

PANEL DP1											
CONDUIT SIZE		WIRE SIZE		SERVING		KVA AD		KVA BD		KVA CD	
3/4"	2#10	COURTROOM A	0.54	0.54	1P-20	1	1	1	1	1	1
I	I	COURTROOM B	0.54	0.54	I	2	2	2	2	2	2
I	I	COURTROOM C	0.54	0.54	I	3	3	3	3	3	3
I	I	COURTROOM D	0.40	0.40	I	4	4	4	4	4	4
I	I	COURTROOM A	0.40	0.40	I	5	5	5	5	5	5
I	I	COURTROOM B	0.40	0.40	I	6	6	6	6	6	6
I	I	COURTROOM C	0.40	0.40	I	7	7	7	7	7	7
I	I	COURTROOM D	0.40	0.40	I	8	8	8	8	8	8
V	V	STAIR 1	3.06	3.06	V	9	9	9	9	9	9

CONTINUOUS LOADS (C)	CONNECTED KVA	NEC DEMAND FACTOR	DEMAND (kVA)	FED FROM:	AD = 1.5 kVA	BD = 1.3 kVA	CD = 4 kVA
	6.82	125%	8.52	H2LWA			
	TOTAL CONNECTED = 7 kVA						
	TOTAL DEMAND = 4 kVA						

-THE LOAD DESCRIPTION IN THE PANEL DIRECTORY CARD FOR EACH CIRCUIT SHALL HAVE DETAIL TO ALLOW EACH CIRCUIT TO BE DISTINGUISHABLE FROM ALL OTHERS.
 -THE PANEL SHALL BE MARKED TO INDICATE THE DEVICE OR EQUIPMENT WHERE THE POWER SUPPLY ORIGINATES.
 -THE PANEL SHALL BE LEGIBLY MARKED WITH THE MAXIMUM AVAILABLE FAULT CURRENT, INCLUDING THE DATE THE CALCULATION WAS PERFORMED.

PANEL DP2											
CONDUIT SIZE		WIRE SIZE		SERVING		KVA AD		KVA BD		KVA CD	
3/4"	2#10	CRTRM A COVE	1.35	1.35	1P-20	1	1	1	1	1	1
I	I	CRTRM B COVE	1.35	1.35	I	2	2	2	2	2	2
I	I	CRTRM C COVE	1.38	1.38	I	3	3	3	3	3	3
I	I	CRTRM D COVE	1.57	1.57	I	4	4	4	4	4	4
I	I	CRTRM A ENTRY	0.03	0.03	I	5	5	5	5	5	5
I	I	CRTRM B ENTRY	0.03	0.03	I	6	6	6	6	6	6
I	I	CRTRM C ENTRY	0.03	0.03	I	7	7	7	7	7	7
I	I	CRTRM D ENTRY	0.03	0.03	I	8	8	8	8	8	8
V	V	1ST WINDOW LTS	0.33	0.33	V	9	9	9	9	9	9

CONTINUOUS LOADS (C)	CONNECTED KVA	NEC DEMAND FACTOR	DEMAND (kVA)	FED FROM:	AD = 2.9 kVA	BD = 1.4 kVA	CD = 1.3 kVA
	6.10	125%	7.62	H2LWA			
	TOTAL CONNECTED = 6 kVA						
	TOTAL DEMAND = 8 kVA						

-THE LOAD DESCRIPTION IN THE PANEL DIRECTORY CARD FOR EACH CIRCUIT SHALL HAVE DETAIL TO ALLOW EACH CIRCUIT TO BE DISTINGUISHABLE FROM ALL OTHERS.
 -THE PANEL SHALL BE MARKED TO INDICATE THE DEVICE OR EQUIPMENT WHERE THE POWER SUPPLY ORIGINATES.
 -THE PANEL SHALL BE LEGIBLY MARKED WITH THE MAXIMUM AVAILABLE FAULT CURRENT, INCLUDING THE DATE THE CALCULATION WAS PERFORMED.

PANEL DP3											
CONDUIT SIZE		WIRE SIZE		SERVING		KVA AD		KVA BD		KVA CD	
3/4"	2#10	GALLERIA COVE	2.23	2.23	1P-20	1	1	1	1	1	1
I	I	GALLERIA COVE	4.33	4.33	I	2	2	2	2	2	2
I	I	GALLERIA DL	0.48	0.48	I	3	3	3	3	3	3
I	I	2ND FLR ELEV LBY	0.22	0.22	I	4	4	4	4	4	4
I	I	LOBBY COVE	1.14	1.14	I	5	5	5	5	5	5
I	I	LOBBY LIGHTS	2.78	2.78	I	6	6	6	6	6	6
I	I	1ST PUB LOBBY	0.58	0.58	I	7	7	7	7	7	7
I	I	SPARE	0.26	0.26	I	8	8	8	8	8	8
V	V	SPARE	2.30	2.30	V	9	9	9	9	9	9

CONTINUOUS LOADS (C)	CONNECTED KVA	NEC DEMAND FACTOR	DEMAND (kVA)	FED FROM:	AD = 3 kVA	BD = 5.7 kVA	CD = 5.6 kVA
	14.31	125%	17.89	H2LWA			
	TOTAL CONNECTED = 14 kVA						
	TOTAL DEMAND = 8 kVA						

-THE LOAD DESCRIPTION IN THE PANEL DIRECTORY CARD FOR EACH CIRCUIT SHALL HAVE DETAIL TO ALLOW EACH CIRCUIT TO BE DISTINGUISHABLE FROM ALL OTHERS.
 -THE PANEL SHALL BE MARKED TO INDICATE THE DEVICE OR EQUIPMENT WHERE THE POWER SUPPLY ORIGINATES.
 -THE PANEL SHALL BE LEGIBLY MARKED WITH THE MAXIMUM AVAILABLE FAULT CURRENT, INCLUDING THE DATE THE CALCULATION WAS PERFORMED.

PANEL EDP1											
CONDUIT SIZE		WIRE SIZE		SERVING		KVA AD		KVA BD		KVA CD	
3/4"	2#10	COURTROOM A	0.17	0.17	1P-20	1	1	1	1	1	1
I	I	COURTROOM B	0.35	0.35	I	2	2	2	2	2	2
I	I	COURTROOM C	0.35	0.35	I	3	3	3	3	3	3
I	I	COURTROOM D	0.35	0.35	I	4	4	4	4	4	4
I	I	GALLERIA	1.04	1.04	I	5	5	5	5	5	5
I	I	LOBBY	1.00	1.00	I	6	6	6	6	6	6
V	V	SPARE	1.00	1.00	I	7	7	7	7	7	7
V	V	SPARE	1.00	1.00	I	8	8	8	8	8	8
V	V	SPARE	1.00	1.00	I	9	9	9	9	9	9

CONTINUOUS LOADS (C)	CONNECTED KVA	NEC DEMAND FACTOR	DEMAND (kVA)	FED FROM:	AD = 0.5 kVA	BD = 1.4 kVA	CD = 1.3 kVA
	3.25	125%	4.06	HE2			
	TOTAL CONNECTED = 3 kVA						
	TOTAL DEMAND = 4 kVA						

-THE LOAD DESCRIPTION IN THE PANEL DIRECTORY CARD FOR EACH CIRCUIT SHALL HAVE DETAIL TO ALLOW EACH CIRCUIT TO BE DISTINGUISHABLE FROM ALL OTHERS.
 -THE PANEL SHALL BE MARKED TO INDICATE THE DEVICE OR EQUIPMENT WHERE THE POWER SUPPLY ORIGINATES.
 -THE PANEL SHALL BE LEGIBLY MARKED WITH THE MAXIMUM AVAILABLE FAULT CURRENT, INCLUDING THE DATE THE CALCULATION WAS PERFORMED.



03 - FRONT OF HOUSE LIGHTING FIXTURE SCHEDULE											
SYMBOL	MARK	MANUFACTURER	CATALOG NUMBER	MOUNTING	NO.	LAMPS (WATTS)	TYPE	VOLTS	REMARKS		
□	A	LOCAL POINT	FR-22-FL-3000-30K-1C-UNV-LN1-03M	RECESSED	1	33	LED 3000K	120/277	FIXTURE SHALL HAVE 0-10V DIMMING CAPABILITIES.		
□	AE	PERLESS	FR-22-FL-3000-30K-1C-UNV-LN1-03M	RECESSED	1	33	LED 3000K	120/277	FIXTURE SHALL HAVE 0-10V DIMMING CAPABILITIES. INCLUDE BATTERY PACK. PROVIDE UNSWITCHED HOT FOR POWER LOSS SENSE WHEN FIXTURES ARE SWITCHED.		
□	B	LOCAL POINT	FR-22-FL-3000-30K-1C-UNV-LN1-03M	RECESSED	1	50	LED 3000K	277			
□	C	LOCAL POINT	FR-22-FL-3000-30K-1C-UNV-LN1-03M	SUSPENDED	LF	26.8/1F	LED 3000K	277	PROVIDE LENGTHS AS INDICATED ON THE FLOORPLANS. PROVIDE HUNG HOT FOR POWER LOSS SENSE WHEN FIXTURES ARE SWITCHED.		
□	D	FINELITE	FR-22-FL-3000-30K-1C-UNV-LN1-03M	SUSPENDED	LF	6.8/1F	LED 3000K	277	PROVIDE LENGTHS AS INDICATED ON THE FLOORPLANS.		
□	E	FINELITE	FR-22-FL-3000-30K-1C-UNV-LN1-03M	SUSPENDED	LF	7.3/1F	LED 3000K	277	PROVIDE LENGTHS AS INDICATED ON THE FLOORPLANS.		
□	F	FINELITE	FR-22-FL-3000-30K-1C-UNV-LN1-03M	SUSPENDED	LF	7.3/1F	LED 3000K	277	PROVIDE LENGTHS AS INDICATED ON THE FLOORPLANS. PROVIDE BOOMIE LOW PROFILE BACKUP BATTERY.		
□	G	FINELITE	FR-22-FL-3000-30K-1C-UNV-LN1-03M	SUSPENDED	LF	7.3/1F	LED 3000K	277	PROVIDE LENGTHS AS INDICATED ON THE FLOORPLANS.		
□	H	FINELITE	FR-22-FL-3000-30K-1C-UNV-LN1-03M	SUSPENDED	LF	7.3/1F	LED 3000K	277	PROVIDE LENGTHS AS INDICATED ON THE FLOORPLANS.		
□	I	FINELITE	FR-22-FL-3000-30K-1C-UNV-LN1-03M	SUSPENDED	LF	7.3/1F	LED 3000K	277	PROVIDE LENGTHS AS INDICATED ON THE FLOORPLANS.		
□	J	FINELITE	FR-22-FL-3000-30K-1C-UNV-LN1-03M	SUSPENDED	LF	7.3/1F	LED 3000K	277	PROVIDE LENGTHS AS INDICATED ON THE FLOORPLANS.		
□	K	FINELITE	FR-22-FL-3000-30K-1C-UNV-LN1-03M	SUSPENDED	LF	7.3/1F	LED 3000K	277	PROVIDE LENGTHS AS INDICATED ON THE FLOORPLANS.		
□	L	FINELITE	FR-22-FL-3000-30K-1C-UNV-LN1-03M	SUSPENDED	LF	7.3/1F	LED 3000K	277	PROVIDE LENGTHS AS INDICATED ON THE FLOORPLANS.		
□	M	FINELITE	FR-22-FL-3000-30K-1C-UNV-LN1-03M	SUSPENDED	LF	7.3/1F	LED 3000K	277	PROVIDE LENGTHS AS INDICATED ON THE FLOORPLANS.		
□	N	FINELITE	FR-22-FL-3000-30K-1C-UNV-LN1-03M	SUSPENDED	LF	7.3/1F	LED 3000K	277	PROVIDE LENGTHS AS INDICATED ON THE FLOORPLANS.		
□	O	FINELITE	FR-22-FL-3000-30K-1C-UNV-LN1-03M	SUSPENDED	LF	7.3/1F	LED 3000K	277	PROVIDE LENGTHS AS INDICATED ON THE FLOORPLANS.		
□	P	FINELITE	FR-22-FL-3000-30K-1C-UNV-LN1-03M	SUSPENDED	LF	7.3/1F	LED 3000K	277	PROVIDE LENGTHS AS INDICATED ON THE FLOORPLANS.		
□	Q	FINELITE	FR-22-FL-3000-30K-1C-UNV-LN1-03M	SUSPENDED	LF	7.3/1F	LED 3000K	277	PROVIDE LENGTHS AS INDICATED ON THE FLOORPLANS.		
□	R	FINELITE	FR-22-FL-3000-30K-1C-UNV-LN1-03M	SUSPENDED	LF	7.3/1F	LED 3000K	277	PROVIDE LENGTHS AS INDICATED ON THE FLOORPLANS.		
□	S	FINELITE	FR-22-FL-3000-30K-1C-UNV-LN1-03M	SUSPENDED	LF	7.3/1F	LED 3000K	277	PROVIDE LENGTHS AS INDICATED ON THE FLOORPLANS.		
□	T	FINELITE	FR-22-FL-3000-30K-1C-UNV-LN1-03M	SUSPENDED	LF	7.3/1F	LED 3000K	277	PROVIDE LENGTHS AS INDICATED ON THE FLOORPLANS.		

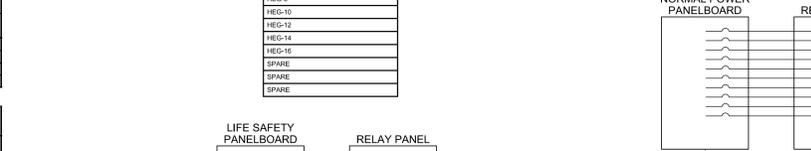
-THE LOAD DESCRIPTION IN THE PANEL DIRECTORY CARD FOR EACH CIRCUIT SHALL HAVE DETAIL TO ALLOW EACH CIRCUIT TO BE DISTINGUISHABLE FROM ALL OTHERS.
 -THE PANEL SHALL BE MARKED TO INDICATE THE DEVICE OR EQUIPMENT WHERE THE POWER SUPPLY ORIGINATES.
 -THE PANEL SHALL BE LEGIBLY MARKED WITH THE MAXIMUM AVAILABLE FAULT CURRENT, INCLUDING THE DATE THE CALCULATION WAS PERFORMED.

CONTINUOUS LOADS (C)	CONNECTED KVA	NEC DEMAND FACTOR	DEMAND (kVA)	FED FROM:	AD = 3.6 kVA	BD = 5.7 kVA	CD = 5.6 kVA
	14.31	125%	17.89	H2LWA			
	TOTAL CONNECTED = 14 kVA						
	TOTAL DEMAND = 8 kVA						

-THE LOAD DESCRIPTION IN THE PANEL DIRECTORY CARD FOR EACH CIRCUIT SHALL HAVE DETAIL TO ALLOW EACH CIRCUIT TO BE DISTINGUISHABLE FROM ALL OTHERS.
 -THE PANEL SHALL BE MARKED TO INDICATE THE DEVICE OR EQUIPMENT WHERE THE POWER SUPPLY ORIGINATES.
 -THE PANEL SHALL BE LEGIBLY MARKED WITH THE MAXIMUM AVAILABLE FAULT CURRENT, INCLUDING THE DATE THE CALCULATION WAS PERFORMED.

04 - CEILING MOUNTED OCCUPANCY SENSOR CONTROLS											
SYMBOL	MARK	MANUFACTURER	CATALOG NUMBER	MOUNTING	NO.	LAMPS (WATTS)	TYPE	VOLTS	REMARKS		
○	E1	PRIMA ARCHITECTURAL	07408	GROUND	1	12	LED	120/277			
○	F3	ELA	JST-180-PT-16-7LBS-27-DRG-MNF-FS	POLE	1	75	LED	277	REFER TO THE CIVIL PLANS FOR ADDITIONAL INFORMATION.		
○	E93	FLAGPOLE WAREHOUSE	0800-750020	FLAGPOLE	2	3	LED	277	PROVIDE 277V TRANSFORMER. LOCATE IN AN ACCESSIBLE LOCATION.		
○	E91	PRIMA ARCHITECTURAL	07007	SURFACE	1	36	LED	120/277			
○	E92	EATON	GW-4F-20-LED-1-14FT-DM-730	SURFACE	1	85	LED	120/277			
○	E93	PRIMA ARCHITECTURAL	07408	RECESSED	1	11	LED	120/277			
○	E95	PRIMA ARCHITECTURAL	07008	SURFACE	1	14.4	LED	120/277			
○	OD1	PATHWAY	EV-00-13-3K-E2	RECESSED	1	43	LED	277			
○	RF1	LUXAR	616.555.1PAC-NR-263K-HPH-2	RAIL	LF	3.4/1F	LED	277			

-THE LOAD DESCRIPTION IN THE PANEL DIRECTORY CARD FOR EACH CIRCUIT SHALL HAVE DETAIL TO ALLOW EACH CIRCUIT TO BE DISTINGUISHABLE FROM ALL OTHERS.
 -THE PANEL SHALL BE MARKED TO INDICATE THE DEVICE OR EQUIPMENT WHERE THE POWER SUPPLY ORIGINATES.
 -THE PANEL SHALL BE LEGIBLY MARKED WITH THE MAXIMUM AVAILABLE FAULT CURRENT, INCLUDING THE DATE THE CALCULATION WAS PERFORMED.



DETAIL NOTES (CONTINUED):
 10. THE LIGHTING CONTROL PANELS FOR THE EXTERIOR LIGHTING SHALL HAVE AN OVERRIDE LOCATED AT THE 1ST FLOOR OBSERVATION POST. COORDINATE EXACT LOCATION WITH THE ARCHITECT.
 11. PROVIDE AN ASTRONOMIC CLOCK AND PHOTOCELL (PHOTOCELL SIMILAR TO HI0 PK KIT) FOR CONTROL OF THE EXTERIOR LIGHTING. THE CONTRACTOR SHALL COORDINATE ON/OFF SETTINGS WITH THE TENANT. PHOTOCELL SHALL BE LOCATED IN A LOCATION FULLY EXPOSED TO DAYLIGHT AT ALL HOURS OF THE DAY AND ALL SEASON, AND AS APPROVED BY THE ARCHITECT.
 12. PROVIDE SCENE SELECTORS SIMILAR TO FCS-775N-DWH. TYPICAL OF 7. CONFIRM COLOR WITH THE ARCHITECT. EACH SCENE SELECTOR SHALL BE POWERED BY A POWER PACK SIMILAR TO FCS P510.
 13. PROVIDE AN AV INTERFACE DEVICE SIMILAR TO HI0 X KIT WITH RS-232 AND RS-485 OUTPUTS TO INTERFACE WITH THE ANY SPECIFIED AV SYSTEM.
 14. OCCUPANCY SENSORS SHALL BE TIED TO THE DIMMING CONTROL SYSTEM IN EACH OF THE SEVEN SEPARATE AREAS (FOUR COURTRROOMS, MAIN LOBBY, PUBLIC LOBBY, AND GALLERIA). OCCUPANCY SENSORS SHALL BE DESIGNATED WITH UPPERCASE LETTERS TO INDICATE THEIR ASSOCIATED ZONE A: COURTROOM A, B: COURTROOM B, C: COURTROOM C, D: COURTROOM D, E: GALLERIA, F: MAIN LOBBY, AND G: PUBLIC LOBBY.
 15. OCCUPANCY SENSORS LOCATED IN THE COURTRROOMS SHALL BE MOUNTED AT 18" ABOVE THE FINISHED FLOOR; THE SENSORS SHALL BE "HIGH MOUNTING" TYPE AND CAPABLE OF PROVIDING FULL COVERAGE OF EACH COURTRROOM. THE CONTRACTOR SHALL COORDINATE THE EXACT QUANTITY OF DEVICES REQUIRED PER COURTRROOM FOR FULL INTENDED COVERAGE REGARDLESS OF THE QUANTITY INDICATED ON THE PLANS.
 16. OCCUPANCY SENSORS LOCATED IN THE MAIN LOBBY SHALL BE MOUNTED AT 28" ABOVE THE FINISHED FLOOR; THE SENSORS SHALL BE "HIGH MOUNTING" TYPE AND CAPABLE OF PROVIDING FULL COVERAGE OF THE MAIN LOBBY. THE CONTRACTOR SHALL COORDINATE THE EXACT QUANTITY OF DEVICES REQUIRED FOR FULL INTENDED COVERAGE REGARDLESS OF THE QUANTITY INDICATED ON THE PLANS.
 17. THE CONTRACTOR SHALL PROVIDE ON/OFF PROGRAMMING OF THE TIME/LOGIC CONTROLLED ZONES MEETING THE NEEDS OF THE OWNER/TENANT, HOWEVER THE HOURS SHALL ADHERE TO THE REQUIREMENTS OF LEED S58 (OFF BETWEEN 11 PM THRU 5 AM, UNLESS OVERRIDDEN) FOR ANY ZONES THAT ARE ADJACENT TO FENESTRATION.

DETAIL NOTES:
 1. EMERGENCY PANELBOARD. REFER TO PANEL SCHEDULES FOR CIRCUIT INFORMATION.
 2. DIMMING PANELS AND AV INTERFACE SHALL BE LOCATED IN ELECTRICAL ROOM 2110 UNLESS OTHERWISE NOTED.
 3. LIGHTING RELAY PANEL #1. SIMILAR TO ACUTY ARP INTENC16-NLT-16FCR-MVOLT-SM WITH 16 RELAYS.
 4. LIGHTING RELAY PANEL #2. SIMILAR TO ACUTY ARP INTENC08-NLT-8FCR-MVOLT-SM WITH 8 RELAYS.
 5. NORMAL POWER PANELBOARD. REFER TO PANEL SCHEDULES FOR CIRCUIT INFORMATION.
 6. PROVIDE CONTROLS CONNECTION TO THE BUILDING SCHEDULES FROM EACH LIGHTING RELAY PANEL.
 7. EMERGENCY PANELBOARD. REFER TO PANEL SCHEDULES FOR CIRCUIT INFORMATION; 3 PHASE, 4 WIRE CONNECTION TO DIMMING PANELBOARD.
 8. DIMMING PANELBOARD SIMILAR TO ACUTY/FRESCO LMP-L-EM-MODULES AS REQUIRED; MVOLT-4ML-20A. THE CONTRACTOR SHALL WORK WITH THE SUBMITTED LIGHTING PACKAGE AND PROVIDE DIMMING MODULES THAT PROPERLY CONTROL THE LIGHTING LOAD TYPE FOR EACH ZONE. SPARE MODULES SHALL BE TYPE "L" (0-10V). PROVIDE WITH LME 924 UL 924 LISTED PHASE SENSING DEVICE; INSTALL PER MANUFACTURER'S RECOMMENDATION. LOSS OF POWER WILL TRIGGER ALL LIGHTS CONNECTED TO THE PANELS TO GO "FULL ON." PROVIDE THREE PHASE AND NEUTRAL CONNECTION FROM NORMAL POWER PANEL TO ALLOW FOR LOSS OF POWER NOTIFICATION.
 9. DIMMING PANELBOARD SIMILAR TO ACUTY/FRESCO LMP-L-EM-MODULES AS REQUIRED; MVOLT-4ML-20A. THE CONTRACTOR SHALL WORK WITH THE SUBMITTED LIGHTING PACKAGE AND PROVIDE DIMMING MODULES THAT PROPERLY CONTROL THE LIGHTING LOAD TYPE FOR EACH ZONE. SPARE MODULES SHALL BE TYPE "L" (0-10V).

05 - LIGHTING RELAY & DIMMING PANELS

01 - BACK OF HOUSE LIGHTING FIXTURE SCHEDULE											
SYMBOL	MARK	DESCRIPTION	MANUFACTURER	CATALOG NUMBER	MOUNTING	NO.	LAMPS (WATTS)	TYPE	VOLTS	REMARKS	
□	BA	LED STRIP	L								