COMcheck Software Version 4.1.1.0
Interior Lighting Compliance Certificate

Project Information

Energy Code: 2017 Florida Building Code, Energy Conservation
Project Title: MARRIOTT CABANA CLUB
Project Type: New Construction

Construction Site: 619 PONTE VEDRA BLVD, PONTE VEDRA BEACH, FL 32082
Owner/Agent:
Designer/Contractor:

Additional Efficiency Package(s)

Reduced interior lighting power. Requirements are implicitly enforced within interior lighting allowance calculations.

Allowed Interior Lighting Power

A Area Category	B Floor Area (ft2)	C Allowed Watts / ft2	D Allowed Watts (B X C)
1-Common Space Types:Food Preparation	2320	1.09	2529
2-Common Space Types:Dining Area - Bar Lounge/Leisure	4435	0.96	4258
3-Common Space Types:Stairwell	1290	0.62	800
4-Common Space Types:Restrooms	510	0.88	527
5-Common Space Types:Electrical/Mechanical	1025	0.85	871
		Total Allowed Watts =	8984

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-Common Space Types:Food Preparation				
LED 1: A1/A1E: 2X2 LENSED TROFFER; LED Panel 33W:	1	37	33	1221
LED 5: G2: 6IN RECESSED DOWNLIGHT: LED PAR 15W:	1	5	14	70
2-Common Space Types:Dining Area - Bar Lounge/Leisure				
Track lighting 1: K1: TRACK ACCENTS W/ 1A CL: Wattage based on current limiting device capacity	0	0	120	120
Track lighting 2: K1: TRACK ACCENTS W/ 1A CL: Wattage based on current limiting device capacity	0	0	120	120
Track lighting 3: K1: TRACK ACCENTS W/ 1A CL: Wattage based on current limiting device capacity	0	0	120	120
LED 4 copy 1: G1: 4IN RECESSED DOWNLIGHT: LED PAR 16W:	1	20	16	310
Track lighting 4: K1: TRACK ACCENTS W/ 1A CL: Wattage based on current limiting device capacity	0	0	120	120
LED 6: G3: 6IN RECESSED DOWNLIGHT: LED Other Fixture Unit 40W:	1	8	42	336
LED 7: H1: 1.4W/LF LED TAPE LIGHT: LED MR 2W:	1	47	1	66
LED 7 copy 1: H2: 1.8W/LF LED TAPE LIGHT: LED MR 2W:	1	35	2	56
LED 7 copy 2: H3: 2.1W/LF LED TAPE LIGHT: LED MR 2W:	1	29	2	61
LED 7 copy 3: H4: 6.9W/LF LED TAPE LIGHT: LED MR 2W:	1	153	9	1362
LED 7 copy 4: H5: 3.0W/LF LED TAPE LIGHT: LED MR 2W:	1	68	3	204
LED 7 copy 5: H6: 2.0W/LF LED TAPE LIGHT: LED MR 2W:	1	26	2	52
3-Common Space Types:Stairwell				
LED 2b: J2: STAIRWELL SURFACE MOUNT: LED Other Fixture Unit 25W:	1	18	21	378
4-Common Space Types:Restrooms				
LED 4: G1: 4IN RECESSED DOWNLIGHT: LED PAR 16W:	1	12	16	186
Incandescent 2: M-306: RESTROOM DECORATIVE SCONCE: Incandescent 40W:	1	4	40	160
LED 27: H-312: RR DECORATIVE SCONCE: LED Other Fixture Unit 25W:	1	4	60	240
5-Common Space Types:Electrical/Mechanical				
LED 2: C1E: INDUSTRIAL LED STRIP: LED Linear 22W:	1	9	22	198
LED 3: C2: INDUSTRIAL GASKETED LED STRIP: LED Linear 32W:	1	2	32	64
			Total Proposed Watts =	8872

Interior Lighting PASSES: Design 1% 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 2017 Florida Building Code, Energy Conservation requirements in COMcheck Version 4.1.1.0 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Timothy Buhl, Electrical Designer — Name - Title
Signature
May 22, 2020 — Date

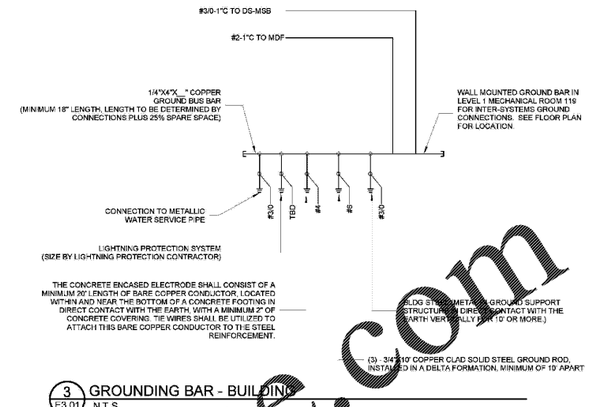
COMcheck Software Version 4.1.1.0
Inspection Checklist

Energy Code: 2017 Florida Building Code, Energy Conservation

Requirements: 0.0% were addressed directly in the COMcheck software
Text in the "Comments/Assumptions" column is provided by the user in the COMcheck Requirements screen. For each requirement, the user certifies that a code requirement will be met and how that is documented, or that an exception is being claimed. Where compliance is itemized in a separate table, a reference to that table is provided.

Section # & Req.ID	Plan Review	Complies?	Comments/Assumptions
C405.6 [PR17][1]	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the electrical systems and equipment and document where exceptions are claimed. Provisions are made for metering individual tenant units. Feeder connectors (for feeder and branch circuits) sized in accordance with approved plans with maximum drop of 5% voltage drop total.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C103.2 [PR4][1]	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the interior lighting and electrical systems and equipment and document where exceptions to the standard are claimed. Information provided should include interior lighting power calculations, wattage of bulbs and ballasts, transformers and control devices.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C406 [PR9][1]	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the additional energy efficiency package options.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	

Additional Comments/Assumptions:



3 E3.01 GROUNDING BAR - BUILDING
N.T.S.

Section # & Req.ID	Rough-In Electrical Inspection	Complies?	Comments/Assumptions
C405.2.1 [EL15][1]	Lighting controls installed to uniformly reduce the lighting load by at least 50%.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C405.2.1 [EL18][1]	Occupancy sensors installed in required spaces.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C405.2.1, C405.2.2.3 [EL23][1]	Independent lighting controls installed per approved lighting plans and all manual controls readily accessible and visible to occupants.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C405.2.2.2 [EL22][1]	Automatic controls to shut off all building lighting installed in all buildings.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C405.2.3 [EL16][1]	Daylight zones provided with individual controls that control the lights independent of general area lighting.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C405.2.3, C405.2.3.1, C405.2.3.2 [EL20][1]	Primary sidelighted areas are equipped with required lighting controls.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C405.2.3, C405.2.3.1, C405.2.3.3 [EL21][1]	Enclosed spaces with daylight area under skylights and rooftop monitors are equipped with required lighting controls.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C405.2.4 [EL4][1]	Separate lighting control devices for specific uses installed per approved lighting plans.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C405.2.4 [EL8][1]	Additional interior lighting power allowed for special functions per the approved lighting plans and is automatically controlled and separated from general lighting.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C405.3 [EL6][1]	Exit signs do not exceed 5 watts per face.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	

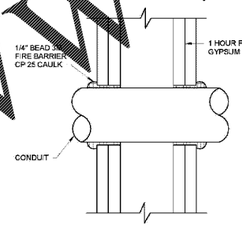
Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Section # & Req.ID	Final Inspection	Complies?	Comments/Assumptions
C303.3, C408.2.5.2 [FI17][1]	Furnished O&M instructions for systems and equipment to the building owner or designated representative.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C405.4.1 [FI18][1]	Interior installed lamp and fixture lighting power is consistent with what is shown on the approved lighting plans, demonstrating proposed watts are less than or equal to allowed watts.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	*See the Interior Lighting fixture schedule for values.*
C408.2.5.1 [FI16][1]	Furnished as-built drawings for electric power systems within 90 days of system acceptance.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C408.3 [FI13][1]	Lighting systems have been tested to ensure proper calibration, adjustment, programming, and operation.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	

Additional Comments/Assumptions:

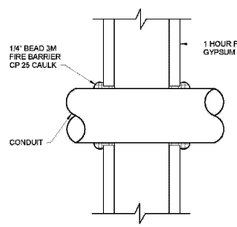
1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)



DETAIL
PENETRATION FIRESTOP FOR NOMINAL 6" DIAMETER (OR SMALLER) RIGID METAL CONDUIT OR 4" OR SMALLER EMT CONDUIT.

2 HOUR RATING — UL SYSTEM # W-L-1001

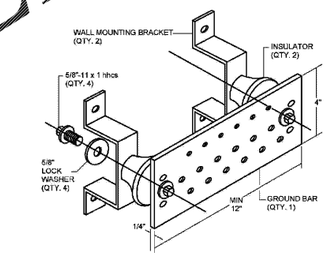
1 E3.01 2 HOUR RATING A - WALL
N.T.S.



DETAIL
PENETRATION FIRESTOP FOR NOMINAL 6" DIAMETER (OR SMALLER) RIGID METAL CONDUIT OR 4" OR SMALLER EMT CONDUIT.

1 HOUR RATING — UL SYSTEM # W-L-1001

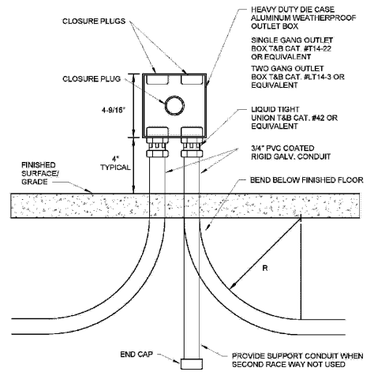
2 E3.01 1 HOUR RATING - WALL
N.T.S.



DETAIL NOTES:

1. PROVIDE 1/4" X 4" BAR, DRILLED AND TAPPED AS REQUIRED. INSULATORS SHALL BE 2.7kV RATED.

4 E3.01 GROUNDING BUSS BAR
N.T.S.



5 E3.01 FREE STANDING RECEPTACLE INSTALLATION
N.T.S.

Thompson Ehle Company
www.teseng.org
Tel. (713) 518-1426
TEC Project #219018

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ATLANTA, GA 30328

Benjamin Kowalczyk, State of Florida, Professional Engineer, License No. 77851

This item has been electronically signed and sealed by Benjamin Kowalczyk, on the Date and/or Time Stamp using a digital signature.

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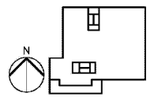
KEY PLAN



REVISION
NO. DESCRIPTION DATE

HKS PROJECT NUMBER
22808.001

DATE
05/22/2020

ISSUE
PERMIT SET

SHEET TITLE
DETAILS & COMCHECK - ELECTRICAL

SHEET NO.
E3.01