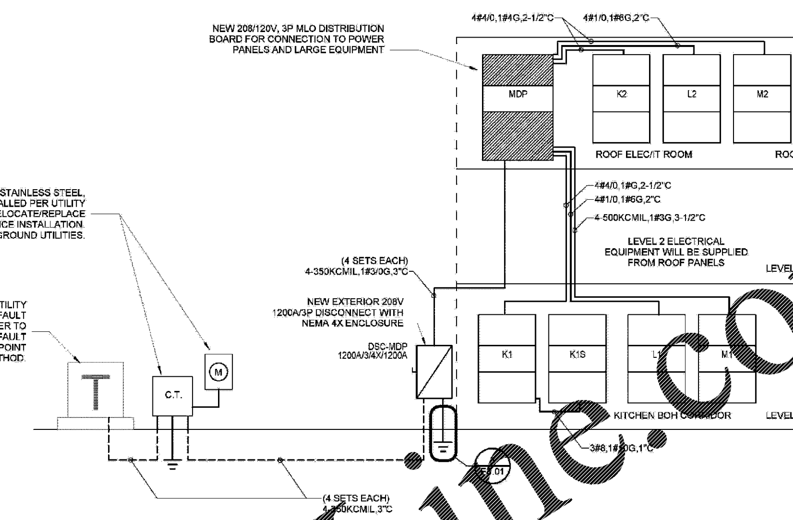
NEC LOAD ANALYSIS FOR POWER DISTRIBUTION PANEL 'MPD'				
LOAD TYPE	DEMAND FACTOR	CONNECTED LOAD (VA)	DEMAND LOAD (VA)	NEC CODE
COOLING	100%	175,164	175,164	220.14
LIGHTING 8,484 SF@2VA	125%	16,968	21,210	220.12
MOTOR	100%	7,296	7,296	221.14
25% OF LARGEST MOTOR	25%	3,960	990	220.14
RECEPTACLE	NEC 220.44	16,200	13,100	220.44
KTICHEN LOAD	65%	200,319	130,207	220.56
OTHER	100%	46,807	46,807	220.14
	TOTALS:	466,714	394,774	
	AMPERAGE @208V:	1296	1097	



1 RISER DIAGRAM - ELECTRICAL
E9.01 N.T.S.

LUTRON CONTROLLER LC1.1		
DIMMING ZONE	ZONE DESCRIPTION	TOTAL LOAD
1	GENERAL G1E DOWNLIGHTS	96 VA
2	IF-301 ENTRY SURFACE MOUNT FIXTURES	120 VA
3	K1 TRACK WALL ACCENTS	240 VA
4	H1 UNDER BAR ACCENT LIGHTING	21 VA
5	IF-304 PRIVATE DINING PENDANTS	130 VA
6	K1 PRIVATE DINING TRACK ACCENTS	120 VA

LUTRON CONTROLLER LC1.2		
DIMMING ZONE	ZONE DESCRIPTION	TOTAL LOAD
1	F1 CEILING FAN MOTOR CONTROL CIRCUIT ONLY	0 VA
2	F1 CEILING FAN LIGHT CONTROL CIRCUIT ONLY	0 VA
3	IF-303 EXTERIOR WALL SCONCES	240 VA
4	IF-300 INTERIOR WALL SCONCES	400 VA
5	IF-305 DINING PENDANTS	60 VA
6	IF-302 BAR PENDANTS	51 VA

LUTRON CONTROLLER LC1.3		
DIMMING ZONE	ZONE DESCRIPTION	TOTAL LOAD
1	H4 GRAND STAIR COVE ACCENTS	402 VA
2	G3 GRAND STAIR DOWNLIGHT ART ACCENTS	336 VA
3	H3 BAR SHELVING ACCENTS	61 VA
4	SPARE	0 VA

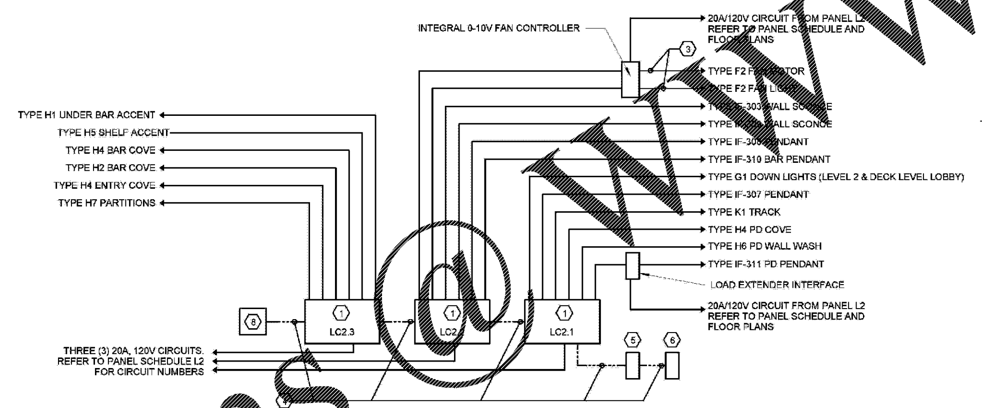
LUTRON CONTROLLER LC2.1		
DIMMING ZONE	ZONE DESCRIPTION	TOTAL LOAD
1	G1E GENERAL DOWNLIGHTS LELVEL 02 & DECK LEVEL	224 VA
2	IF-307 ENTRY PENDANT	120 VA
3	K1 TRACK WALL ACCENTS	120 VA
4	H4 PRIVATE DINING COVE LIGHTING	391 VA
5	H6 PRVIATE DINING RECESSED WALL WASHER	52 VA
6	IF-311 PRIVATE DINING PENDANT CONTROL ONLY	0 VA

LUTRON CONTROLLER LC2.2		
DIMMING ZONE	ZONE DESCRIPTION	TOTAL LOAD
1	F2 CEILING FAN MOTOR CONTROL CIRCUIT ONLY	0 VA
2	F2 CEILING FAN LIGHT CONTROL CIRCUIT ONLY	0 VA
3	IF-303 EXTERIOR WALL SCONCES	200 VA
4	IF-309 INTERIOR WALL SCONCES	300 VA
5	IF-308 GENERAL DINING PENDANTS	960 VA
6	IF-310 BAR PENDANT LIGHTS	135 VA

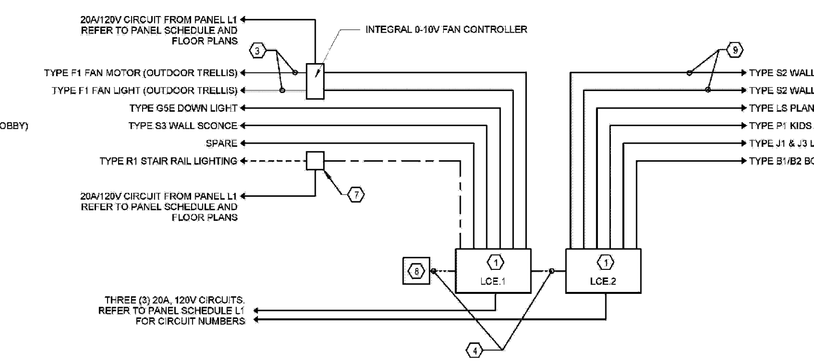
LUTRON CONTROLLER LC2.3		
DIMMING ZONE	ZONE DESCRIPTION	TOTAL LOAD
1	H1 UNDER BAR ACCENT LIGHTING	89 VA
2	H5 BAR SHELVING ACCENT LIGHTING	196 VA
3	H4 BAR COVE LIGHTING	320 VA
4	H2 BAR COVE LIGHTING	55 VA
5	H4 ENTRY COVE LIGHTING	246 VA
6	H7 VERTICAL PARTITION ACCENT LIGHTING	69 VA

LUTRON CONTROLLER LCE.1		
DIMMING ZONE	ZONE DESCRIPTION	TOTAL LOAD
1	F1 TRELLIS CEILING FAN MOTOR CONTROL CIRCUIT ONLY	0 VA
2	F1 TRELLIS CEILING FAN LIGHT CONTROL CIRCUIT ONLY	0 VA
3	G5E NORTH CANOPY DOWNLIGHTS	55 VA
4	S3 EXTERIOR ENTRY WALL SCONCES	[illegible]
5	SPARE	[illegible]
6	R1 STAIR RAIL CONTROL CIRCUIT ONLY	0 VA

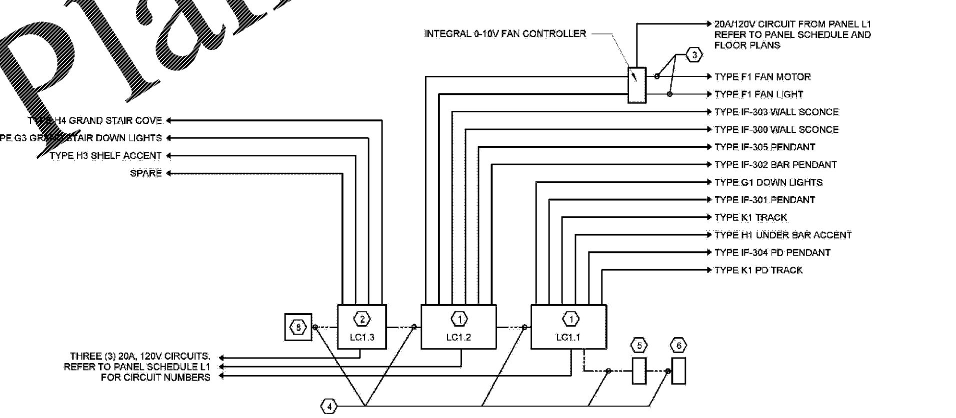
LUTRON CONTROLLER LCE.2		
DIMMING ZONE	ZONE DESCRIPTION	TOTAL LOAD
1	S2 GOOSE NECK EXTERIOR SCONCES (3000K)	128 VA
2	S2 GOOSE NECK EXTERIOR SCONCES (AMBER) NON-SIMLTANEOUS	0 VA
3	LS EXTERIOR PLANTER ACCENTS	160 VA
4	P1 KIDS AREA POLE LAMPS	48 VA
5	J1 & J3 LOADING DOCK WALL PACKS	96 VA
6	B1 & B2 BOLLARD LIGHTING	216 VA



LEVEL 02 - LIGHTING



EXTERIOR/SITE - LIGHTING



LEVEL 01 - LIGHTING

LIGHTING CONTROL NOTES & LEGEND

1 LUTRON GRAFIX EYE #GRX-3106 STATION. COORDINATE FINAL LOCATIONS AND FINISHES WITH ARCHITECT AND INTERIORS.
2 LUTRON GRAFIX EYE #GRX-3104 STATION. COORDINATE FINAL LOCATIONS AND FINISHES WITH ARCHITECT AND INTERIORS.
3 INTERNAL FAN WIRING. COORDINATE WITH APPROVED EQUIPMENT MANUFACTURER FOR FINAL ELECTRICAL REQUIREMENTS.
4 LUTRON CONTROL WIRE INTERFACE. COORDINATE FINAL REQUIREMENTS WITH LIGHTING CONTROL SHOP DRAWINGS.
5 PROVIDE 4-SCENE PUSHBUTTON CONTROLLER WITH RAISE/LOWER AT HOSTESS STATION. FINAL LOCATION TO BE DETERMINED BY ARCHITECT AND INTERIORS.
6 PROVIDE 2-SCENE PUSHBUTTON CONTROLLER WITH RAISE/LOWER AT PRIVATE DINING. FINAL LOCATION TO BE DETERMINED BY ARCHITECT AND INTERIORS.
7 LOW VOLTAGE TRANSFORMER. COORDINATE QUANTITIES AND LOCATION OF ALL REQUIRED LOWVOLTAGE TRANSFORMERS WITH LANDSCAPE PRIOR TO ROUGH-IN.
8 PROVIDE TIME CLOCK INTERFACE MODULE FOR PROGRAMMABLE AUTOMATIC CONTROL OF ALL CONNECTED LIGHTING LOADS. FINAL TIME SCHEDULE TO BE PROVIDED BY OWNER/ARCHITECT.
9 TWO (2) CIRCUIT LIGHTING FIXTURE CAPABLE OF 3000K AND AMBER ONLY OPERATION. LIGHTING CONTROL SYSTEM SHALL ALLOW ONLY ONE (1) FUNCTION TO OPERATE AT A TIME.

0-10V CONTROL WIRING
120V LINE VOLTAGE
LUTRON CONTROL WIRING
LOW VOLTAGE WIRING 12/24V

2 CONTROL RISER DIAGRAMS - LIGHTING
E9.01 N.T.S.

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HKS

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Benjamin Kowalczyk, State of Florida, Professional Engineer, License No. 77831

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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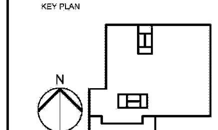
KEY PLAN



REVISION NO.	DESCRIPTION	DATE

HKS PROJECT NUMBER
22808.001
DATE
05/22/2020
ISSUE
PERMIT SET
SHEET TITLE
RISER DIAGRAMS - ELECTRICAL
SHEET NO.
E9.01

Thompson Ehle Company
www.teceng.org
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TEC Project #219018

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