

ABBREVIATIONS

4S/DP	4" SQUARE BY 2-1/8" DEEP BOX	GFCI	GROUND FAULT CIRCUIT INTERRUPTER	NO	NORMALLY OPENED
ADA	AMERICAN WITH DISABILITIES ACT	GFP	GROUND FAULT PROTECTION	NF	NOT IN CONTRACT
A.F.F.	ABOVE FINISH FLOOR	GE or GEC	GROUNDING ELECTRODE CONDUCTOR	NIC	NOT TO SCALE
A.F.G.	ABOVE FINISH GRADE	HACR	HEATING AIR CONDITIONING	N.I.S.	NIGHT LIGHT
AWG	AMERICAN WIRE GAUGE	HOA	HAND-OFF-AUTO	NL	NUMBER
AMP, A	AMPERE	HVAC	HEATING, VENTILATING AND AIR CONDITIONING	NO, or #	OWNER FURNISHED, CONTRACTOR INSTALLED
A.I.C. or AIC	AMPERES INTERRUPTING CAPACITY (SYMMETRICAL)	H,W,D,L	HEIGHT, WIDTH, DEPTH, LENGTH	#Z	PERCENT IMPEDANCE
A.F.C. or AFC	AVAILABLE FAULT CURRENT	HID	HIGH INTENSITY DISCHARGE	PH, or ø	PHASE
AF/AT	AMP FRAME, AMP TRIP	HP	HORSEPOWER	PC	PHOTOCELL
AHJ	AUTHORITY HAVING JURISDICTION	HPS	HIGH PRESSURE SODIUM	P.C.	PLUMBING CONTRACTOR
AS/AF	AMP SWITCH, AMP FUSE	IN, or "	INCHES	P	POLE
ATS	AUTOMATIC TRANSFER SWITCH	I/G	ISOLATED GROUND	PVC	POLY VINYL CHLORIDE
AVG	AVERAGE	IBC	INTERNATIONAL BUILDING CODE	PDU	POWER DISTRIBUTION UNIT
BJ	BONDING JUMPER	I.D.C.S.	INTERMEDIATE DIMMING CONTROL PANEL	PROVIDE	OVER 600 VOLTS
BDP	BUILDING DISTRIBUTION FRAME	IDF	INTERMEDIATE DISTRIBUTION FRAME	PT	POTENTIAL TRANSFORMER
BR	BRANCH	JBOX	JUNCTION BOX	PI	PUBLIC ADDRESS
BLDG	BUILDING	K	DEGREE KELVIN	PD	DEMOTES RELOCATED DEVICE LOCATION
CB	CALIFORNIA BUILDING CODE	KMIL	THOUSAND CIRCULAR MILS	REC, RECEIPT	RECEPTACLE
CEC	CALIFORNIA ELECTRICAL CODE	KVA	KILOVOLT AMPERES	REF	REFRIGERATOR
CFD	CIRCUIT BREAKER	KW	KILOWATT	RGS	RIGID GALVANIZED STEEL
C	COMBINATION SMOKE FIRE DAMPER	L	LINEAR FEET	RMS	ROOT MEAN SQUARE
C.O.	CONDUIT ONLY, COMPLETE WITH PULLSTRING	LCL	LONG CONTINUOUS LOAD	SCC	SHORT CIRCUIT CURRENT
CONN	CONNECTED	LITG, LTS	LIGHTING	SCCR	SHORT CIRCUIT CURRENT RATING
CPT	CONTROL POWER TRANSFORMER	LPS	LOW PRESSURE SODIUM	SCS	STRUCTURED CABLING SYSTEM
CLCB	CURRENT LIMITING CIRCUIT BREAKER	MAX.	MAXIMUM	SCS	SMOKE FIRE DAMPER
CLF	CURRENT LIMITING FUSE	MBJ	MAIN BONDING JUMPER	SCCR	SHEET METAL AND AIR COND. CONTROLS W/ATL ASSOC.
CT	CURRENT TRANSFORMER	MDF	MAIN DISTRIBUTION FRAME	SCQ	SQUARE
CD	EXISTING DEVICE TO BE DEMOLISHED	MOCF	MAXIMUM OVERCURRENT PROTECTION	SSB	SUPPLY SIDE BONDING JUMPER
DIA	DISTRIBUTED ANTENNA SYSTEM	MCB	MAIN CIRCUIT BREAKER	SSJ	SYSTEM BONDING JUMPER
DIA	DIAMETER	MLO	MAIN LUGS ONLY	TC	TIMECLOCK
DISC	DISCONNECT	M.C.	MECHANICAL CONTRACTOR	TEL/DATA	TELEPHONE AND DATA
DIST	DISTRIBUTION	M	METER	TH	TRANSIENT VOLTAGE SURGE SUPPRESSION
D.P.C.S.	DIMMING PANEL CONTROL STATION	M/M	METER MAIN	TYP	TYPICAL
E.C.	ELECTRICAL CONTRACTOR	MV	MERCURY VAPOR	U.O.N.	UNDERGROUND NOTED SECTION UNLESS OTHERWISE NOTED
EMS	ENERGY MANAGEMENT CONTROL SYSTEM	MIN.	MINIMUM	U.P.S.	UNINTERRUPTIBLE POWER SYSTEM
EMT	ELECTRICAL METALLIC TUBING	MCA	MINIMUM CIRCUIT AMPS	V	VARIABLE AIR VOLUME
ENT	ELECTRICAL NON-METALLIC TUBING	MCC	MOTOR CONTROL CENTER	V	VOLTS
EW	ELECTRIC WATER COOLER	MCM	THOUSAND CIRCULAR MILS	VA	VOLT AMPERES
E.P.O.	EMERGENCY POWER OFF	MCP	MOTOR CIRCUIT PROTECTOR	VD	VOLTAGE DROP
E-Q-L	END-OF-LINE CIRCUIT TERMINATOR	MFR	MANUFACTURER	W	WEATHERPROOF
EF	EXHAUST FAN	MTD	MICROWAVE	W	WIRE
EG or EG or E/G	EQUIPMENT GROUND (GREEN)	MW	MICROWAVE	XFMR	TRANSFORMER
EG	EXISTING DEVICE TO REMAIN	NATS	NON AUTOMATIC DISCONNECT		
EP	EXPLOSION PROOF	NEC	NATIONAL ELECTRICAL CODE		
ET (R)	EXISTING DEVICE TO BE RELOCATED	NEMA	NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION		
FA or F.A.	FIRE ALARM	NC	NORMALLY CLOSED		
FL	FULL LOAD AMPS				
GRD	GROUND				

FIRE ALARM SYSTEM SYMBOLS

SEE FIRE ALARM OR CENTRAL MONITORING SYSTEM DRAWINGS FOR FIRE ALARM SYMBOLS.

SIGNAL SYSTEM SYMBOLS

B	WALL MOUNTED CLOCK. FIELD VERIFY MOUNTING HEIGHT PRIOR TO INSTALLATION. "B" INDICATES BATTERY OPERATED CLOCK. "D" INDICATES DIGITAL CLOCK, "NO LETTER" INDICATES ANALOG CLOCK. REFER TO SPECIFICATIONS.
C	CONCEALED CLOCK CONDUIT RUN 1/2" CONDUIT, OR AS NOTED, WITH CONDUCTORS PER SPECIFICATIONS.
HD	TV OUTLET, WALL MOUNTED. STUB A 3/4" C.O. UP 6" ABOVE THE ACCESSIBLE CEILING AND PROVIDE BUSHING.
TV	TV OUTLET FLUSH CEILING MOUNTED.
TV	CONCEALED TELEVISION CONDUIT RUN, 3/4" CONDUIT, OR AS NOTED, WITH CONDUCTORS - REFER TO SPECIFICATIONS.
HO	MICROPHONE OUTLET, WALL MOUNTED. PROVIDE 3/4" C.O. (WITH PULL ROPE) UP TO 6" ABOVE ACCESSIBLE CEILING SPACE. PROVIDE BUSHING AT EACH END.
HO	MICROPHONE OUTLET, FLUSH CEILING MOUNTED.
M	CONCEALED MICROPHONE CONDUIT RUN, 3/4" CONDUIT, OR AS NOTED, WITH CONDUCTORS - REFER TO SPECIFICATIONS.
HV	SURFACE WALL MOUNTED SPEAKER, "V" INDICATES VOLUME CONTROL.
SV	SURFACE MOUNTED SPEAKER, "V" INDICATES VOLUME CONTROL.
HOV	FLUSH WALL MOUNTED SPEAKER, "V" INDICATES VOLUME CONTROL.
OV	CEILING FLUSH MOUNTED SPEAKER, "V" INDICATES VOLUME CONTROL.
OV	ABOVE CEILING MOUNTED SPEAKER, "V" INDICATES VOLUME CONTROL.
HOV	VOLUME CONTROL, WALL MOUNTED.
S	CONCEALED SPEAKER CONDUIT RUN 3/4" CONDUIT, OR AS NOTED, WITH CONDUCTORS - REFER TO SPECIFICATIONS.

SECURITY ALARM SYSTEM SYMBOLS

SCAP	SECURITY ALARM CONTROL PANEL - SEE SPECIFICATIONS.
SPS	SECURITY SYSTEM POWER SUPPLY - SEE SPECIFICATIONS.
PI	SECURITY ALARM PASSIVE INFRARED MOTION SENSOR - SEE SPECIFICATIONS.
PI	SECURITY ALARM DUAL TECHNOLOGY MOTION SENSOR - SEE SPECIFICATIONS.
PI	SECURITY ALARM ULTRASONIC MOTION SENSOR - SEE SPECIFICATIONS.
PI	SECURITY ALARM DOOR CONTACT - SEE SPECIFICATIONS.
PI	SECURITY ALARM PANIC BUTTON - SEE SPECIFICATIONS.
PI	SECURITY ALARM KEY PAD - SEE SPECIFICATIONS.
PI	SECURITY ALARM GLASS BREAK INDICATOR - SEE SPECIFICATIONS.
SA	SECURITY ALARM SYSTEM BRANCH CIRCUIT PER SECURITY ALARM RISER DIAGRAM AND/OR SPECIFICATIONS.

ACCESS CONTROL SYSTEM SYMBOLS

ACCP	ACCESS CONTROL PANEL - SEE SPECIFICATIONS.
APS	ACCESS CONTROL SYSTEM POWER SUPPLY - SEE SPECIFICATIONS.
LPS	ACCESS CONTROL SYSTEM LOCK POWER SUPPLY - SEE SPECIFICATIONS.
KS	ACCESS CONTROL KEY SWITCH - SEE SPECIFICATIONS.
LA	ACCESS CONTROL LOCAL ALARM SOUNDER - SEE SPECIFICATIONS.
PR	ACCESS CONTROL PROXIMITY READER - SEE SPECIFICATIONS.
CR	ACCESS CONTROL CARD READER - SEE SPECIFICATIONS.
CP	ACCESS CONTROL KEY PAD - SEE SPECIFICATIONS.
ES	ACCESS CONTROL REQUEST TO EXIT SENSOR - SEE SPECIFICATIONS.
AC	ACCESS CONTROL SYSTEM BRANCH CIRCUIT PER ACCESS CONTROL RISER DIAGRAM AND/OR SPECIFICATIONS.

PROJECT SPECIFIC SYMBOLS

REQUIRED SPECIFICATION DEVIATIONS

THE FOLLOWING ITEM(S) ARE REQUIRED DEVIATIONS FROM THE DRAWINGS AND SPECIFICATIONS AND SHOULD BE INCLUDED AS PART OF THE BASE BID. THESE DEVIATIONS ARE AT THE DIRECTION OF THE OWNER:

NONE

ALLOWED SPECIFICATION DEVIATIONS

THE FOLLOWING ITEM(S) ARE ALLOWED DEVIATIONS FROM THE DRAWINGS AND SPECIFICATIONS. THESE DEVIATIONS ARE AT THE DIRECTION OF THE OWNER:

NONE

DEDUCTIVE/ADDITIVE ALTERNATE PRICING

IN ADDITION TO ANY DEDUCTIVE OR ADDITIVE LINE ITEM PRICING CALLED FOR ON THE DRAWING OR IN THE SPECIFICATIONS, CONTRACTOR SHALL PROVIDE SEPARATE LINE ITEM DEDUCTIVE/ADDITIVE ALTERNATE PRICING FOR EACH OF THE FOLLOWING ITEM(S):

NONE

ANNOTATIONS

A	PANEL CALLOUT, "A" INDICATES PANELBOARD OR EQUIPMENT DESIGNATION.
AC	MECHANICAL EQUIPMENT CALLOUT, "AC" INDICATES UNIT TYPE AND "2" INDICATES UNIT NUMBER. REFER TO MECHANICAL DRAWINGS FOR EXACT LOCATION AND ELECTRICAL REQUIREMENTS.
3	DETAIL CALLOUT, "3" INDICATES DETAIL NUMBER "E-1" INDICATES SHEET NUMBER.
2	PLAN NOTE REFERENCE, REFER TO NOTES ON SHEET, OR AS DIRECTED.
2	REVISION REFERENCE.
Y	WYE CONFIGURATION
Δ	DELTA CONFIGURATION
⏏	GROUND

CCTV SYSTEM SYMBOLS

CCVS	VIDEO MANAGEMENT SYSTEM - CCTV HEADEND - SEE SPECIFICATIONS.
CCVS	CCTV WORKSTATION AND MONITOR - SEE SPECIFICATIONS.
CCVS	CCTV FIXED POSITION CAMERA - SEE SPECIFICATIONS.
CCVS	CCTV PAN/TILT CAMERA - SEE SPECIFICATIONS.
CC	CCTV SYSTEM BRANCH CIRCUIT PER CCTV SYSTEM RISER DIAGRAM AND/OR SPECIFICATIONS.

TELEPHONE/DATA SYMBOLS

TELEPHONE OUTLET BOX, WALL MOUNTED. STUB A 1" C.O. UP 6" ABOVE THE ACCESSIBLE CEILING AND PROVIDE A BUSHING. 45/DP MINIMUM WITH SINGLE GANG RING.

"W" = WALL MOUNTED PHONE

"P" = PUBLIC (PAY) PHONE. VERIFY ALL REQUIREMENTS WITH THE TELEPHONE UTILITY COMPANY. PROVIDE 1" C.O. (MIN) TO THE MAIN TELEPHONE BACKBOARD, MOUNTING HEIGHT AS REQUIRED.

DATA OUTLET BOX, WALL MOUNTED. STUB A 1" C.O. UP 6-INCHES ABOVE THE ACCESSIBLE CEILING AND PROVIDE A BUSHING. 45/DP MINIMUM WITH SINGLE GANG RING.

COMBINATION TELEPHONE AND DATA OUTLET BOX, WALL MOUNTED. STUB A 1" C.O. UP 6-INCHES ABOVE THE ACCESSIBLE CEILING AND PROVIDE A BUSHING. 45/DP MINIMUM WITH SINGLE GANG RING.

TELEPHONE OUTLET BOX, FLUSH MOUNTED IN CEILING – MOUNT FLUSH IN FLOOR WHEN INDICATED IN 1" C.O. SYMBOL.

DATA OUTLET BOX FLUSH MOUNTED IN CEILING – MOUNT FLUSH IN FLOOR WHEN INDICATED IN A FLOOR BOX SYMBOL.

COMBINATION TELEPHONE AND DATA OUTLET BOX FLUSH MOUNTED IN CEILING – MOUNT FLUSH IN FLOOR WHEN INDICATED IN A FLOOR BOX SYMBOL.

TELEPHONE OUTLET BOX, WALL MOUNTED 6-INCHES ABOVE COUNTER OR SPLASH. STUB A 1" C.O. UP 6-INCHES ABOVE THE ACCESSIBLE CEILING AND PROVIDE A BUSHING. 45/DP MINIMUM WITH SINGLE GANG RING.

DATA OUTLET BOX, WALL MOUNTED 6-INCHES ABOVE COUNTER OR SPLASH. STUB A 1" C.O. UP 6-INCHES ABOVE THE ACCESSIBLE CEILING AND PROVIDE A BUSHING. 45/DP MINIMUM WITH SINGLE GANG RING.

COMBINATION TELEPHONE AND DATA OUTLET BOX, WALL MOUNTED 6-INCHES ABOVE COUNTER OR SPLASH. STUB A 1" C.O. UP 6-INCHES ABOVE THE ACCESSIBLE CEILING AND PROVIDE A BUSHING. 45/DP MINIMUM WITH SINGLE GANG RING.

COMBINATION TELEPHONE AND DATA OUTLET BOX FLUSH MOUNTED IN ACCESSIBLE CEILING SPACE OR IN FLOOR BOX PER PLAN FOR FLEXIBLE CONNECTION TO FURNITURE SYSTEM. VERIFY CONNECTION REQUIREMENTS WITH MANUFACTURER PRIOR TO ROUGH-IN. – MOUNT FLUSH IN FLOOR WHEN INDICATED IN A FLOOR BOX SYMBOL.

COMBINATION TELEPHONE AND DATA OUTLET, WALL MOUNTED AT ±18-INCH A.F.F. FOR FLEXIBLE CONNECTION TO FURNITURE SYSTEM. PROVIDE THE FOLLOWING:

- IN A NON-RATED INSULATED WALL, OR NON-RATED UNINSULATED WALL, PROVIDE A 2-GANG MUD RING OR CADDY #885 SERIES BOX MOUNTING BRACKET (EQUAL BY B-LINE OR RAYCO) WITH (2) 1-1/2" C.O. WITH PULL STRINGS TO ACCESSIBLE CEILING. PROP ON THE 12" BUSHINGS AT CONDUIT ENDS. REFER TO ARCHITECTURAL PLANS FOR WALL CONSTRUCTION/TYPE AND CEILING CONDITIONS.
- IN A RATED WALL, PROVIDE (1) 45/DP BOX WITH (2) 1-1/4" C.O. AND (1) 45/DP BOX WITH (1) 1-1/4" C.O. WITH PULL STRINGS IN EACH SPOT TO ACCESSIBLE CEILING. PROP ON THE 12" BUSHINGS AT CONDUIT ENDS. UTILIZE CADDY #885 SERIES BOX MOUNTING BRACKET TO MAINTAIN BOX ALIGNMENT (EQUAL BY B-LINE OR RAYCO). UTILIZE THE WALL MOUNTING SYSTEM TO MAINTAIN PROPER TIE-INS TO THE INSIDE OF THE BOX (STI OR EQUAL) AS REQUIRED TO MAINTAIN RATING OF WALL OR MEMBRANE. REFER TO ARCHITECTURAL PLANS FOR WALL CONSTRUCTION/TYPE AND CEILING CONDITIONS.

—T1— CONCEALED TELEPHONE/DATA CONDUIT RUN, 1-INCH CONDUIT ONLY (MIN). SEE TABLE FOR CONDUIT SIZE VARIATIONS.

—T2— IN 1-1/4" C.O. T3 = 1-1/2" C.O. T4 = 2" C.O.

—T3— FLUSH MOUNTED, LOCKABLE TERMINAL CABINET WITH TERMINAL STRIPS AS REQUIRED.

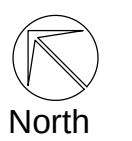
—T4— SURFACE MOUNTED, LOCKABLE TERMINAL CABINET WITH TERMINAL STRIPS AS REQUIRED.

TELEPHONE TERMINAL BACKBOARD SIZED AS NOTED, REFER TO SYSTEM GROUND DETAIL.

Mechanical/Electrical/Plumbing Engineer

tk1sc
COLLABORATIVE

Project Leader - Kenneth McClendon
Electrical Lead - Christina Souza
tk1sc Job #: 2019-0727



Address
1 NE 1st Avenue, Suite 507
Miami, FL 33132
T +1 (305) 455 4216

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Drawing Title

ELECTRICAL
DEMOLITION OVERALL
PLAN

Scale	As Noted
Date	09-17-2021
Drawn By	CS
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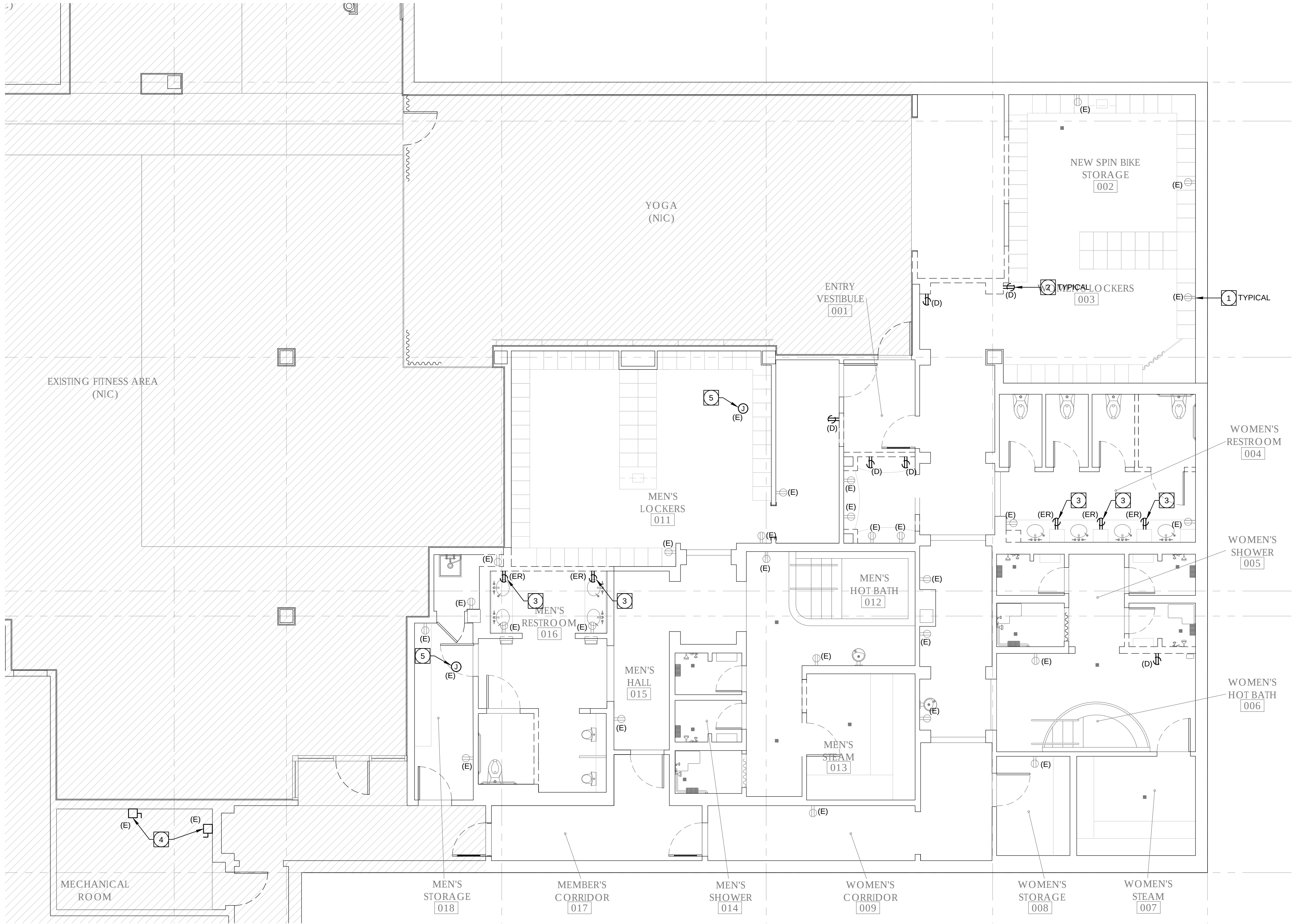
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1 ELECTRICAL DEMOLITION OVERALL PLAN

Scale: 3/32" = 1' - 0"

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DEMO PLAN NOTES:

- EXISTING RECEPTACLES AND ASSOCIATED BRANCH CIRCUITING TO REMAIN, PROTECT IN PLACE. VERIFY EXACT LOCATION IN FIELD. EXISTING DEVICE AND ASSOCIATED FACEPLATE THAT DO NOT MATCH NEW DEVICE STANDARD SHALL BE REPLACED WITH NEW DEVICES TO MATCH NEW, REFER TO ARCHITECTS PLANS FOR FINISH REQUIREMENTS.
- EXISTING RECEPTACLES TO BE DEMOLISHED, VERIFY EXACT LOCATION IN FIELD. SAFE-OFF BRANCH CIRCUIT AT PANEL. RE-WORK EXISTING CONDUITS AND CONDUCTORS AS REQUIRED TO MAINTAIN CIRCUITRY TO EXISTING REMAINING RECEPTACLES ON CIRCUIT(S). VERIFY EXACT REQUIREMENTS IN FIELD PRIOR TO WORK.
- EXISTING RECEPTACLES TO BE RELOCATED, VERIFY EXACT LOCATION IN FIELD. SAFE-OFF BRANCH CIRCUIT AT PANEL. RE-WORK EXISTING CONDUITS AND CONDUCTORS AS REQUIRED TO MAINTAIN CIRCUITRY TO EXISTING REMAINING RECEPTACLES ON CIRCUIT(S). CONTRACTOR SHALL MAKE EXISTING BRANCH CIRCUIT(S) AVAILABLE FOR RE-USE WITH NEW RECEPTACLE LOCATIONS, SEE SHEET E2.01.
- CONTRACTOR SHALL DISCONNECT EXISTING STEAM GENERATOR FROM EXISTING BRANCH CIRCUITING AS REQUIRED. EXISTING STEAM GENERATOR DISCONNECT, ALL CONDUCTORS AND CONDUIT SHALL REMAIN, PROTECT IN PLACE. VERIFY EXACT LOCATIONS IN FIELD.
- EXISTING VAV BOX TO BE DEMOLISHED AND REPLACED, VERIFY EXACT LOCATION IN FIELD PRIOR TO WORK. EXISTING BRANCH CIRCUITING SHALL BE RE-USED, CONTRACTOR SHALL VERIFY CIRCUITING IN FIELD PRIOR TO WORK.

GENERAL DEMOLITION NOTES:

- THE ELECTRICAL DRAWINGS ARE DIAGRAMMATIC ONLY. DO NOT SCALE THE ELECTRICAL DRAWINGS TO DETERMINE THE LOCATION OF EQUIPMENT OR OUTLETS. SEE ARCHITECTURAL PLANS, WHERE PROVIDED ON PROJECT, FOR EXTENT OF DEMOLITION.
- THE EXISTING CONDITIONS SHOWN ARE FROM AVAILABLE RECORD DRAWINGS AND SHOWN FOR REFERENCE ONLY. CONTRACTOR SHALL VERIFY ACTUAL EXISTING CONDITIONS AT SITE PRIOR TO SUBMITTING BID. ALL DEMOLITION, ALTERATION, EXTENSION, RELOCATION, REHABILITATION WORK SHALL BE INCLUDED IN CONTRACT. NO ADDITIONAL ALLOWANCE OR CHANGE ORDERS WILL BE ACCEPTED.
- CONTRACTOR IS RESPONSIBLE FOR RELOCATING OR REMOVING FROM WALLS, CEILINGS, FLOOR SPACES, ETC., ANY EXISTING CONDUITS, WIRES, BOXES, FITTINGS, FIXTURES OR OTHER ELECTRICAL EQUIPMENT WHICH INTERFERES WITH PLANNED REMODEL WORK. PROVIDE CIRCUIT CONTINUATION REQUIRED FOR ALL EXISTING OUTLETS, FIXTURES, EQUIPMENT, ETC. SCHEDULED TO REMAIN.
- NOTIFY THE ENGINEER IMMEDIATELY WHEREVER EXISTING EQUIPMENT IS ENCOUNTERED WHICH MUST BE RELOCATED DUE TO THE NEW CONSTRUCTION, OR NOT INDICATED ON "AS-BUILT" DRAWINGS OR WAS BURIED UNDERGROUND OR EMBEDDED IN STRUCTURE WALLS.
- CAREFULLY PROTECT ALL WALLS, TRIM, FLOORS, EQUIPMENT, UTILITY LINES AND MATERIALS. WHEN WORKING ON FINISHED SURFACES, LIMIT DAMAGE TO THE SMALLER AREA IF POSSIBLE AND RESTORE TO THE ORIGINAL CONDITION ALL SURFACES WHICH ARE DAMAGED BECAUSE OF THE INSTALLATION OF THIS WORK.
- EQUIPMENT, MATERIALS AND SUPPLIES TEMPORARILY REMOVED FOR PROTECTION SHALL BE REPLACED IN ORIGINAL LOCATIONS. ANY MATERIALS DAMAGED SHALL BE REPLACED WITH NEW MATERIALS OF LIKE KIND AND QUALITY.
- DEMOLITION WORK SHALL BE DONE IN A MANNER WHICH WILL NOT CAUSE UNNECESSARY INCONVENIENCE OR DANGER TO USERS OF THE PREMISES AND ADJACENT SITE, AND NOT INTERFERE WITH ITS OPERATION. ANY DEMOLITION WORK TO BE PERFORMED MUST BE PLANNED IN ADVANCE.
- DO ALL DRILLING, CUTTING, ETC. REQUIRED TO DEMOLISH ELECTRICAL WORK AS INDICATED OR PROVIDE BLANK COVER PLATE ON ALL OUTLETS EXPOSED BY REMOVAL OF FIXTURE OR DEVICES.
- RESEAL ALL PENETRATIONS OR OPENING THROUGH WALLS, CEILING, FLOORS, ETC., TO MAINTAIN THE RATING OF STRUCTURE.
- ALL REMOVED MATERIALS AND EQUIPMENT WHICH ARE SALVAGED MATERIALS SHALL REMAIN THE PROPERTY OF THE OWNER. DELIVER SUCH SALVAGED MATERIALS AND EQUIPMENT ON THE PREMISES AS DIRECTED BY OWNER AND NEATLY PILE OR STORE AND PROTECT FROM DAMAGE. DISPOSE OF ALL HAZARDOUS MATERIAL PER FEDERAL, STATE AND LOCAL REGULATIONS AND OTHER AGENCIES HAVING JURISDICTION.
- CONTRACTOR SHALL FIELD VERIFY EXISTING CONDUIT/WIRING RUNS, REUSE AS REQUIRED, AND REMOVE ALL UNUSED CONDUIT/WIRING. UNUSED CONDUIT IN INACCESSIBLE LOCATIONS (WALLS TO REMAIN) MAY BE ABANDONED IN PLACE. REMOVE UNUSED WIRING INCLUDING ABANDONED TELEPHONE, DATA AND OTHER LOW VOLTAGE SYSTEMS CABLING AFTER CONFIRMING WITH THE OWNER'S PROJECT MANAGER THAT CABLING IS ABANDONED AND WILL NOT BE RE-USED.
- CONTRACTOR TO VERIFY CIRCUIT NUMBER AND LOADS FOR ALL EXISTING EQUIPMENT PRIOR TO INSTALLATION OF NEW OR RELOCATED ELECTRICAL EQUIPMENT. REASSIGN CIRCUITS AND LOADS ACCORDINGLY. PROVIDE COMPLETE "AS BUILT" DRAWINGS AND TYPEWRITTEN DIRECTORIES FOR PANELS.
- WHERE NECESSARY TO SHUT OFF UTILITY SERVICES OR CAUSE INTERRUPTION TO POWER OR SIGNAL SYSTEMS WHILE A BUILDING IS OCCUPIED OR THAT AFFECT ADJACENT BUILDINGS, SCHEDULE OUTAGES.

1 ENLARGED DEMOLITION POWER PLAN
Scale: 3/32" = 1' - 0"

HOTEL DEL CORONADO.

Fitness
Members Are a
Renovation

1500 Orange Avenue
Coronado, CA 92118



González Architects
Hospitality

Mechanical/Electrical/Plumbing Engineer
tkisc Collaborative
4755 Eangate Mall, Suite 150
San Diego, CA 92121
658.362.6800

tkisc
COLLABORATIVE

15231 Laguna Canyon Road, Suite 100
Irvine, California 92618
949.751.5800 www.tkisc.com
Project Leader - Kenneth McClendon
Electrical Lead - Christina Souza
tkisc Job #: 2019-0727



Registration Seal Address
C-32589 14 NE 1st Avenue, Suite 507
Miami, FL 33132 T +1 (305) 455-4216

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Drawing Title

ENLARGED DEMOLITION
POWER PLAN

Scale	As Noted
Date	09-17-2021
Drawn By	CS
Project No.	19022
Drawing No.	CS

E1.01

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1 ENLARGED DEMOLITION LIGHTING PLAN

Scale: 3/32" = 1' - 0"

DEMO PLAN NOTES:

- EXISTING LIGHT FIXTURE TO BE DEMOLISHED AND REPLACED ONE FOR ONE REPLACEMENT, VERIFY EXACT LOCATION IN FIELD PRIOR TO WORK. EXISTING BRANCH CIRCUITING SHALL BE RE-USED AND IS SHOWN BASED ON LIMITED AS-BUILT INFORMATION. CONTRACTOR SHALL VERIFY CIRCUITING IN FIELD PRIOR TO WORK.
- EXISTING LIGHT FIXTURE TO BE DEMOLISHED, EXISTING LIGHTING BRANCH CIRCUITING TO BE MADE AVAILABLE FOR USE WITH NEW LIGHT FIXTURE, SEE SHEET E2.02 FOR ADDITIONAL INFORMATION. VERIFY EXACT LOCATION IN FIELD PRIOR TO WORK. EXISTING BRANCH CIRCUITING SHALL BE RE-USED AND IS SHOWN BASED ON LIMITED AS-BUILT INFORMATION. CONTRACTOR SHALL VERIFY CIRCUITING IN FIELD PRIOR TO WORK.
- EXISTING LIGHT FIXTURE TO BE DEMOLISHED, VERIFY EXACT LOCATION IN FIELD PRIOR TO WORK. RE-WORK EXISTING CONDUITS AND CONDUCTORS AS REQUIRED TO MAINTAIN CIRCUITRY TO EXISTING REMAINING LIGHTING FIXTURES ON CIRCUIT(S).
- EXISTING EXIT SIGN TO BE DEMOLISHED, VERIFY EXACT LOCATION IN FIELD PRIOR TO WORK. RE-WORK EXISTING CONDUITS AND CONDUCTORS AS REQUIRED TO MAINTAIN CIRCUITRY TO EXISTING REMAINING LIGHTING FIXTURES ON CIRCUIT(S).

GENERAL DEMOLITION NOTES:

- THE ELECTRICAL DRAWINGS ARE DIAGRAMMATIC ONLY. DO NOT SCALE THE ELECTRICAL DRAWINGS TO DETERMINE THE LOCATION OF EQUIPMENT OR OUTLETS. SEE ARCHITECTURAL PLANS, WHERE PROVIDED ON PROJECT, FOR EXTENT OF DEMOLITION.
- THE EXISTING CONDITIONS SHOWN ARE FROM AVAILABLE RECORD DRAWINGS AND SHOWN FOR REFERENCE ONLY. CONTRACTOR SHALL VERIFY ACTUAL EXISTING CONDITIONS AT SITE PRIOR TO SUBMITTING BID. ALL DEMOLITION, ALTERATION, EXTENSION, RELOCATION, REHABILITATION WORK SHALL BE INCLUDED IN CONTRACT. NO ADDITIONAL ALLOWANCE OR CHANGE ORDERS WILL BE ACCEPTED.
- CONTRACTOR IS RESPONSIBLE FOR RELOCATING OR REMOVING FROM WALLS, CEILINGS, FLOOR SPACES, ETC., ANY EXISTING CONDUITS, WIRES, BOXES, FITTINGS, FIXTURES OR OTHER ELECTRICAL EQUIPMENT WHICH INTERFERES WITH PLANNED REMODEL WORK. PROVIDE CIRCUIT CONTINUATION REQUIRED FOR ALL EXISTING OUTLETS, FIXTURES, EQUIPMENT, ETC. SCHEDULED TO REMAIN.
- NOTIFY THE ENGINEER IMMEDIATELY WHEREVER EXISTING EQUIPMENT IS ENCOUNTERED WHICH MUST BE RELOCATED DUE TO THE NEW CONSTRUCTION, OR NOT INDICATED ON "AS-BUILT" DRAWINGS OR WAS BURIED UNDERGROUND OR EMBEDDED IN STRUCTURE WALLS.
- CAREFULLY PROTECT ALL WALLS, TRIM, FLOORS, EQUIPMENT, UTILITY LINES AND MATERIALS. WHEN WORKING ON FINISHED SURFACES, LIMIT DAMAGE TO THE SMALLER AREA IF POSSIBLE AND RESTORE TO THE ORIGINAL CONDITION ALL SURFACES WHICH ARE DAMAGED BECAUSE OF THE INSTALLATION OF THIS WORK.
- EQUIPMENT, MATERIALS AND SUPPLIES TEMPORARILY REMOVED FOR PROTECTION SHALL BE REPLACED IN ORIGINAL LOCATIONS. ANY MATERIALS DAMAGED SHALL BE REPLACED WITH NEW MATERIALS OF LIKE KIND AND QUALITY.
- DEMOLITION WORK SHALL BE DONE IN A MANNER WHICH WILL NOT CAUSE UNNECESSARY INCONVENIENCE OR DANGER TO USERS OF THE PREMISES AND ADJACENT SITE, AND NOT INTERFERE WITH ITS OPERATION. ANY DEMOLITION WORK TO BE PERFORMED MUST BE PLANNED IN ADVANCE.
- DO ALL DRILLING, CUTTING, ETC. REQUIRED TO DEMOLISH ELECTRICAL WORK AS INDICATED OR PROVIDE BLANK COVER PLATE ON ALL OUTLETS EXPOSED BY REMOVAL OF FIXTURE OR DEVICES.
- RESEAL ALL PENETRATIONS OR OPENING THROUGH WALLS, CEILING, FLOORS, ETC., TO MAINTAIN THE RATING OF STRUCTURE.
- ALL REMOVED MATERIALS AND EQUIPMENT WHICH ARE SALVAGED MATERIALS SHALL REMAIN THE PROPERTY OF THE OWNER. DELIVER SUCH SALVAGED MATERIALS AND EQUIPMENT ON THE PREMISES AS DIRECTED BY OWNER AND NEATLY PILE OR STORE AND PROTECT FROM DAMAGE. DISPOSE OF ALL HAZARDOUS MATERIAL PER FEDERAL, STATE AND LOCAL REGULATIONS AND OTHER AGENCIES HAVING JURISDICTION.
- CONTRACTOR SHALL FIELD VERIFY EXISTING CONDUIT/WIRING RUNS, REUSE AS REQUIRED, AND REMOVE ALL UNUSED CONDUIT/WIRING. UNUSED CONDUIT IN INACCESSIBLE LOCATIONS (WALLS TO REMAIN) MAY BE ABANDONED IN PLACE. REMOVE UNUSED WIRING INCLUDING ABANDONED TELEPHONE, DATA AND OTHER LOW VOLTAGE SYSTEMS CABLING AFTER CONFIRMING WITH THE OWNER'S PROJECT MANAGER THAT CABLING IS ABANDONED AND WILL NOT BE RE-USED.
- CONTRACTOR TO VERIFY CIRCUIT NUMBER AND LOADS FOR ALL EXISTING EQUIPMENT PRIOR TO INSTALLATION OF NEW OR RELOCATED ELECTRICAL EQUIPMENT. REASSIGN CIRCUITS AND LOADS ACCORDINGLY. PROVIDE COMPLETE "AS BUILT" DRAWINGS AND TYPEWRITTEN DIRECTORIES FOR PANELS.
- WHERE NECESSARY TO SHUT OFF UTILITY SERVICES OR CAUSE INTERRUPTION TO POWER OR SIGNAL SYSTEMS WHILE A BUILDING IS OCCUPIED OR THAT AFFECT ADJACENT BUILDINGS, SCHEDULE OUTAGES.

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1500 Orange Avenue
Coronado, CA 92118



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tkisc Collaborative

4755 Eangate Mall, Suite 150
San Diego, CA 92121
658.362.6800

tkisc
COLLABORATIVE

15231 Laguna Canyon Road, Suite 100
Irvine, California 92618
949.751.5800 www.tkisc.com

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Registration Seal

C-32589

Address

14 NE 1st Avenue, Suite 507
Miami, FL 33132
T +1 (305) 455-4216

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09-17-21	Permit Set	

Drawing Title

ENLARGED DEMOLITION
LIGHTING PLAN

Scale As Noted

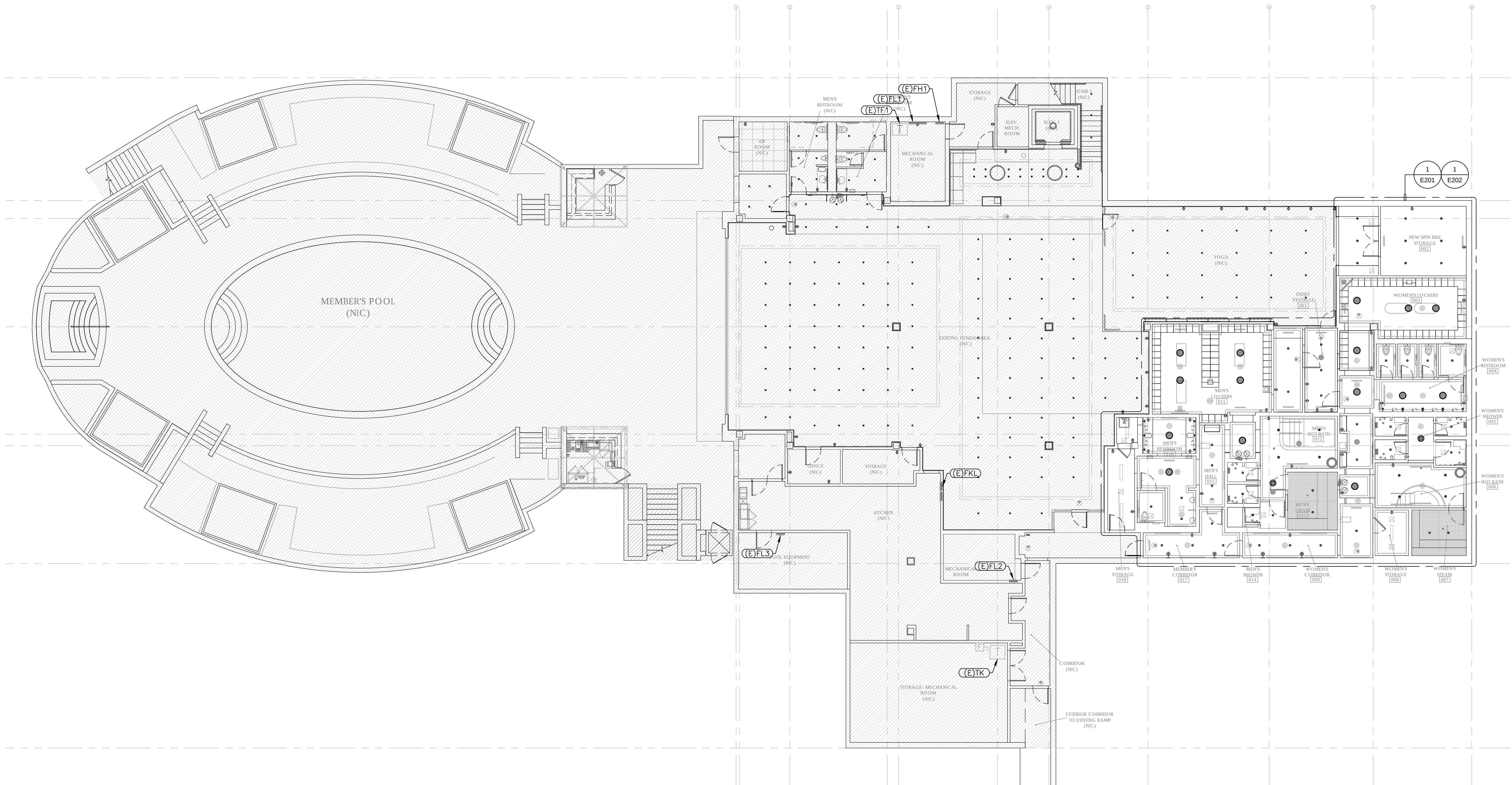
Date 09-17-2021

Drawn By CS

Project No. 19022

Drawing No. CS

E1.02

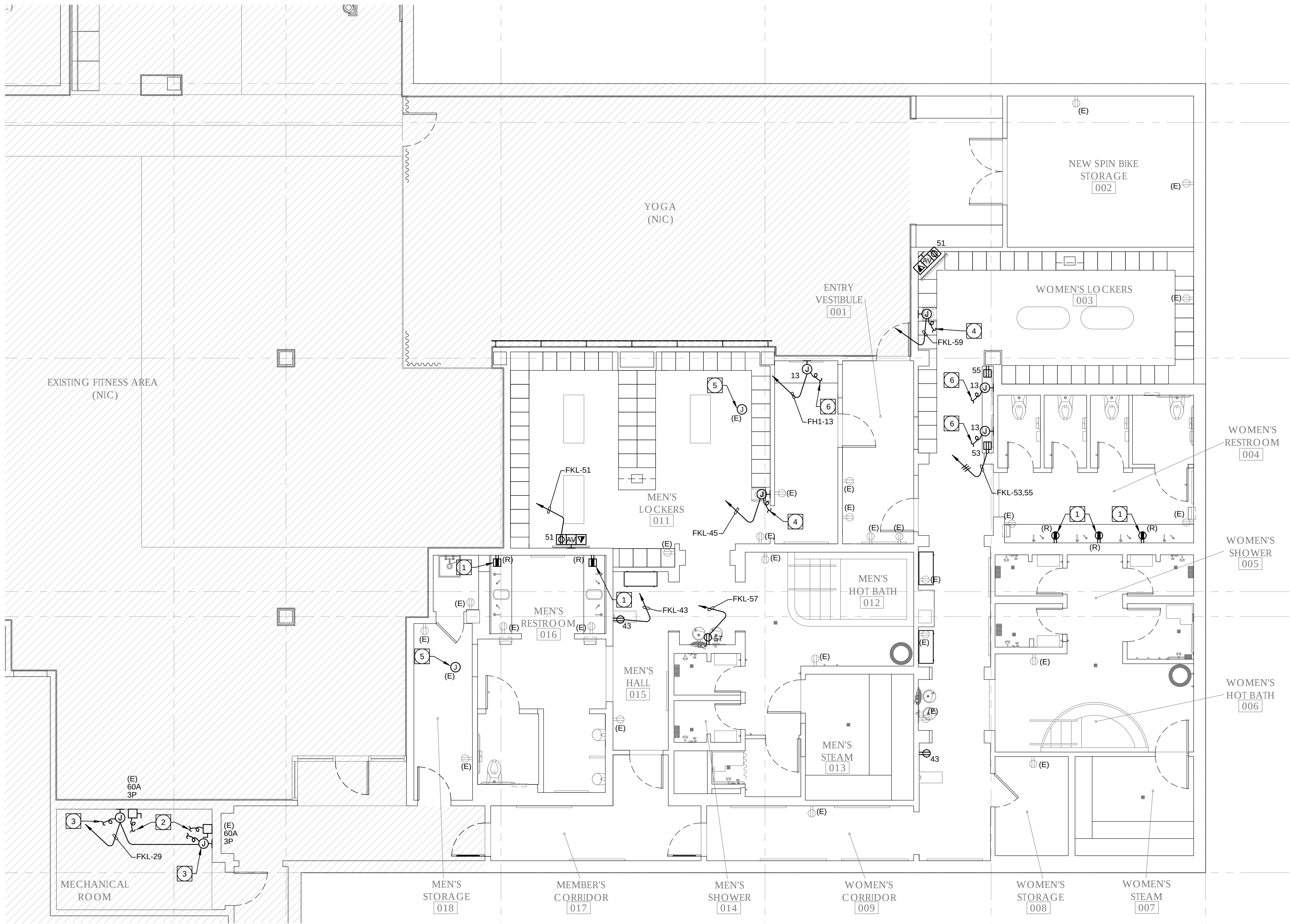


1 ELECTRICAL OVERALL PLAN

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1 ENLARGED POWER & COMMUNICATIONS PLAN

Scale: 3/32" = 1' - 0"

POWER PLAN GENERAL NOTES:

- ALL RECEPTACLES ON COMMON WALLS SHALL BE SEPARATE BOXES AND OFFSET 24-INCHES MINIMUM.
- ALL PENETRATIONS THROUGH FIRE RATED WALLS SHALL BE PROTECTED FROM THE SPREAD OF FIRE WITH AN APPROVED FIRESTOP SYSTEM EQUAL OR GREATER THAN THE FIRE RATING OF THE WALL.
- ALL WALL-MOUNTED DEVICE HEIGHTS SHALL BE VERIFIED WITH THE ARCHITECT PRIOR TO ROUGH-IN.
- ALL FURNITURE FEED LOCATIONS TO BE VERIFIED WITH ARCHITECT AND FURNITURE VENDOR PRIOR TO ROUGH-IN.
- ALL FURNITURE WHIPS SHALL BE TRIMMED TO REDUCE EXCESS WHIP LENGTH.
- WHEN EXPOSED CEILINGS OR OPEN GRID CONDITIONS OCCUR, THE CONTRACTOR WILL NEED TO PROVIDE THE FOLLOWING ITEMS:
 - ALL BRANCH CIRCUITS SHALL BE EMT.
 - ALL BRANCH CIRCUITS SHALL BE ROUTED ORTHOGONALLY, NEATLY TRAINED, IN PARALLEL TO STRUCTURES OR DUCTWORK. THE TERM "TRAINED" MEANS ALL PARALLEL CONDUITS SHALL MAINTAIN THE SAME SPATIAL RELATIONSHIP WITH EACH OTHER FOR ENTIRE RUN TO INCLUDE RADIUS BENDS AND SWEEPS.
 - VISUALLY OBJECTIONABLE BRANCH CIRCUITS WILL BE REROUTED AT THE REQUEST OF THE ARCHITECT AT NO ADDITIONAL COST.
- EXPOSED CABLE/CONDUCTORS INSTALLED IN A PLENUM SPACE SHALL CONFORM TO NEC, OR CEC WHERE ADOPTED, ARTICLE 300.22(C).
- PROVIDE G.F.C.I. TYPE RECEPTACLE(S) OR RECEPTACLE(S) PROTECTED BY A GFCI CIRCUIT BREAKER(S) WHEN RECEPTACLES ARE 50A OR LESS, 150V TO GROUND OR LESS AND ARE LOCATED WITHIN 6- FEET OF ANY SINK OR THERAPEUTIC TUB, LAUNDRY AREA, SERVING ANY DRINKING FOUNTAIN OR VENDING MACHINE, WITHIN ANY KITCHEN SPACE, LOCKER ROOM AREA, GARAGE AND BATHROOM SPACE AND/OR LOCATED OUTDOORS. WHERE RECEPTACLES ARE NOT READILY ACCESSIBLE, PROVIDE GFCI CIRCUIT BREAKER(S) TO PROTECT THE RESPECTIVE BRANCH CIRCUIT AND PROVIDE ADDITIONAL NEUTRAL CONDUCTORS IN THE BRANCH CIRCUITING AS REQUIRED TO ENSURE PROPER GFCI FUNCTION.
- PROVIDE OCCUPANCY SENSOR/LIGHTING CONTROL SYSTEM CONTROLLED RECEPTACLE RELAY(S) AS REQUIRED TO SWITCH CONTROLLED RECEPTACLES. CONNECT BRANCH CIRCUITRY AND CONTROL WIRING AS REQUIRED TO ALLOW OCCUPANCY SENSOR/LIGHTING CONTROL SYSTEM RELAY TO SWITCH STANDALONE AND/OR SYSTEMS FURNITURE CONTROLLED RECEPTACLES AS INDICATED ON PLANS. PROVIDE ADDITIONAL CONDUIT, WIRING AND PATHWAYS NECESSARY TO CONNECT BRANCH CIRCUITRY AND CONTROL WIRING TO REMOTE RELAYS TO INCLUDE RELAY(S) LOCATED ON ALTERNATE FLOORS, IN ELECTRICAL ROOMS, ETC.
- PROVIDE ADDITIONAL J-BOX NEAR PANEL FOR MULTIPLE HOMERUN CIRCUITRY.
- UNLESS SPECIFICALLY SHOWN AS (E), (R), (ER), (D), EXISTING OR NON-BOLD, ALL ELECTRICAL DEVICES SHOWN ARE NEW.

PLAN NOTES:

- INTERCEPT AND EXTEND EXISTING RECEPTACLE BRANCH CIRCUITING MADE AVAILABLE FROM DEMOLITION WORK, SEE SHEET E1.01 FOR ADDITIONAL INFORMATION. NEW CONDUIT AND CONDUCTORS SHALL MATCH EXISTING. CONTRACTOR SHALL PROVIDE ALL CONDUIT, COUPLERS, CONDUCTORS, CONNECTORS, JUNCTION BOXES, ETC. AS REQUIRED TO PROVIDE A COMPLETE AND OPERATIONAL SYSTEM.
- PROVIDE 3/4"C., 3#8 & #10 E/G. COORDINATE WITH PLUMBING CONTRACTOR AND MAKE FINAL CONNECTION TO STEAM GENERATOR.
- PROVIDE 120V CONTROL CIRCUIT FOR STEAM GENERATOR. COORDINATE EXACT LOCATION WITH PLUMBING PRIOR TO ROUGH IN.
- CONNECT COMPLETE TO BATHING SUIT DRYER AS REQUIRED, VERIFY EXACT LOCATION IN FIELD PRIOR TO ROUGH-IN.
- INTERCEPT AND EXTEND EXISTING VAV BRANCH CIRCUIT MADE AVAILABLE FROM DEMOLITION WORK, VERIFY EXACT LOCATION IN FIELD PRIOR TO WORK. CONNECT AS REQUIRED TO NEW VAV UNIT. SEE MECHANICAL PLANS FOR LOCATIONS AND ADDITIONAL REQUIREMENTS.
- CONNECT COMPLETE TO INTERNALLY ILLUMINATED MIRROR AS REQUIRED. COORDINATE REQUIREMENTS WITH MANUFACTURER PRIOR TO ROUGH-IN. VERIFY EXACT LOCATION IN FIELD PRIOR TO ROUGH-IN.
- MAKE FINAL CONNECTION TO STEAM GENERATOR, REUSE EXISTING FEEDERS AND DISCONNECT SWITCH AS REQUIRED. COORDINATE EXACT REQUIREMENTS WITH PLUMBING CONTRACTOR.

COMMUNICATIONS PATHWAYS GENERAL NOTES:

- CONDUITS SHALL (a) CONTAIN NO CONTINUOUS SECTIONS LONGER THAN 30M (98 FT.), AND (b) CONTAIN NO MORE THAN (2) 90° BENDS OR (1) REVERSE BEND WITHOUT INSTALLING A PULL BOX. SPLIT CONDUITS IN PLACE OF PULL BOXES ARE UNACCEPTABLE.
- CONDUITS SHALL CONTAIN PLASTIC OR NYLON PULL TAPE RATED AT 200 LBS. WITH A MINIMUM OF 5 FEET OF EXTRA PULL TAPE COILED AT EACH END.
- CONDUIT BEND RADIUS SHALL BE (a) A MINIMUM OF 6 TIMES THE INTERNAL CONDUIT DIAMETER FOR CONDUITS 2-INCHES IN DIAMETER OR LESS, AND (b) 10 TIMES THE INTERNAL CONDUIT DIAMETER FOR CONDUITS MORE THAN 2-INCHES IN DIAMETER.
- TERMINATE CONDUIT STUBS AND SLEEVES THAT PROTRUDE THROUGH STRUCTURAL FLOORS 2-INCHES TO 3-INCHES ABOVE THE FLOOR SURFACE.
- INSTALL BUSHINGS OR BELL ENDS AS REQUIRED ON ALL CONDUITS.
- FLEX CONDUIT IS UNACCEPTABLE FOR USE AS A COMMUNICATIONS CONDUIT EXCEPT AT SEISMIC JOINTS AND/OR IF APPROVED IN WRITING BY THE ENGINEER.
- ALL UNDER SLAB OR IN-SLAB CONDUITS SHALL BE INSTALLED IN A MANNER THAT PREVENTS WATER INFILTRATION OF THE CONDUIT. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE GROUND WATER, RAIN WATER OR CONSTRUCTION WATER IS PREVENTED FROM ENTERING AND/OR REMOVED FROM THE CONDUITS PRIOR TO PLACEMENT OF COMMUNICATIONS CABLES. SEE ELECTRICAL SPECIFICATIONS, DETAILS AND PLANS FOR ADDITIONAL CONDUIT SEALING REQUIREMENTS.
- ALL PULL BOXES SHALL BE SIZED AND INSTALLED PER ANSI-TIA-569-C. PULL BOXES FOR IN/UNDER SLAB CONDUIT RUNS ARE NOT PERMITTED UNLESS OTHERWISE NOTED. PULL BOXES FOR OVERHEAD CONDUIT RUNS SHALL BE LOCATED ABOVE ACCESSIBLE CEILINGS WITHIN THE ACCESSIBLE CEILING SPACE AND SUPPORTED INDEPENDENTLY FROM THE STRUCTURE AND CONDUIT SUPPORTS. PULL BOXES FOR ROOF MOUNTED OR EXTERIOR ABOVE GRADE APPLICATIONS SHALL BE NEMA 3R RATED. PULL BOXES SHALL BE SIZED ACCORDING TO THE FOLLOWING:

CONDUIT SIZE	WIDTH	LENGTH	DEPTH	WIDTH INCREASE PER ADDITIONAL CONDUIT
1"	4"	16"	3"	2"
2"	8"	36"	4"	5"
3"	12"	48"	5"	6"
4"	15"	60"	8"	8"

FOR OTHER CONDUIT SIZES REFER TO ANSI/TIA-569-C TABLE 12. - LATEST PUBLISHED EDITION.
- CONDUIT(S) SHALL EXIT A PULL BOX ON THE WALL OPPOSITE THE WALL ENTERED.
- PROVIDE LABELING OF EACH CONDUIT PER GENERAL ELECTRICAL SPECIFICATIONS.
- PROVIDE INTERNAL/EXTERNAL GAS AND WATER TIGHT MECHANICAL SEALING/PLUGGING OF EACH BUILDING ENTRY CONDUIT AS SPECIFIED ELSEWHERE IN THE DRAWINGS AND SPECIFICATIONS.

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C-32569

Address

14 NE 1st Avenue, Suite 507

Miami, FL 33132

T +1 (305) 455-4216

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ENLARGED POWER &
COMMUNICATIONS
PLAN

Scale

As Noted

Date

09-17-2021

Drawn By

CS

Project No.

19022

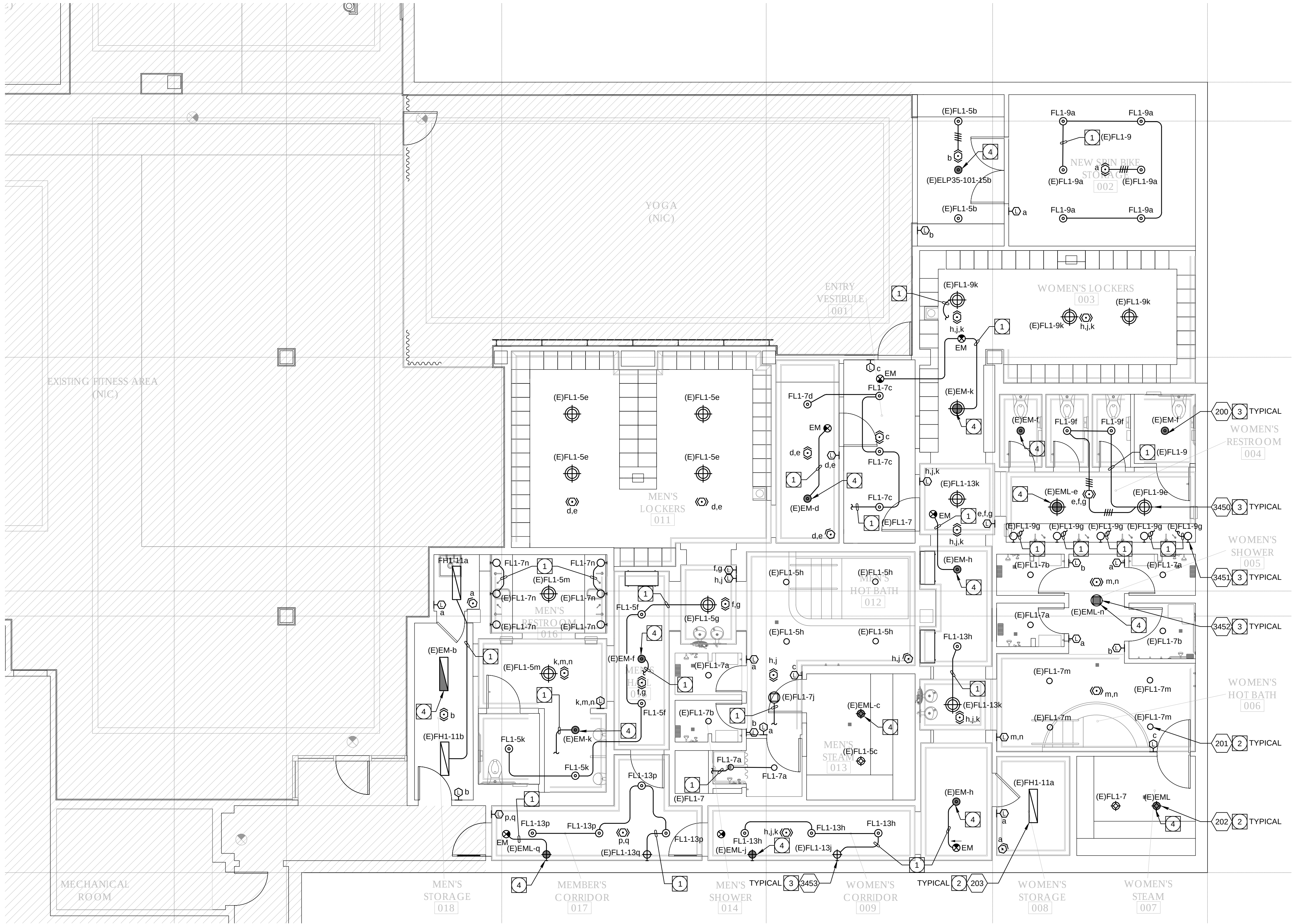
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CS

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1 ENLARGED LIGHTING PLAN
Scale: 3/16" = 1' - 0"

PLAN NOTES:

- 1 INTERCEPT AND EXTEND EXISTING LIGHTING BRANCH CIRCUIT MADE AVAILABLE FROM DEMOLITION WORK, VERIFY EXACT LOCATION IN FIELD PRIOR TO WORK. ROUTE BRANCH CIRCUITING THROUGH NEW DISTRIBUTED LIGHTING CONTROLS AS REQUIRED, REFER TO SWITCHLEGS AS SHOWN. PROVIDE ALL CONDUIT, COUPLERS, CONDUCTORS, CONNECTORS, JUNCTION BOXES, ETC. AS REQUIRED TO PROVIDE A COMPLETE AND OPERATIONAL SYSTEM AND ALL NEW COMPONENTS SHALL MATCH EXISTING.
- 2 FIXTURE SPECIFIED WITH 0-10V LED DIMMING DRIVER(S). CONTRACTOR SHALL VERIFY EXACT 0-10V DIMMING REQUIREMENTS WITH FIXTURE MANUFACTURER.
- 3 VERIFY EXACT DIMMING REQUIREMENTS WITH MANUFACTURER. PROVIDE ALL LIGHTING CONTROL COMPONENTS REQUIRED TO PROVIDE A COMPLETE AND OPERATIONAL DIMMING SYSTEM.
- 4 CONTRACTOR SHALL VERIFY EMERGENCY LIGHTING BRANCH CIRCUIT IN FIELD PRIOR TO WORK. IF CIRCUIT IS 277V, CONTRACTOR SHALL MAKE A SEPARATE BID LINE ITEM TO REMOVE 277V BRANCH CIRCUIT AND ROUTE 120V CIRCUIT THROUGH EMERGENCY LIGHTING INVERTER FOR NEW LIGHT FIXTURES. CONTRACTOR SHALL FIELD VERIFY THE EMERGENCY LIGHTING BRANCH CIRCUIT IS CONNECTED TO THE EXISTING STANDBY GENERATOR. IF THERE IS NOT EMERGENCY POWER, PROVIDE BID ALTERNATE AND ROUTE CIRCUIT THROUGH EMERGENCY LIGHTING INVERTER AS REQUIRED. EMERGENCY LIGHTING INVERTER MOUNTED IN ACCESSIBLE CEILING SPACE AS REQUIRED, VERIFY EXACT MOUNTING LOCATION IN FIELD. MAKE/MODEL OR EQUAL.

LIGHTING PLAN GENERAL NOTES:

1. REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATION AND ELEVATION OF ALL LIGHTING FIXTURES AND ALL DEVICES. ALL WALL-MOUNTED DEVICE HEIGHTS SHALL BE VERIFIED WITH THE ARCHITECT PRIOR TO ROUGH-IN.
2. VERIFY EXACT CEILING CONSTRUCTION WITH ARCHITECTURAL REFLECTED CEILING PLAN AND SPECS. PROVIDE LIGHTING FIXTURES WITH ALL NECESSARY MOUNTING HARDWARE.
3. ALL RECESSED FIXTURES SHALL BE PROVIDED WITH ALL STRUCTURAL SUPPORTS AS REQUIRED BY THE IBC, OR CBC WHERE ADOPTED, IN ADDITION TO ANY LOCAL CODES.
4. ALL PERIMETER AND COVE LIGHTING SHALL EXTEND THE FULL LENGTH OF THE WALLS OR COVE. CONTRACTOR TO FIELD MEASURE COVE LENGTH AND ORDER QUANTITY OF FIXTURES AS REQUIRED.
5. ALL LINE VOLTAGE DIMMING BRANCH CIRCUITS SHALL BE PROVIDED WITH A DEDICATED NEUTRAL CONDUCTOR FOR EACH ZONE/CHANNEL.
6. RECESSED FIXTURES LOCATED IN A FIRE-RATED CEILING OR WALL SHALL BE PROVIDED WITH A 5-SIDED, RATED ENCLOSURE SO CONSTRUCTED AS TO ALLOW CODE AND MANUFACTURER-REQUIRED CLEARANCES BETWEEN THE FIXTURE AND THE ENCLOSURE.
7. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXIT SIGN CHEVRONS AND NUMBER OF FACES PER EXIT SIGN. ANY DISCREPANCIES BETWEEN EXIT SIGNS SHOWN ON THE ELECTRICAL AND ARCHITECTURAL PLANS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO ORDERING EXIT SIGNS.
8. WHEN EXPOSED CEILINGS OR OPEN GRID CONDITIONS OCCUR, THE CONTRACTOR WILL NEED TO PROVIDE THE FOLLOWING ITEMS:
 - a. ALL BRANCH CIRCUITS SHALL BE EMT.
 - b. ALL BRANCH CIRCUITS SHALL BE ROUTED ORTHOGONALLY, NEATLY TRAINED, IN PARALLEL TO STRUCTURES OR DUCTWORK. THE TERM "TRAINED" MEANS ALL PARALLEL CONDUITS SHALL MAINTAIN THE SAME SPATIAL RELATIONSHIP WITH EACH OTHER FOR ENTIRE RUN TO INCLUDE RADIUS BENDS AND SWEEPS.
 - c. VISUALLY OBJECTIONABLE BRANCH CIRCUITS WILL BE REROUTED AT THE REQUEST OF THE ARCHITECT AT NO ADDITIONAL COST.

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Registration Seal Address
C-32569 14 NE 1st Avenue, Suite 507
Miami, FL 33132
T +1 (305) 455-4216

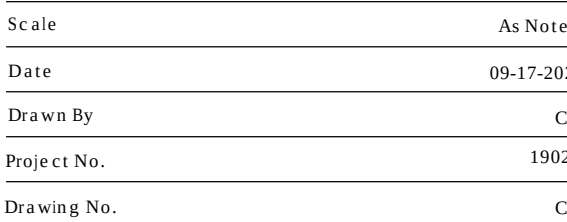
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No.	Date	Description
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Drawing Title

ENLARGED LIGHTING PLAN

Scale	As Noted
Date	09-17-2021
Drawn By	CS
Project No.	19022
Drawing No.	CS

E2.02



(E)PANEL FKL SECT. 2																								
MOUNTING		SURFACE		DOUBLE LUG		NO		VOLTS		120/208		MAIN		M.L.O.										
NEMA 3R		NO		200% NEUTRAL		NO		PHASE		3		BUS		400A										
FEED THRU		NO		IG BUS		NO		WIRE		4		A.I.C		10,000										
NOTES	LOCATION	A	B	C	L T G	C O N V	K I T	R E C P	M I S C	B K R	C I R C	C I R C	B K R	M I S C	R E C P	K I T	L T G	A	B	C	LOCATION	NOTES		
G	RM 015,009 SCALE RECEP	360					2		1	20/1	43		44	20/1				180			(E) KITCHEN RECEPT			
G	RM 012 BATHING SUIT DRYER		1000					1		20/1	45		46	20/1					180		(E) KITCHEN RECEPT			
	(E) L RECEPTION			60						20/1	47		48	20/1			52			1134	MEMBERS LIGHTING	G		
	SPARE									20/1	49		50	20/1							SPARE			
G	RMS 003,011 TV RECS		360			2				20/1	51		52	20/1							SPARE			
G	RM 0004 RESTROOM RECEPT			180			1			20/1	53		54	20/1							SPARE			
G	RM 0004 RESTROOM RECEPT	180								20/1	55		56	20/1							SPARE			
G	RM 012 DRIBBLE FILLER		500				1			20/1	57		58	20/1							SPARE			
G	RM 006 BATHING SUIT DRYER			1000						20/1	59		60	20/1							SPARE			
	SPARE									20/1	61		62	20/1							SPARE			
	SPARE									20/1	63		64	20/1							SPARE			
	SPARE									20/1	65		66	20/1							SPARE			
	SPACE										67		68								SPACE			
	SPACE										69		70								SPACE			
	SPACE										71		72								SPACE			
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	SPACE										79		80								SPACE			
	SPACE										81		82								SPACE			
	SPACE										83		84								SPACE			
		A= 720 VA						B= 2040 VA						C= 2374 VA										
		PHASE A LCL= 0 VA						PHASE B LCL= 0 VA						PHASE C LCL= 284 VA										
		PHASE A WLCL= 720 VA						PHASE B WLCL= 2040 VA						PHASE C WLCL= 2658 VA										
		TOTAL VA= 5134						TOTAL LCL= 284						TOTAL VA WLCL= 5418										
								AMPS= 15						HIGH PHASE AMPS= 22										

EXISTING CIRCUIT BREAKER NOTE:

PROVIDE BREAKER INTERLOCK WITH ADJACENT BREAKER(S) FOR ANY MULTI-WIRE BRANCH CIRCUIT. BREAKER INTERLOCK GROUPING SHALL BE: 1) TWO BRANCH CIRCUITS, 2) MULTIPLE BRANCH CIRCUITS SHARING A COMMON NEUTRAL (NEC OR CEC WHERE ADAPTED, 210.4(B)), 3) COMMON YOKE (NEC, OR CEC WHERE ADAPTED, 210.7) OR FURNITURE SYSTEM NEC OR CEC WHERE ADAPTED, 605.5 AND 605.7.

WHERE AN EXISTING PANEL IS BEING ALTERED OR MODIFIED IN ANY WAY, THE CONTRACTOR SHALL INCLUDE ALL COSTS TO THE BASE BID TO ADD BREAKER INTERLOCKS TO EXISTING MULTI-WIRE BRANCH CIRCUITS BASED ON CONTRACTOR'S INVESTIGATION OF EXISTING CONDITIONS.

GENERAL PANEL SCHEDULE NOTES:

- COORDINATE WITH APPLICABLE TRADE TO INSURE RECESSED MOUNTED PANELBOARDS WILL SEAT FLUSH IN THE WALLS PROVIDED PANEL FRAMES SHALL HAVE CONCEALED DOORS AND FASTENERS WITH FLUSH TYPE COMBINATION LOCK AND CATCH, TWO MILLED TYPE KEYS SUPPLIED WITH EACH PANEL. ALL LOCKS SHALL BE KEYS ALIKE AND EACH PANEL SHALL HAVE A KEYS COVERED DIRECTORY FRAME WITH A TYPED IDENTIFICATION CARD OF ALL CIRCUIT AND PANEL NUMBERS FOR BRANCH CIRCUIT PANELBOARDS.
14. UPON PROJECT COMPLETION, CONTRACTOR SHALL INSTALL TYPED AS-BUILT PANEL DIRECTORIES IN EACH PANEL WITHIN THE MFR-PROVIDED DIRECTORY HOLDER. THE DIRECTORY SHALL CLEARLY IDENTIFY EACH CIRCUIT TO ITS CLEAR, EVIDENT, AND SPECIFIC PURPOSE AND, IN EACH CIRCUIT IDENTIFY PANEL SHALL INCLUDE SUFFICIENT DETAIL TO ALLOW EACH CIRCUIT TO BE DISTINGUISHED FROM ALL OTHERS PER NEC, OR CEC WHERE ADOPTED, ART 408.1. THE AS-BUILT IDENTIFIED PANEL DIRECTORIES SHALL BE COPIES OF AS-BUILT-PANEL SCHEDULES SHALL BE PLACED IN PANEL DIRECTORIES. E.C. TO INCLUDE ALL COSTS REQUIRED FOR LARGEST AVAILABLE CUSTOM PANEL DIRECTORY HOLDERS TO ACCOMMODATE COPIES OF AS-BUILT-PANEL SCHEDULES.
15. PANELBOARDS SHALL BE MANUFACTURED BY G.E., CUTLER-HAMMER, SIEMENS, OR SQUARE "D". FUSED PANEL BOARDS SHALL BE BY COOPER BUSSMANN.
16. PROVIDE SHOP DRAWING SUBMIT FOR THE ELECTRICAL ENGINEER'S REVIEW AND REQUIREMENTS FOR PANEL DEPICTING CONFORMANCE WITH THE ABOVE NOTES AND SCHEDULES.
- SPECIFIC PANEL SCHEDULE NOTES:**
- "A" PROVIDE LOCK-ON DEVICE.
- "B" PROVIDE PERMANENT LOCK-OFF DEVICE THAT SHALL REMAIN IN PLACE WITH OR WITHOUT THE LOCK INSTALLED, PER NEC, OR CEC WHERE ADOPTED, SECTION 225.
- "C" PROVIDE SHUNT TRIP DEVICE.
- "D" PROVIDE GFCI TYPE DEVICE.
- "E" PROVIDE A RED CIRCUIT BREAKER.
- "F" PROVIDE A NEW BREAKER TO MATCH THE EXISTING IN PANEL.
- "G" EXISTING BREAKER WITH NEW LOAD.
- "H" PROVIDE AFCI TYPE DEVICE COMPLYING WITH NEC, OR CEC WHERE ADOPTED, 210.12(A)(B),(C).

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-	FKL-2	-
-	-	

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LIGHTING FIXTURE SCHEDULE NOTES:

A. GENERAL NOTES:

1. THE LIGHTING FIXTURES, LAMPS, BALLASTS, POWER SUPPLIES, DRIVERS AND TRANSFORMERS FOR THIS PROJECT HAVE BEEN SPECIFIED TO ENSURE THE SPECIFIC AESTHETIC AND PERFORMANCE REQUIREMENTS WILL BE SATISFIED. THESE PRODUCTS HAVE BEEN CAREFULLY RESEARCHED AND EACH SPECIFIED ITEM HAS UNIQUE QUALITIES WHICH WERE DETERMINED TO BE ESSENTIAL IN SATISFYING THE OWNER'S, ARCHITECTS, ENGINEERS AND LIGHTING CONSULTANT'S DESIGN CRITERIA.
2. CONTRACTOR SHALL PROVIDE ALL MATERIALS AS DETAILED ON DRAWINGS AND/OR SCHEDULES, AND LABOR AS REQUIRED TO ACHIEVE A COMPLETE AND OPERATING LIGHTING SYSTEM.
3. CONTRACTOR SHALL NOTIFY THE ELECTRICAL ENGINEER AND/OR LIGHTING CONSULTANT OF ANY PROVISIONS OF THE SPECIFICATION THAT IS IN CONFLICT WITH LOCALLY ENFORCED CODES.
4. CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ARCHITECT OF ANY REQUIRED MODIFICATIONS THAT ARE NOT SHOWN ON THE DRAWINGS.
5. ALL ELECTRICAL MATERIAL SHALL BE IN NEW & UNDAMAGED CONDITION WHEN INSTALLED. ALL EQUIPMENT SHALL BE LISTED BY A NATIONALLY RECOGNIZED TESTING LABORATORY.
6. ALL DIMENSIONS & MEASUREMENTS FOUND ON PLANS ARE APPROXIMATE. CONTRACTOR SHALL VALIDATE ALL DIMENSIONS PRIOR TO ORDERING MATERIAL TO INCLUDE MAKING FIELD MEASUREMENTS BASED ON ACTUAL SITE CONDITIONS TO DEVELOP COMPLETE ORDERS AND INSTALL SYSTEMS PER DRAWINGS AND SPECIFICATIONS.
7. REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATION AND ELEVATION OF ALL LIGHTING FIXTURES AND ASSOCIATED DEVICES AND EQUIPMENT.
8. PRIOR TO AIMING/ADJUSTING ACTIVITIES, COMMISSIONING OR PUNCHWALK COMMENCEMENT, CONTRACTOR SHALL PROPERLY TEST AND VERIFY ALL CIRCUITRY AND CONTROL WIRING AND IMPLEMENT ALL CONTROLS PROGRAMMING.

B. INSTALLATION:

1. LOCATIONS OF THE FIXTURES SHALL BE PER THE ARCHITECTURAL REFLECTED CEILING PLAN(S) AND SHALL BE COORDINATED AT TIME OF ROUGH IN. CONFLICTS BETWEEN THE ARCHITECTURAL REFLECTED CEILING PLAN(S) AND THE ELECTRICAL/LIGHTING DESIGN PLAN(S) SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT IN WRITING PRIOR TO ORDERING FIXTURES.
2. LIGHTING DRAWINGS REPRESENT THE DESIGN INTENT OF THE EQUIPMENT, DEVICES, ETC. TO BE CONNECTED AND THE CIRCUITS TO WHICH THEY ARE TO BE CONNECTED. CONTRACTOR SHALL INSTALL ALL CONDUIT, J-BOXES AND ADDITIONAL HARDWARE AND DEVICES AS REQUIRED FOR A COMPLETE AND OPERATING SYSTEM.
3. ALL LIGHTING FIXTURES SHALL BE MOUNTED AND INDIVIDUALLY SUPPORTED IN ACCORDANCE WITH APPLICABLE CODES. FIXTURES SHALL BE FURNISHED AND INSTALLED WITH ALL REQUIRED MOUNTING DEVICES, HARDWARE AND ACCESSORIES.
4. CONTRACTOR TO VERIFY LIGHTING FIXTURE MOUNTING HARDWARE IS COMPATIBLE WITH APPROVED MOUNTING CONDITIONS. MOUNTING CONDITIONS MUST ALLOW FOR AIMING AND ADJUSTING OF LIGHTING FIXTURES ON SITE.
5. CONTRACTOR TO INCLUDE AIMING/ADJUSTING LABOR AFTER DARK AS REQUIRED FOR ANY ADJUSTABLE LIGHTING FIXTURE AND FOR EACH INDIVIDUAL LIGHTING FIXTURE HEAD OR LAMP HOLDER IN A MULTI-FIXTURE/MULTI-LAMP ASSEMBLY. LIGHTING FIXTURES TO BE AIMED/ADJUSTED PER THE DIRECTION OF OWNER, ARCHITECT AND/OR LIGHTING CONSULTANT.
6. CONTRACTOR TO SUPPLY ADEQUATE SUPPORT INCLUDING LADDERS, LIFTS OR OTHER EQUIPMENT REQUIRED TO ACCESS LIGHTING FIXTURES AT THE TIME OF FOCUS, INCLUDING EVENING OR NIGHT WORK AS MAY BE REQUIRED DUE TO SCHEDULE CONFLICT OR DAYLIGHT IMPACT. AIMING/ADJUSTING LABOR SHALL BE PREPARED FOR WORK WITH COMMON HAND TOOLS TO MAKE ADJUSTMENTS AND MINOR REPAIRS DURING AIMING.
7. ALL COVE MOUNTED LIGHTING FIXTURES SHALL EXTEND THE FULL LENGTH OF THE COVE. CONTRACTOR TO FIELD MEASURE COVE LENGTH AND ORDER QUANTITY OF LIGHTING FIXTURES AS REQUIRED. PROVIDE COMPLETE MANUFACTURER SHOP DRAWINGS OF BUILT-IN COVE OR LINEAR LIGHTING SYSTEMS.
8. CONTRACTOR TO REPLACE ALL INOPERATIVE LAMPS, LED ARRAYS OR SYSTEMS AT THE END OF THE CONSTRUCTION PHASE PRIOR TO THE FOCUS AND PROGRAMMING PHASE AND AGAIN PRIOR TO OWNER OCCUPANCY OR PROJECT OPENING.
9. ALL POLE MOUNTED FIXTURES, POST MOUNTED FIXTURES AND BOLLARDS SHALL BE PROVIDED WITH A STRUCTURAL FOOTING AS DETAILED ELSEWHERE IN THE DRAWINGS. FOOTING SIZE TO BE PROVIDED BY STRUCTURAL ENGINEER. REFERENCE FIXTURE SCHEDULE AND DETAILS FOR MORE INFORMATION.
10. ALL EXIT SIGNS SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE LOCAL FIRE PREVENTION CODE AUTHORITY. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL NECESSARY HARDWARE SUCH THAT ALL EXIT SIGNS ARE INSTALLED IN AN APPROVED VISIBLE LOCATION. THE CONTRACTOR SHALL VERIFY CHEVRONS AND NUMBER OF FACES PER EXIT SIGN WITH ARCHITECTURAL REFLECTED CEILING PLAN(S). ANY DISCREPANCIES BETWEEN EXIT SIGNS DEPICTED ON ARCHITECTURAL AND ELECTRICAL PLANS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO ORDERING EXIT SIGNS.

C. SUBMITTALS AND SUBSTITUTIONS:

1. CONTRACTOR TO SUBMIT FOR APPROVAL ON THE PRODUCTS THEY INTEND TO FURNISH WITHIN TEN (10) DAYS OF AWARD OF CONTRACT. FAILURE TO SUBMIT WITHIN DEADLINE CONSTITUTES A GUARANTEE THAT ONLY THE BASE SPECIFIED PRODUCTS WILL BE SUPPLIED AND THAT NO OTHER PRODUCTS, WHETHER LISTED AS ALTERNATES OR NOT, WILL BE CONSIDERED.
2. CONTRACTOR TO PROVIDE A SUBMITTAL/SHOP DRAWING SUBMITTAL FOR EACH LIGHTING FIXTURE TYPE INCLUDING ACCESSORIES, BALLAST(S), POWER SUPPLIES, DRIVER(S) TRANSFORMER(S), AND INTEGRAL EMERGENCY BATTERIES AND TEST SWITCHES. ANY LIGHTING FIXTURE SUBMITTAL PROVIDED WITHOUT SPECIFIC LIGHTING FIXTURE'S ACCESSORIES, BALLAST, POWER SUPPLY, DRIVER, TRANSFORMER OR BATTERY INFORMATION SHALL BE REJECTED AS INCOMPLETE.
3. SUBSTITUTIONS OF THE SPECIFIED PRODUCTS ARE STRICTLY PROHIBITED -- UNLESS APPROVED AS STATED HEREIN. LIGHTING FIXTURES SHALL BE FORMALLY PRESENTED TO THE ELECTRICAL ENGINEER AND/OR LIGHTING CONSULTANT BY APPOINTMENT ONLY, AT LEAST TEN (10) WORKING DAYS PRIOR TO BID TIME. THE SUBMITTAL MATERIAL SHALL INCLUDE THE FOLLOWING ITEMS.
 - a. A COMPLETE AND OPERATING SAMPLE, WIRED FOR 120V OPERATION, WITH LAMP, CORD AND PLUG.
 - b. A COMPLETE PHOTOMETRIC REPORT, FOR THE PROPOSED SUBSTITUTE PRODUCT, USING THE SPECIFIED LAMP OR LED TYPE AND WATTAGE, INCLUDING TABULATED CANDLEPOWER VALUES, COEFFICIENT OF UTILIZATION, AND AN ISO-FOOT-CANDLE DIAGRAM. PROXORATED DATA WILL NOT BE ACCEPTABLE. THE PHOTOMETRIC REPORT MUST BE DONE IN ACCORDANCE WITH PUBLISHED I.E.S. TESTING PROCEDURES AND CERTIFIED BY A REGISTERED ELECTRICAL ENGINEER.
 - c. A CURRENT ORIGINAL CATALOG DATA SHEET WITH LIGHTING FIXTURE CATALOG NUMBERS, MODIFIED DATA SHEETS WILL NOT BE ACCEPTABLE.
 - d. A SIGNED COPY OF THE "SUBSTITUTION COMPLIANCE FORM", LOCATED IN THE DIVISION 1 SPECIFICATION, STATING THAT IF THE PROPOSED SUBSTITUTION IS ACCEPTED, THE PROJECT SCHEDULE WILL NOT BE NEGATIVELY AFFECTED. IF THE COMPLETION OF THE PROJECT IS DELAYED BECAUSE OF THE APPROVED SUBSTITUTION, THE CONTRACTOR WILL BE RESPONSIBLE FOR PAYMENT OF ANY ESTABLISHED LIQUIDATED DAMAGES.
4. FOR SPECIFIC INTERIOR FIXTURE SUBSTITUTIONS, WHEN DIRECTED BY THE ELECTRICAL ENGINEER AND/OR LIGHTING CONSULTANT, A POINT-BY-POINT SCALED COMPUTER PRINTOUT SHALL BE PROVIDED VERIFYING THE ILLUMINATION LEVELS FOR THE SPECIFIC INTERIOR AREA. IF THE SUBSTITUTED FIXTURE IS AN EMERGENCY FIXTURE, THE REPORT SHALL BE RUN IN BOTH NORMAL AND EMERGENCY MODES. THIS REPORT SHALL BE CONFIGURED WITH SPECIFIC CONSTRAINTS, AS DIRECTED BY THE ENGINEER OF RECORD. THE REPORT MUST SHOW THAT THE SUBSTITUTED FIXTURE PROVIDES PERFORMANCE EQUAL TO OR BETTER THAN THE LIGHTING LEVELS OF THE SPECIFIED PRODUCT.
5. FOR ALL EXTERIOR FIXTURE SUBSTITUTIONS, A POINT-BY-POINT SCALED COMPUTER PRINTOUT SHALL BE PROVIDED VERIFYING THE ILLUMINATION LEVELS FOR THE ENTIRE SITE PLAN BASED ON USING THE PROPOSED ALTERNATIVE FIXTURES. THE REPORT MUST SHOW THAT THE SUBSTITUTED FIXTURE PROVIDES PERFORMANCE EQUAL TO, OR BETTER THAN THE LIGHTING LEVELS AND UNIFORMITY RATIOS (MAX:MIN AND AVG:MIN) OF THE SPECIFIED PRODUCT. THIS REPORT SHALL BE CONFIGURED WITH THE FOLLOWING CONSTRAINTS:
 - i. THE SPACING INCREMENT OR POINTS ON THE VERIFICATION REPORT SHALL NOT EXCEED TEN (10) FEET IN EITHER DIRECTION.
 - ii. THE PHOTOMETRIC CALCULATION SHALL BE BASED ON PROVIDING MAINTAINED FOOT-CANDLE LEVELS USING MEAN LAMP LUMENS AND A LIGHT LOSS FACTOR, AS DIRECTED BY THE ENGINEER OF RECORD.
 - iii. THE PHOTOMETRIC CALCULATION SHALL SHOW ANY ADDITIONAL ENERGY AND/OR ENERGY COSTS, FOR A TEN YEAR PERIOD, AS COMPARED TO THE ORIGINALLY SPECIFIED ITEM. THE TOTAL COSTS FOR THESE EXPENSES WILL BE DEDUCTED FROM THE CONTRACT COST.
6. DURING THE BIDDING PROCESS, THE CONTRACTOR SHALL REFER TO THE LIGHTING FIXTURE SCHEDULES ON THE ARCHITECTURAL PLANS (IF PROVIDED ON PRELIM PLANS/ SPECIFICATIONS (IF PROVIDED ON PROJECT), AND THE ELECTRICAL PLANS. ANY DISCREPANCIES BETWEEN THEM INCLUDING, BUT NOT LIMITED TO, PART NUMBERS AND FIXTURE DESCRIPTIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT, ELECTRICAL ENGINEER, AND LIGHTING DESIGNER WITH PRE-BID RFI(S). WHEN DISCREPANCIES ARE DISCOVERED WHEN THERE IS INSUFFICIENT TIME TO ISSUE PRE-BID RFI(S), THE BASE BID SHALL INCORPORATE THE MOST COSTLY VERSION OF THE DISCREPANCY AND SHALL BE MEMORIALIZED IN AN RFI OR AS A BID CLARIFICATION. PROVIDING A VOLUNTARY DEDUCTIVE ALTERNATE BID CLARIFYING FIXTURE SCHEDULE DISCREPANCIES IS ALSO AN ACCEPTABLE FORM OF DISCREPANCY DOCUMENTATION.
7. FIXTURE FINISHES:
 - a. ALL FIXTURE FINISHES AND COLORS, UNLESS NOTED AS PREMIUM OR CUSTOM, SHALL BE SELECTED FROM THE MANUFACTURERS STANDARD COLOR OPTIONS AS LISTED ON THE FIXTURE SPECIFICATION SHEET. STANDARD FINISH SHALL BE SELECTED BY THE ARCHITECT, INTERIOR DESIGNER OR OWNER. THIS DIRECTION WILL BE PROVIDED IN THE SHOP DRAWING REVIEW PROCESS.
 - b. ALL FIXTURES INDICATED WITH A PREMIUM OR CUSTOM COLOR SHALL BE ASSIGNED A CUSTOM COLOR REFERENCE NUMBER (SUCH AS RAL) OR PROVIDE FIVE (5) PAINT CHIPS FOR MANUFACTURER TO USE TO MATCH COLOR. PREMIUM OR CUSTOM FINISH SHALL BE SELECTED BY THE ARCHITECT, INTERIOR DESIGNER OR OWNER. THIS DIRECTION WILL BE PROVIDED IN THE SHOP DRAWING REVIEW PROCESS.

6. THE LIGHTING FIXTURE MODEL NUMBER MAY INDICATE A FIXTURE OPTION THAT THE CONTRACTOR MUST IDENTIFY PRIOR TO ORDERING/PROVIDING SUBMITTALS, INCLUDING, BUT NOT LIMITED TO: VOLTAGE, MOUNTING CONDITION/HARDWARE, FINISH, DIMMING REQUIREMENTS/BALLAST INFORMATION, GENERALLY, CONTRACTOR-SELECTED OPTIONS ARE DENOTED IN THE PART NUMBER WITH BRACKETS EX: [VOLTS?]
- a. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING AND PROVIDING ALL HANGERS, CLIPS AND NECESSARY HARDWARE TO INSTALL THE FIXTURE IN THE ENVIRONMENT AS SHOWN ON THE ARCHITECTURAL PLANS. ALL FIXTURES SHALL BE PROVIDED WITH ALL REQUIRED STRUCTURAL SUPPORTS AS REQUIRED BY THE CURRENTLY ADOPTED CODES.
- b. VOLTAGES SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO ORDERING -- SEE ELECTRICAL DRAWINGS FOR BRANCH CIRCUIT INFORMATION. IT IS POSSIBLE THAT FIXTURES WILL BE REQUIRED IN VARIOUS VOLTAGES.
7. "NO KNOWN EQUAL" LIGHTING FIXTURE PRICING/BIDDING NOTES:
 - a. EACH FIXTURE IDENTIFIED AS "NO KNOWN EQUAL" ON THIS PROJECT SHALL BE BID IN A "LINE ITEM" FORMAT. A PER UNIT MATERIAL COST SHALL BE PROVIDED FOR EACH "NO KNOWN EQUAL" FIXTURE. THIS PRICE SHALL INCLUDE LAMPS AS WELL AS ALL OTHER REQUIRED MATERIALS REQUIRED FOR INSTALLATION. THE FIXTURE PRICE QUOTED WILL BE UTILIZED, PRIOR TO SHOP DRAWING APPROVAL, FOR "ADDING" AND/OR "DELETING" ANY QUANTITY OF THE FIXTURE.
 - b. A UNIT COST SHALL BE SUBMITTED FOR EACH "NO KNOWN EQUAL" FIXTURE. SUBMIT THE PRICING AS PART OF THE BID FORM ON A SEPARATE 8 1/2" X 11" SHEET.
 - c. FAILURE TO SUBMIT A LINE ITEM FOR EACH "NO KNOWN EQUAL" FIXTURE MAY RESULT IN THE REJECTION, REFUSAL, OR NON-ACCEPTANCE OF THE CONTRACTOR'S BID.
8. FIXTURES IDENTIFIED AS "NO KNOWN EQUAL" -- OWNER STANDARD OR "CAMPUS STANDARD" ARE TO BE PROVIDED AS SPECIFIED, WITH SUBSTITUTIONS STRICTLY PROHIBITED. SEE ADDITIONAL NOTES FOR "NO KNOW EQUAL" BIDDING REQUIREMENTS.
- D. LIGHTING FIXTURE SPECIFICATIONS:
 1. ALL EXTERIOR LIGHTING EQUIPMENT SHALL BE RATED FOR WET LOCATION AND THE IP RATING OF ALL EQUIPMENT, INCLUDING BALLAST, POWER SUPPLY AND TRANSFORMER ENCLOSURES SHALL CONFORM TO THE CONDITIONS IN WHICH THE LIGHTING FIXTURE IS MOUNTED.
 2. ALL BALLASTS, POWER SUPPLIES, DRIVERS AND/OR TRANSFORMERS THAT ARE REMOTELY LOCATED SHALL BE INSTALLED AS NEAR TO THE LIGHTING FIXTURE(S) AS POSSIBLE. HIDDEN FROM PUBLIC VIEW IN AN ACCESSIBLE COMPARTMENT THAT IS WELL VENTILATED. CONTRACTOR TO COORDINATE LOCATION(S) WITH ARCHITECT PRIOR TO ROUGH-IN.
 3. ALL TRANSFORMERS SHALL BE FUSED ON THE SECONDARY SIDE.
 4. COLOR FILTERS SHALL BE GLASS OR DICHOIC UNLESS OTHERWISE INDICATED ON DRAWINGS.
 5. CONTRACTOR TO PROVIDE 20% ADDITIONAL COLOR FILTERS FOR EACH COLOR AND SIZE.
 6. CONTRACTOR TO VERIFY THAT ALL LIGHTING FIXTURES SPECIFIED WITH A COLOR FILTER ARE SUPPLIED WITH ANY AND ALL ATTACHMENT DEVICES FOR THE FILTER.
 7. ALL TRACK LIGHTING FIXTURES SHALL BE PROVIDED WITH THE APPROPRIATE TRACK SYSTEM WHICH SHALL INCLUDE ALL MISCELLANEOUS COMPONENTS REQUIRED, AS WELL A ANY REQUIRED CIRCUIT LIMITERS FOR A COMPLETE INSTALLATION. TRACK LENGTH(S) SHALL BE PER DRAWINGS.
- E. DRIVERS / TRANSFORMERS:
 1. [OPTION?] IN FIXTURE MODEL NUMBER INDICATE THAT THE FIXTURE DRIVER TYPE AND QUANTITY MUST BE VERIFIED BY THE CONTRACTOR USING FIXTURE CALLOUT INFORMATION AND FIXTURE SWITCHING CONFIGURATION INFORMATION.
 2. CONTINUOUS DIMMING AND CONTROLLABLE LED:
 - a. PROVIDE CONTROLLABLE LED DIMMING DRIVERS (INTEGRAL OR REMOTE) WITH POWER FACTOR GREATER THAN 0.85 AND MAXIMUM THD OF 20% AT FULL LOAD.
 - b. PRIOR TO BID, CONTRACTOR TO VERIFY DRIVER COMPATIBILITY WITH DIMMERS, DIMMING CONTROL SYSTEM(S) AND DISTRIBUTED LIGHTING CONTROL SYSTEM(S) WITH RESPECTIVE LIGHTING MANUFACTURER(S) AND LIGHTING/DIMMING CONTROL SYSTEM MANUFACTURERS. IF COMPATIBILITY DOCUMENTATION IS UNAVAILABLE FOR A GIVEN LED FIXTURE/LIGHTING CONTROL SYSTEM COMBINATION, CONTRACTOR SHALL INCLUDE COSTS IN THE BASE BID FOR RESPECTIVE LIGHTING MANUFACTURER AND LIGHTING CONTROLS MANUFACTURER TO TEST/WARRANT COMPATIBILITY OF SAID COMBINATIONS.
 - c. CONTINUOUS LED DIMMING DRIVERS SHALL BE AT MINIMUM 4-WIRE 0-10V 10% DIMMING (HOT, NEUTRAL, DIM+, DIM-).
- F. EMERGENCY FIXTURES / BATTERY PACKS:
 1. LIGHT FIXTURES INDICATED AS EMERGENCY SHALL BE IDENTIFIED / PROVIDED AS FOLLOWS:
 - a. INTEGRAL BATTERY PACK (EB):
3a/3EB -- FIXTURE CONNECTED TO CIRCUIT "3". CONTROL SWITCH/LEG "1a" -- WITH THE BATTERY CHARGING LEAD CONNECTED TO A CONSTANT HOT CIRCUIT "3".
3NL/3EB -- FIXTURE CONNECTED TO A CONSTANT HOT CIRCUIT "#3". BATTERY CHARGING LEAD CONNECTED TO A CONSTANT HOT CIRCUIT "3".
 - b. REMOTE BACK-UP SOURCE (EM):
3a/3EM -- ROUTED THROUGH A U.L. LISTED TRANSFER RELAY (LC & D #GR-2001E/S) FOR SWITCHED CONTROLS OR A U.L. LISTED TRANSFER SWITCH (BODINE #GTD SERIES DEVICE) FOR DIMMING CONTROLS; CONNECTED TO A CONSTANT HOT EMERGENCY CIRCUIT "3". SEE DISTRIBUTED LIGHTING CONTROL SPECIFICATIONS FOR DEVICE REQUIREMENTS WHEN CONTROLLED BY OCCUPANCY SENSORS.
3NL/3EM -- FIXTURE CONNECTED TO A CONSTANT HOT EMERGENCY CIRCUIT "3".
 - c. REMOTE BACK-UP SOURCE (EM) NOTES:
-- ALL REMOTE BACK UP SOURCE (EM) FIXTURES SHALL BE PROVIDED WITH AN IN LINE FUSE. PROVIDE ADDITIONAL LABELING TO INDICATE FIXTURE IS PROTECTED BY A FUSE.
 2. EMERGENCY BATTERY PACK NOTES:
 - a. PROVIDE INTEGRAL TEST SWITCH / CHARGE LIGHT OPTION FOR ALL EMERGENCY BATTERY PACKS INSTALLED IN LIGHT FIXTURES.
 - b. ALL RECESSED DOWNLIGHTS SUPPLIED WITH A BATTERY PACK SHALL BE PROVIDED WITH AN INTEGRAL COMBINATION TEST SWITCH / CHARGING INDICATOR LIGHT-- MOUNTED INSIDE THE REFLECTOR. REMOTE TEST SWITCH / CHARGING LIGHTS ARE NOT ALLOWED. THE TEST SWITCH / CHARGING INDICATOR LIGHT SHALL BE SECURELY ATTACHED TO THE REFLECTOR WITH 18" OF SLACK LEADS, FOR EASY REMOVAL OF THE REFLECTOR ASSEMBLY.
 - c. ALL BATTERY PACKS AND ALL COMBINATION LED BATTERY PACK/EMERGENCY DRIVERS SHALL BE UL924 LISTED.
 - d. PRIOR TO BID, CONTRACTOR SHALL VERIFY WITH FIXTURE MANUFACTURER(S) THAT EMERGENCY BATTERY PACKS ARE MANUFACTURED TO BE INTEGRAL TO FIXTURE HOUSINGS.
 - e. SHOULD THE SPECIFIED LED EMERGENCY BATTERY PACK(S) NOT FIT WITHIN A GIVEN FIXTURE(S) OR SHOULD THE FIXTURE NOT BE MANUFACTURED TO ACCOMMODATE A BATTERY PACK, CONTRACTOR SHALL INCLUDE ALL COSTS IN BASE BID TO LOCATE/CONNECT SELF-TESTING MINI INVERTER(S) (IOTA #ILS SERIES OF BODINEWELL-S-[WATT?]) REMOTELY FROM THE FIXTURE(S) IN THE NEAREST ELECTRICAL ROOM OR TO LOCATE EMERGENCY BATTERY PACK(S) REMOTELY FROM THE FIXTURE ABOVE THE NEAREST ACCESSIBLE CEILING.
 - f. LED BATTERY PACKS SHALL PROVIDE A MINIMUM OF 90 MINUTES OF EMERGENCY ILLUMINATION, AND SHALL BE RATED AT A MINIMUM OF 10 WATTS, OR AS SPECIFIED. WHERE A FIXTURE TYPE IS UNAVAILABLE WITH A 10W BATTERY PACK OR WHERE THE WATTAGE IS NOT SPECIFIED ON THE PLANS, INCLUDE ALL COST IN BASE BID TO PROVIDE THE HIGHEST WATTAGE AVAILABLE ON THE FIXTURE CUTSHEET. ANY LISTED EQUAL FIXTURE OR ANY SUBSTITUTION OFFERED BY THE CONTRACTOR MUST ALSO HAVE BATTERY PACKS CAPABLE OF PRODUCING THE SAME OR MORE LUMENS WHEN ON BATTERY AS OUTLINED ABOVE. ACCEPTABLE MANUFACTURES: BODINE OR IOTA.
 3. TO MAINTAIN UL LISTING OF LED FIXTURE, FIXTURE MANUFACTURER(S) SHALL INSTALL LED EMERGENCY BATTERY PACKS AT THE FACTORY AND OBTAIN A UL LISTING FOR THE FIXTURE WITH EMERGENCY BATTERY PACK. FIELD-INSTALLATION OF LED EMERGENCY BATTERY PACK(S) IS PROHIBITED.
 - h. PROVIDE DAMP LOCATION VERSION IN ALL DAMP LABEL INSTALLATIONS.

LIGHTING FIXTURE SCHEDULE									
SYMBOL	TYPE	MANUFACTURER & MODEL NO.	WATTS	LUMEN	CCT	DIMENSION	GENERAL DESCRIPTION	NOTES	LOCATION
⊙	LT-200	Eico Lighting E4LF1 & ERT415CT5W	11	750	3000	—	4" Round downlight for use with 11 watt, 750 lumens LED at 3000K color temperature. Contractor shall verify exact dimming requirements prior to ordering and provide all lighting components required to make a complete and operational dimming system.	—	Members Area
○	LT-201	Lithonia Lighting LDN4-30-15-L04-AR-LSS-MVOLT-EZ10	17.5	1500	3000	—	Wet rated 4" round downlight for use with 17.5 watt LED at 3000K color temperature. Contractor shall verify trim and finish with Architect prior to ordering. Provide with 0-10V dimming.	—	Members Area -- Showers
◆	LT-202	Kirlin LRR-06013-750L & REM-0700A	10	750	3000	—	Wet rated LED downlight for use with 10 watt LED at 3000K color temperature. Provide with remote 0-10V dimming driver as required. Verify all options with Architect prior to ordering.	—	Steam Rooms
▢	LT-203	Lithonia Lighting SBL4-3000LM-80CRI-30K-MIN10-GZT-MV-OLT	25.5	3236	3000	—	4" Square-basket wraparound for use with 25.5 watt LED at 3000K color temperature. Provide with 0-10V dimming.	—	Storage Room
⊕	LTG-3450	Circa Lighting Dot 16" Flush Mount	24	1850	2700	—	Decorative round flush mount for use with 24 watt dimmable LED at 2700K color temperature. Contractor shall verify exact dimming requirements prior to ordering and provide all lighting components required to make a complete and operational dimming system. Contractor shall verify finish with Architect prior to ordering.	—	Members Area
○	LTG-3451	Mtzi Ariel -- H326101-AGB	60	—	3000	—	Decorative wall sconce for use with 60 watt equivalent dimmable LED bulb with E26 medium base. Contractor shall verify exact dimming requirements prior to ordering and provide all lighting components required to make a complete and operational dimming system. Contractor shall verify finish with Architect prior to ordering.	—	Members Area -- Men's and Women's Wet Area
○	LTG-3452	Troy Lighting Bennington -- C1350FBZ	120	—	3000	—	Decorative round flush mount for use with (2) 60 watt equivalent dimmable LED bulbs with E26 medium base. Contractor shall verify exact dimming requirements prior to ordering and provide all lighting components required to make a complete and operational dimming system. Contractor shall verify finish with Architect prior to ordering.	—	Members Area -- Men's and Women's Wet Area
⊕	LTG-3453	RBW Chip -- CHP-WH-30-120-TR-LINE-1P65	12	550	3000	—	Decorative wall sconce for use with 12 watt dimmable LED at 3000K color temperature. Contractor shall verify exact dimming requirements prior to ordering and provide all lighting components required to make a complete and operational dimming sy	—	Members Area -- Corridor
⊙	X	Lithonia EDGR-1/2-GMR-EL	2	—	—	—	Edge-lit exit sign for use with green LED lamps and wired for two circuits. Provide clear background for single face, mirror background for double. Refer to architectural plans for number of faces and chevrons. Verify trim finish with Architect prior to ordering.	—	—

Hotel Del Coronado.

Fitness
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1500 Orange Avenue
Coronado, CA 92118

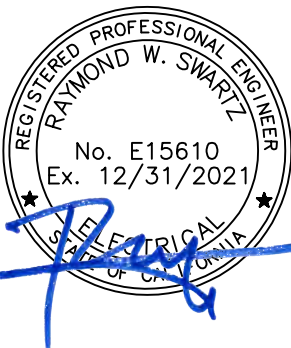


González Architects
Hospitality

Mechanical/Electrical/Plumbing Engineer
tkisc Collaborative
4755 Eastgate Mall, Suite 150
San Diego, CA 92121
958.362.6800

tkisc
COLLABORATIVE

15231 Laguna Canyon Road, Suite 100
Irvine, California 92618
949.751.5800 www.tkisc.com
Project Leader - Kenneth McClendon
Electrical Lead - Christina Souza
tkisc Job #: 2019-0727



Registration Seal
C-32589
14 NE 1st Avenue, Suite 507
Miami, FL 33132
T +1 (305) 455-4216

Issued/Revised

No.	Date	Description
09-17-21	Permit Set	

Drawing Title

LIGHTING FIXTURE
SCHEDULES

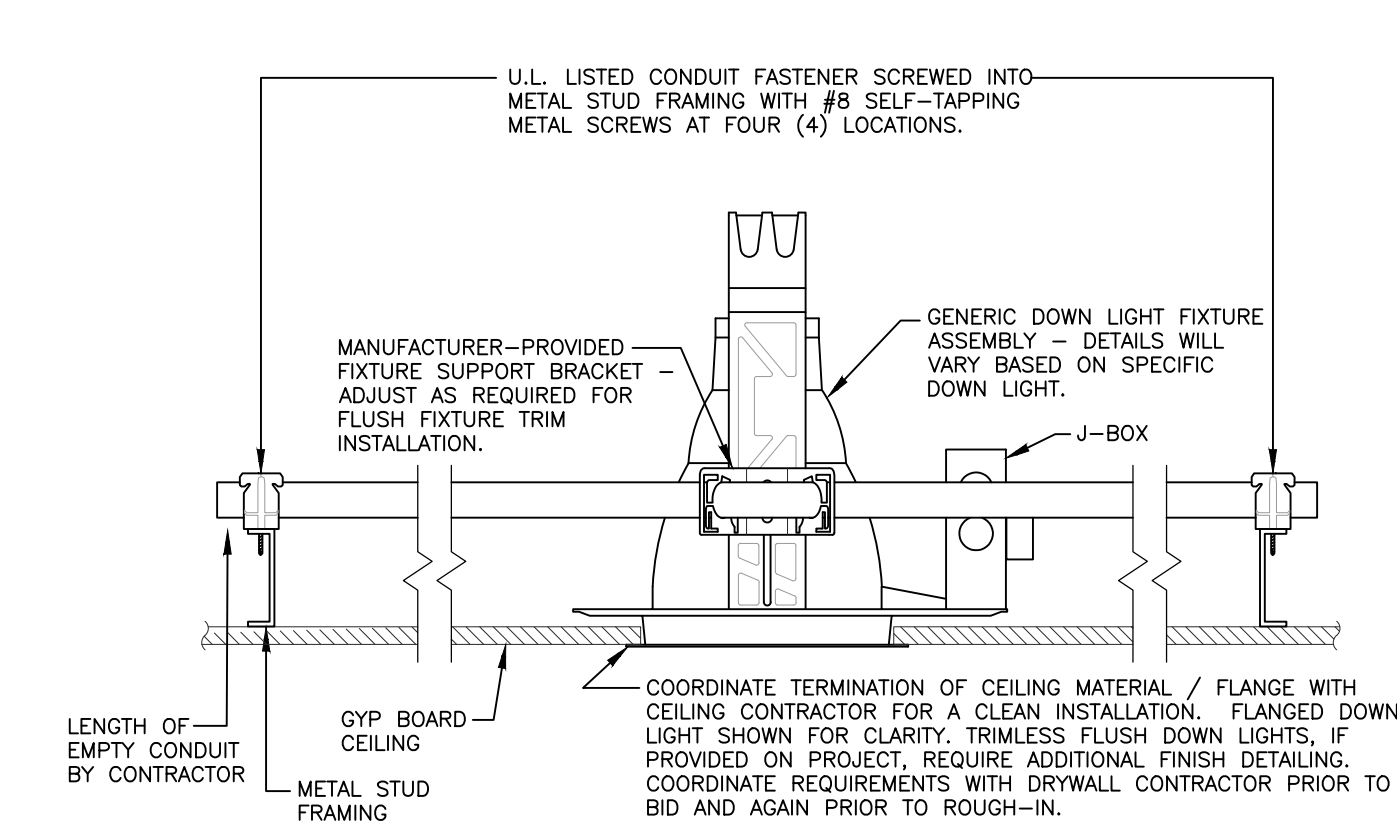
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Project No.
Drawing No.

As Noted
09-17-2021
CS
19022
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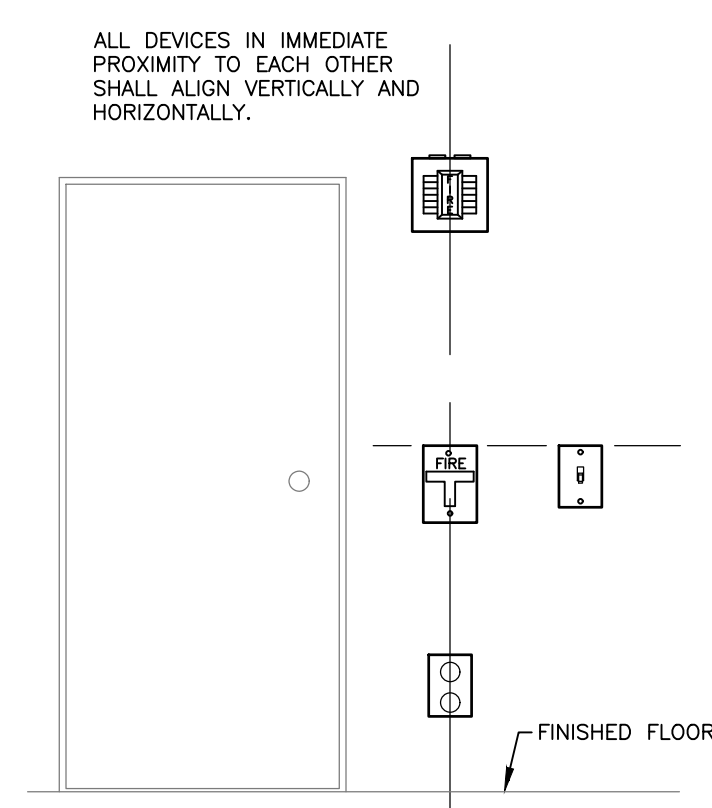
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PERMIT SET: ISSUED FOR CONSTRUCTION



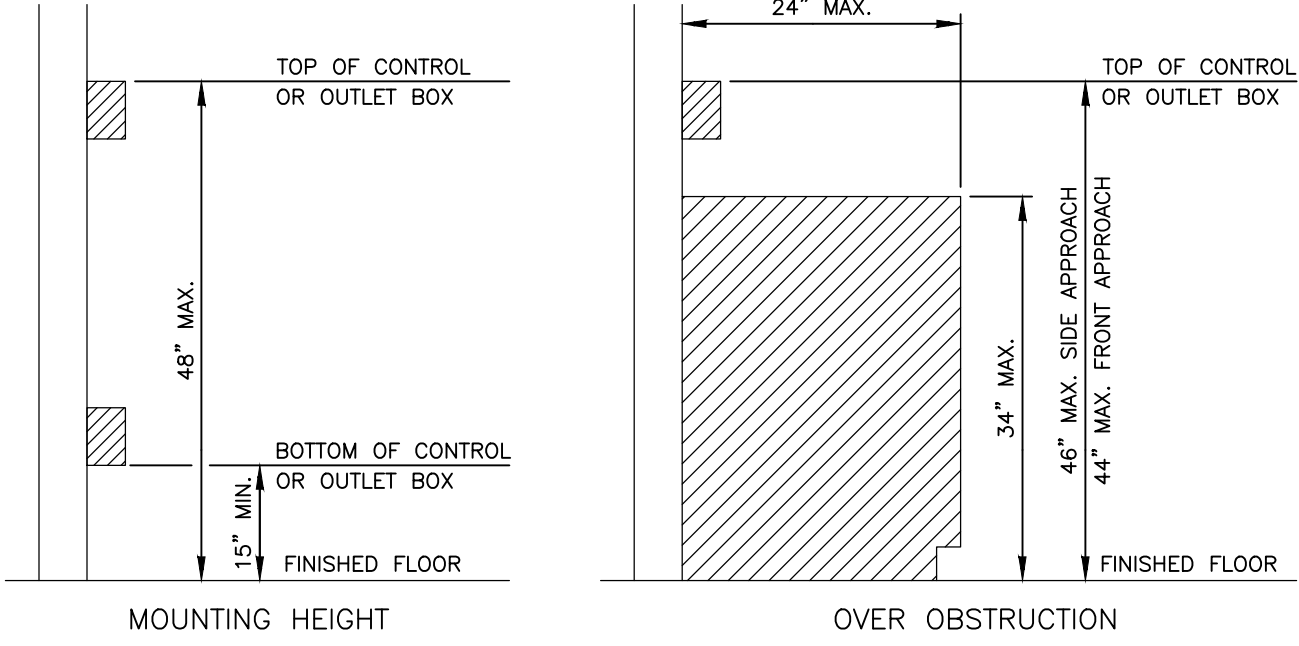
DOWN LIGHT FIXTURE SUPPORT DETAIL (HARD LID)
SCALE: NTS

2



DEVICE ALIGNMENT & MOUNTING HEIGHT DETAILS
SCALE: NTS

1



ALL DEVICE HEIGHTS DEPICTED SHALL BE MODIFIED AS REQUIRED BY GOVERNING BUILDING CODES. CONTRACTOR TO VERIFY/RECONCILE APPLICABLE CODE REQUIREMENTS AND ANY DEVICE HEIGHT REQUIREMENTS DEPICTED ON ARCHITECTURAL OR INTERIOR DESIGN PLANS AND SPECIFICATIONS PRIOR TO DEVICE ROUGH-IN. CONFLICTS OR LACK OF MOUNTING HEIGHT SPECIFICITY ON THE ARCHITECTURAL OR INTERIOR DESIGN PLANS AND SPECIFICATIONS SHALL BE CAUSE FOR THE CONTRACTOR TO ISSUE A FORMAL WRITTEN REQUEST FOR INFORMATION (RFI) FOR RESOLUTION. DEVICE MOUNTING HEIGHT CLARIFICATIONS/SPECIFICATIONS SHALL NOT RESULT IN AN ADDITIONAL COST TO THE OWNER - CONTRACTOR SHALL INCLUDE ALL COSTS IN BASE BID.

HOTEL DEL CORONADO.

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1500 Orange Avenue
Coronado, CA 92118



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tkisc Collaborative

4755 Eangate Mall, Suite 150
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Registration Seal Address
C-32589 14 NE 1st Avenue, Suite 507
Miami, FL 33132
T +1 (305) 455-4216

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No. Date Description
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Drawing Title
MISCELLANEOUS
DETAILS (INTERIOR)

Scale As Noted
Date 09-17-2021
Drawn By CS
Project No. 19022
Drawing No. CS

E5.01

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DLCS SCHEDULE					
SYSTEM TOPOLOGY	COMMUNICATION TOPOLOGY	FIXTURE INTEGRATED SENSING	BAS INTEGRATION	WIRELESS DLCS COMPONENT BATTERY USAGE	REMARKS
NETWORKED	WIRELESS	NO	YES	SWITCHES & SENSORS	

DISTRIBUTED LIGHTING CONTROL SYSTEM REQUIREMENTS:

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE FURNISHING OF ALL MATERIAL, LABOR, EQUIPMENT, AND SERVICES, IN CONNECTION WITH THE INSTALLATION OF A COMPLETE AND FULLY FUNCTIONING AND CODE COMPLIANT INSTALLATION.
- IT IS THE INTENT OF THE CONTRACT DOCUMENTS, WHICH ARE PRESENTED IN A DIAGRAMMATIC FORMAT, TO PROVIDE CONTRACTOR INFORMATION THAT SUPPLEMENTS AND ENHANCES THE GENERALLY ACCEPTED CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES EMPLOYED IN CONNECTION WITH INSTALLATION OF THIS TYPE OF PRODUCT/SYSTEM.
- THE CONTRACTOR SHALL ALSO INCORPORATE THE REQUIREMENTS OF THE MANUFACTURER'S INSTALLATION INSTRUCTIONS/WARRANTY REQUIREMENTS AS PART OF THE REQUIREMENTS OF THE CONSTRUCTION DOCUMENTS. IN THE EVENT OF A CONFLICT BETWEEN THE CONTRACT DOCUMENT REQUIREMENTS AND THE MANUFACTURER'S INSTALLATION REQUIREMENTS, THE MORE STRINGENT REQUIREMENTS SHALL APPLY UNLESS THE MORE STRINGENT REQUIREMENT VOIDS APPLICABLE WARRANTIES OR VIOLATES THE REQUIREMENTS OF THE LOCAL AUTHORITY HAVING JURISDICTION. ANY SUCH CONFLICT SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE ENGINEER IN WRITING THROUGH THE FORMAL RFI PROCESS.
- REFER TO THE ASSOCIATED SCHEDULES, SCHEMATICS, DRAWINGS, AND SPECIFICATIONS FOR DETAILED INFORMATION/REQUIREMENTS ON THIS PRODUCT/SYSTEM.
- CONTRACTOR IS RESPONSIBLE TO VERIFY LIGHT FIXTURE DIMMING PROTOCOLS ARE COMPATIBLE WITH THE DLCS.
- SECURITY STANDARD CERTIFICATIONS, SHOP DRAWINGS AND COMPONENT SUBMITTALS SHALL BE SUBMITTED PER THE GENERAL SPECIFICATION REQUIREMENTS SHOWING ALL COMPONENTS, WIRING CONFIGURATIONS AND PROGRAMMING SCHEDULES. SCALED SHOP DRAWINGS DEPICTING/IDENTIFYING ALL SYSTEM COMPONENT LOCATIONS SHALL BE PROVIDED. SUBMITTALS SHALL BE MADE SPECIFIC TO THE PROJECT - GENERIC SUBMITTALS AND SUBMITTALS WITHOUT SCALED SHOP DRAWINGS SHALL BE REJECTED.

AREA TYPE	OCC SENSOR					INTERIOR DAYLIGHT SENSOR	EXTERIOR PHOTOCELL	ASTRONOMICAL TIME CLOCK CONTROLS			LOCAL CONTROL			SYSTEM	NOTES	REMARKS		
ALL VALUES ARE BASED ON CALIFORNIA TITLE 24 2019		AUTO ON (PERCENTAGE OF NOMINAL FC)	MANUAL ON (WHEN SWITCH / BUTTON IS PRESSED)	REDUCED OUTPUT OR OFF	REDUCED OUTPUT OR OFF DURING NORMAL HOURS	REDUCED OUTPUT OR OFF AFTER NORMAL HOURS	AUTO OFF AT TARGET FC FIXTURES DIM TO OFF	AUTO DIM AT TARGET FC FIXTURES REMAIN ON AT LOWEST LEVEL	TARGET ILLUMINATION LEVEL NOMINAL FOOTCANDLE & METER HEIGHT	EXTERIOR PHOTOCELL ON	EXTERIOR PHOTOCELL OFF	BEGIN NORMAL OPERATING HOURS (ASTRONOMICAL TIME CLOCK TURN ON)	END NORMAL OPERATING HOURS (ASTRONOMICAL TIME CLOCK TURN OFF)	AFTER NORMAL HOURS OVERRIDE CANNOT EXCEED 2 HOURS PER §130.1(i)(3)& 8	DEMAND RESPONSE LIGHTING REDUCTION MIN. 15% COMMERCIAL BLDG >10,000 SQ FT	PROGRAMMING NOTES PLEASE SEE BELOW	PLEASE REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION. O = INDICATES OPTIONAL COMPLIANCE. MAY NOT BE USED. PLEASE REFER TO PLANS. ● = INDICATES REQUIRED COMPLIANCE ALL LIGHTING WITHIN DAYLIGHTING ZONES SHALL BE COMMISSIONED AT NIGHT, WITH NO DAYLIGHT CONTRIBUTION, IN ORDER TO ESTABLISH BASELINE ILLUMINATION LEVELS. "NORMAL HOURS" REFERS TO OWNER-DETERMINED OPERATING HOURS. "AFTER HOURS" REFERS TO ANY TIME PERIOD BEFORE OR AFTER OWNER-DETERMINED OPERATING HOURS. WHERE EXTERIOR PHOTOCELL CONTROL IS INDICATED, PLEASE PROVIDE EXTERIOR NORTH FACING DAYLIGHT SENSOR.	
CLOSET / STORAGE	ON AT 100%	ON AT 100%	OFF AFTER 5 MIN.	-	-	-	-	-	-	-	-	-	-	-	●	-	-	\$130.1(b) EXCEPTION 1 - AN AREA ENCLOSED BY CEILING HEIGHT PARTITIONS THAT HAS ONLY ONE LUMINAIRE WITH NO MORE THAN TWO LAMP DOES NOT REQUIRE MULTI-LEVEL CONTROLS.
CORRIDOR RESIDENTIAL OR HOTEL	ON AT 100%	-	DIM 50% AFTER 10 MIN.	-	-	-	●	5-10 FC +0" AFF	-	-	-	-	-	-	●	-	-	\$130.1(a)1 EXCEPTION 1 - MANUAL CONTROL MAY BE LOCATED IN A SEPARATE, SECURED LOCATION. PROVIDE DUAL MODE CONTROL PER DLCs SPECIFICATIONS.
RESTROOMS / LOCKER ROOMS	ON AT 100%	-	5 MIN. TO OFF	-	-	-	-	20-30 FC	-	-	-	-	-	-	●	-	-	\$130.1(b) EXCEPTION 2 - DIMMABLE LUMINAIRES NOT REQUIRED. \$130.1(c)5 - [DUAL MODE] OCCUPANCY SENSORS REQUIRED. \$130.1(a)1 EXCEPTION 1 - MANUAL CONTROL MAY BE LOCATED IN A SEPARATE, SECURED LOCATION.
PARKING GARAGE																		
PROGRAMMING NOTES																		
NOTES: A. PROVIDE DAYLIGHTING CONTROL FOR PRIMARY AND SECONDARY DAYLIT OR SKYLIT ZONES WERE REQUIRED. DAYLIGHTING IS NOT NECESSARY WHEN AREAS DO NOT INCLUDE SKYLIGHTS OR GLAZING < 24 SQ FT OR SKYLIT+PRIMARY SIDELIT ZONE IS LESS THAN 120W. LUMINAIRES IN OR AT LEAST 50% WITHIN DAYLIGHTING ZONES MUST BE CONTROLLED. B. CONTROLLED BY OCCUPANCY SENSOR: AUTO AND / OR MANUAL ON UNLESS OVERRIDDEN BY DAYLIGHTING SENSORS. C. MANUAL CONTROL WALL STATIONS FOR THESE AREAS SHALL BE LOCATED IN THE NEAREST BACK OF HOUSE CLOSET, CONTROL BOOTH, ELECTRICAL ROOM, ETC. TO PREVENT UNAUTHORIZED USERS FROM ADJUSTING LIGHTING LEVELS. D. CONFIGURE LIGHTING CONTROL TO PROVIDE PROPORTIONATE RAISE / LOWER OF ALL ROOM LIGHTING TOGETHER, REGARDLESS OF LOCATION IN DAYLIGHTING AND NON-DAYLIGHTING ZONES WHERE THEY OCCUR. E. PROVIDE RS-232 OR ETHERNET CONNECTION TO AV SYSTEM TO ALLOW RECALL OF LIGHTING PRESETS BY AV SYSTEM WITHIN THIS ROOM, IF REQUESTED BY OWNER. F. PROVIDE CONTROLLED RECEPTACLES IN THIS ROOM AS REQUIRED. CONTROLLED RECEPTACLE MUST BE WITHIN 6'-0" OF UNCONTROLLED RECEPTACLE. G. PROVIDE MOMENTARY CONTACT CLOSURE FROM FACP TO FORCE ALL LIGHTING IN THIS AREA TO 100% DURING AN ALARM EVENT. AUTOMATICALLY RESTORE LIGHTING TO NORMAL WHEN EVENT HAS CLEARED. H. LIGHTING IN THIS SPACE MAY BE CONTROLLED FROM A STAGE LIGHTING SYSTEM. THE STAGE LIGHTING SYSTEM SHALL BE PROVIDED WITH A TITLE 24 COMPLIANT LIGHTING CONTROL PROCESSOR AND COMPATIBLE OCCUPANCY AND DAYLIGHT SENSORS AS REQUIRED FOR COMPLIANCE. I. NOT USED J. CONFIRM OPERATING HOURS WITH OWNER PRIOR TO FINAL PROGRAMMING. K. REQUIRES CONNECTION TO BUILDING AUTOMATION SYSTEM (BAS) WHEN SUCH SYSTEM IS PRESENT. L. FIXTURES WITHOUT OCCUPANCY SENSORS SHALL HAVE LOW END TRIM ADJUSTED TO MAINTAIN MINIMUM ILLUMINATION LEVELS. M. LIGHTING CONTROL SYSTEM SHALL HAVE ASTRONOMICAL TIME CLOCK AND DUAL MODE CAPABILITY FOR "AFTER HOURS" CONTROL OF LIGHTING. N. PERFORMANCE SPACE, NO DAYLIGHTING REQUIRED. TARGET ILLUMINATION LISTED ONLY FOR REFERENCE IN THIS COLUMN.																		

CRESTRON DISTRIBUTED LIGHTING CONTROLS

(ZUM WIRED/WIRELESS):

WALL BOX SENSORS:		DUAL TECH	PIR ONLY	ULTRASONIC ONLY
STANDALONE SINGLE RELAY =		#GLA-DT-WLS-1	#GLA-IR-WLS-1	#GLA-US-WLS-1
STANDALONE DUAL RELAY =		#GLA-DT-WLS-2	#GLA-IR-WLS-2	#GLA-US-WLS-2
STANDALONE SINGLE RELAY WITH 0-10VDC =		#GLA-DT-WLS-DIM	#GLA-IR-WLS-DIM	#GLA-US-WLS-DIM
SYSTEM-BASED WALLBOX =		NOT AVAILABLE		
CEILING SENSORS:				
ONE-WAY DIRECTIONAL =		(ANALOG) #GLA-US-HALLWAY SERIES		
		#GLA-US-ONEWAY SERIES		
		(ZUM WIRED) #ZUMLINK-US-HALLWAY-DLS SERIES		
		#ZUMLINK-US-ONEWAY-DLS SERIES		
360 DEG COVERAGE =		(ANALOG) #GLA-DT-QUATTRO SERIES		
		#GLA-IR-QUATTRO SERIES		
		#GLA-IR-QUATTRO-HD SERIES		
		#GLA-US-QUATTRO SERIES		
		(ZUM WIRED) #ZUMLINK-DT-QUATTRO-DLS SERIES		
		#ZUMLINK-IR-QUATTRO-DLS SERIES		
		#ZUMLINK-IR-QUATTRO-HD-DLS SERIES		
		(ZUM WIRELESS, BATTERY) #ZUMLINK-US-QUATTRO-DLS SERIES		
		#ZUMMESH-PIR-OCCUPANCY-BATT		
		#ZUMMESH-PIR-VACANCY-BATT		
DAYLIGHT SENSORS:				
OPEN LOOP SENSOR =		(ANALOG) #GLA-LDL-PC-0-10		
		(ZUM WIRELESS, BATTERY) #ZUMMESH-OL-PHOTOCELL-BATT		
CLOSED LOOP SENSOR =		(ANALOG) #GLA-LDL-PC-0-10		
CONTROL UNITS: (ZUM WIRED)				
SWITCH/CONTINUOUS DIMMING (0-10V) =		#ZUMNET-JBOX-16A-LV		
		#ZUMLINK-JBOX-16A-LV		
SWITCHING ONLY =		#ZUMLINK-JBOX-20A-SW		
CONTINUOUS DIMMING (UNIVERSAL) =		#ZUMLINK-EXP-16A-DIMU		
RECEPTACLE CONTROL =		#ZUMLINK-JBOX-20A-PLUG		
DALI CONTROL =		#ZUMNET-JBOX-DALI		
HVAC CONTROL =		BACNET/IP (OPTIONAL) -RLY OPTION ON ZUM WIRED OCCUPANCY SENSOR (OPTIONAL) -COM2 OPTION ON ANALOG OCCUPANCY SENSOR		
AV SYSTEM INTERFACE =		#ZUMLINK-IO OR TCP/IP		
MOVEABLE PARTITION INTERFACE & SENSOR =		#GLS-PART-CN		
*NETWORKED SYSTEMS REQUIRE A MINIMUM OF ONE ZUMNET DEVICE PER ROOM				
CONTROL UNITS: (ZUM WIRELESS)				
SWITCH/CONTINUOUS DIMMING (0-10V) =		#ZUMMESH-JBOX-16A-LV		
		#ZUMMESH-JBOX-5A-LV		
SWITCHING ONLY =		#ZUMMESH-JBOX-20A-SW		
CONTINUOUS DIMMING (UNIVERSAL) =		#ZUMMESH-EXP-16A-DIMU		
RECEPTACLE CONTROL =		#ZUMMESH-JBOX-20A-PLUG		
DALI CONTROL =		#ZUMMESH-JBOX-DALI		
POWER SUPPLY/RANGE EXTENDER =		#ZUMMESH-JBOX-PSU		
WIRED SENSOR INTEGRATION MODULE =		#ZUMMESH-JBOX-SIM (USE WITH ANY ANALOG SENSOR)		
NETWORK ADAPTER =		#ZUMMESH-NETBRIDGE REQUIRES ZUMMESH-JBOX OF ANY KIND		
HVAC CONTROL =		BACNET/IP		
		#ZUMMESH-CCO REQUIRES ZUMMESH-JBOX OF ANY KIND (OPTIONAL) -COM2 OPTION ON ANALOG OCCUPANCY SENSOR		
AV SYSTEM INTERFACE =		#ZUMMESH-AVBRIDGE OR TCP/IP		
MOVEABLE PARTITION INTERFACE & SENSOR =		#ZUMMESH-PART REQUIRES ZUMMESH-JBOX-SIM		
*NETWORKED SYSTEMS REQUIRE ONE ZUMMESH-NETBRIDGE DEVICE PER ROOM				
WALL CONTROLS:				
WALL BOX DIMMING =		(ZUM WIRELESS) #ZUMMESH-DIM (2-WIRE FWD PHASE)		
		#ZUMMESH-DELV (2-WIRE REV PHASE)		
		#ZUMMESH-SA-LV (0-10V DIMMING)		
		#ZUMMESH-SA-SW (SWITCHING)		
WALL BOX KEYPAD =		(ZUM WIRED) #ZUMLINK-KP-R		
		(ZUM WIRELESS BATTERY) #ZUMMESH-KP10A/B/C/D-BATT		
		(ZUM WIRELESS LINE POWERED) #ZUMMESH-KP10A/B		
TOUCH SCREEN =		#TSW-570, TSW-770, TSW-1070		
KEYED SWITCH =		#GLA-KEYSW-MAINTAIN (REQUIRES ZUMMESH-JBOX-SIM OR ZUMLINK-IO)		
NETWORK COMM COMPONENTS:				
PROCESSORS =		(ANALOG/ZUM WIRED/WIRELESS): GLNET SERIES		
ZUM WIRELESS GATEWAY =		#ZUMNET-GATEWAY		
ZUM WIRED WIRELESS ACCESS POINT =		#ZUMLINK-ZAP		
EMERGENCY POWER INTERFACE:				
EMERGENCY POWER CONTROL UNITS:				
SWITCH/CONTINUOUS DIMMING (0-10V) =		(ZUM WIRED) #ZUMLINK-JBOX-16A-LV-EM		
SWITCH/CONTINUOUS DIMMING (0-10V) =		(ZUM WIRELESS) ZUMMESH-JBOX-16A-LV-EM		
POWER FAILURE OR FIRE ALARM ACTIVATION:				
SWITCH/CONTINUOUS DIMMING (0-10V) =		#GLA-EPC-FLV		
REVERSE/FORWARD PHASE DIMMING =		#GLA-EPC-D-F-ATS		
SWITCHING / STEP DIMMING =		#GLA-EPC-P SERIES		

TK1SC PM CRESTRON KEY NOTES:

- WIRED, HYBRID, AND WIRELESS AVAILABLE
- WIRELESS SYSTEMS CAN HAVE BATTERY-POWERED SWITCHES AND SENSORS OR LINE VOLTAGE OPTIONS.
- BATTERY HEALTH REPORTING FEATURE IS INCLUDED WITH NETWORK VERSION AND ALSO PHONE-BASED APP CONNECTION FOR NON-NETWORKED.

HOTEL DEL CORONADO.

Fitness Members Are a Renovation

1500 Orange Avenue
Coronado, CA 92118



González Architects
Hospitality

Mechanical/Electrical/Plumbing Engineer
tk1sc Collaborative
4755 Eangate Mall, Suite 150
San Diego, CA 92121
658.362.6800

tk1sc
COLLABORATIVE

15231 Laguna Canyon Road, Suite 100
Irvine, California 92618
949.751.5800 www.tk1sc.com

Project Leader - Kenneth McClendon
Electrical Lead - Christina Souza
tk1sc Job #: 2019-0727



Registration Seal
C-32589
14 NE 1st Avenue, Suite 507
Miami, FL 33132
T +1 (305) 455-4216

Issued/Revised

No.	Date	Description
09-17-21		Permit Set

Drawing Title

DISTRIBUTED LIGHTING
CONTROLS SCHEDULES
& PRODUCT
SPECIFICATIONS

Scale	As Noted
Date	09-17-2021
Drawn By	CS
Project No.	19022
Drawing No.	CS

E5.02

SECTION 16010

PART 1 – GENERAL ELECTRICAL SPECIFICATIONS

1.1 WORK INCLUDE:

- A. This specification shall apply to all phases of work hereinafter specified, shown on drawings, or as required to provide a complete installation of electrical systems for this project. Work required under this specification is not limited to just the Electrical drawings. Refer to Architectural, Structural, Landscape, and Mechanical/Plumbing drawings as well as all other drawings applicable to this project, which designate the scope of work to be accomplished. The intent of the drawings and specifications is to provide a complete and operable electrical system that includes all documents that are a part of the Contract.

1. Work Includes: Furnish labor, material, services and skilled supervision necessary for the construction, erection, installation, connections, testing, and adjustment of all circuits and electrical equipment specified herein, or shown or noted on Drawings, and its delivery to the Owner complete in all respects ready for use.

2. The Electrical Work includes installation or connection of certain materials and equipment furnished by others. Verify installation details, installation and rough-in locations from the actual equipment or from the equipment shop drawings.

- B. Electrical Drawings: Electrical Drawings are diagrammatic, and are intended to convey the scope of work, indicating intended general arrangement of equipment, conduit and outlets. Follow Drawings in laying out Work and verify spaces for installation of materials and equipment based on actual dimensions of equipment furnished.

1.2 QUALITY ASSURANCE

- A. Design, manufacture, testing and method of installation of all apparatus and materials furnished under requirements of these specifications shall conform to latest publications or standard rules of the following:

- Institute of Electrical and Electronic Engineers – IEEE
- National Electrical Manufacturers' Association – NEMA
- Underwriter's Laboratories, Inc. – UL
- National Fire Protection Association – NFPA
- Federal Specifications – Fed. Spec.
- American Society for Testing and Materials – ASTM
- American National Standards Institute – ANSI
- National Electrical Code – NEC
- National Electrical Safety Code – NESC
- Insulated Cable Engineers Association – ICEA
- American Institute of Steel Construction – AISC
- State and Municipal Codes in Force in The Specific Project Area
- Occupational Safety and Health Administration (OSHA)
- Electronics Industries Association/Telecommunications Industry Association (EIA/TIA)
- California Electrical Code (where adopted)
- Local Authority Having Jurisdiction (AHJ) Published Electrical Standards and Codes (as applicable).

- B. Perform Work in accordance with the National Electrical Code, applicable building ordinances, and other applicable codes, hereinafter referred to as the "Code". The Contractor shall comply with the Code including local amendments and interpretations without added cost to the Owner. Where Contract Documents exceed minimum requirements, the Contract Documents take precedence. Where code conflicts occur, the most stringent shall apply unless variance is approved by the General Conditions for contract administration.

1. Comply with all requirements for permits, licenses, fees, and codes. The Contractor, at Contractor's expense, shall obtain all permits, licenses, fees, special service costs, inspections and arrangements required for Work under this contract, unless otherwise specified.

2. Comply with requirements of the applicable utility companies serving this Project. Make all arrangements with utility companies for proper coordination of Work.

1.3 GENERAL REQUIREMENTS

- A. Guarantee: Furnish a written guarantee for a period of one-year from date of acceptance.

- B. Wherever a discrepancy in quantity or size of conduit, wire, equipment, devices, circuit breakers, etc., (all materials), arises on the Drawings and/or in the Specifications, the Contractor shall be responsible for providing the material and services required by the strictest condition noted on Drawings and/or in Specifications to ensure complete and operable systems as required by the Owner and Engineer.

- C. All Core Cutting, Drilling, and Patching:

- For the installation of work under this Section, the aforementioned shall be performed under this Section of the Specifications and the Concrete section of the Specifications.
- No holes will be allowed in any structural members without the written approval of the Project's Structural Engineer.
- For penetrations of concrete slabs or concrete footings, the work shall be as directed in the Concrete Section of Specifications.
- The Contractor shall be responsible for patching and repairing surfaces where he is required to penetrate for work under this contract.
- Penetrations shall be sealed to meet the rated integrity of the surface required to be patched and repaired. The patched surface shall be painted or finished to match the existing surface.

- D. Verifying Drawings and Job Conditions:

- The Contractor shall examine all Drawings and Specifications in a manner to be fully cognizant of all work required under this Section.
- The Contractor shall visit the site and verify existing conditions. Where existing conditions differ from Drawings, adjustment(s) shall be made and allowances included for all necessary equipment to complete all parts of the Drawings and Specifications.
- The Contractor shall be responsible for patching and repairing surfaces where he is required to penetrate for work under this contract.
- Penetrations shall be sealed to meet the rated integrity of the surface required to be patched and repaired. The patched surface shall be painted or finished to match the existing surface.

- E. Provide a conduit-only system for low voltage wiring required for control of mechanical and plumbing equipment described in this or other parts of the Contract Documents. Install all control housings, conduits, and boxcocks required for installing conduit to the controls.

- F. Install separate conduits between each heating, ventilating and air conditioning sensing device and its control panel and/or control motor. Before installing any control for heating, ventilating and air conditioning control wiring, the existing requirements from the control diagrams provided with the equipment manufacturer's shop drawings.

1.5 TESTING AND ADJUSTMENT

- A. Upon completion of all electrical work, the Contractor shall test all circuits, switches, light fixtures, lighting control and dimming systems including distributed systems, UPS's, generators, SPD's, lighting inverters, transfer switches, motors, circuit breakers, motor starter(s) and their auxiliary circuits and any other electrical items to ensure proper operation of all electrical equipment.
- B. Equipment and parts in need of correction, and discovered during such testing, shall be immediately repaired or replaced with all new equipment and that part of the system shall then be retested. All such replacement or repair shall be done at no additional cost to the Owner.
- C. All circuit(s) shall be tested for continuity and circuit integrity. Adjustments shall be made for circuits not complying with testing criteria.
- D. All test reports, including copies of any required Energy Code Acceptance Forms (e.g. CA Title 24 Acceptance for Code Compliance Forms) shall be submitted to the Engineer at completion of project.

1.6 IDENTIFICATION

- A. Nameplates shall be provided for unit substations, switchgear, switchboards, distribution boards, distribution panels, panel boards, motor control centers, transformers, transfer switches, contactors, starters, disconnect switches, enclosed circuit breakers/switches, inverters, UPS's, PDUs, RDC's, SPD's, lighting control panels, dimming panels, door releasing system panels, fire alarm/central monitoring terminal cabinets/power supplies/control panels, and all low voltage system terminal and control cabinets.
1. Nameplate inscriptions shall be identical to the equipment designations indicated in plans and specifications. Nameplates shall be engraved with the device designation/identification on the top line, source identification for the device on the 2nd line per NEC, or CEC where adopted, **Art 408.4** and load designation for the device on the bottom line. Where load designation consists of a branch circuit, omit bottom line, where device designation is not indicated on plans/specifications, Contractor shall submit a written clarification request to the Engineer.
- Example: Transformer 17A
Source Disconnecting Location: Switchboard ISA located in RM 110
Load: Panels 11A & 11B
2. All circuit breakers/fuses in switchgear, switchboards, distribution boards, distribution panels, UPS output circuit breakers, PDU sub-feed circuit breakers and motor control centers shall have individual nameplates located immediately adjacent to the respective device. Nameplate inscription shall identify the downstream equipment or device served by the circuit breaker or fuse.
- B. Identification nameplates, unless otherwise noted (UON), shall be laminated/extruded molded acrylic that is 1/8" x 3/32" thick, UV-stabilized, matte finish suitable for use in 100 to 150°F ambient, with beveled edges and engraved white letters 3/8" high, minimum, on 1/2" thick black background (utility/normal and optional standby power systems) for single line of text. Where two lines of text are required, provide min. 2" high nameplate. Where three lines of text are required, provide min. 2.5" high nameplate. Provide white letters on red background for all NEC, or CEC where adopted, **Article 517** essential power systems, **Article 700** Emergency Systems, **Article 701** Legally required standby systems and **Article 708** CSP's.

- C. Identification nameplates for new switchgear, switchboards, distribution boards, distribution panels, panelboards and motor control centers shall be attached with switchgear manufacturer-provided screws via switchgear manufacturer factory pre-drilled holes. A temporary outlet shall be provided to rivet identification nameplates if the equipment is only acceptable if screw-fastened nameplates are not an available option from the switchgear manufacturer. Field drilling or other mechanical attachment methods that change/weld the NEMA or NRTL rating of the enclosure are strictly forbidden.

- D. Identification nameplates for transformers, transfer switches, disconnect switches, enclosed circuit breakers/switches, inverters, UPS's, PDUs, RDC's, SPD's, lighting control panels, dimming panels, door-releasing system panels, terminal cabinets and all circuit breakers/fuses in switchgear, switchboards, distribution boards, distribution panels, UPS output circuit breakers, PDU, PDU sub-feed circuit breakers, and motor control centers shall be attached to the equipment by self-adhesive backing integral to the nameplates. When equipment is located outdoors, provide nameplates without self-adhesive backing and attach to equipment using weathered to UV-resistant epoxy. In all cases, clean surfaces before applying identification nameplates parallel to equipment lines.

- E. Warning Plaques, as required by General Single Line Diagram Notes for multiple power supplies, or instruction plaques, as required for all Kirk-key interlock schemes, all UPS bypass procedures or as required elsewhere in the plans/specifications shall be engraved 1/2" high with white lettering on a red background using the same material specified for identification nameplates with a self-adhesive backing. Warning/Instruction plaques shall be attached to the face of the equipment directly related to the plaques. Provide a formal placard submittal for review by the Engineer prior to ordering any warning/instruction plaques. In all cases, clean surfaces before applying warning/instruction plaques parallel to equipment lines.

- F. Receptacles that are part of a UL-listed under floor computer room whip assembly, ceiling and/or cable/holder tray-mounted receptacles used in lab, manufacturing, commercial kitchen environments or that are serving telecom/data/AV racks and cabinets shall have identification nameplates located on the wiring device plate cover. Nameplates shall be self-adhesive, 3/32" thick Micarta with beveled edges, engraved 1/4" high white lettering on black background with serving power source, circuit identification and NEMA/IEC receptacle type. Use of two (2) separate nameplates per device plate cover is acceptable. Affix nameplates to be visible when plugs are occupying receptacles.

- G. See wiring device section of this specification for additional wiring device plate labeling requirements.

- H. See drawings for panel board schedule directory installation requirements.

- I. See conduit installation section of this specification for conduit labeling requirements.

1.7 FINAL INSPECTION AND ACCEPTANCE

- A. After all requirements of the Specifications and/or the Drawings have been fully completed, representatives of the Owner will inspect the work. Contractor shall provide competent personnel to demonstrate the operation of any item or system to the full satisfaction of each representative.

1.8 RECORD DRAWINGS

- A. Drawings of Record: The Contractor shall provide and keep up-to-date, a complete record set of drawings. These shall be corrected daily and show every change from the original Drawings. This set of prints shall be kept on the job site and shall be used only as a self-closing, gasket-equipped door that is not to be used for the Contractor to make changes in the layout without definite instruction in each case. Upon completion of the work, a set of reproducible Contract Drawings shall be obtained from the General Contractor and all changes noted on the record set of prints shall be incorporated into them with black ink in a neat, legible, understandable and professional manner. Refer to the General Conditions for contract administration.

1.9 APPROVALS, EQUALS, SUBSTITUTIONS, ALTERNATIVES, NO KNOWN EQUAL

- A. Approvals: Where the words (or similar terms) "approved", "approval", "acceptable", and "acceptance" are used, it shall be understood that acceptance by the Owner, Architect and Engineer are required.
- B. Equal: Where the words (or similar terms) "equal", "approved equal", "equal to", "or equal to", "or equal" and "equivalent" are used, it shall be understood that these words are followed by the expression "In the opinion of the Owner, Architect, and Engineer". For the purposes of specifying products, the above words mean the same size, made of the same construction materials, manufactured with equivalent level of quality and some aesthetic appearance/style (includes craftsmanship, physical attributes, color and finish), and the same performance.

- C. Substitution: For the purposes of specifying products, "substitution" shall refer to the submittal of a product not explicitly approved by the construction documents/specifications.
1. Substitutions of specified equipment shall be submitted and received by the Engineer ten (10) days prior to the bid date for review and written approval. Regulatory Agency review and approval for all substitutions shall be the responsibility of the Contractor. To receive consideration, requests for substitutions must be accompanied by documentary proof of its equality with the G.C.I. Hospital Grade Receptacle. The Contractor shall be in letter form and identify the specified values/materials alongside proposed equal values/materials. In addition, catalog brochures and samples, if requested, must be included in the submittal. ONLY PRE-BID APPROVED PRODUCTS, ISSUED BY ADDENDUM TO A/R BIDDERS, WILL BE ALLOWED ON THE PROJECT. REGARDLESS OF THE APPROVAL ON ANY SUBSTITUTION, BIDS SHALL BE BASED ON THE PRODUCTS EXACTLY AS SPECIFIED. PRICING FOR EACH APPROVED SUBSTITUTION SHALL BE INCLUDED IN THE BID SUBMITTAL AS A SEPARATE LINE ITEM.

2. In the event that written authorization is given for a substitution after award of contract, the Contractor shall submit to the Engineer a justification from suppliers/distributors for the specified and proposed equal material for price comparison, as well as a verification of delivery dates that conform to the project schedule.
3. In the event of cost reduction, the Owner will be credited with 100 percent of the reduction, arranged by change order.
4. The Contractor warrants that substitutions proposed for specified items will fully perform the functions required.
- D. Alternates/Alternatives: For the purposes of specifying products, "alternatives/alternate" may be established to enable the Owner/Architect/Engineer to compare costs of alternative materials or methods might be used. An alternate price shall be submitted in addition to the original bid for consideration. If the alternate is deemed acceptable, written authorization will be issued.
- E. No Known Equal: For the purposes of specifying products, "No Known Equal" shall mean that the Owner/Architect/Engineer is not aware of an equivalent product. The Contractor will be required to submit a "Substitution" item, per the requirements listed above, if a different product is proposed to be utilized.

1.10 SHOP DRAWINGS/SUBMITTALS

- A. Shop Drawings/Submittals, unless required otherwise by general project specifications or instructions to bidders, shall be submitted in electronic format (PDF) to include a Letter of Transmittal (LOT), which shall give a list of the drawings submitted with data and/or printed(s) components contained within the submittal. Drawings and material cut sheets shall be complete in every respect and e-filed/marked to include specific items being provided. Printed/Hard copies are not acceptable.
- B. The shop drawings/submittals shall be marked with the name of the project, numbered consecutively, and bear the approval of the Contractor as evidence that the Contractor has checked the drawings. Any drawings submitted without this approval will be returned to the Contractor for resubmittal.
- C. If the shop drawings show variations from the requirements of the Contract because of standard shop practice or other reasons, the Contractor shall make specific mention of such variations in the Contractor's letter of transmittal. If the substitution is accepted, the Contractor shall be responsible for proper adjustment that may be caused by the substitution. Samples shall be submitted when requested.
- D. Only products listed as "Equal" within the contract documents, along with formally approved "Substitutions" will be reviewed. Products not conforming to these items will not be reviewed and will be returned to the Contractor for re-submittal.

- E. Review comments used in response to shop drawings/submittals are:

- "No Exception Taken" Product approved as submitted.
- "Tumish as Corrected" Re-submittal not required, although the Contractor shall provide the submitted product with corrections as noted.
- "Revise and Resubmit" Re-submittal required with corrections as noted.
- "Rejected" Re-submittal required based upon the originally specified product.

- F. Shop drawings shall be submitted on the following, but not limited to:

- Lighting fixtures, lamps and ballasts.
- Switchgear, switchboards, distribution boards, motor control centers, panelboards, and bus ducts; complete with overcurrent device information.
- Transformers.
- Fire Alarm System/Central Monitoring System.
- Wiring Devices.
- Lighting control products/dimming system products.
- Pull boxes and underground vaults.
- Terminal cabinets.
- Lighting inverters, UPS's, RDC's, PDUs, generators, transfer switches, SPD systems.
- Cable tray, flexible cable tray and cable runway.
- Power poles and floor boxes.
- Arch flash, short-circuit, and coordination studies.
- All other products called out on drawings that call for shop drawing submittal.

1.11 MAINTENANCE, SERVICING, INSTRUCTION MANUALS AND WIRING DIAGRAMS

- A. Prior to final acceptance of the job, the Electrical Contractor shall furnish to the Owner at least four (4) copies of operating and maintenance and servicing instructions, as well as four (4) complete wiring diagrams for the following items or equipment:

- Lighting control systems/dimming systems.
- Fire Alarm System.
- Transformers.

4. Switchgear, switchboards, distribution boards, motor control centers, panel boards, and bus ducts; complete with overcurrent device information.
5. Lighting inverters, UPS's, PDUs, generators, transfer switches, SPD systems.

6. All wiring diagrams shall specifically cover the system supplied. Typical drawings will not be accepted. Four (4) copies shall be presented to the Owner.

1.12 INTERUPTION OF SERVICES/SERVICE SHUTDOWN

- A. Any interruption of electrical services, electrical circuits, electrical feeders, signal systems, communication systems, fire alarm systems, etc., required to perform work shall meet the specific prior-approval requirements of the Owner. Such work shall be scheduled with the Owner to be performed at the Owner's convenience.

- B. Interruptions/outages of any of the Owner's systems and services mentioned above shall be scheduled to occur during other than the Owner's normal business hours. Any overtime costs shall be borne by the Contractor.

- C. See drawings for any additional requirements regarding outages, interruption and any temporary services required.

PART 2 – PRODUCTS

2.1 MATERIALS

- A. Materials and Equipment: All electrical materials and equipment, including custom-made equipment, shall be listed by Underwriter's Laboratories (UL) and bear their label or be listed and certified by a Nationally Recognized Testing Lab (NRTL) that is also recognized by the local Authority-Having-Jurisdiction (AHJ).

- B. Switchgear/Switchboards/Distribution Boards/Motor Control Centers:

1. See general single line diagram notes on drawings for more information.

- C. Panelboards – Branch Circuit:

1. See drawings for panel board schedules and specifications.

- D. Transformers:

1. See drawings for transformer schedules and specifications.

- E. Lighting Fixtures:

1. See drawings for lighting fixture and lamp schedules and additional specifications. Furnish, install, and connect a lighting fixture at each outlet where a lighting fixture type symbol (designated on plans) is shown as being installed. Each fixture shall be complete with all required accessories including sockets, glassware, boxes, spacers, mounting devices, fire rating enclosure and lamps.

2. Ballasts: See lighting fixture schedule notes. All noisy ballasts shall be replaced at no cost to the Owner.

3. Lamps: See lamp/fixture schedule and lamp/lighting fixture schedule notes.

- F. Wiring Devices:

1. Provide wiring devices indicated per plan. Devices shall be specification grade. Acceptable manufacturers are Leviton, Pass & Seymour and Hubbell. Provide all similar devices of same manufacturer, unless indicated otherwise. All device colors shall be selected from the full range of manufacturer standard color options as selected by the Architect. This direction will be provided in the shop drawing review process.

- a. Wiring Devices (Rec'd)

- | | |
|--|------------------|
| 1) Dedicated Receptacle | #16252-COLOR |
| 2) Dedicated Receptacle | #16352-COLOR |
| 3) Convenience I.G. Receptacle | #16262-ID-COLOR |
| 4) Dedicated to Receptacle, having the same | #16362-ID-COLOR |
| 5) Convenience G.F.C.I. Receptacle | #GPN1-H07 |
| 6) Dedicated G.F.C.I. Receptacle | #GPN2-H07 |
| 7) Convenience Hospital Grade Receptacle | #16352-H07-COLOR |
| 8) Dedicated Hospital Grade Receptacle | #16352-H07-COLOR |
| 9) Convenience Hospital Grade Receptacle | #GPN1-H07 |
| 10) Dedicated G.F.C.I. Hospital Grade Receptacle | #GPN2-H07 |
| 11) Tamper Resistant Convenience Receptacle | #TDR1-COLOR |
| 12) Tamper Resistant Dedicated Receptacle | #TDR2-COLOR |
| 13) Tamper Resistant GFCI Receptacle | #GPN2-H07 |
| 14) Tamper Res. Conv. G.F.C.I. Hospital Grade Receptacle | #GPN1-H07 |
| 15) Tamper Res. Ded. G.F.C.I. Hospital Grade Receptacle | #GPN2-H07 |
| 16) Weather/Tamper Resistant GFCI Receptacle | #GPN2-COLOR |
| 17) Convenience Hospital Grade Receptacle | #16351-COLOR |
| 18) Dedicated Simple Receptacle | #16361-CH-COLOR |
| 19) Recessed Cover Receptacle | (Non-Decor) |
| 20) Single Pole Switch | #5621-2-COLOR |
| 21) Double Pole Switch | #5622-2-COLOR |
| 22) Three Way Switch | #5623-2-COLOR |
| 23) Four Way Switch | #5624-2-COLOR |
| 24) Pilot Light Switch "On" | #5626-2-COLOR |
| 25) Pilot Light Switch "Off" | #5631-2-COLOR |
| 26) Projection Screen Switch | #5657-2-COLOR |
| 27) Low Voltage Motor Switch | #5657-2-COLOR |
| 28) Keyed Switch | #12121-2-COLOR |
| 29) Door Jam Switch | (Non-Decor) |
| | #1665-COLOR |

- b. Use of dedicated receptacles is required where plans depict a branch circuit supplying only a single simple or duplex receptacle. Use of controlled receptacles is required where depicted on plans – See controlled receptacle specifications for additional information.

2. I.G. (isolated ground) receptacle bodies shall be of a basic color specified above with an orange triangle to symbolize isolation from supply/distribution.

3. H.G. (hospital grade) receptacle bodies shall be of a basic color specified above with a green circle to symbolize hospital grade.

4. When shown circled on I.G. conductor, all receptacles shall be of the I.G. type. As an example, a NEMA 16-30R located on the plans and shown circled with an I.G. conductor shall be an I.G. version of the receptacle.

5. Wiring devices located in wood finished areas shall generally be black unless otherwise indicated by the Architect.

6. Wiring devices located in mirrors shall generally be white with stainless steel cover plates unless otherwise indicated by the architect.

7. In addition to other device requirements listed elsewhere in this specification and NEC, or CEC where adopted, **Articles 408.12 & 517.18**, all 120V & 240V, 15A and 20A, non-locking receptacles shall be Tamper-Resistant when located in the following locations:

- In dwelling units per NEC, or CEC where adopted, **Article 210.52**
- In guest rooms and guest suites of hotels and motels
- In child care or daycare facilities.
- In preschool and elementary education facilities
- In business offices, corridors, waiting rooms and the like in clinics, medical and dental offices and outpatient facilities.
- In a subset of Assembly Areas outlined in NEC, or CEC where adopted, **Article 518.2** including transportation waiting areas, gymnasiums, skating rinks, and auditoriums.
- In dormitories.
- In pediatric care areas per NEC, or CEC where adopted, **Article 517.18 (C)**.

8. Wiring devices shall be listed "hospital grade", and so identified, in the following locations:

- Patient bed locations within general care areas per NEC, or CEC where adopted, **Article 517.18(B)**.
- Patient bed locations within critical care areas per NEC, or CEC where adopted, **Article 517.18(B)**.
- In "other-than-hazardous" anesthetizing locations per NEC, or CEC where adopted, **Article 517.61(O)(2)**.

9. Wiring device cover plates located on recessed boxes shall be commercial grade nylon. Plate color shall match wiring device color UON on plans. Cover plates utilized on surface mounted boxes shall be metal. Plastic cover plates are unacceptable.

10. Except as otherwise noted, all wiring device plates on the project shall be labeled with panel and circuit number(s) utilizing a Brother P-touch labeling system with 1/2" tape (yellow on black) or equal by Herman-Tellerman or Panduit. Locate label on the concealed side of the wiring device plate. Handwritten labels are unacceptable.

11. The Contractor shall provide duplex receptacle outlets in the appropriate configurations necessary to comply with applicable energy code requirements for controlled receptacles and as shown on plans. All wiring devices indicated to be controlled receptacles shall be NEMA-approved, electrical code-compliant with factory markings on the face of the receptacle(s) with the word "CONTROLLED" or utilize further markings and symbols to indicate which receptacles on each outlet are controlled. Stickers, field-applied markings or other non-permanent markings are not acceptable. Where a GFCI receptacle outlet is required to be controlled, provide an adjacent controlled duplex receptacle outlet connected on the load side of the controlled receptacle. Where a GFCI receptacle outlet is required to be controlled, it may be the lower receptacle or upper receptacle based on manufacturer offering. However, the controlled receptacle location within a controlled receptacle outlet shall remain consistent throughout the project. Where an existing duplex receptacle outlet is required to be controlled, provide a new wiring device with the appropriate control configuration necessary to comply with plans. All controlled receptacles shall be connected to a branch circuit controlled by an occupancy sensor-based or relay panel lighting control system. Acceptable manufacturers are Leviton, Pass and Seymour & Hubbell.

12. The following wiring device plates shall have custom engraving:

- Key operated switches, switches with pilot lights, and switches for the control of motors, heaters and ventilators. Engraving shall be black and occur on the exposed side of the plate indicating the motor, heater, or ventilator controlled.
- Receptacles on optional standby generator and/or UPS power shall have custom engraved plates with the words "Generator" or "UPS" in black letters. In addition, where located in telecommunications closets, ID's, server rooms, data centers, labs (wet, dry or electronic) including panel board and circuit number.

- C. For Health Care Facilities, provide custom engraved device cover plates, for all devices, including panel board and circuit number. Devices served by normal/utility power circuits shall have black lettering; devices served by essential electrical system power circuits shall have red lettering.

- d. All stainless steel and nylon device plates shall be engraved using a rotary engraving process except for black lettering on stainless steel device plates which may be accomplished via laser engraving process. All lettering shall be 3/16" high, provide a dimensioned submittal drawing detailing a typical device receptacle with engraving.

- G. Weatherproof Outlet Covers/Assemblies: All Receptacles identified as weatherproof on the drawings shall be weather-resistant, tamper-resistant, GFCI type and equipped as follows:

- Type WP-A: Recessed wall box with a hinged, lockable, cast aluminum, self-closing, gasket-equipped door that is UL listed and weather-resistant raincoat and/or Unit shall comply with NEC, or CEC where adopted, **Article 408.3(A)** and **(B)**. UON on drawings, provide a minimum of 2 separate compartments suitable for installation of power receptacles, AV or communications outlets. Additionally, unless otherwise noted on drawings, provide the following:

- A 20A weather-resistant, tamper-resistant, GFCI duplex receptacle in the first compartment. Provide branch circulating per plans.
- A blank metal plate suitable for field installation of power, AV or communications devices in the second compartment.

- Where indicated on plans as requiring data, AV, or other low voltage service outlet, provide min. 3/4" C.O. with pull string routed from the second compartment to nearest floor, ceiling pull box where shown mounted in a building wall, or utility room/unused compartment shall be equipped minimum 3/4" C.O. with pull string routed to the nearest accessible ceiling space.

- d. See wiring device section of this specification for additional wiring device plate cover labeling requirements.

- e. (1) key minimum per device (minimum of 2 per project) to the Owner's project manager upon completion of project.

- f. Custom color powder coat finish as selected by Architect – Include all costs in base bid for same.

- g. In locations with sufficient wall depth, provide 6" wide x 6" tall x 5-1/2" deep recessed wall box (C.W. Cole #TL310-WCS-K1-CUSTOM COLOR).

- h. In locations utilizing shallow stud walls construction or other walls of insufficient depth, provide 10-3/4" wide x 7-3/8" tall x 3-7/8" deep recessed wall box (C.W. Cole #TL310-WCS-K1-CUSTOM COLOR).

- i. See drawings for additional details.

2. Type/Subscribe WP-B: Wet location-listed raincoat white "in use" cast copper-free aluminum, extra-duty, lockable cover with baked aluminum lacquer finish and one-gang, weather-resistant, tamper-resistant GFCI receptacle. Hubbell W9266 series. Polycarbonate covers are unacceptable. Unit shall comply with NEC, or CEC where adopted, **Article 408.3(A)** and **(B)**. Contractor shall powder coat assembly to a custom color what the Architect selects, as indicated by the Architect. The Contractor shall aesthetically sensitive or public spaces. Custom color as selected by Architect.

3. Type WP-C: (C.W. Cole #TL310-WCS-PED-ADA-K1-CUSTOM COLOR or #TL310-WCS-PED-K1-CUSTOM COLOR) pedestal device box with a hinged, lockable, cast aluminum, self-closing, gasket-equipped door that is UL listed and weather-resistant raincoat and/or Unit shall comply with NEC, or CEC where adopted, **Article 408.3(A)** and **(B)**. UON on drawings, provide a minimum of 2 separate compartments suitable for installation of power receptacles, AV or communications outlets. Additionally, unless otherwise noted on drawings, provide the following:

- A 20A weather-resistant, tamper-resistant, GFCI duplex receptacle in the first compartment. Provide branch circulating per plans.
- A blank metal plate suitable for field installation of power, AV or communications devices in the second compartment.

- Where indicated on plans as requiring data, AV, or other UL outlet, provide min. 3/4" C.O. with pull string routed from the second compartment to nearest low voltage pull box.

- d. See wiring device section of this specification for additional wiring device plate cover labeling requirements.

- e. 1 key minimum per device (minimum of 2 per project) to the Owner's project manager upon completion of project.

- f. Include all costs in base bid for ADA version (22.5" tall) of pedestal box. Prior to ordering material, contractor shall coordinate with architect and/or AHJ to determine which pedestal box locations do not require ADA compliance and may be changed to the standard (11.5" tall) version. The Contractor shall be responsible for the cost of the standard pedestal box locations.

- g. Custom color powder coat finish as selected by Architect. Include all costs in base bid for same.

- h. See drawings for additional details.

4. Type/Subscribe WP-D: Damp location-listed (not-raincoat-in-use) cast copper-free, pad lockable, 46-cast aluminum cover with baked aluminum lacquer finish and one gang and one-pole, weather-resistant, tamper-resistant, tamper-resistant raincoat and/or Unit shall comply with NEC, or CEC where adopted, **Article 408.3(A)** and **(B)**. Custom color powder coat finish as selected by Architect. Include all costs in base bid for same.

- H. Motor Controllers/Starters: See drawings for motorized equipment schedules and specifications.

I. Circuit Breakers.

1. Service entrance circuit breakers smaller than 400A frame shall be thermal-magnetic trip with inverse time current characteristics unless otherwise indicated on drawings. Service entrance main circuit breakers and main circuit breakers, 400A frame and larger shall be 100% rated, solid-state type as outlined in this specification. All other service entrance circuit breakers, 400A frame and larger, shall be 100% rated, solid-state type as outlined in this specification.

2. All non-service entrance circuit breakers 225A and larger shall be thermal magnetic type and have continuously adjustable instantaneous pick-ups of approximately 5 to 10 times trip rating. Breakers shall have either tamper-resistant rating data or easily changed trip rating plugs with trip ratings as indicated on the Drawings. Rating plugs shall be black with white lettering. Breakers shall be UL listed and have built-in test points for testing long delay, short delay and instantaneous, and ground fault (where shown) functions of the breaker as indicated on a 120V operation test kit. Breakers shall be UL listed and have built-in test points for testing all breakers 400A and above – at the Engineer's request.

3. All non-service entrance circuit

PERMIT SET: ISSUED FOR CONSTRUCTION

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N. ADDITIONAL LIGHTING ALLOWANCE: TAILORED ORNAMENTAL/SPECIAL EFFECTS

This section does not apply to this project.

O. ADDITIONAL LIGHTING ALLOWANCE: TAILORED VERY VALUABLE MERCHANDISE

This section does not apply to this project.

P. POWER ADJUSTMENT: LIGHTING CONTROL CREDIT (POWER ADJUSTMENT FACTOR (PAF))

This section does not apply to this project.

Q. RATED POWER REDUCTION COMPLIANCE FOR ALTERATIONS

This section does not apply to this project.

R. 80% LIGHTING POWER FOR ALL ALTERATIONS - CONTROLS EXCEPTIONS

This section does not apply to this project.

S. DAYLIGHT DESIGN POWER ADJUSTMENT FACTOR (PAF)

This section does not apply to this project.

Registration Number:

Registration Date/Time:

Registration Provider: Energysoft

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T. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in this document. If any selection have been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCC/

Form/Title		Field Inspector	
Yes	No	Pass	Fail
☒	☐	NRCL-LTI-01-E - Must be submitted for all buildings	☐
☒	☐	NRCL-LTI-02-E - Must be submitted for a lighting control system, or for an Energy Management Control System (EMCS), to be recognized for compliance.	☐
☒	☐	NRCL-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.	☐
☒	☐	NRCL-LTI-05-E - Must be submitted for a Power Adjustment Factor (PAF) to be recognized for compliance.	☐
☒	☐	NRCL-LTI-06-E - Must be submitted for additional wattage installed in a video conferencing studio to be recognized for compliance.	☐

U. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Selections have been made based on information provided in this document. If any selection have been changed by the permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and any with "A" in the form name must be completed through an Acceptance Test Technician Certification Provider (ATTCP). For more information visit: <http://www.energy.ca.gov/title24/attcp/providers.html>

Form/Title		Field Inspector	
Yes	No	Pass	Fail
☒	☐	NRCA-LTI-02-A - Must be submitted for occupancy sensors and automatic time switch controls.	☐
☒	☐	NRCA-LTI-03-A - Must be submitted for automatic daylight controls.	☐
☒	☐	NRCA-LTI-04-A - Must be submitted for demand responsive lighting controls.	☐
☒	☐	NRCA-LTI-05-A - Must be submitted for institutional tuning power adjustment factor (PAF)	☐

Registration Number:

Registration Date/Time:

Registration Provider: Energysoft

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DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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

Documentation Author Name: Ray Swartz

Signature Date: 2021-08-06

Signature: [Signature]

Company: tkisc

Address: 15231 Laguna Canyon Road, Suite 100

City/State/Zip: Irvine CA 92618

Phone: (949) 751-5800

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 that is submitted to the building owner at occupancy.

Responsible Designer Name: Ray Swartz

Signature: [Signature]

Company: tkisc

Address: 15231 Laguna Canyon Road

City/State/Zip: Irvine CA 92618

Phone: (949) 751-5800

Registration Number:

Registration Date/Time:

Registration Provider: Energysoft

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F. INDOOR LIGHTING FIXTURE SCHEDULE									
LT-201	LT-201 - 4" Wet Rated Downlight LED	No	No	17.5	Mfr. Spec.	16	No	280	☐
LT-202	LT-202 - Wet Rated Downlight Steam LED	No	No	10	Mfr. Spec.	4	No	40	☐
LT-203	LT-203 - 4" Wet Rated Downlight LED	No	No	25.5	Mfr. Spec.	4	No	102	☐
LTG-3450	LTG-3450 - 16" Flushmount LED	No	No	24	Mfr. Spec.	15	No	360	☐
LTG-3451	LTG-3451 - Decorative Wall Sconce LED	No	No	60	Mfr. Spec.	11	No	660	☐
LTG-3452	LTG-3452 - Decorative Round Flushmount LED	No	No	120	Mfr. Spec.	2	No	240	☐
LTG-3453	LTG-3453 - Decorative Wall Sconce LED	No	No	12	Mfr. Spec.	4	No	48	☐
				Total Designed Watts: CONDITIONED SPACES		2,104			

*FOOTNOTE: Design Watts for small aperture and color changing luminaires which qualify per §140.6(a)(2)(B) is adjusted to be 75% of their rated wattage. Table F automatically makes this adjustment, the permit applicant should enter full rated wattage in column 05.

*Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per §130.0(c). Wattage used must be the maximum rated for the luminaire, not the lamp.

G. MODULAR LIGHTING SYSTEMS

This section does not apply to this project.

H. INDOOR LIGHTING CONTROLS (Not including PAFs)

This table includes lighting controls for conditioned and unconditioned spaces. When a control having a "*" is shown, the notes section of this table provides more detail on how compliance is achieved. The lighting controls section of the Compliance Summary Table on the first page will show "DOES NOT COMPLY" if the notes are left blank.

01		02		03	
Mandatory Demand Response §110.12(c)		Shut-off controls §130.1(c)		Field Inspector	
Required > 10,000 SF		Whole Building Auto Time Switch		Pass	Fail

Registration Number:

Registration Date/Time:

Registration Provider: Energysoft

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H. INDOOR LIGHTING CONTROLS (Not including PAFs)									
Area Level Controls									
04	05	06	07	08	09	10	11	12	
Area Description	Complete Building or Area Category Primary Function Area	Area Controls <i>§130.1(a)</i>	Multi-Level Controls <i>§130.1(b)</i>	Shut-Off Controls <i>§130.1(c)</i>	Primary/Sky lit Daylighting <i>§130.1(d)</i>	Secondary Daylighting <i>§130.1(e)</i>	Interlocked Systems <i>§140.4(a)(1)</i>	Field Inspector	
								Pass	Fail
							13		
*NOTES: Controls with a * require a note in the space below explaining how compliance is achieved. Ex: EXCEPTION 1: Primary/Skylight Daylighting: Exempt because less than 120 watts of general lighting; EXCEPTION 1 to §130.1(d)(2)							Plan Sheet Showing Daylit Zones:		