

ELECTRICAL SPECIFICATIONS

GENERAL NOTES:

- ELECTRICAL INSTALLATION SHALL COMPLY WITH TITLE 24, CALIFORNIA CODE OF REGULATIONS, INCLUDING THE FOLLOWING:
TITLE 24, CCR, PART 2, 2013 CBC
TITLE 24, CCR, PART 3, 2013 CEC
TITLE 24, CCR, PART 4, 2013 CMC
TITLE 24, CCR, PART 9, 2013 OFC
ALL APPLICABLE LOCAL CODES.
- ELECTRICAL CONTRACTOR SHALL PROCURE AND PAY FOR ALL LICENSES, ETC. REQUIRED TO CARRY ON AND COMPLETE THE WORK. PERMIT BY OWNER.
- PROVIDE ALL LABOR, MATERIALS, TOOLS, PLANT EQUIPMENT, TRANSPORTATION AND PERFORM ALL OPERATIONS NECESSARY FOR ANY REASONABLE INCIDENTAL TO PROPER EXECUTION AND COMPLETION OF ALL "ELECTRICAL WORK" WHETHER SPECIFICALLY MENTIONED OR NOT; ALL AS INDICATED, SPECIFIED HEREIN, AND/OR IMPLIED THEREBY TO CARRY OUT THE APPARENT INTENT THEREOF.
- ALL ELECTRICAL MATERIALS SHALL BE NEW AND LISTED WITH THE UNDERWRITERS' LABORATORIES, INC., SHALL MEET THEIR REQUIREMENTS AND SHALL BEAR THEIR LABEL, WHEREVER STANDARDS HAVE BEEN ESTABLISHED AND LABEL SERVICE IS REGULARLY FURNISHED BY THAT AGENCY.
- ELECTRICAL DRAWINGS ARE ESSENTIALLY DIAGRAMMATIC AND ALTHOUGH THE SIZE AND LOCATIONS OF EQUIPMENT ARE SHOWN TO SCALE WHEREVER POSSIBLE, CONTRACTOR SHALL MAKE USE OF ALL DATA IN ALL CONTRACT DOCUMENTS AND VERIFY THIS INFORMATION AT THE SITE. CONTRACTOR SHALL BE RESPONSIBLE FOR LAYING OUT AND INSTALLING HIS WORK TO AVOID INTERFERENCE WITH OTHER TRADES.
- CONDUCTORS SHALL BE COPPER CONDUCTORS TYPE THWN UNLESS OTHERWISE NOTED OR REQUIRED BY CODE.
- ALL LUMINAIRES AND BALLASTS SHALL BE CERTIFIED BY THE MANUFACTURER TO THE CALIFORNIA ENERGY COMMISSION. ALL FLUORESCENT FIXTURES TO BE LAMPED WITH F032, T8, 3500K LAMPS OR APPROVED EQUAL, AND HAVE AN ENERGY SAVING "A" SOUND RATING ELECTRONIC BALLAST OR APPROVED EQUAL UNLESS OTHERWISE SHOWN. ALL H.I.D. LIGHT FIXTURES SHALL HAVE HIGH POWER FACTOR BALLASTS.
- FLASH AND COUNTER FLASH ALL ITEMS PASSING THROUGH THE ROOF. ANY ROOF PENETRATIONS WILL BE APPROVED BY THE OWNER. ROOFING MFG. HAS SPECS. AS TO NOT VOID 20 YEAR WARRANTED.
- WORK SHOWN ON THE DRAWINGS TO BE INSTALLED UNDERGROUND SHALL BE INSTALLED AT LEAST 24" BELOW GRADE. BACKFILL IN 6" THICK, PROPERLY MOISTENED LAYERS, SOLIDLY PACKED AND IRON TAMPED TO A DENSITY NOT LESS THAN THAT OF ADJACENT, UNDISTURBED EARTH. RESTORE SURFACES, ROADWAYS, WALKS, CURBS, WALLS, EXISTING UNDERGROUND INSTALLATIONS TO ORIGINAL CONDITION IN AN ACCEPTABLE MANNER.
- THE OWNER RESERVES THE RIGHT TO RELOCATE ALL LIGHTING, OUTLETS AND SWITCHES BEFORE THEY ARE ROUGHED IN AT NO EXTRA COST.
- ALL EXIT SIGNS TO BE UNSWITCHED.

NAMEPLATES & IDENTIFICATION:

INSTALL ENGRAVED NAMEPLATES FOR EACH PANELBOARD, CABINET, DISCONNECT, ETC. NAMEPLATES SHALL BE SECURELY FASTENED TO THE EQUIPMENT WITH #4 PHILLIPS ROUND HEAD CADMIUM PLATED SELF-TAPPING SCREWS, BRASS BOLT, OR WITH A PLASTIC RESIN ADHESIVE GLUE, GOODYEAR "PLIEBOND" OR EQUAL.

HVAC UNIT DISCONNECTS:

- ELECTRICAL CONTRACTOR SHALL COORDINATE WITH MECHANICAL CONTRACTOR FOR EXACT LOCATIONS OF ALL HVAC UNITS, DISCONNECTS AND DEVICES IN FIELD. VERIFY AND CONFIRM THE ACTUAL MOUNTING LOCATION ON THE HVAC UNIT FOR THE DISCONNECT.
- THE RATING OF THE DISCONNECT SHALL BE SUCH AS TO ENABLE THE LARGEST FUSE SIZE ON THE UNIT NAMEPLATE TO BE INSTALLED IN THE DISCONNECT. PROVIDE FUSES OF THIS RATING.
- FURNISH AND INSTALL ALL LINE VOLTAGE AND LOW VOLTAGE CONDUITS AND LINE VOLTAGE WIRING (LOW VOLTAGE WIRING BY OTHERS) TO HVAC EQUIPMENT AND ASSOCIATED CONTROLS AND DEVICES AS SHOWN ON THE ELECTRICAL AND MECHANICAL PLANS, UNLESS OTHERWISE NOTED.

WIRING METHODS:

- ALL WIRING SHALL BE INSTALLED IN STEEL CONDUITS, CONCEALED IN WALL AND CEILING U.O.N.
- MINIMUM CONDUIT SIZE SHALL BE 1/2". MINIMUM ACCEPTABLE CONDUITS ARE:
A. GALVANIZED RIGID STEEL.
B. GALVANIZED STEEL EMT.
C. LIQUID TIGHT STEEL FLEX - FOR FINAL CONNECTION TO OUTDOOR EQUIPMENT.
D. FLEXIBLE STEEL CONDUIT - FOR INDOOR FINAL CONNECTIONS TO MECHANICAL EQUIPMENT (NOT TO EXCEED 36").
E. PVC CONDUIT SCHEDULE 40, UNDERGROUND.
- NMC AND MC CABLING SYSTEMS ARE NOT ALLOWED IN THIS BUILDING.

WIRING DEVICES:

UNITS SHALL BE EQUAL TO THE DEVICES SET FORTH HEREIN, IN STANDARD COLORS (BROWN, WHITE, GREY, BEIGE OR IVORY) AS SELECTED BY THE ARCHITECT:			
A. WIRING DEVICES	LEVITON #	HUBBELL #	P & S #
SINGLE POLE SWITCH	1221	1221	20AC1
THREE WAY SWITCH	1223	1223	20AC3
DUPLEX CONV. OUT. 15A	5262	5262	5262
DUPLEX GFI CONV. OUT.		Gf5262	

DEVICE PLATES:

- ALL DEVICE PLATES FOR INDOOR USE SHALL BE SMOOTH NYLON OR APPROVED EQUAL UNLESS OTHERWISE NOTED. ALL DEVICE PLATES FOR OUTDOOR USE SHALL

BE RAISED METAL.

- DEVICE COVERS FOR SURFACE MOUNTED BOXES SHALL BE 1/2" RAISED STEEL PLATES. WEATHERPROOF COVERS TO BE SNAP TYPE COVERS.
- DEVICE PLATES FOR TELEPHONE AND COMPUTER OUTLETS TO BE PROVIDED BY OWNER'S VENDOR. ALL TELEPHONE AND COMPUTER SYSTEM WIRING BY OWNER'S VENDOR.

SUPPORTS:

- FURNISH ALL NECESSARY FOUNDATIONS, SUPPORTS, BACKING, ETC., FOR ALL ELECTRICAL ENCLOSURES, CONDUITS AND EQUIPMENT.
- ATTACH ALL BOXES, CABINETS, ETC. TO WOOD WITH WOOD OR LAG SCREWS, TO METAL WITH MACHINE SCREWS OR BOLTS AND TO CONCRETE WITH EXPANSION ANCHORS AND MACHINE SCREWS OR BOLTS.

GROUNDING:

- GROUND AND BOND ALL EQUIPMENT AS REQUIRED BY GOVERNING CODES AND SPECIFICALLY INCLUDING SWITCHBOARD, PANELBOARDS, MOTOR CASES, ETC.

WORKING CLEARANCES FOR PANELS & SWITCHBOARDS

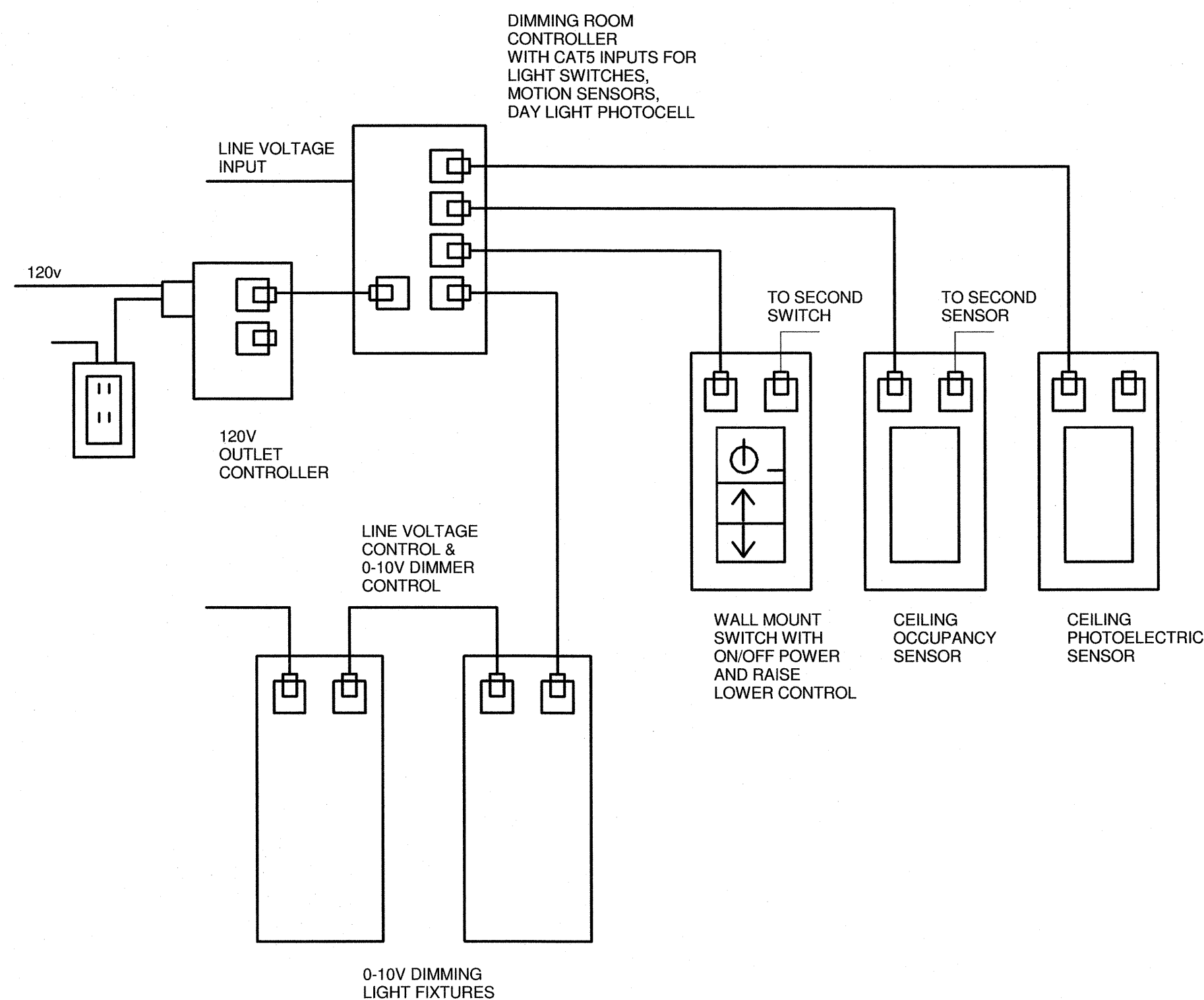
- COORDINATE WITH OTHER TRADES TO ENSURE CODE REQUIRED WORKING CLEARANCES, ACCESS, ETC. FOR PANELS AND SWITCHBOARDS PER C.E.C. SECTIONS 110-16 AND 384-4.

PANELBOARDS:

UNITS SHALL BE FLUSH OR SURFACE MOUNTED AS INDICATED ON THE PANEL SCHEDULE, WITH THE NUMBER AND SIZE OF BREAKERS INDICATED ON THE PANEL SCHEDULE. SINGLE POLE, TWO POLE AND THREE POLE BREAKERS SHALL BE BOLT ON TYPE. THE PANEL DOORS SHALL HAVE FLUSH TYPE LOOKS. ALL LOCKS SHALL BE KEYED ALIKE AND HAVE TYPEWRITTEN DIRECTORIES INDICATING FIXTURES, EQUIPMENT, OR OUTLETS SERVICED BY EACH BREAKER. ALL BUSSING SHALL BE COPPER.

TESTING:

- THE ENTIRE ELECTRICAL INSTALLATION SHALL BE FREE FROM SHORT CIRCUITS AND IMPROPER GROUNDS. TEST ALL WIRING AND CONNECTIONS FOR CONTINUITY AND GROUNDS BEFORE ANY FIXTURES OR EQUIPMENT ARE CONNECTED AND WHETHER SUCH TESTS INDICATE FAULTY INSULATION OR OTHER DEFECTS, THEY SHALL BE LOCATED, REPAIRED AND RETESTED AT THE CONTRACTOR'S EXPENSE.
- DEMONSTRATE TO THE OWNER AND THE ARCHITECT, THAT THE ENTIRE INSTALLATION IS COMPLETE, IN PROPER OPERATING CONDITION AND THAT THE CONTRACT HAS BEEN PROPERLY AND FULLY EXECUTED. PROVIDE ALL INSTRUMENTS TO MAKE SUCH TESTS.



1 LIGHTING CONTROLS DETAIL
SCALE: 1/2" = 1'-0"

LIGHTING CONTROLS

- LINE VOLTAGE (HOT, SWITCH HOT, NEUTRAL, GROUND & 3/4 DIMMING)
- 0-10V CONTROL CABLE (3#14)
- CAT-5 CONTROL CABLE
- CEILING MOUNT OCCUPANCY SENSOR
- PHOTOCELL
- DIMMING SWITCH WITH ON/OFF RAISE /LOWER CONROLS 2 WHERE SHOWN.
- DIMMING RELAY CONTROLLER
- RELAY FOR PLUG LOAD

NOTES:

- FOR SUBMITTAL INCLUDE FACTORY CONTROL DRAWINGS.
- CONDUCT A CONTROLS PRE-CONSTRUCTION MEETING WITH CONTROLS STARTUP TEAM. PROVIDE AGENDA AND ATTENDEES AS A SUBMITTAL. INCLUDE DEVICE I.D. TAGS, PROGRAMMING, CABLE ROUTING, PROGRAM AND TIME SCHEDULES AND DATE OF PROGRAMMING AND TESTING.
- CONTRACTOR TO HAVE SYSTEM FACTORY SUPPORT FOR START UP, PROGRAMMING AND COMMISSIONING. VERIFY OPERATIONAL HOURS WITH OWNER PRIOR TO COMMISSIONING.

ELECTRICAL L E G E N D

- SOLID LINE IS CONDUIT, 1/2" C-2#12+1#12 GND UNLESS OTHERWISE NOTED. SHORT TICKS = # OF HOTS, LONG TICKS = NEUTRALS, LINES WITH DOTS INDICATE GROUNDS
- LIGHT FIXTURES
 - RECESSED TROFFER
 - RECESSED CAN
 - SURFACE MOUNT FLUORESCENT FIXTURE
 - TRACK LIGHTING
 - LINEAR FLUORESCENT
 - SURFACE AND/OR PENDANT FIXTURE
 - WALL MOUNT FIXTURE +7'-6" AFG, U.O.N.
 - EXIT SIGN MOUNT ABOVE DOOR, L = LOW LEVEL, EACH UNIT TO HAVE 90 MINUTE BATTERY BACK-UP
 - EMERGENCY EGRESS WALL MOUNT LIGHT UNIT, 90 MINUTE BATTERY BACK-UP. INSTALL AT +7'-6" U.O.N.
 - COMBINATION EXIT SIGN/EGRESS LIGHT UNIT, 90 MIN. BATTERY BACK-UP
 - CEILING EXHAUST FAN
- OUTLETS
 - DUPLEX CONVENIENCE OUTLET +15" (TO BOTTOM OF BOX)
 - LETTER DESIGNATES SPECIAL PURPOSE OUTLET
 - S = SHOW WINDOW OUTLET (ABOVE WINDOW/ ON CEILING)
 - D = DISPLAY CABINET OUTLET +72" (VERIFY WITH DISPLAY)
 - GFI = GROUND FAULT INTERRUPTER OUTLET +48"
 - T = TV OUTLET FOR HIGH LEVEL +96"
 - F = FLOOR OUTLET, W/ FIRE RATED POKE THRU IN RATED FLOORS
 - LIGHT SWITCH, +48" TO TOP OF BOX
 - LETTER DESIGNATES SPECIAL PURPOSE SWITCH
 - LV = LOW VOLTAGE LIGHT SWITCH
 - OS = OCCUPANCY SENSOR WALL SWITCH
 - US = CEILING MOUNT OCCUPANCY SENSOR SWITCH
 - 3 OR 4 = 3-WAY OR 4-WAY LIGHT SWITCH
 - D = DIMMER SWITCH
 - P = PILOT LIGHT SWITCH
 - PC = PHOTOCELL SWITCH
 - TC = TIME CLOCK SWITCH
- JUNCTION BOX
- DISCONNECT
- ELECTRICAL DISTRIBUTION EQUIPMENT
 - PANELBOARD
 - SWITCHBOARD
 - TRANSFORMER
 - AUTOMATIC TRANSFER SWITCH

COMMUNICATION L E G E N D

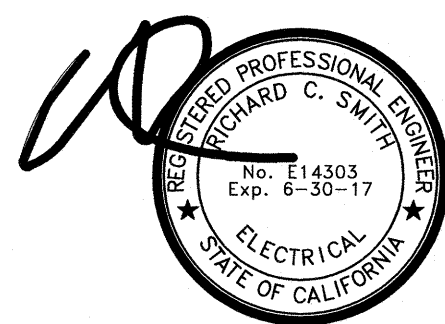
COMMUNICATION CABINETS

- INTERMEDIATE DISTRIBUTION FRAME
- TELEPHONE TERMINAL BOARD

COMMUNICATION OUTLETS

- PHONE +15" TO BOTTOM, W = WALL, PHONE +48", F = FLOOR
- DATA +15" TO BOTTOM, F = FLOOR
- HALF FILLED IS BOTH PHONE AND DATA, F = FLOOR
- TRIANGLE INDICATED COMMUNICATION OUTLET, LETTER DESIGNATES COMMUNICATION SYSTEM
 - T = TV OUTLET, +15", W = +96"
 - S = SPEAKER OUTLET +96"
 - M = MICROPHONE OUTLET +15"

Reviewed for Code Compliance
CSG CONSULTANTS INC.
DEC 04 2015
Reviewed By



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Revision Description

Revision Date

COMMERCIAL ARCHITECTURE INC.

THEODORE J. BRANDVOLD, ARCHITECT
616 14TH STREET, MODESTO, CA 95354
PH (209) 571-8158 FAX (209) 571-8158

PROJECT: WAREHOUSE & MAINTENANCE BUILDING

CLIENT: KEYSTONE CORPORATION

LOCATION: PATTERSON, CA

DRAWN

CHECKED

DATE

9-17-15

SCALE

As indicated

JOB NO

SHEET

E1

ELECTRICAL INFORMATION

Revision Description	Revision Date

COMMERCIAL ARCHITECTURE INC.

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PROJECT: WAREHOUSE & MAINTENANCE BUILDING

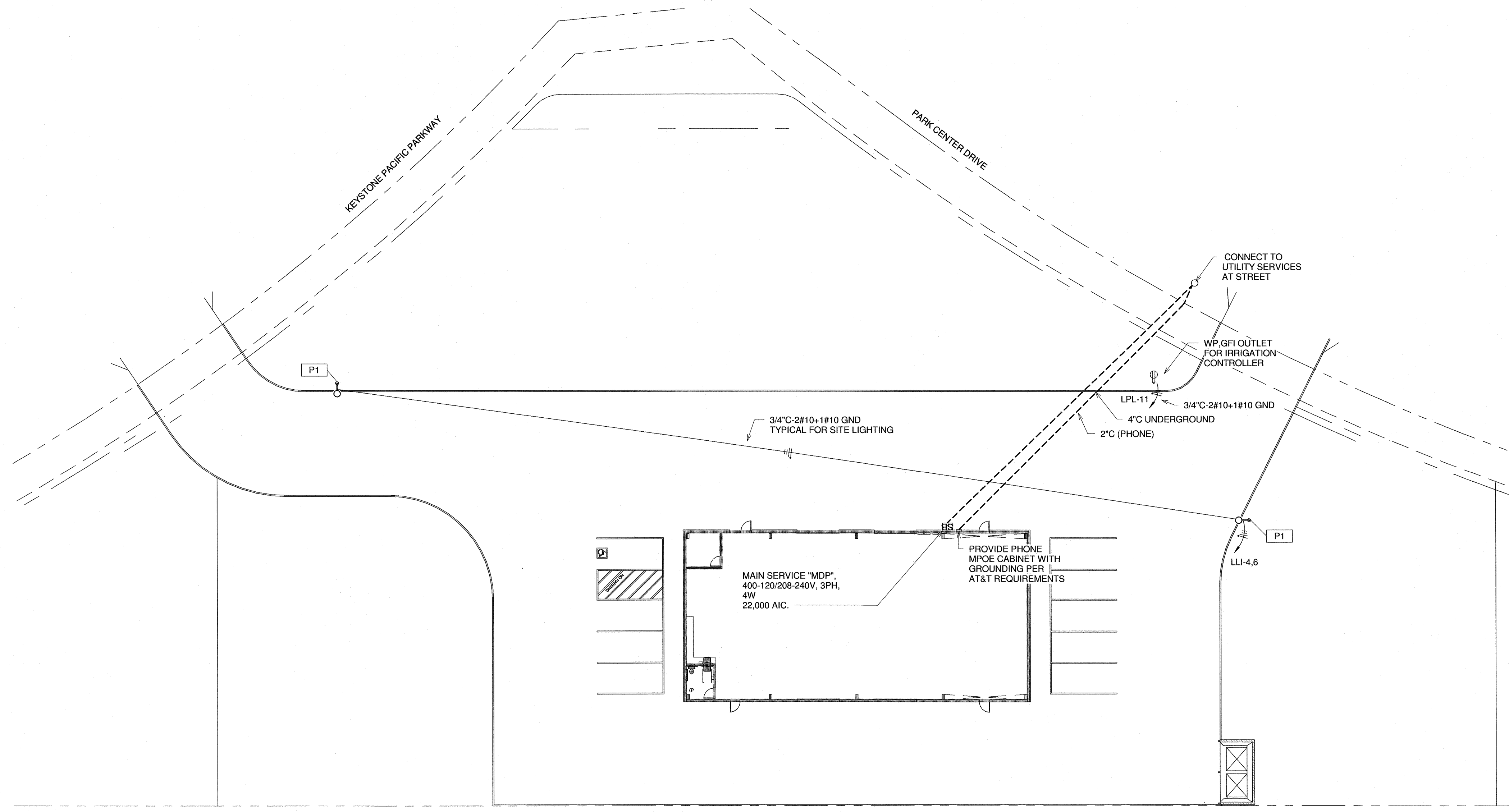
CLIENT: KEYSTONE CORPORATION

LOCATION: PATTERSON, CA

DRAWN
CHECKED

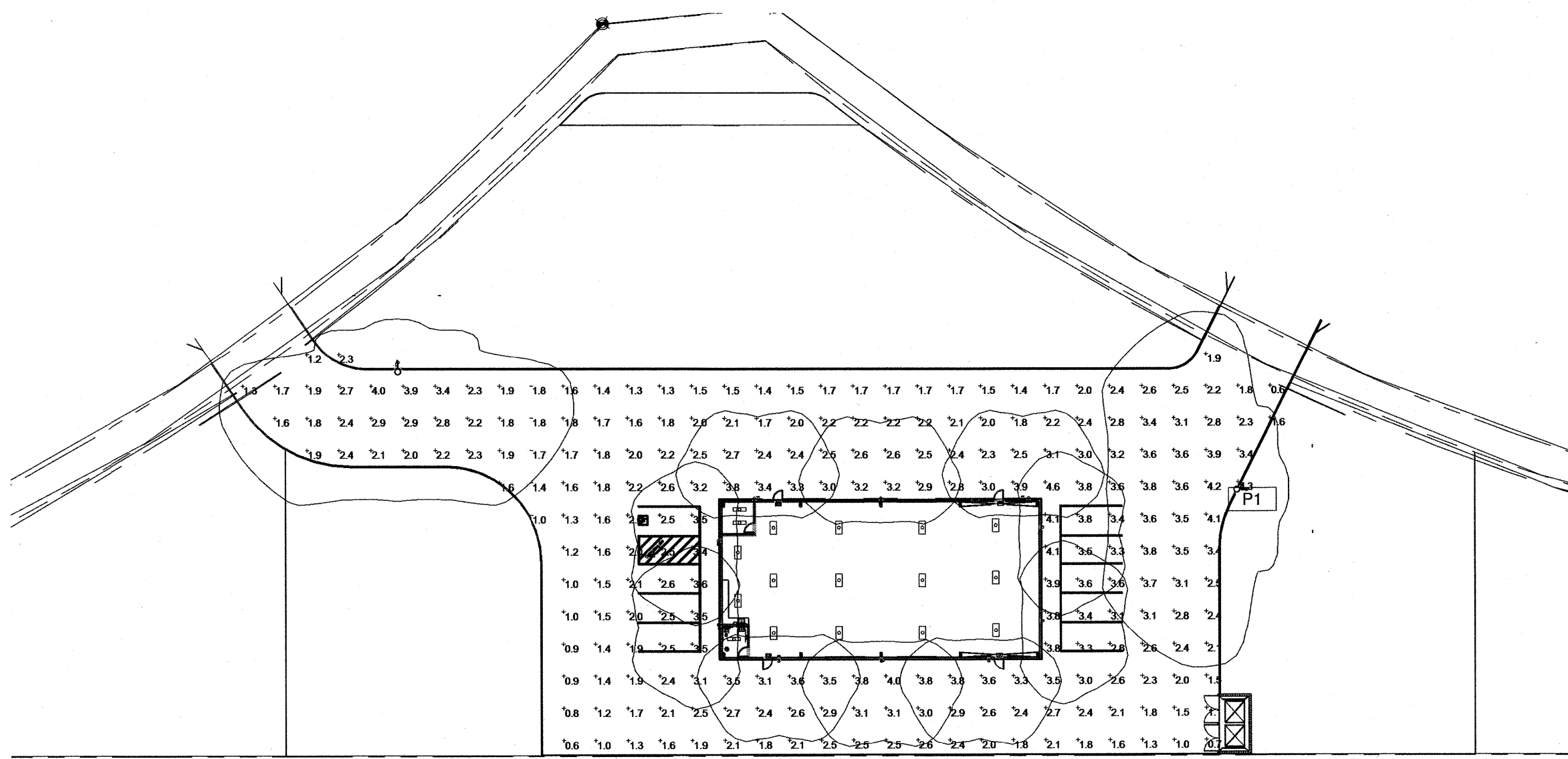
DATE
9-17-15
SCALE
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JOB NO

SHEET
E2



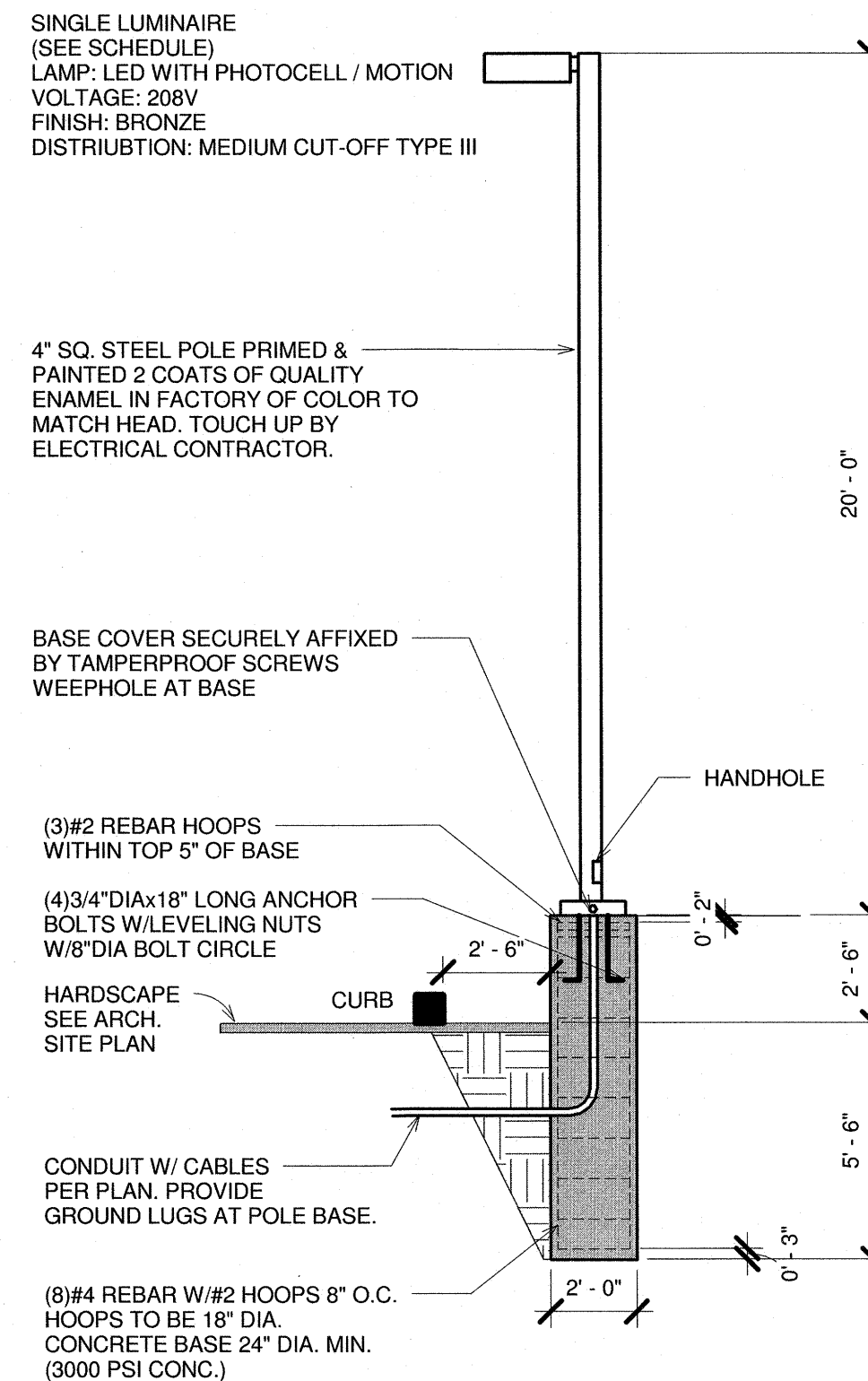
1 ELECTRICAL SITE PLAN

SCALE: 1" = 20'-0"



2 PHOTOMETRIC STUDY

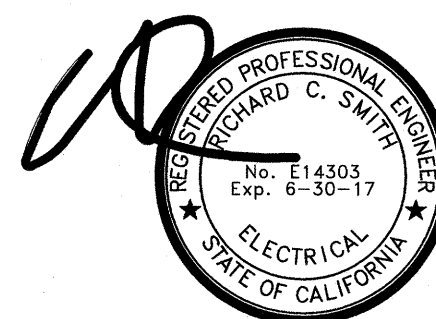
SCALE: 1" = 40'-0"



3 LIGHT STANDARD RAISED BASE

SCALE: 1/4" = 1'-0"

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HVAC EQUIPMENT SCHEDULE						
Mark	Electrical Data	AMP	DISCONNE CT	FUSE	Circuit Number	BRANCH CIRCUIT
CU-1	200 V/2-2496 VA	12	30/2	15	LHV-1,3	3/4"C-2#12+1#12 GND
AC-1	200 V/2-208 VA	1	MANUAL MOTOR DISC	1		3/4"C-2#12+1#12 GND TO CU-1
EF-1	115 V/1-696 VA	5.8	MANUAL MOTOR DISC	-	LHV-5	1/2"C-2#12+1#12 GND

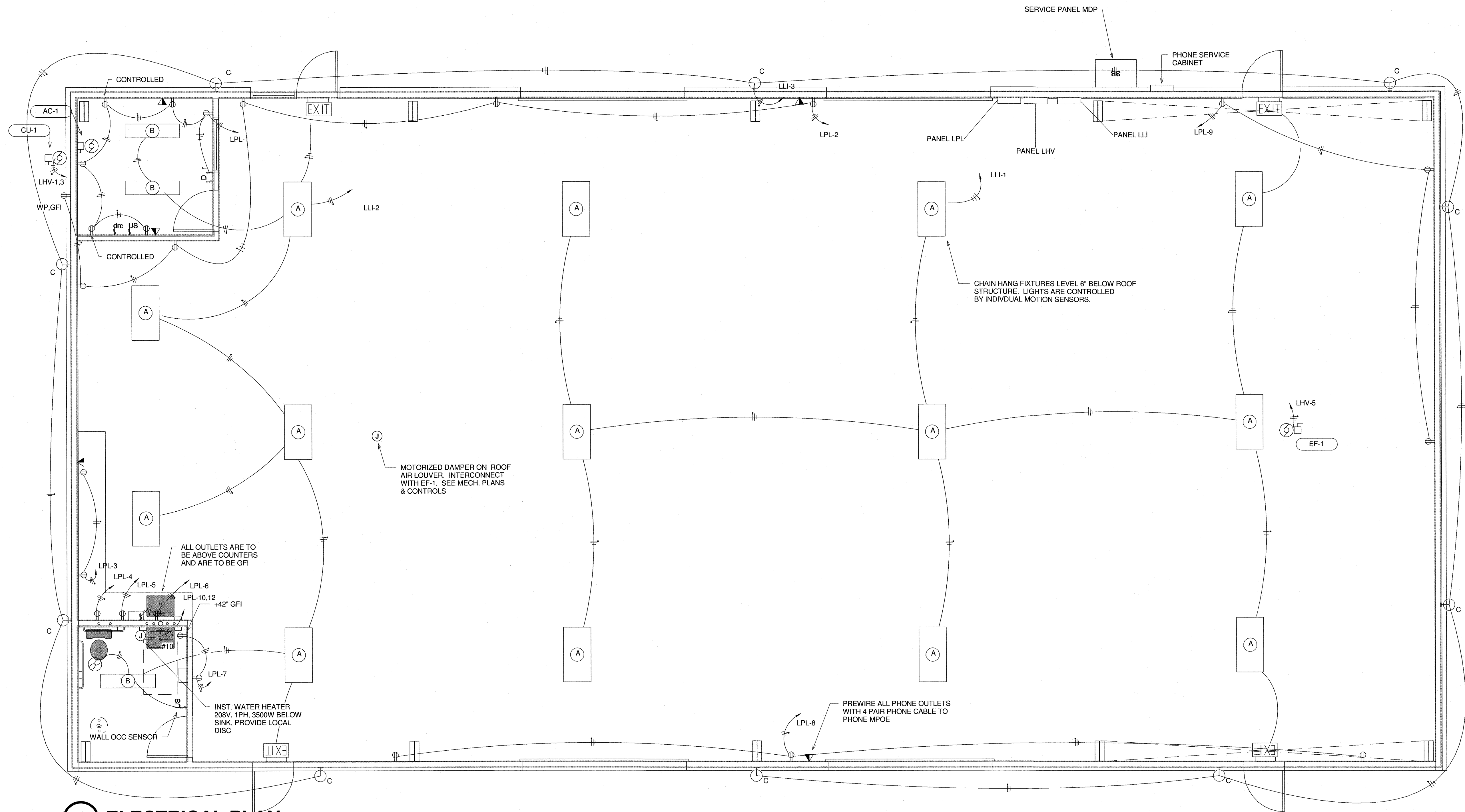
FIXTURE SCHEDULE					
Type Mark	Lamp	Description	Manufacturer	Model	Apparent Load
A	LED	CHAIN HUNG LED INDUSTRIAL FIXTURE WITH LENS AND MOTION SENSOR	LITHONIA	IBL 1L WD - LP840 - MVOLT - OCC	52 VA
B	LED	4' SURFACE MOUNT LED WRAP	LITHONIA	STL4 - 40L - 40W- LP840	40 VA
C	LED	WALL MOUNT LED AREA LIGHT WITH PHOTOCELL CONTROL	LITHONIA	DSXW2 LED 30C 700 40K T4M MVOLT	71 VA
EXIT	LED	COMBINATION EXIT SIGN/EGRESS LIGHT UNIT, 90 MINUTE BATTERY BACKUP, UNIVERSAL MOUNT WITH REMOTE	LITHONIA	LHQM SW1R120/277 ELN WITH LED REMOTE	1 VA
P1	LED	20" SQUARE POLE MOUNTED TO 26" BASE SEE LIGHT STANDARD DETAIL, FIXTURE TO HAVE PHOTOCELL AND MOTION SENSOR	LITHONIA	DSX1 LED 60C 700 50K T3M MVOLT	131 VA

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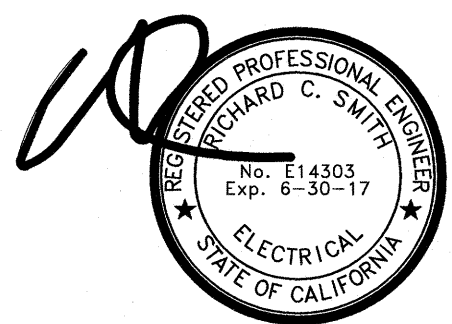
PROJECT: WAREHOUSE & MAINTENANCE BUILDING
CLIENT: KEYSTONE CORPORATION
LOCATION: PATTERSON, CA

DRAWN
CHECKED
DATE 9-17-15
SCALE 1/4" = 1'-0"
JOB NO
SHEET
E3



1 ELECTRICAL PLAN
SCALE: 1/4" = 1'-0"

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CSG CONSULTANTS INC.
DEC 04 2015
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PANEL LLI

Location: Room 2
Supply From: PANEL MDP
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 10,000
Mains Type: MLO
Mains Rating: 60 A
MCB Rating: 60 A

Notes:

CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT
LLI-1	Lighting	20 A	1	1125 VA	796 VA		1	20 A	LIGHTING	LLI-2
LLI-3	Lighting	20 A	1		710 VA	262 VA	2	20 A	LIGHT STANDARDS	LLI-4
LLI-5						0 VA	--	--		LLI-6
LLI-7										LLI-8
LLI-9										LLI-10
LLI-11										LLI-12
LLI-13										LLI-14
LLI-15										LLI-16
LLI-17										LLI-18
LLI-19										LLI-20
LLI-21						0 VA	1	20 A	Spare	LLI-22
LLI-23										LLI-24
LLI-25				0 VA		0 VA	1	20 A	Spare	LLI-26
LLI-27					0 VA		1	20 A	Spare	LLI-28
LLI-29						0 VA	1	20 A	Spare	LLI-30
Total Load:				1921 VA	972 VA	0 VA				
Total Amps:				17 A	9 A	0 A				

Legend:

PANEL LHV

Location:
Supply From: PANEL MDP
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 10,000
Mains Type: MLO
Mains Rating: 200 A
MCB Rating: 200 A

Notes:

CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT
LHV-1	CU-1	20 A	2	1248 VA						LHV-2
LHV-3		--	--		1248 VA					LHV-4
LHV-5	EF-1	20 A	1			696 VA				LHV-6
LHV-7										LHV-8
LHV-9										LHV-10
LHV-11										LHV-12
LHV-13										LHV-14
LHV-15										LHV-16
LHV-17										LHV-18
LHV-19										LHV-20
LHV-21										LHV-22
LHV-23						0 VA	1	20 A	Spare	LHV-24
LHV-25				0 VA		0 VA	1	20 A	Spare	LHV-26
LHV-27					0 VA		1	20 A	Spare	LHV-28
LHV-29						0 VA	1	20 A	Spare	LHV-30
Total Load:				1248 VA	1248 VA	696 VA				
Total Amps:				11 A	11 A	6 A				

Legend:

PANEL LPL

Location:
Supply From: PANEL MDP
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

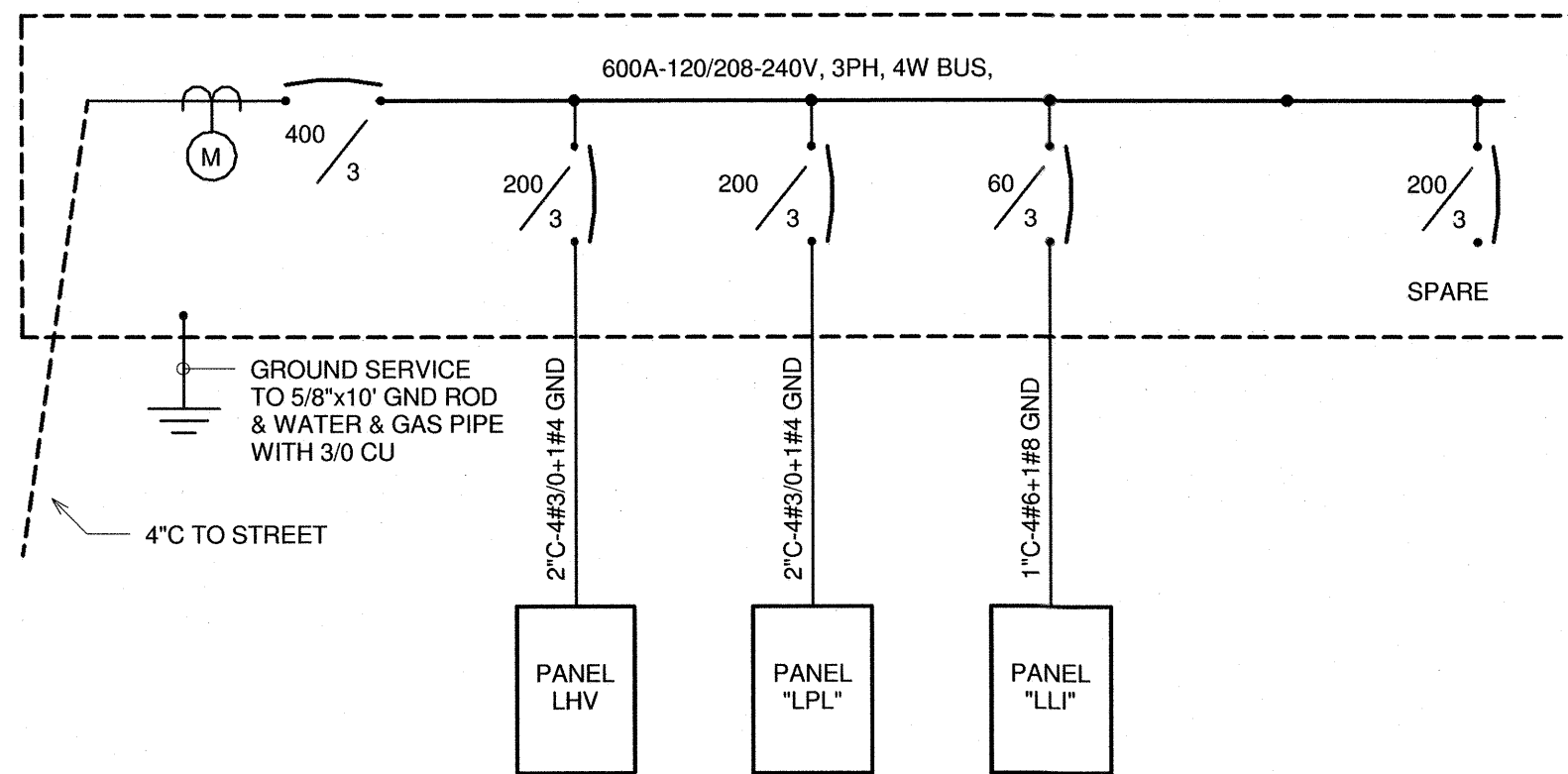
A.I.C. Rating: 10,000
Mains Type: MLO
Mains Rating: 200 A
MCB Rating: 200 A

Notes:

CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT
LPL-1	OUTLETS	20 A	1	1080 VA	1080 VA		1	20 A	Receptacle	LPL-2
LPL-3	Receptacle	20 A	1		360 VA	180 VA	1	20 A	Receptacle	LPL-4
LPL-5	Receptacle	20 A	1				1	20 A	OUTLETS	LPL-6
LPL-7	Receptacle	20 A	1	360 VA	540 VA		1	20 A	Receptacle	LPL-8
LPL-9	Receptacle	20 A	1		540 VA	250 VA	2	30 A	WATER HEATER	LPL-10
LPL-11	IRRIGATION CONTROLLER	20 A	1			180 VA	--	--		LPL-12
LPL-13										LPL-14
LPL-15										LPL-16
LPL-17										LPL-18
LPL-19										LPL-20
LPL-21					0 VA		1	20 A	Spare	LPL-22
LPL-23						0 VA	1	20 A	Spare	LPL-24
LPL-25				0 VA			1	20 A	Spare	LPL-26
LPL-27					0 VA		1	20 A	Spare	LPL-28
LPL-29						0 VA	1	20 A	Spare	LPL-30
Total Load:				3060 VA	1330 VA	1474 VA				
Total Amps:				26 A	11 A	12 A				

Legend:

MAIN DISTRIBUTION PANEL "MDP" : NEMA 3R

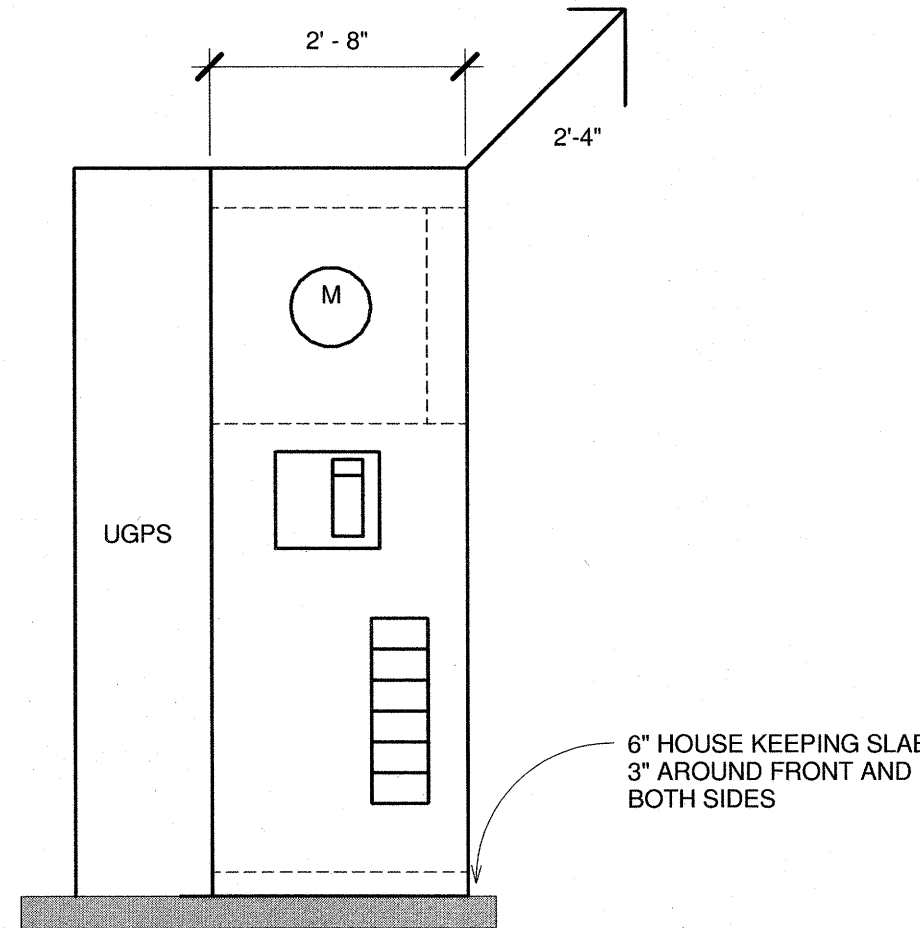


1 ONE LINE DIAGRAM

SCALE: 1/2" = 1'-0"

2 SERVICE ELEVATION

SCALE: 1/2" = 1'-0"



NOTES: MAIN SERVICE SWITCHBOARD

- ALL DIMENSIONS ARE NOMINAL.
- THE COMPLETE SWITCHBOARD SHALL HAVE A SYMMETRICAL SHORT CIRCUIT RATING EQUAL TO OR GREATER THAN THAT AVAILABLE FROM THE UTILITY COMPANY.
- MINIMUM INTEGRAL A.I.C. RATING OF SWITCHBOARD AND FEEDER CIRCUIT BREAKERS TO BE 22,000 AMPS.
- BOLT SECTIONS OF THE SWITCHBOARD TOGETHER WITH 1/2" BOLT AND NUTS AT 4 PLACES PER SECTION.
- BOLT EACH SECTION OF SWITCHBOARD TO FLOOR WITH (4) 1/2"x3" ANCHOR BOLTS.

PANEL MDP

Location:
Supply From:
Mounting: FREESTANDING
Enclosure: NEMA 3R

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 22,000
Mains Type:
Mains Rating: 400 A
MCB Rating:

Notes:

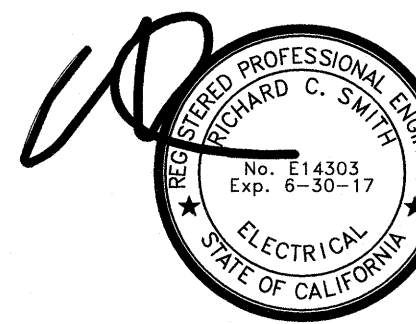
CKT	Circuit Description	Trip Rating	Number of Poles	Load	Remarks
MDP-1	PANEL LPL	200 A	3	5864 VA	
MDP-2	PANEL LHV	200 A	3	3192 VA	
MDP-3	PANEL LLI	60 A	3	2862 VA	
MDP-4					
MDP-5					
MDP-6					
MDP-7					
MDP-8					
MDP-9					
MDP-10					
MDP-11					
MDP-12					
Total Conn....				11951 VA	
Total Amps:				33 A	

Legend:

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CSG CONSULTANTS INC.

DEC 04 2015

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PROJECT: WAREHOUSE & MAINTENANCE BUILDING

CLIENT: KEYSTONE CORPORATION

LOCATION: PATTERSON, CA

ELECTRICAL DETAILS

DRAWN

CHECKED

DATE

9-17-15

SCALE

As indicated

JOB NO

SHEET

E4

STATE OF CALIFORNIA INDOOR LIGHTING CERTIFICATE OF COMPLIANCE (Page 3 of 6) Project Name: KEYSTONE CORPORATION Date Prepared: 10/6/2015

YES	NO	Form/Title	
	<input checked="" type="checkbox"/>	NRCA-LTI-02-A - Must be submitted for occupancy sensors and automatic time switch controls.	<input type="checkbox"/> Field Inspector
	<input checked="" type="checkbox"/>	NRCA-LTI-03-A - Must be submitted for automatic daylight controls.	<input type="checkbox"/> Field Inspector
	<input checked="" type="checkbox"/>	NRCA-LTI-04-A - Must be submitted for demand responsive lighting controls.	<input type="checkbox"/> Field Inspector

A separate Lighting Schedule Must be Filled Out for Conditioned and Unconditioned Spaces. Installed Lighting Power listed on this Lighting Schedule is only for:
☐ CONDITIONED SPACE ☐ UNCONDITIONED SPACE

F. Indoor Lighting Schedule and Field Inspection Energy Checklist
☐ The actual indoor lighting power listed on this page and on the next page includes all installed permanent and planned portable lighting systems.
☐ When Complete Building Method is used for compliance, list each different type of luminaire on separate lines.
☐ When Area Category Method or Tailored Method is used for compliance, list each different type of luminaire by each different function area on separate lines
☐ Also include track lighting in schedule, and submit the track lighting compliance form (NRCC-LTI-05-E) when line-voltage track lighting is installed.

CA Building Energy Efficiency Standards - 2013 Nonresidential Compliance

May 2015

STATE OF CALIFORNIA INDOOR LIGHTING CERTIFICATE OF COMPLIANCE (Page 5 of 6) Project Name: KEYSTONE CORPORATION Date Prepared: 10/6/2015

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT
1. I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Richard Smith, PE #E14303
Signature Date: 10/6/2015
Address: 4512 Feather River Dr #F
City/State/Zip: Stockton, CA 95219
Phone: 209-478-8270

RESPONSIBLE PERSON'S DECLARATION STATEMENT
I certify the following under penalty of perjury, under the laws of the State of California:
1. The information provided on this Certificate of Compliance is true and correct.
2. 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 (responsible designer).
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. 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 builder provides to the building owner at occupancy.

Responsible Designer Name: Richard Smith
Signature Date: 10/6/2015
Address: 4512 Feather River Dr #F
City/State/Zip: Stockton, CA 95219
Phone: 209-478-8270

CA Building Energy Efficiency Standards - 2013 Nonresidential Compliance

May 2015

STATE OF CALIFORNIA INDOOR LIGHTING - LIGHTING CONTROLS CERTIFICATE OF COMPLIANCE (Page 2 of 3) Project Name: KEYSTONE CORPORATION Date Prepared: 10/6/2015

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

MANDATORY AND PRESCRIPTIVE INDOOR LIGHTING CONTROL SCHEDULE, PAF CALCULATION, and FIELD INSPECTION CHECKLIST

Lighting Control Schedule		Standards Complying With 1 (✓ if all that apply, or enter "E" if Exempted)										PAF Credit Calculation 2		Field Inspector 3		
A	Type/Description of Lighting Control (i.e.: occupancy sensor, automatic time switch, dimmer, automatic daylight, etc...)	C	D	E	F	G	H	I	J	K	L	M	N	O	Pass	Fail
OFFICE	Occ Sensor - <= 125 sqft									80	0.40	32			<input checked="" type="checkbox"/>	<input type="checkbox"/>
Control Credit PAGE TOTAL (Sum of Column M):														32		
IF MULTIPLE PAGES ARE USED, ENTER SUM TOTAL OF Control Credit for all pages HERE (Sum of all Column M):														32		
Enter Control Credit total into NRCC-LTI-01-E, Page 1.																

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) = Additional lighting controls installed to earn a PAF. \$140.6(d) = Prescriptive Secondary Side-Direct Daylight Controls.
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 also required to be filled out, signed, and submitted.

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STATE OF CALIFORNIA INDOOR LIGHTING CERTIFICATE OF COMPLIANCE (Page 2 of 6) Project Name: KEYSTONE CORPORATION Date Prepared: 10/6/2015

C. Summary of Allowed Lighting Power
Conditioned and Unconditioned space Lighting must not be combined for compliance.

Indoor Lighting Power for Conditioned Spaces		Indoor Lighting Power for Unconditioned Spaces	
1.	Watts	1.	Watts
Installed Lighting NRCC-LTI-01-E, page 4	80	Installed Lighting NRCC-LTI-01-E, page 4	1,790
PORTABLE ONLY FOR OFFICES NRCC-LTI-01-E, page 3			
Minus Lighting Control Credits NRCC-LTI-02-E, page 2	- 32	Minus Lighting Control Credits NRCC-LTI-02-E, page 2	- 0
Adjusted Installed Lighting Power (row 1 plus row 2 minus row 3)	= 48	Adjusted Installed Lighting Power (row 1 minus row 3)	= 1,790
Complies ONLY if Installed < Allowed		Complies ONLY if Installed < Allowed	
Allowed Lighting Power Conditioned NRCC-LTI-03-E, page 1	60	Allowed Lighting Power Unconditioned NRCC-LTI-03-E, page 1	2,820

D. Declaration of Required Installation Certificates
Declare by selecting yes for all Installation Certificates that will be submitted. (Retain copies and verify forms are completed and signed.)

YES	NO	Form/Title	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRCA-LTI-01-E - Must be submitted for all buildings	<input type="checkbox"/> Field Inspector
<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRCA-LTI-02-E - Must be submitted for a lighting control system, or for an Energy Management Control System (EMCS), to be recognized for compliance.	<input type="checkbox"/> Field Inspector
<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRCA-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.	<input type="checkbox"/> Field Inspector
<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRCA-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.	<input type="checkbox"/> Field Inspector
<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRCA-LTI-05-E - Must be submitted for a Power Adjustment Factor (PAF) to be recognized for compliance.	<input type="checkbox"/> Field Inspector
<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRCA-LTI-06-E - Must be submitted for additional wattage installed in a video conferencing studio to be recognized for compliance.	<input type="checkbox"/> 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.)

CA Building Energy Efficiency Standards - 2013 Nonresidential Compliance

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STATE OF CALIFORNIA INDOOR LIGHTING CERTIFICATE OF COMPLIANCE (Page 1 of 6) Project Name: KEYSTONE CORPORATION Date Prepared: 10/6/2015

A. General Information
Climate Zone: 12
Conditioned Floor Area: 100
Unconditioned Floor Area: 4,700

Building Type: ☒ Nonresidential ☐ High-Rise Residential ☐ Hotel/Motel
☐ Schools ☐ Relocatable Public Schools ☐ Conditioned Spaces ☒ Unconditioned Spaces

Phase of Construction: ☒ New Construction ☐ Addition ☐ Alteration

Method of Compliance: ☒ Complete Building ☐ Area Category ☐ Tailored

Project Address:

B. Lighting Compliance Documents (select yes for each document included)
For detailed instructions on the use of this and all Energy Efficiency Standards compliance documents, refer to the Nonresidential Manual published by the California Energy Commission.

YES	NO	FORM	TITLE
<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRCC-LTI-01-E	Certificate of Compliance. All Pages required on plans for all submittals.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRCC-LTI-02-E	Lighting Controls, Certificate of Compliance, and PAF Calculation. All Pages required on plans for all submittals.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRCC-LTI-03-E	Indoor Lighting Power Allowance
<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRCC-LTI-04-E	Tailored Method Worksheets
<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRCC-LTI-05-E	Line Voltage Track Lighting Worksheets

CA Building Energy Efficiency Standards - 2013 Nonresidential Compliance

May 2015

STATE OF CALIFORNIA INDOOR LIGHTING CERTIFICATE OF COMPLIANCE (Page 5 of 6) Project Name: KEYSTONE CORPORATION Date Prepared: 10/6/2015

A separate Lighting Schedule Must be Filled Out for Conditioned and Unconditioned Spaces. Installed Lighting Power listed on this Lighting Schedule is only for:
☒ CONDITIONED SPACE ☐ UNCONDITIONED SPACE

C. INDOOR LIGHTING SCHEDULE and FIELD INSPECTION ENERGY CHECKLIST

Luminaire Schedule		Installed Watts		Location		Field Inspector 1	
A	B	C	D	E	F	G	H
Name or Item Tag	Complete Luminaire Description (i.e.: 3 lamp fluorescent troffer, F32TB, one dimmable electronic ballast)	Watts per Luminaire	How wattage was determined CCC Default from IESNA According to §130.0(c)	Number of Luminaires	Total Installed Watts in this area (C x E x F)	Primary Function area in which these luminaires are installed	Pass Fail
B	4" SURFACE LED WRAP LIGHT	40.0	<input checked="" type="checkbox"/>	2	80	Office <= 250 sqft	<input type="checkbox"/> <input type="checkbox"/>
INSTALLED WATTS PAGE TOTAL:						80	
Enter sum total of all pages into NRCC-LTI-01-E, Page 2							

CA Building Energy Efficiency Standards - 2013 Nonresidential Compliance

May 2015

STATE OF CALIFORNIA INDOOR LIGHTING - LIGHTING CONTROLS CERTIFICATE OF COMPLIANCE (Page 1 of 3) Project Name: KEYSTONE CORPORATION Date Prepared: 10/6/2015

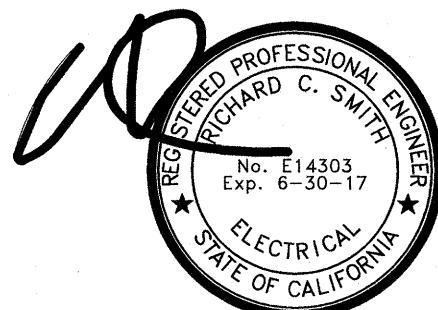
The NRCC-LTI-02-E shall be used to document all mandatory and prescriptive lighting controls that are applicable to the project.

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

YES	NO	Control Requirements
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Lighting shall be controlled by self-contained lighting control devices which are certified to the Energy Commission according to the Title 20 Appliance Efficiency Regulations in accordance with Section 110.9.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Lighting shall be controlled by a lighting control system or energy management control system in accordance with §110.9. An Installation Certificate shall be submitted in accordance with Section 130.4(b).
<input checked="" type="checkbox"/>	<input type="checkbox"/>	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 §130.0. Additionally, an Installation Certificate shall be submitted in accordance with Section 130.4(b).
<input checked="" type="checkbox"/>	<input type="checkbox"/>	A Track Lighting Supplementary Overcurrent Protection Panel shall be installed in accordance with Section 110.9 and Section 130.0. Additionally, an Installation Certificate shall be installed in accordance with Section 130.4(b).
<input checked="" type="checkbox"/>	<input type="checkbox"/>	All lighting controls and equipment shall comply with the applicable requirements in §110.9 and shall be installed in accordance with the manufacturer's instructions in accordance with Section 130.1.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	All luminaires shall be functionally controlled with manually switched ON and OFF lighting controls in accordance with Section 130.1(a).
<input checked="" type="checkbox"/>	<input type="checkbox"/>	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, and special effects lighting shall each be separately controlled; in accordance with Section 130.1(a).
<input checked="" type="checkbox"/>	<input type="checkbox"/>	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 multi-level lighting control requirements in accordance with Section 130.1(b).
<input checked="" type="checkbox"/>	<input type="checkbox"/>	All installed indoor lighting shall be equipped with controls that meet the applicable Shut-Off control requirements in Section 130.1(c).
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Lighting in all Daylit Zones shall be controlled in accordance with the requirements in Section 130.1(d) and daylight zones are shown on the plans.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	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).
<input checked="" type="checkbox"/>	<input type="checkbox"/>	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 controls, and demand responsive controls.

CA Building Energy Efficiency Standards - 2013 Nonresidential Compliance

May 2015



H C S ENGINEERING, INC.
CONSULTING ELECTRICAL ENGINEERS
4512 FEATHER RIVER DRIVE, SUITE F
STOCKTON, CA 95219 (209) 478-8270
email address richard@hcs-eng.com

Reviewed for Code Compliance
GSG CONSULTANTS INC.
DEC 04 2015
Reviewed By

Revision Description
Revision Date

COMMERCIAL ARCHITECTURE INC.

THEODORE J. BRANDVOLD, ARCHITECT
616 14TH STREET, MODESTO, CA 95354
PH (209) 571-8158 FAX (209) 571-8158

PROJECT: WAREHOUSE & MAINTENANCE BUILDING

CLIENT: KEYSTONE CORPORATION

LOCATION: PATTERSON, CA

DRAWN
CHECKED
DATE 9-17-15
SCALE
JOB NO
SHEET

LIGHTING COMPLIANCE

ET24A

CA Building Energy Efficiency Standards - 2013 Nonresidential Compliance

CA Building Energy Efficiency Standards - 2013 Nonresidential Compliance May 2015

CA Building Energy Efficiency Standards - 2013 Nonresidential Compliance May 2015

CA Building Energy Efficiency Standards - 2013 Nonresidential Compliance

2013 Building Energy Efficiency Standards - 2013 Nonresidential Compliance

CA Building Energy Efficiency Standards - 2013 Nonresidential Compliance May 2015

CA Building Energy Efficiency Standards - 2013 Nonresidential Compliance June 2013

CA Building Energy Efficiency Standards - 2013 Nonresidential Compliance June 2013

Reviewed for Code Compliance
CSG CONSULTANTS INC.
DEC 04 2015
Reviewed By Am/mrb

H C S ENGINEERING, INC.
CONSULTING ELECTRICAL ENGINEERS
4512 FEATHER RIVER DRIVE, SUITE F
STOCKTON, CA 95219 (209) 478-8270
email address richard@hcs-eng.com

DRAWN
CHECKED
DATE 9-17-15
SCALE
JOB NO
SHEET

ET24B

PROJECT: WAREHOUSE & MAINTENANCE BUILDING

CLIENT: KEYSTONE CORPORATION

LOCATION: PATTERSON, CA

THEODORE J. BRANDVOLD, ARCHITECT
616 14TH STREET, MODESTO, CA 95354
PH (209) 571-8158 FAX (209) 571-8160

Revision Description	Revision Date
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Revision Description	Revision Date
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OUTDOOR LIGHTING CONTROLS CEC-MS-C-100-010-010 (Rev. 09/18) CERTIFICATE OF COMPLIANCE Outdoor Lighting Controls		CALIFORNIA ENERGY COMMISSION RICC-C-170-02 (Page 3 of 4)	
Project Name: KEYSTONE CORPORATION		Date Prepared: 10/6/2015	
DOCUMENTATION AUTHOR'S DECLARATION STATEMENT I, _____, certify that this Certificate of Compliance documentation is accurate and complete. Documentation Author Name: Richard Smith, PE #E14303 Documentation Author Signature: 			
Company: HCS Engineering, Inc.		Signature Date: 03/05/2015	
Address: 4512 Feather River Dr #F		CEA Certification Identification (If applicable): E14303	
City/State/Zip: Stockton, CA 95219		Phone: 208-478-8270	
RESPONSIBLE PERSON'S DECLARATION STATEMENT I, _____, certify the following under penalty of perjury, under the laws of the State of California: 1. The information provided on this Certificate of Compliance is true and correct. 2. 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 (responsible designer). 3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations. 4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other available compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application. 5. I warrant 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 builder provides to the building owner at occupancy.			
Responsible Designer Name: Richard Smith		Responsible Designer Signature: 	
Company: HCS Engineering, Inc.		Date Signed: _____	
Address: 4512 Feather River Dr #F		Phone: PE E14303	
City/State/Zip: Stockton, CA 95219		Phone: 208-478-8270	

CA Building Energy Efficiency Standards - 2013 Nonresidential Compliance

May 2015

<p>STATE OF CALIFORNIA OUTDOOR LIGHTING CONTROLS <small>(REPLACES TITLE 24 (Barefoot 2011))</small></p> <p>CERTIFICATE OF COMPLIANCE Outdoor Lighting Controls</p> <p>Project Name: KEYSTONE CORPORATION</p>	<p><small>CALIFORNIA ENERGY COMMISSION</small> NRCC-LTO-02-E <small>(Page 1 of 3)</small></p> <p>Date Prepared: 10/8/2015</p>
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
The NRCC-LTO-02-E shall be used to document all mandatory outdoor lighting controls that are applicable to the project.


Mandatory Outdoor Lighting Control Declaration Statements

I, the undersigned, hereby certify that:

- ☐ Lighting shall be controlled by self-contained lighting control devices which are certified to the Energy Commission according to the Title 20 Appliance Efficiency Regulations in accordance with §110.9(a).
- ☐ Lighting shall be controlled by a lighting control system or energy management control system in accordance with §110.9. An installation Certificate shall be submitted in accordance with §130.4(b).
- ☒ All lighting controls and equipment shall comply with the applicable requirements in §110.9 and shall be installed in accordance with the manufacturer's instructions in accordance with §130.1.
- ☐ Part-Night Outdoor Lighting Controls, as defined in Section 100.1(b), shall meet the requirements in Section 110.9(b)(5).
- ☐ All outdoor incandescent luminaires rated over 100 watts, determined in accordance with Section 130.0(c), shall be controlled by a motion sensor.
- ☐ All outdoor luminaires rated for use with lamps greater than 150 lamp watts, determined in accordance with Section 130.0(c), shall comply with Backlight, Uplight, and Glare (collectively referred to as "BUG") in accordance with Section 130.2(b).
- ☐ All installed outdoor lighting shall be controlled by a photocontrol or outdoor astronomical time-switch control in accordance with Section 130.2(c)(1).
- ☒ All installed outdoor lighting shall be circuted and independently controlled from other electrical loads by an automatic scheduling control in accordance with Section 130.2(c)(2).
- ☐ All installed outdoor lighting, where the bottom of the luminaire is mounted 24 feet or less above the ground, shall be controlled with automatic lighting controls in accordance with Section 130.2(c)(3).
- ☐ For Outdoor Sales Frontage, Outdoor Sales Lots, and Outdoor Sales Canopies lighting, an automatic lighting control in accordance with Section 130.2(c)(4).
- ☐ For Building Facade, Ornamental Hardscape and Outdoor Dining lighting, an automatic lighting control in accordance with Section 130.2(c)(5).
- ☒ 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 occupancy, using lighting controls serving the building, area, or site shall be certified as meeting the Acceptance Requirements for Code Compliance in accordance with §130.4(a). Outdoor lighting controls shall comply with the applicable requirements of Section 130.2(c) and Reference Nonresidential Appendix NAB.7.

STATE OF CALIFORNIA OUTDOOR LIGHTING POWER ALLOWANCES <small>2024 NBC LTO-03-E (Revised 09/18)</small>		CALIFORNIA ENERGY COMMISSION NRC-LTO-03-E <small>(Page 4 of 4)</small>	
CERTIFICATE OF COMPLIANCE Outdoor Lighting Power Allowances			
Project Name: KEYSTONE CORPORATION		Date Prepared: 10/6/2015	

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT			
I certify that this Certificate of Compliance documentation is accurate and complete.			
Documentation Author Name: Richard Smith, PE #E14303	Documentation Author Signature: 		
Company: HCS Engineering, Inc.	Signature Date: 10/6/2015		
Address: 4512 Feather River Dr #F	CEA Certification Identification (if applicable): E14303		
City/State/Zip: Stockton, CA 95219	Phone: 209-478-8270		

RESPONSIBLE PERSON'S DECLARATION STATEMENT			
I certify the following under penalty of perjury, under the laws of the State of California:			
1. The information provided on this Certificate of Compliance is true and correct.			
2. 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 (responsible designer).			
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.			
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.			
5. 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 builder provides to the building owner at occupancy.			
Responsible Designer Name: Richard Smith	Responsible Designer Signature: 		
Company: HCS Engineering, Inc.	Date Signed:		
Address: 4512 Feather River Dr #F	License: PE E14303		
City/State/Zip: Stockton, CA 95219	Phone: 209-478-8270		

Revision Description	Revision Date
<div><div>COMMERCIAL ARCHITECTURE INC.</div><div>THEODORE J. BRANDVOLD, ARCHITECT 5416 44TH STREET, MCLELLAND, CA 94568 PH (209) 571-8153 FAX (209) 571-8160</div></div>	
<div><div>PROJECT: WAREHOUSE & MAINTENANCE BUILDING</div><div>CLIENT: KEYSTONE CORPORATION</div><div>LOCATION: PATTERSON, CA</div></div>	
<div><div>DRAWN</div><div>CHECKED</div><div>DATE 9-17-15</div><div>SCALE</div><div>JOB NO</div><div>SHEET</div></div>	
ET24C	

A circular professional engineer seal for the State of California. The outer ring contains the text "REGISTERED PROFESSIONAL ENGINEER" at the top and "STATE OF CALIFORNIA" at the bottom, separated by two stars. The inner circle contains the name "RICHARD C. SMITH", the license number "No. E14303", and the expiration date "Exp. 6-30-17". The word "ELECTRICAL" is written in a larger font at the bottom of the inner circle. A handwritten signature is written over the top left portion of the seal.

Reviewed for Code Compliance
CSG CONSULTANTS INC.

DEC 04 2015

[Signature]
Reviewed By

K:\2015\301-400\CA KeyStonePatterson\KeyStone Electrical.rvt