COMcheck Software Version 4.1.1.0
Interior Lighting Compliance Certificate

Project Information

Energy Code: 90.1 (2007) Standard
Project Title: OneLife Holly Springs
Project Type: Addition

Construction Site: 4512 Holly Springs Parkway, Canton, GA 30115
Owner/Agent:
Designer/Contractor:

Allowed Interior Lighting Power

A Area Category	B Floor Area (ft2)	C Allowed Watts / ft2	D Allowed Watts (B X C)
1-OUTDOOR WORKOUT SPACE (Gymnasium/Exercise Center:Exercise Area)	2753	0.90	2478
		Total Allowed Watts =	2478

Proposed Interior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixtures	D Fixture Watt.	E (C X D)
1-OUTDOOR WORKOUT SPACE (Gymnasium/Exercise Center:Exercise Area)				
A: Other:	1	14	85	1190
F12: Other:	1	1	32	32
			Total Proposed Watts =	1222

Interior Lighting PASSES: Design 51% better than code

Interior Lighting Compliance Statement

Compliance Statement: The proposed interior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have been designed to meet the 90.1 (2007) Standard requirements in COM*check* Version 4.1.1.0 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

WILLIAM S. GADDY JR.– PRINCIPAL ENGINEER — Name - Title
William S. Gaddy Jr. — Signature
08/09/19 — Date

Project Title: OneLife Holly Springs — Report date: 08/20/19
Data filename: Z:\17 009.00 One Life Fitness Holly Springs (USF)\Drawings\Enclosed Porch\Calculations\Electrical\Holly Springs Enclosed Porch addition.cck — Page 1 of 5

GENERAL NOTES

1. THE WORD "PROVIDE" MEANS TO FURNISH, INSTALL, AND CONNECT WHERE USED ON THE DRAWINGS.
2. REFER TO ONE-LINE DIAGRAM FOR FEEDER SIZES FOR PANELBOARDS.
3. OVERCURRENT PROTECTION, WIRE SIZE AND NUMBER OF CONNECTION POINTS FOR MECHANICAL HVAC EQUIPMENT IS FOR ITEMS AS SPECIFIED. COORDINATE WITH MECHANICAL CONTRACTOR AND MAKE NECESSARY CHANGES PRIOR TO INSTALLATION FOR ACTUAL EQUIPMENT FURNISHED AT NO COST TO OWNER. REFER TO MECHANICAL DRAWINGS FOR EXACT LOCATION OF MECHANICAL EQUIPMENT. REFER TO ELECTRICAL EQUIPMENT CONNECTION SCHEDULE.
4. ALL JUNCTION BOX COVERPLATES SHALL BE LABELED. SEE DETAIL.
5. ALL RECEPTACLES WITHIN SIX (6) FEET OF PLUMBING FIXTURES SHALL BE PROVIDED WITH 5 MILLIAMP GROUND FAULT INTERRUPTERS.
6. EDGE OF LIGHT SWITCH WALL PLATE SHALL BE NOT MORE THAN 4" AWAY FROM METAL/WOOD DOOR FRAME. TYPICAL FOR SINGLE OR MULTIPLE WALL SWITCHES.
7. BRANCH CIRCUIT CONDUCTORS SHALL NOT BE SMALLER THAN NO. 12 AND WHERE BRANCH CIRCUIT CONDUCTOR RUNS FROM SOURCE (PANEL) TO THE LAST DEVICE ON THE CIRCUIT EXCEEDS 100 FEET IN LENGTH, THE CONDUCTORS SHALL BE NO. 10 MINIMUM AND FOR THE ENTIRE LENGTH OF THE CIRCUIT. FOR RUNS OVER 200 FEET IN LENGTH THE CONDUCTOR SHALL BE NO. 8 MINIMUM AND FOR THE ENTIRE LENGTH OF THE CIRCUIT. THE ABOVE APPLIES TO 120 VOLT CIRCUITS ONLY.
8. CONFIRM MOUNTING HEIGHTS AND COORDINATE LOCATION OF ALL OUTLETS, SWITCHES AND OTHER DEVICES WITH ARCHITECTURAL ELEVATIONS OR FURNITURE LAYOUT PRIOR TO ROUGH-IN.
9. ALL MULTIWIRE BRANCH CIRCUITS SHALL BE FED FROM BRANCH CIRCUIT BREAKERS THAT WILL SIMULTANEOUSLY DISCONNECT ALL UNGROUNDED CONDUCTORS AT THE POWER WHERE THE BRANCH CIRCUIT ORIGINATES TO COMPLY WITH NEC 210.4(B).
10. PROVIDE A NEUTRAL CONDUCTOR IN EVERY SWITCHLEG FOR CURRENT OR FUTURE USE WITH OCCUPANCY SENSORS OR DIMMER SWITCHES.
11. PROVIDE SEAL FOR PENETRATION OF FIRE-RATED WALLS BY CONDUIT. SEE DETAIL. SEE ARCHITECTURAL PLAN FOR RATED WALL LOCATIONS.
12. BACK-TO-BACK RECEPTACLES IN ALL ONE HOUR FIRE-RATED WALLS SHALL BE LOCATED A MINIMUM OF 24" ON CENTER.
13. NEW FIRE ALARM DEVICES WITH VOICE EVACUATION CAPABILITY SHALL BE COMPATIBLE WITH EXISTING FIRE ALARM SYSTEM. ALL FIRE ALARM NOTIFICATION DEVICES TO HAVE A WHITE COVER PLATE.
14. FIRE ALARM SYSTEM BATTERIES SHALL BE MARKED WITH THE MONTH AND YEAR OF MANUFACTURING. WHERE BATTERY IS NOT MARKED BY THE MANUFACTURER, INSTALLER SHALL OBTAIN THE DATE CODE AND MARK THE BATTERY ACCORDINGLY.
15. 208/120V CONDUCTORS SHALL BE COLOR-CODED WITH JACKET OR MARKING TAPE AS FOLLOWS:

    PHASE A – BLACK
    PHASE B – RED
    PHASE C – BLUE
    NEUTRAL – WHITE
    GROUND – GREEN

16. 480/277V CONDUCTORS SHALL BE COLOR-CODED WITH JACKET OR MARKING TAPE AS FOLLOWS:

    PHASE A – BROWN
    PHASE B – ORANGE
    PHASE C – YELLOW
    NEUTRAL – GRAY
    GROUND – GREEN

17. WHERE RECEPTACLES, DATA/VOICE OUTLETS, ETC ARE TO BE MOUNTED IN WOOD PANEL WALLS OR WAINSCOT WALLS, COORDINATE OUTLET LOCATIONS TO EITHER BE CENTERED WITHIN PANELS OR CENTERED BETWEEN PANELS. ADJUST SWITCH HEIGHTS SO THAT THEY ARE EITHER COMPLETELY WITHIN WAINSCOTING OR COMPLETELY ABOVE IT.

SPECIFICATIONS

A. THE CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS, AND EQUIPMENT FOR COMPLETE ELECTRICAL INSTALLATION.
B. ALL WORK SHALL CONFORM TO REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE AND APPLICABLE STATE AND LOCAL CODES.
C. WORKMANSHIP SHALL BE FIRST QUALITY AND IN ACCORDANCE WITH BEST PRACTICES OF THE TRADE BY SKILLED WORKERS.
D. LOCATIONS SHOWN ARE APPROXIMATE. CONTRACTOR SHALL COORDINATE ACTUAL LOCATIONS WITH OTHER TRADES.
E. CONTRACTOR SHALL OBTAIN AND PAY FOR ALL FEES AND PERMITS REQUIRED AND SHALL FURNISH CERTIFICATION OF INSPECTION TO OWNER AT THE COMPLETION OF PROJECT.
F. ALL MATERIAL SHALL BE NEW AND UL APPROVED AND LABELED.
G. UNLESS OTHERWISE NOTED, ALL INTERIOR CONDUIT SHALL BE IN MINIMUM 1/2" EMT WITH SET-SCREW FITTINGS. CONDUIT BELOW SLAB OR GRADE SHALL BE MINIMUM 3/4" RIGID CONDUIT OR PVC. CONDUIT WITHIN ELEVATED SLABS SHALL BE MINIMUM 1/2" EMT WITH COMPRESSION FITTINGS. EXTERIOR CONDUIT ABOVE GRADE SHALL BE MINIMUM 1/2" RIGID OR IMC. WHERE CONDUIT TRANSITIONS FROM BELOW SLAB OR GRADE TO ABOVE SLAB OR GRADE, PROVIDE RIGID ELBOWS AND RIGID NIPPLES. FLEXIBLE METAL CONDUIT SHALL BE USED FOR CONNECTIONS TO LIGHT FIXTURES (NO LONGER THAN 6-FEET) OR FOR CONNECTION TO VIBRATING EQUIPMENT SUCH AS MOTORS OR TRANSFORMERS (NO LONGER THAN 3-FEET). WHERE INSTALLED OUTSIDE OR IN AREAS SUBJECT TO WATER, PROVIDE LIQUID-TIGHT FLEXIBLE METAL CONDUIT.
H. UNLESS OTHERWISE NOTED, ALL CONDUCTORS SHALL BE TYPE THHN/THWN COPPER, SOLID FOR #10 OR SMALLER, STRANDED FOR #8 OR LARGER. CONDUCTORS #10 OR SMALLER SHALL HAVE COLORED INSULATION JACKET. MC CABLE MAY BE USED WHERE CONCEALED WITHIN WALLS AND ABOVE CEILINGS. MINIMUM WIRE SIZE TO BE #12 AWG. ALL WIRE SHALL BE COPPER.
I. LOW-VOLTAGE CABLE AND ASSOCIATED TIES SHALL BE PLENUM-RATED.
J. PANELBOARDS SHALL BE SIEMENS TYPE P1 OR APPROVED EQUAL. PROVIDE ENGRAVED NAMEPLATES AND TYPED PANELBOARD DIRECTORY. ALL CIRCUIT BREAKERS SHALL BE BOLT-ON TYPE. WHERE MULTIPLE SECTION PANELBOARDS ARE SHOWN, PROVIDE FEED-THRU LUGS. PROVIDE AIC RATING AS NOTED ON PANELBOARD SCHEDULES. CIRCUIT BREAKERS SHALL BE INSTALLED AND LOADS CONNECTED AS SHOWN ON PANELBOARD SCHEDULE.
K. CIRCUIT BREAKER POWER PANELBOARDS SHALL BE SIEMENS TYPE P5 OR APPROVED EQUAL. PROVIDE ENGRAVED NAMEPLATES AND TYPED PANELBOARD DIRECTORY. ALL CIRCUIT BREAKERS SHALL BE BOLT-ON TYPE. WHERE MULTIPLE SECTION PANELBOARDS ARE SHOWN, PROVIDE FEED-THRU LUGS. PROVIDE AIC RATINGS AS NOTED ON PANELBOARD SCHEDULES. CIRCUIT BREAKERS SHALL BE INSTALLED AND LOADS CONNECTED AS SHOWN ON PANELBOARD SCHEDULE.
I. TOGGLE SWITCHES TO BE SPECIFICATION GRADE, 20A, 120-277 VAC HUBBELL CATALOG #1221, #1222, #1223, 1224 (OR EQUIVALENT) WITH THERMOPLASTIC DEVICE PLATES. COORDINATE COLOR WITH ARCHITECT.
J. DUPLEX RECEPTACLES TO BE SPECIFICATION GRADE, 20A, 120V HUBBELL CATALOG #5262 AND #GF5262I (OR EQUIVALENT) WITH THERMOPLASTIC DEVICE PLATES. COORDINATE COLOR WITH ARCHITECT.
K. WALL BOX DIMMERS SHALL BE 0-10V RATED FOR USE WITH LED FIXTURES.
L. ALL DEVICES INSTALLED IN AREAS EXPOSED TO THE WEATHER AND WHERE SPECIFICALLY INDICATED SHALL BE FURNISHED WITH A WEATHERPROOF DEVICE PLATE.
M. LIGHTING FIXTURES AND LAMPS TO BE FURNISHED AND INSTALLED AS INDICATED ON THE LIGHTING FIXTURE SCHEDULE.
N. DISCONNECT SWITCHES SHALL BE HEAVY DUTY TYPE, NEMA 1 FOR INDOOR, NEMA 3R FOR OUTDOOR UNLESS INDICATED OTHERWISE.
O. ALL ELECTRICAL EQUIPMENT AND SYSTEMS SHALL BE TESTED AND ADJUSTED FOR PROPER OPERATION. COMPLETED WIRING SYSTEM SHALL BE FREE OF SHORT CIRCUITS.
P. TERMINATIONS (LUGS, TERMINAL BLOCKS, ETC.) IN CIRCUIT BREAKERS, DISCONNECT SWITCHES, LIGHTING CONTACTOR, RELAYS, PANELBOARDS, TIME SWITCHES, ETC. SHALL BE RATED FOR 75 DEGREES C IN TEMPERATURE. IF TERMINATIONS IN EQUIPMENT SUCH AS EXHAUST FANS, WATER HEATERS, AIR CONDITIONING UNITS, ETC., ARE RATED FOR 60 C ONLY, THEN CONDUCTORS MUST BE DE-RATED AND USED IN COMPLIANCE WITH TABLE 310-16 OF CURRENT NEC AND SIZED PER THE 60 DEGREES C COLUMN.

IMPORTANT NOTE

PRIOR TO ROUGH-IN OF ANY DEVICES SUCH AS SWITCHES, RECEPTACLES, TV OUTLETS, DATA OUTLETS, FLOOR BOXES, ETC. MARK LOCATIONS ON THE STUDS OR WALLS WITHIN THE SPACE AND OBTAIN OWNER'S WRITTEN APPROVAL. ANY DEVICES INSTALLED IN LOCATIONS NOT APPROVED BY OWNER MAY BE RELOCATED AT NO EXPENSE TO THE OWNER AT ANY TIME PRIOR TO COMPLETION OF THE PROJECT.

DEMOLITION NOTES

1. EXISTING LIGHTING FIXTURES SHALL BE DISCONNECTED AND MADE SAFE FOR REMOVAL. FIXTURES SHALL BE TURNED OVER TO OWNER.
2. DISCONNECT AND REMOVE ALL LOW VOLTAGE COMPONENTS INCLUDING SPEAKERS AND SUBWOOFERS DURING CEILING DEMOLITION

ELECTRICAL LEGEND

LA-1 #10	HOMERUN TO PANELBOARD, LETTER-NUMBER INDICATES PANEL AND DESIGNATION. SLASH MARKS INDICATE NUMBER OF CONDUCTORS IN SIZE CONDUIT AS REQUIRED BY NEC. NO SLASH MARKS INDICATES 2#12 & 1#12G – 1/2"C. #NUMBER ADJACENT TO THE SLASH MARKS INDICATE CONDUCTOR SIZE FOR THE CIRCUIT. CONDUCTOR SIZE INDICATED IS FOR ALL CONDUCTORS IN THE CONDUIT FOR THE ENTIRE LENGTH OF THE CIRCUIT.
	CONDUIT CONCEALED ABOVE CEILINGS OR WITHIN WALLS
	EXPOSED CONDUIT
	CIRCUIT CONTINUATION
	NEMA 5-20R GROUNDING DUPLEX RECEPTACLE. MOUNT AT 18" ABOVE FINISHED FLOOR.
	NEMA 5-20R GROUNDING DUPLEX RECEPTACLE WITH 5mA INTEGRAL GROUND FAULT SENSING DEVICE. PROVIDE TAYMAC STANDARD CLEAR COVER WHICH MAINTAINS WEATHERPROOF RATING WHILE PLUG IS INSERTED. MOUNT AT 18" ABOVE FINISHED FLOOR.
	JUNCTION BOX. SIZE AS REQUIRED FOR CONDUITS AND FILL.
	WALL-MOUNTED LIGHT FIXTURE, TYPE AS DESIGNATED ON PLAN. REFER TO LIGHT FIXTURE SCHEDULE.
	WALL-MOUNTED LIGHT FIXTURE, TYPE INDICATED. REFER TO LIGHT FIXTURE SCHEDULE.
	LIGHT FIXTURE, TYPE INDICATED. CEILING MOUNTED. REFER TO LIGHT FIXTURE SCHEDULE.
	EMERGENCY LIGHT FIXTURE, TYPE INDICATED. CEILING MOUNTED. REFER TO LIGHT FIXTURE SCHEDULE.
	EXIT SIGN, TYPE AS DESIGNATED ON PLAN. PROVIDE NUMBER OF FACES AND CHEVRONS AS INDICATED ON PLAN. REFER TO LIGHT FIXTURE SCHEDULE.
	COMBINATION EXIT SIGN/EGRESS LIGHT, TYPE AS DESIGNATED ON PLAN. PROVIDE NUMBER OF FACES AND CHEVRONS AS INDICATED ON PLAN. REFER TO LIGHT FIXTURE SCHEDULE.
	WALL OR CEILING-MOUNTED EGRESS LIGHT FIXTURE, TYPE AS DESIGNATED ON PLAN. REFER TO LIGHT FIXTURE SCHEDULE.
	LIGHT SWITCH, "2" INDICATES 2-POLE, "3" INDICATES 3-WAY, "4" INDICATES 4-WAY, "P" INDICATES PILOT LIGHT. MOUNT AT 48" ABOVE FINISHED FLOOR. HEIGHT MEASURED TO CENTERLINE OF DEVICE.
	FIRE ALARM PULL STATION. MOUNT MOUNT SUCH THAT OPERABLE PART OF THE DEVICE IS NO LESS THAN 42" ABOVE FINISHED FLOOR OR GREATER THAN 48" ABOVE FINISHED FLOOR. HEIGHT MEASURED TO CENTERLINE OF DEVICE.
	FIRE ALARM HORN/STROBE. MOUNT SUCH THAT ENTIRE LENS IS NO LESS THAN 80" ABOVE FINISHED FLOOR OR GREATER THAN 96" ABOVE FINISHED FLOOR. 15/75 CANDELA IN OFFICES.
	FIRE ALARM STROBE ONLY. MOUNT SUCH THAT ENTIRE LENS IS NO LESS THAN 80" ABOVE FINISHED FLOOR OR GREATER THAN 96" ABOVE FINISHED FLOOR. 15/75 CANDELA IN OFFICES,
	FIRE ALARM PHOTOELECTRIC SMOKE DETECTOR. CEILING MOUNT AT LOCATION SHOWN UNLESS OTHERWISE NOTED.
	FIRE ALARM HEAT DETECTOR. COMBINATION FIXED TEMPERATURE/RATE OF RISE. CEILING MOUNT AT LOCATION SHOWN UNLESS OTHERWISE NOTED.
	FIRE ALARM DUCT SMOKE DETECTOR. ELECTRICAL CONTRACTOR SHALL FURNISH THE DETECTOR, THE MECHANICAL CONTRACTOR SHALL INSTALL IN THE DUCTWORK, AND THE ELECTRICAL CONTRACTOR SHALL CONNECT TO THE FIRE ALARM.

ABBREVIATIONS

A	AMPERE	FA	FIRE ALARM	NEUT	NEUTRAL
AC	ALTERNATING CURRENT	G OR GND	GROUND	P	POLE
AF	AMPERE FRAME	GRC	GALVANIZED RIGID CONDUIT	PB	PUSH-BUTTON
AFF	ABOVE FINISHED FLOOR	HID	HIGH INTENSITY DISCHARGE	PH	PHASE
AFG	ABOVE FINISHED GRADE	HT	HEIGHT	PNL	PANEL
AIC	AMPERE INTERRUPTING CAPACITY	IMC	INTERMEDIATE METAL CONDUIT	PVC	POLYVINYL CHLORIDE
AT	AMPERE TRIP	J	JUNCTION BOX	RGS	RIGID GALVANIZED STEEL
AWG	AMERICAN WIRE GAUGE	KA	KILO-AMPERES	TYP	TYPICAL
BKR	BREAKER	KCMIL	THOUSAND CIRCULAR MILS	UG	UNDERGROUND
BFG	BELOW FINISHED GRADE	KVA	KILOVOLT-AMPERES	UNO	UNLESS NOTED OTHERWISE
C	CONDUIT, CONDUCTOR	LED	LIGHT EMITTING DIODE	V	VOLTS
CKT	CIRCUIT	MCB	MAIN CIRCUIT BREAKER	VA	VOLT-AMPERES
CU	COPPER	MIN	MINIMUM	W	WATTS, WIRE
DIA	DIAMETER	MLO	MAIN LUG ONLY	WP	WEATHERPROOF
ELEC	ELECTRIC, ELECTRICAL	MTG	MOUNTING	XFMR	TRANSFORMER
EXP	EXPLOSION-PROOF	NEC	NATIONAL ELECTRICAL CODE	&	AND

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ELECTRICAL COVER PAGE

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GEORGIA REGISTERED PROFESSIONAL ENGINEER No. 26276 WILLIAM S. GADDY, JR. 09-20-19

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1 of 3 sheets

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