CALIFORNIA

Electrical Power Distribution

CEC-NRCC-ELC-01-E (Revised 05/15)

CERTIFICATE OF COMPLIANCE

STATE OF CALIFORNIA

Electrical Power Distribution

CERTIFICATE OF COMPLIANCE

NRCC-CXR-01-E

STATE OF CALIFORNIA

NRCC-CXR-02-E

DESIGN REVIEW KICKOFF

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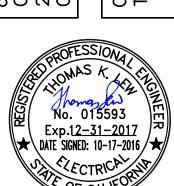
COMMISSIONING - CONSTRUCTION DOCUMENTS

EC-NRCC-CXR-02-E (Revised 05/1

NRCC-ELC-01-

CERTIFICATE OF COMPLIANCE

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• TITLE 24 FORMS

is Certificate of Compliance documentation is accurate and THOMAS LEW ASSOCIATES THOMAS LEW ASSOCIATES	Documentation Author Signature: Signature Date: 09–26–2016	Documentation Author Name: THOMAS LEW ASSOCIATES	accurate and complete. Documentation Author S Signature Date:	Olowason
19521 REINHART AVE. CARSON, CA 90746	CEA Certification Identification (if applicable): Phone: (949) 302—1820	Company: THOMAS LEW ASSOCIATES Address: 19521 REINHART AVE. City/State/Zip: CARSON CA 90746	CEA Certification Identifi	
ON'S DECLARATION STATEMENT Ig under penalty of perjury, under the laws of the State of (In provided on this Certificate of Compliance is true and co Inder Division 3 of the Business and Professions Code to acc		CARSON, CA 90746 RESPONSIBLE PERSON'S DECLARATION STATEMENT I certify the following under penalty of perjury, under the laws of t 1. The information provided on this Certificate of Compliance is	the State of California:	(949) 302–1820
signer). tures and performance specifications, materials, compone nform to the requirements of Title 24, Part 1 and Part 6 of	nents, and manufactured devices for the building design or system design identified on this Certificate of of the California Code of Regulations.	 I am eligible under Division 3 of the Business and Professions (responsible designer). The energy features and performance specifications, materia 	s Code to accept responsibility for the building designals, components, and manufactured devices for the	ign or system design identified on this Certificate of Compliance building design or system design identified on this Certificate of
exheets, calculations, plans and specifications submitted a completed signed copy of this Certificate of Compliand ency for all applicable inspections. I understand that a co	s Certificate of Compliance are consistent with the information provided on other applicable compliance and to the enforcement agency for approval with this building permit application. Ince shall be made available with the building permit(s) issued for the building, and made available to the completed signed copy of this Certificate of Compliance is required to be included with the documentation the	documents, worksheets, calculations, plans and specification 5. I will ensure that a completed signed copy of this Certificate of	tified on this Certificate of Compliance are consister ns submitted to the enforcement agency for approv of Compliance shall be made available with the bui	ilding permit(s) issued for the building, and made available to the
THOMAS LEW ASSOCIATES THOMAS LEW ASSOCIATES	Responsible Designer Signature: Date Signed: 09–26–2016	enforcement agency for all applicable inspections. I understa builder provides to the building owner at occupancy. Responsible Designer Name: THOMAS LEW ASSOCIATES	and that a completed signed copy of this Certificate Responsible Designer Sig	e of Compliance is required to be included with the documentation the
21 REINHART AVE. 2SON, CA 90746	License: E15593 Phone: (949) 302–1820	THOMAS LEW ASSOCIATES Address: 19521 REINHART AVE.	License:	09-26-2016 E15593
, 011 00710	(3+3) 302-1020	City/State/Zip: CARSON, CA 90746	Phone:	(949) 302–1820
ency Standards - 2013 Nonresidential Compliance	May 2	STATE OF CALIFORNIA INDOOR LIGHTING POWER ALLOWANCE CEC-NRCC-LTI-03-E (Revised 05/15) CERTIFICATE OF COMPLIANCE Certificate of Compliance - Indoor Lighting Power Allowance Project Name: LIBRARY PLAZA RENOVATION A separate page must be filled out for Conditioned and Unco CONDITIONED spaces . UNCONDITIONED Spaces A. SUMMARY TOTALS OF LIGHTING POWER ALLOWALD IN COMPLETED TO STATE OF COMPLETED	e conditioned Spaces. This page is only for: FIONED spaces DWANCES only the total in column (a) as total allowed bu ombination of Area Category and Tailored Met in section B of NRCC-LTI-03-E (below on this page of NRCC-LTI-04-E) mber into correct cell on NRCC-LTI-01 inconditioned areas. /ER ALLOWANCE	thod for compliance, use only the total in column (b) as the total (a) (b) age) e) 1225 , Page 2, Row 1 1225 2 3 4 WATTS X COMPLETE PER (ft²) X BLDG. AREA WATTS Total Area:
			Total Watts. Enter Total W	Total Area: atts into section A, row 1 (Above on this page)
		C -1 AREA CATEGORY METHOD TOTAL LIGHTING I	POWER ALLOWANCES (D plus E)	Watts
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3. Luminaire classification and wattage shall be determined in accordance with §130.0(c) of the Standards.

CA Building Energy Efficiency Standards - 2013 Nonresidential Compliance

INDOOR LIGHTING ¬ LIGHTING CONTROLS

LIBRARY PLAZA RENOVATION

CERTIFICATE OF COMPLIANCE

NRCC-LTI-03-E

(Page 4 of 4)

Date Prepared: 09-26-2016

INDOOR LIGHTING POWER ALLOWANCE

Certificate of Compliance - Indoor Lighting Power Allowance

Project Name: LIBRARY PLAZA RENOVATION

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

CERTIFICATE OF COMPLIANCE

	ting								RCC-LTI-01- Page 5 of 6
lame	LIBRARY PLAZA RENOVATION						Date Prepared: 09-26-2016		
	Lighting Schedule Must Be Filled Out for Condition FIONED SPACE UNCONDITIONED SPACE		nditioned	Spaces. In	stalled Ligi	nting Power	listed on this Lighting Schedule is only	for:	
DOC	OR LIGHTING SCHEDULE and FIELD INSPE	CTION EN	ERGY CH	ECKLIST					
	Luminaire Schedule			nstalled Wa	itts		Location	Field In	spector 1
	В	С		D	E	F	G		Н
				ttage was					
			deter	mined		d area			
Item Tag	Complete Luminaire Description (i.e, 3 lamp fluorescent troffer, F32T8, one dimmable electronic ballast)	Watts per Luminaire	CEC Default from NA8	According to §130.0(c)	Number Luminaires	Total Installed Watts in this area (C x E)	Primary Function area in which these luminaires are installed	Pass	Fail
	2x4 LED TROFFER	39	٤	X	26	1014	OFFICE AREA	٤	,
			٠	٠				٠	
			٠	٠				٠	
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		IN	STALLED V	VATTS PAG	E TOTAL:	1014	Enter sum total of all pages into NRCC-LTI-01-E; Page 2	1	014

CA Building Energy Efficiency Standards - 2013 Nonresidential Compliance

I certify that this Certificate of Compliance documentation is accurate and complete.

certify the following under penalty of perjury, under the laws of the State of California:

Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.

The information provided on this Certificate of Compliance is true and correct.

THOMAS LEW ASSOCIATES THOMAS LEW ASSOCIATES

19521 REINHART AVE. **CARSON, CA 90746**

CA Building Energy Efficiency Standards - 2013 Nonresidential Compliance

INDOOR LIGHTING ¬ LIGHTING CONTROLS

LIBRARY PLAZA RENOVATION

Efficiency Regulations in accordance with Section 110.9.

shall be submitted in accordance with Section 130.4(b).

instructions in accordance with Section 130.1.

controls, and demand responsive controls.

X CONDITIONED SPACES UNCONDITIONED SPACES

Lighting Control Schedule

Control (i.e.: occupancy sensor,

OCCUPANCY SENSOR

Additional lighting controls installed to earn a PAF; §140.6(d) = Prescriptive Secondary Sidelit Daylight Controls.

automatic time switch, dimmer, automatic daylight,

CA Building Energy Efficiency Standards - 2013 Nonresidential Compliance

INDOOR LIGHTING ¬ LIGHTING CONTROLS

Project Name: LIBRARY PLAZA RENOVATION

CEC-NRCC-LTI-02-E (Revised 05/15) CERTIFICATE OF COMPLIANCE

Location in Building

OFFICE AREA

OFFICE AREA

also required to be filled out, signed, and submitted.

CA Building Energy Efficiency Standards - 2013 Nonresidential Compliance

YES NO Control Requirements

CERTIFICATE OF COMPLIANCE

^{e:} THOMAS LEW ASSOCIATES

THOMAS LEW ASSOCIATES

19521 REINHART AVE.

CARSON, CA 90746

STATE OF CALIFORNIA

INDOOR LIGHTING

CERTIFICATE OF COMPLIANCE

(responsible designer).

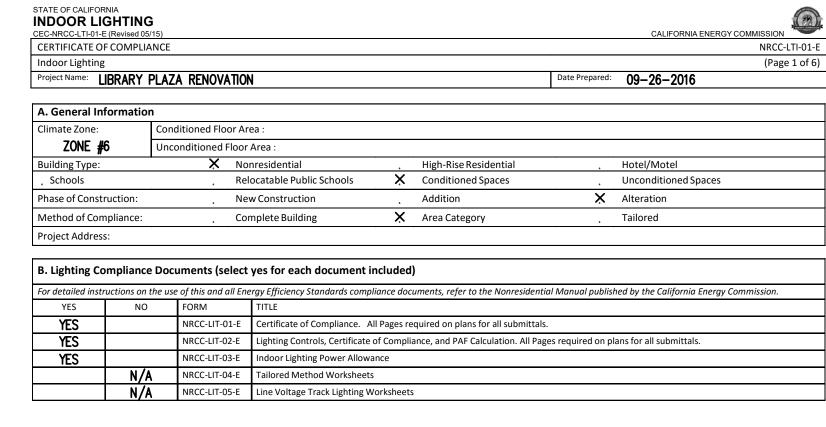
Project Name: LIBRARY PLAZA RENOVATION

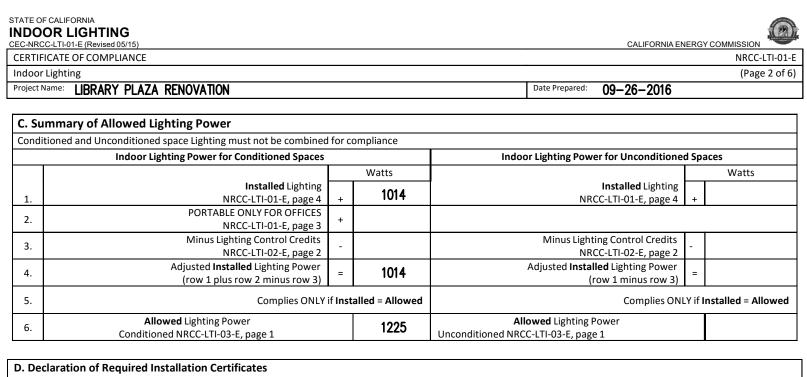
DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

ESPONSIBLE PERSON'S DECLARATION STATEMENT

builder provides to the building owner at occupancy.

(Page 3 of **3**)





CA Building Energy Efficiency Standards - 2013 Nonresidential Compliance

NRCC-LTI-01-F

NRCC-LTI-02-E

(Page 2 of 3)

into NRCC-LTI-01-E; Page

Date Prepared: 09-26-2016

C D E F G H I J K L M N O

Date Prepared: 09-26-2016

09-26-2016

E15593

(949) 302-1820

I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance

The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of

The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance

I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the

documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.

The NRCC-LTI-02-E shall be used to document all mandatory and prescriptive lighting controls that are applicable to the project.

Lighting shall be controlled by self-contained lighting control devices which are certified to the Energy Commission according to the Title 20 Appliance

Lighting shall be controlled by a lighting control a system or energy management control system in accordance with §110.9. An Installation Certificate

A Track Lighting Supplementary Overcurrent Protection Panel shall be installed in accordance with Section 110.9 and Section 130.0. Additionally, an

All luminaires shall be functionally controlled with manually switched ON and OFF lighting controls in accordance with Section 130.1(a).

All installed indoor lighting shall be equipped with controls that meet the applicable Shut-OFF control requirements in Section 130.1(c).

N/A Lighting in all Daylit Zones shall be controlled in accordance with the requirements in Section 130.1(d) and daylit zones are shown on the plans.

N/A Lighting power in buildings larger than 10,000 square feet shall be capable of being automatically reduced in response to a Demand Responsive Signal in accordance with Section 130.1(e).

Before an occupancy permit is granted for a newly constructed building or area, or a new lighting system serving a building, area, or site is operated for normal use, indoor lighting controls serving the building, area, or site shall be certified as meeting the Acceptance Requirements for Code Compliance in accordance with Section 130.4.(a). The controls required to meet the Acceptance Requirements include automatic daylight controls, automatic shut-OFF

Standards Complying With 1

IF MULTIPLE PAGES ARE USED, ENTER SUM TOTAL OF Control Credit for all pages HERE (Sum of all Column M):

1. §130.1(a) = Manual area controls; §130.0(b) = Multi Level; §130.1(c) = Auto Shut-Off; §130.1(d) = Mandatory Daylight; §130.1(e) = Demand Responsive; §140.6(d) =

2. Check Table 140.6-A for correct Factor. PAFs shall not be traded between conditioned and unconditioned spaces. As a condition to earn a PAF, an Installation Certificate is

Y all that apply, or enter 'E' if Exempted)

All lighting controls and equipment shall comply with the applicable requirements in §110.9 and shall be installed in accordance with the manufacturer's

General lighting shall be separately controlled from all other lighting systems in an area. Floor and wall display, window display, case display, ornamental, and special effects lighting shall each be separately controlled on circuits that are 20 amps or less. When track lighting is used, general, display, ornamental,

The general lighting of any enclosed area 100 square feet or larger, with a connected lighting load that exceeds 0.5 watts per square foot shall meet the

One or more Track Lighting Integral Current Limiters shall be installed which have been certified to the Energy Commission in accordance with §110.9 and

A. Mandatory Lighting Control Declaration Statements (Indicate if the measure applies by checking yes or no below.)

N/A §130.0. Additionally, an Installation Certificate shall be submitted in accordance with Section 130.4(b).

and special effects lighting shall each be separately controlled; in accordance with Section 130.1(a)4.

A separate document must be filled out for Conditioned and Unconditioned Spaces. This page is used only for the following:

B. Mandatory and Prescriptive Indoor Lighting Control Schedule, PAF Calculation, and Field Inspection Checklist

Installation Certificate shall be installed in accordance with Section 130.4(b).

multi-level lighting control requirements in accordance with Section 130.1(b).

(949) 302-1820

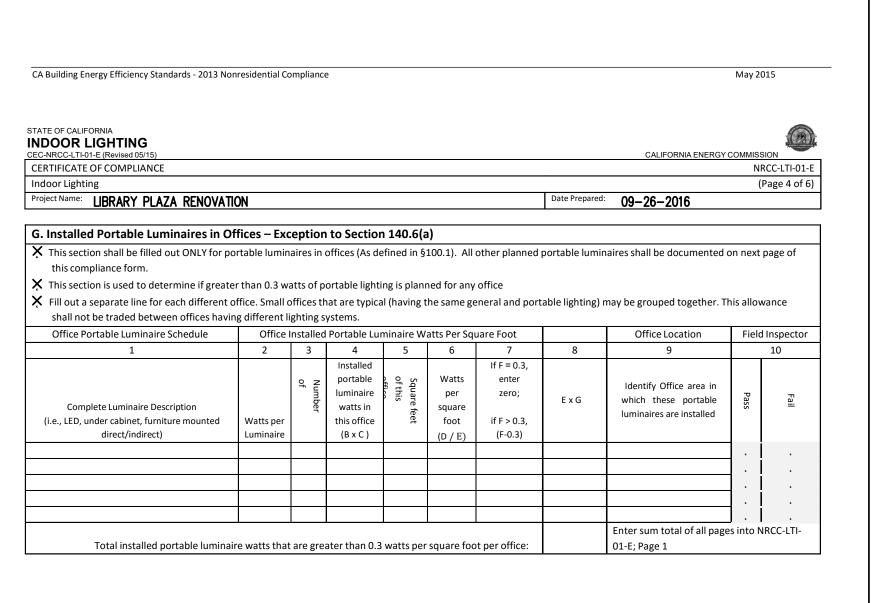
(Page 6 of 6)

YES	NO	Form/Title	
YES		NRCI-LTI-01-E - Must be submitted for all buildings	. Field Inspector
YES		NRCI-LTI-02-E - Must be submitted for a lighting control system, or for an Energy Management Control System (EMCS), to be recognized for compliance.	, Field Inspector
	N/A	NRCI-LTI-03-E - Must be submitted for a line-voltage track lighting integral current limiter, or for a supplementary overcurrent protection panel used to energize only line-voltage track lighting, to be recognized for compliance.	, Field Inspector
	N/A	NRCI-LTI-04-E - Must be submitted for two interlocked systems serving an auditorium, a convention center, a conference room, a multipurpose room, or a theater to be recognized for compliance.	, Field Inspector
	N/A	NRCI-LTI-05-E - Must be submitted for a Power Adjustment Factor (PAF) to be recognized for compliance.	, Field Inspector
	N/A	NRCI-LTI-06-E - Must be submitted for additional wattage installed in a video conferencing studio to be recognized for compliance.	. Field Inspector

E. Declaration of Required Certificates of Acceptance Declare by checking all of the Certificates of Acceptance that will be submitted. (Retain copies and verify forms are completed and signed.) May 2015 CA Building Energy Efficiency Standards - 2013 Nonresidential Compliance

ndoor Ligh	nting		
Project Name	: LIBRAF	RY PLAZA RENOVATION Date Prepared: 09—26-	-2016
YES	NO	Form/Title	-
YES		NRCA-LTI-02-A - Must be submitted for occupancy sensors and automatic time switch controls.	
	N/A	NRCA-LTI-03-A - Must be submitted for automatic daylight controls.	٠
	<u> </u>		
X COND	ITIONED SI	NRCA-LTI-04-A - Must be submitted for demand responsive lighting controls. Schedule Must Be Filled Out for Conditioned and Unconditioned Spaces. Installed Lighting Power listed on this Lighting Schedule and Field Inspection Energy Checklist	
COND	Lighting S	ichedule Must Be Filled Out for Conditioned and Unconditioned Spaces. Installed Lighting Power listed on this Lighting Sc PACE UNCONDITIONED SPACE	hedule
F. Indoor	Lighting S Lighting S Lighting S Ctual indoo	ichedule Must Be Filled Out for Conditioned and Unconditioned Spaces. Installed Lighting Power listed on this Lighting Sc PACE UNCONDITIONED SPACE Schedule and Field Inspection Energy Checklist	
F. Indoor X The ac	Lighting S ITIONED SI Lighting S Ctual indoo Complete	ichedule Must Be Filled Out for Conditioned and Unconditioned Spaces. Installed Lighting Power listed on this Lighting Sc PACE UNCONDITIONED SPACE Schedule and Field Inspection Energy Checklist r lighting power listed on this page and on the next page includes all installed permanent and planned portable lighting s	hedule system:

INDOOR LIGHTING

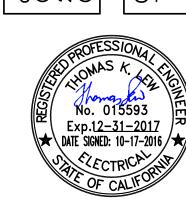


CA Building Energy Efficiency Standards - 2013 Nonresidential Compliance

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May 2015

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TITLE 24 FORMS