EXISTING CONTIDITONS NOTES

STOP AND READ

THE CONTRACTOR AND SUB-CONTRACTORS **SHALL NOT INITIATE ANY WORK UNTIL EXISTING FIELD CONDITIONS ARE PROPERLY VERIFIED.** THIS SHALL HOLD TRUE FOR FIRST GENERATION AND 2ND GENERATION SPACES. WHEN DEMOLITION IS REQUIRED, THAT WILL BE PERMITTED TO EXPOSE CONDITIONS. THESE VERIFICATIONS SHALL INCLUDE BUT NOT LIMITED TO: DIMENSIONS BOTH HORIZONTALLY AND VERTICAL, ELECTRICAL SERVICE /PANELS LOCATION AND VOLTS/PHASE, LOCATION/QTY OF ROOF MOUNTED HVAC EQUIPMENT, CONFIRM THAT INTERIOR HVAC HUNG UNITS HAVE PROPER SUPPORT CONNECTIONS FOR EXISTING STRUCTURE, FIRE SPRINKLER MAIN RUNS, TOILET ROOM DIMENSIONS, DOOR SWING FOR DOORS TO REMAIN AND ETC. IF NOT VERIFIED AND DISCOVERED AT A LATER TIME, THE CONTRACTOR SHALL REIMBURSE THE ARCHITECT FOR THE REDESIGN FEE. THIS DOES NOT INCLUDE HIDDEN WORK I.E. PITCH OF SANITARY LINES, ACTUAL CONDITIONS OF EXISTING HVAC EQUIPMENT, STRUCTURAL COLUMNS/BEARING WALLS OR CONDITIONS OF GREASE INTERCEPTORS AND ETC.

SCOPE OF WORK

MAKE ARRANGEMENT FOR NEW SERVICE OF 400 AMP 277/480V - 3ϕ SERVICE, PROVIDE 2 NEW ELECTRICAL PANELS OF 600AMPS, 120/208V AND 200 AMPS, 120/208V. PROVIDE ALL NECESSARY EQUIPMENT AND ALL WIRING AND LIGHTING FOR NEW SPA INCLUDING WIRING FOR NEW HVAC EQUIPMENT. COORDINATE WITH G.C. FOR LOW VOLTAGE WIRING

ELECTRICAL PLAN NOTES

1. ELECTRICAL CONTRACTOR SHALL REVIEW ALL DRAWINGS OF THIS SET.
2. CONTRACTOR TO VERIFY THAT ALL EQUIPMENT SHOWN AS EXISTING MATCHES THE DESCRIPTIONS AND SPECIFICATIONS SHOWN ON DRAWINGS AND SCHEDULES. IF DIFFERENT, NOTIFY ARCHITECT/ENGINEER BEFORE BIDDING, ORDERING, OR PROCEEDING WITH WORK.
3. ELECTRICAL CONTRACTOR SHALL SUPPLY AND INSTALL ALL NEW ELECTRICAL WORK INDICATED. CONSTRUCTION SHALL BE IN ACCORDANCE WITH DRAWINGS AND APPLICABLE SPECIFICATIONS. IF A PROBLEM IS ENCOUNTERED IN COMPLYING WITH THIS REQUIREMENT, CONTRACTOR SHALL NOTIFY THE OWNER OR HIS REPRESENTATIVE AS SOON AS POSSIBLE AFTER DISCOVERY OF THE PROBLEM AND SHALL NOT PROCEED WITH THAT PORTION OF THE WORK UNTIL OWNER HAS DIRECTED CORRECTIVE ACTION TO BE TAKEN.
4. ELECTRICAL CONTRACTOR SHALL VISIT JOB SITE AND FAMILIARIZE HIMSELF WITH ALL CONDITIONS AFFECTING ELECTRICAL AND COMMUNICATIONS INSTALLATION AND MAKE PROVISIONS AS TO THE COST THEREOF. EXISTING CONDITIONS OF ELECTRICAL EQUIPMENT, LIGHT FIXTURES, ETC... THAT ARE PART OF THE FINAL SYSTEM SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO SUBMITTING HIS BID.
5. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE 2020 EDITION OF THE NATIONAL ELECTRIC CODE AND ALL CODES AND ORDINANCES OF THE AUTHORITY HAVING JURISDICTION.
6. DO NOT SCALE THE ELECTRICAL DRAWINGS. REFER TO ARCHITECTURAL PLANS AND ELEVATIONS FOR EXACT LOCATION FOR ALL EQUIPMENT. CONFIRM WITH OWNER'S REPRESENTATIVE.
7. ALL ELECTRICAL NOT BEING REUSED MUST BE REMOVED IN ITS ENTIRETY.
8. ALL CONDUIT IN OR UNDERGROUND OR IN CONCRETE MUST BE RIGID GALVANIZED STEEL.
9. CIRCUIT BREAKERS AND PANELS TO BE BOLT ON TYPE
10. ALL EQUIPMENT SHALL BE APPROVED BY UL OR OTHER NATIONALLY RECOGNIZED TESTING COMPANY.
11. ALL RECEPTACLES SHALL BE GROUNDED AS REQUIRED BY NEC 250.146
12. SUBMIT SERVICE ENTRANCE EQUIPMENT FOR SEPARATE APPROVAL.
13. ALL LOW VOLTAGE MUST BE IN CONDUIT TO ABOVE THE DROP CEILING. BRIDAL RINGS OR "J" HOOKS REQUIRED.
14. SEPARATE PERMITS ARE REQUIRED FOR ALL LOW VOLTAGE SUCH AS TELEPHONE, DATA, THERMOSTAT, MUSIC, ALARMS ETC.
15. SEPARATE PERMIT REQUIRED FOR SIGNAGE.
16. PRIOR TO ANY CONSTRUCTION WORK BEGINNING AN ON-SITE MEETING WITH GENERAL CONTRACTORS IS REQUIRED.
17. ELECTRICIAN MUST BE ON SITE FOR ALL INSPECTIONS.
18. MINIMUM WIRE SIZE SHALL BE #12 A.W.G. EXCLUDING CONTROL WIRING. ALL CONDUCTORS SHALL BE COPPER AND UNLESS OTHERWISE NOTED THHN INSULATION.
19. OUTLET BOXES SHALL BE PRESSED STEEL IN DRY LOCATIONS, PLASTIC AND CAST ALLOY WITH THREADED HUBS IN WET OR DAMP LOCATIONS, AND SPECIAL ENCLOSURES FOR OTHER CLASSIFIED AREAS.
20. IT IS NOT THE INTENT OF THESE PLANS TO SHOW EVERY MINOR DETAIL OF CONSTRUCTION. THE CONTRACTOR IS EXPECTED TO FURNISH AND INSTALL ALL ITEMS FOR A COMPLETE ELECTRICAL SYSTEM AND PROVIDE ALL REQUIREMENTS NECESSARY FOR EQUIPMENT TO BE PLACED IN PROPER WORKING ORDER.
21. ELECTRICAL SYSTEM SHALL BE COMPLETE AND EFFECTIVELY GROUNDED AS REQUIRED BY THE N.E.C. OR LOCAL CODES.
22. ALL MATERIALS SHALL BE NEW AND BEAR UNDERWRITERS' LABELS WHERE APPLICABLE.
23. ALL WORK SHALL BE PERFORMED BY A LICENSED ELECTRICAL CONTRACTOR IN A FIRST CLASS WORKMANLIKE MANNER. THE COMPLETED SYSTEM SHALL BE FULLY OPERATIVE AND ACCEPTED BY ENGINEER/ARCHITECT.
24. ALL WORK SHALL BE COORDINATED WITH OTHER TRADES TO AVOID INTERFERENCE WITH THE PROGRESS OF CONSTRUCTION.
25. ELECTRICAL CONTRACTOR SHALL GUARANTEE ALL MATERIALS AND WORKMANSHIP FREE FROM DEFECTS FOR A PERIOD OF NOT LESS THAN ONE YEAR FROM DATE THAT CERTIFICATE OF OCCUPANCY IS ISSUED. WARRANTY SHALL BE PROVIDED IN WRITING. PROVIDE COPY TO LL.
26. CORRECTION OF ANY DEFECTS SHALL BE COMPLETED WITHOUT ADDITIONAL CHARGE AND SHALL INCLUDE REPLACEMENT OR REPAIR OF ANY OTHER PHASE OF THE INSTALLATION WHICH MAY HAVE BEEN DAMAGED THEREBY.
27. ALL REQUIRED INSURANCE SHALL BE PROVIDED FOR PROTECTION AGAINST PUBLIC LIABILITY AND PROPERTY DAMAGE FOR THE DURATION OF THE WORK.
28. CONTRACTOR SHALL PAY FOR ALL PERMITS, FEES, INSPECTIONS AND TESTING. CONTRACTOR TO OBTAIN PERMIT AND APPROVED SUBMITTALS PRIOR TO BEGINNING WORK OR ORDERING EQUIPMENT.
29. THE ELECTRICAL INSTALLATION SHALL MEET ALL STANDARD REQUIREMENTS OF POWER AND TELEPHONE COMPANIES.
30. CONTRACTOR SHALL COORDINATE WITH MECHANICAL DRAWINGS AND PROVIDE ALL NECESSARY CONTROL WIRING.
31. ALL CIRCUIT BREAKERS FEEDING MECHANICAL EQUIPMENT SHALL BE HACR TYPE CIRCUIT BREAKERS.
32. PROVIDE AND INSTALL CONDUIT, CONDUCTORS, PULL WIRES, BOXES, COVER PLATES, DEVICES, ETC. FOR ALL OUTLETS AS INDICATED.
33. MATERIALS, PRODUCTS, AND EQUIPMENT, INCLUDING ALL COMPONENTS THEREOF, SHALL BE NEW AND SUCH AS APPEAR ON THE UL LIST OF APPROVED ITEMS AND SHALL MEET OR EXCEED THE REQUIREMENTS OF N.E.C. NEMA, AND IECE.
34. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OR CUT SHEETS OF LIGHTING FIXTURES, SWITCHES, AND OTHER ELECTRICAL ITEMS FOR APPROVAL BY ENGINEER/ARCHITECT.
35. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING, PATCHING AND FIRED CAULKING REQUIRED OF HIS WORK.
36. ELECTRICAL CONTRACTOR SHALL LABEL ALL PANELS W/TYPE WRITTEN DIRECTORIES.
37. ALL ELECTRICAL AND COMMUNICATIONS OUTLETS TO BE AT 24" A.F.F. UNLESS NOTED OTHERWISE, AND VERTICALLY MOUNTED.
38. ALL LIGHT SWITCHES TO BE AT 42" A.F.F.
39. ALL ELECTRICAL WIRING SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR. ALL ELECTRICAL WIRING FOR HVAC SYSTEM INCLUDING CONTROLS, THERMOSTATS, POWER, ETC. SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR.
40. BREAKER AND PANELS – ALL CURRENT CARRYING BUSSES SHALL BE COPPER. ALL GROUND BUS BARS SHALL BE COPPER. PANEL BOARD ENCLOSURES SHALL BE FURNISHED WITHOUT PRE-PUNCHED CONCENTRIC HOLES. A.I.C. RATINGS SHALL BE AS INDICATED ON PANEL BOARD SCHEDULES.
41. DISCONNECT SWITCHES SHALL BE H.P. RATED, GENERAL DUTY, QUICK-MAKE, QUICK-BREAK ENCLOSURES AS REQUIRED BY EXPOSURE.
42. MOTOR STARTERS SHALL BE MANUAL OR MAGNETIC, WITH OVERLOAD RELAYS IN EACH HOT LEG.
43. THE TERM "PROVIDE" USED IN THE CONSTRUCTION DOCUMENTS AND SPECIFICATIONS INDICATES THE CONTRACT SHALL FURNISH AND INSTALL.
44. CONTRACTOR SHALL CONFIRM WITH ANY AND ALL REQUIREMENTS SUCH AS: LUG SIZE RESTRICTIONS, CONDUIT ENTRY, TRANSFORMER SIZE. SCHEDULED DOWN TIME FOR OWNERS CONFIRMATION, ETC. ANY CONFLICTS SHALL BE BROUGHT TO ATTENTION OF THE ENGINEER BEFORE PROCEEDING WITH ANY WORK.
45. VOLTAGE DROP FOR ALL BRANCH CONDUCTORS SHALL NOT EXCEED 3%. WHERE VOLTAGE DROP EXCEEDS 3%, CONTRACTOR SHALL INCREASE SIZE OF CONDUCTORS.
46. CONTRACTOR SHALL PROVIDE GFI TYPE BREAKER FOR ALL EXTERIOR 120V CIRCUITS OR GFI PROTECTION – FOR THE WHOLE CIRCUIT.
47. GAS PIPING SHALL BE BONDED.
48. ELECTRICAL CONTRACTOR SHALL COORDINATE SERVICE ENTRY WITH SERVICE PROVIDER PRIOR TO DETERMINING EXACT LOCATION OF THE METER BOX IN ORDER TO AVOID DISCREPANCIES BETWEEN DRAWINGS AND JOB CONDITIONS.
49. ALL OUTDOOR EQUIPMENT SHALL BE WEATHERPROOF.
50. CONSTRUCTION "AS BUILT" DRAWINGS AND DOCUMENTS SHALL BE PROVIDED TO THE OWNER WITHIN 30 DAYS AFTER THE DATE OF ACCEPTANCE. PROVIDE A COPY TO LL.
51. OPERATION MANUALS AND MAINTENANCE MANUALS SHALL BE PROVIDED TO THE BUILDING OWNER.
52. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING, PATCHING AND FIRE CAULKING REQUIRED OF HIS WORK.
53. ABSOLUTELY NO FLEXIBLE CONDUIT IS PERMITTED IN DEMISING WALLS. FLEXIBLE CONDUIT IS PERMITTED FOR SHORT FINAL CONNECTIONS ONLY (6'-0" OR LESS).
54. EXPOSED CONDUIT SHALL BE INSTALLED IN STRAIGHT LINES, PARALLEL OR IN RIGHT ANGLES TO THE BUIDING STRUCTURE. DO NOT LOOP EXCESS FLEXIBLE CONDUIT IN CEILING SPACE OR WALL CAVITY. NO CONDUIT TO BE SUPPORTED FROM THE ROOF DECK.
55. CABLE TYPES AC AND NM CABLES ARE NOT ACCEPTABLE. TYPE MC CABLE, ELECTRIC METALLIC TUBING (EMT) AND RIGID GALVANIZED CONDUIT ARE PERMITTED.
56. ALL EQUIPMENT, DEVICES AND FIXTURES SHALL BE GROUNDED IN COMPLIANCE WITH NEC AND UL REQUIREMENTS.
57. ALL PANELS TO BE UL LABELED WITH BOLT-ON TYPE CIRCUIT BREAKERS.
58. 7-DAY 24-HOUR TIME CLOCK IS REQUIRED TO CONTROL STOREFRONT ENTRY LIGHTS, SHOW WINDOW LIGHTS, SHOW WINDOW RECEPTACLES AND STOREFRONT SIGNAGE. ILLUMINATED STOREFRONT SIGNS MUST REMAIN LIT DURING ALL MALL BUSINESS HOURS.
59. TENANT IS REQUIRED TO MAKE A FIELD SURVEY OF THE EXISTING ELECTRICAL SERVICE TO ENSURE THAT THE TOTAL CONNECTED LOAD DOES NOT EXCEED THE ELECTRIC SERVICE. ANY/ALL MODIFICATIONS OR UPGRADES NEEDED ARE SUBJECT TO LANDLORD'S PRIOR APPROVAL AND WILL BE COMPLETED BY TENANT/TENANT'S GC AT TENANT'S SOLE EXPENSE.
60. ALL ELECTRICAL PANELS TO BE MOUNTED ON PLYWOOD BACKER BOARD.
61. PANEL PHASE LOADS TO BE BALANCED WITHIN 10%.
62. ELECTRICAL PANELS MAY NOT BE RECESSED IN DEMISING PARTITIONS. SURFACE MOUNT OR FULL FUR OUT WALL TO ACHIEVE FLUSH FINAL APPEARANCE.
63. COORDINATE ALL CONCRETE TRENCHING/CORING TO ENSURE THAT ANY UNDER SLAB UTILITIES, ETC. ARE NOT DAMAGED DURING FLOOR CUT. ANY DAMAGE TO BE REPAIRED AT TENANT'S EXPENSE. PRIOR APPROVAL AND COORDINATION WITH PROPERTY MANAGEMENT IS REQUIRED FOR ALL CONCRETE CUTTING.
64. CONFIRM ELECTRICAL METER REQUIREMENTS WITH MALL OPERATIONS.

ELECTRICAL LEGEND

SYMBOL	DESCRIPTION
	EXHAUST FAN
	COMBINATION EXHAUST FAN/LIGHT (REFER TO MECHANICAL PLANS)
S	SPEAKERS @ CEILING
J	JUNCTION BOX
SD	CEILING MOUNTED SMOKE DETECTOR 110V., INTERCONNECTED W/ BATT. BACKUP. SMOKE DETECTOR SHALL COMPLY WITH NFPA 72
	BATTERY BACK UP EXIT LIGHT
	BATTERY BACK UP EMERGENCY LIGHT
$	WALL SWITCH (SINGLE, DOUBLE,)
$3	WALL SWITCH (3 WAY, 4 WAY)
$T	WALL SWITCH (TIMER)
$D	DIMMER WALL SWITCH
$OS	OCCUPANCY SENSOR WALL SWITCH
$VS	VARIABLE SPEED SWITCH
	SINGLE RECEPTACLE
	DUPLEX RECEPTACLE
	DUPLEX RECEPTACLE, 46" TO AFF AT KITCHEN, BATHS AND TOPS
	HALF SWITCHED DUPLEX RECEPTACLE
	230 VOLT RECEPTACLE
	QUADRUPLEX RECEPTACLE
	FLOOR MOUNTED. FLUSH DUPLEX RECEPTACLE
	FLOOR MOUNTED. FLUSH QUAD. RECEPTACLE
	FLOOR MOUNTED. FLUSH 230 VOLT RECEPTACLE
	ELECTRICAL PANEL
	DISCONNECT SWITCH
	USB CHARGER RECEPTACLE
TV	TELEVISION OUTLET
T	TELEPHONE OUTLET
T/D	TELEPHONE/DATA OUTLET
D	DATA OUTLET
T/D MD	FLOOR MTD. FLUSH TELEPHONE/DATA OUTLET
DATA	QUAD. DATA OUTLET RJ45

ABBREVIATIONS:

ABOVE FINISH FLOOR= A.F.F.
GROUND FAULT INTERRUPTER= GFCI
WEATHER PROOF= WP
PUSH BUTTON= PB
VAPOR PROOF= VP
COUNTER TOP LEVEL= C
VERIFY PRIOR TO INSTALL= VH
BELOW COUNTER= BC
UNDER CABINET= UC
SALVAGED = S

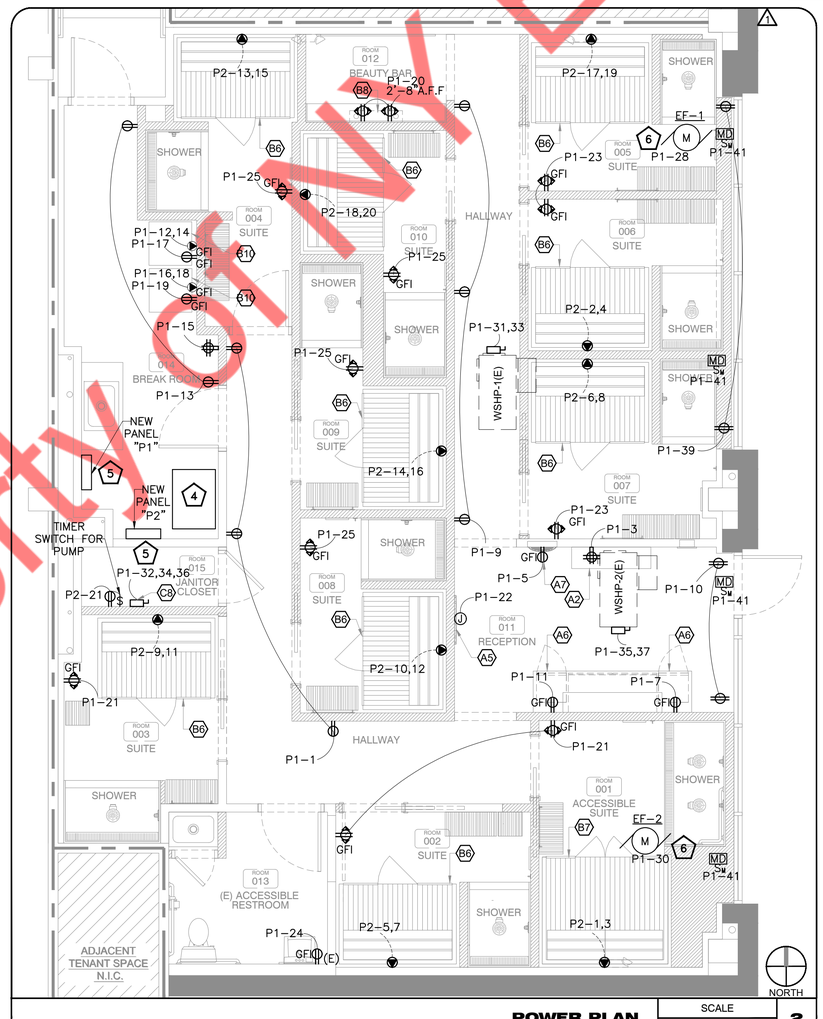
LIGHTING FIXTURE SCHEDULE

SYMBOL	TYPE	DESCRIPTION	MANUFACTURER	CATALOG NUMBER	VOLT	No. LAMPS	LAMP TYPE	TOTAL WATTS	MOUNTING
	B	2x2 RECESSED LED FLAT PANEL	COLUMBIA	CFP22-3335 FK22	120	1	26 WATTS LED	26	RECESSED
	D	4' LINEAR LED PENDANT	LITECONTROL	2LPD04BAT-XX-35KD030D011CUNVFA1CB1	120	1	2.9 WATTS/FT	11.6	PENDANT
	F	4" RECESSED CYLINDER LIGHT	PRESCOLITE	CDL4-7L30KA WH	120	1	9 WATTS LED	9	RECESSED
	G	WALL SCONCE	TECH LIGHTING	700BCYLNN25WS-LED930	120	1	25 WATTS LED	25	WALL MOUNTED
	A	LED STRIP	KLUS	K-1530-RGB+W-24V	120	1	4.6 W/FT	–	RECESSED
	X1	EXIT SIGNS	COMPASS	CERRC	120	1	LED	3.6	WALL
	X2	WALL-MOUNTED EMERGENCY LIGHTS	COMPASS	CU2RC	120	1	LED	1	WALL
$D	DS	DIMMER WALL SWITCH	COMMERCIAL LIGHTING INDUSTRIES	CLI-NAROSDS	120				WALL
$T	T	TIMER WALL SWITCH	LEVITON	6124	120				WALL
$OS	OS	OCCUPANCY WALL SWITCH	LEVITON	ODS10	120				WALL
		EXHAUST FAN	SEE MECHANICAL PLAN						

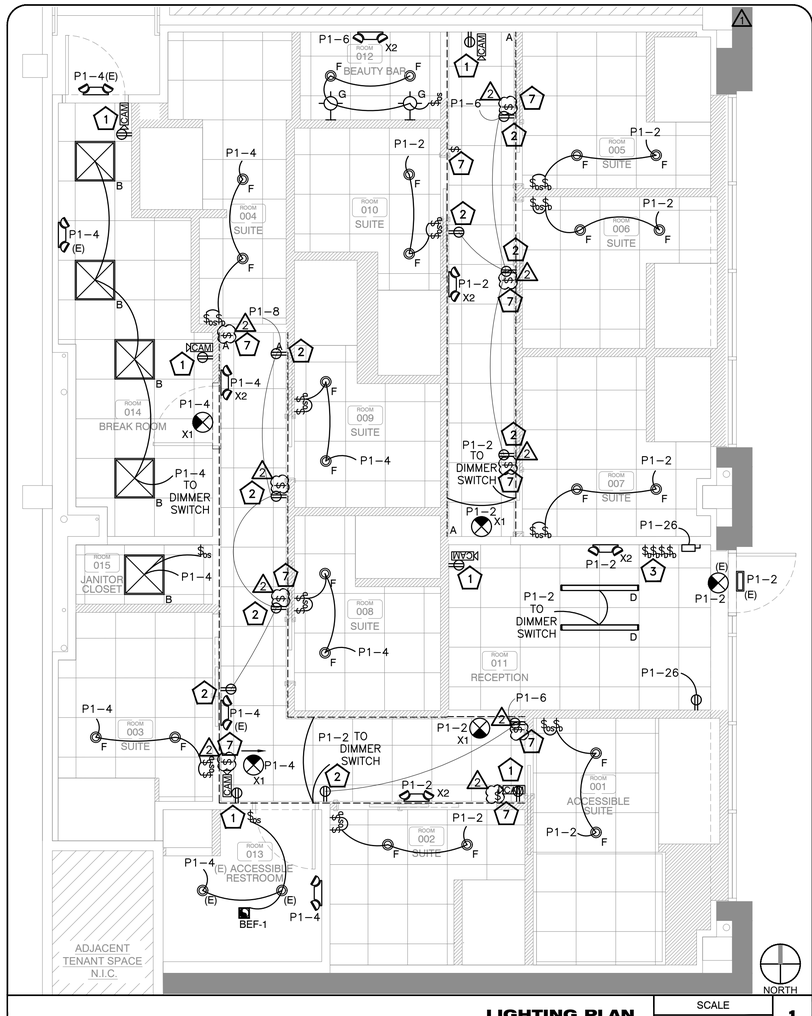
- REFER TO SHEET A-2 - REFLECTED CEILING PLAN IN ARCHITECTURAL DRAWINGS FOR MORE INFORMATION ON COLORS AND TRIMS REQUIRED
- REFER TO CS-5 FOR VENDORS INFORMATION
- (*) EXISTING FIXTURES ARE ACCEPTABLE. IF THEY NEED TO BE REPLACED, REPLACE W/ EXACT MATCH OR MATCH SCHEDULE
- SUBSTITUTIONS TO THE ABOVE FIXTURE SCHEDULE MUST BE SUBMITTED 14 DAYS PRIOR TO BID & REVIEWED BY THE ARCHITECT, ENGINEER & OWNER. SUBSTITUTIONS WILL NOT BE REVIEWED AFTER THIS TIME. SUBMITTAL PACKAGES MUST INCLUDE COLOR, CUT SHEETS, ALL PHOTOMETRICS & FIXTURE SAMPLES FOR ALL DECORATIVE FIXTURES, LANDSCAPE FIXTURES & OUTDOOR FIXTURES. WITHOUT THIS INFORMATION NO REVIEW WILL BE PROVIDED.

ELECTRICAL KEYED WORK NOTES

1. CAMERA RECEPTACLE(P1-29) ABOVE CEILING MUST BE ACCESSIBLE. E.C TO COORDINATE WITH ARCHITECT/OWNER FOR EXACT LOCATION.
2. RECEPTACLE FOR DOORS NUMBER SIGN. E.C. SHALL COORDINATE WITHSIGN PROVIDER FOR EXACT LOCATION AND MOUNTING. COORDINATE WITH OWNER PRIOR TO ROUGH-IN.
3. DIMMER SWITCH BANK. E.C TO COORDINATE WITH ARCHITECT/OWNER FOR EXACT LOCATION.
4. NEW 150KVA P:480V, S:120/208V TRANSFORMER FOR SPACE. E.C TO COORDINATE WITH ARCHITECT/OWNER FOR EXACT LOCATION.
5. NEW 120/208V ELECTRICAL PANELS P1 AND P2, P1(600AMPS) AND P2(200AMPS). E.C TO COORDINATE WITH ARCHITECT/OWNER FOR EXACT LOCATION.
6. PROVIDE 1P20A BREAKER FOR EF-2, INTERLOCK EXHAUST FAN EF-2 WITH WSHP.
7. ELECTRICAL SWITCH FOR THE NUMBER SIGN OVER DOOR. E.C. SHALL COORDINATE EXACT LOCATION OF SWITCH WITH ARCHITECT/OWNER.



POWER PLAN — SCALE 1/4" = 1'-0" — 2



LIGHTING PLAN — SCALE 1/4" = 1'-0" — 1

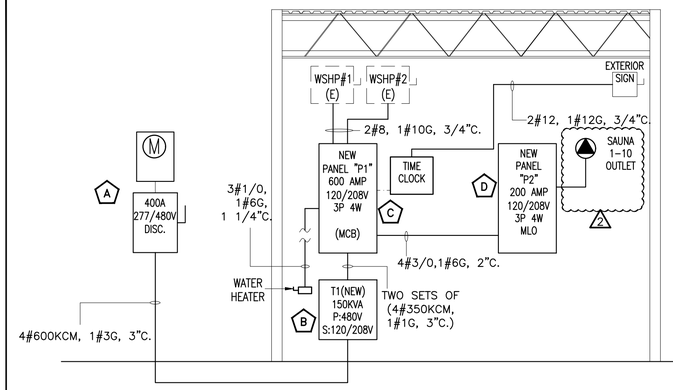
PANEL:	P1(NEW)													MOUNTING:	SURFACE		
208Y/120	VOLTS,		**3**	PHASE,			**4**	WIRE									
MAIN CB	**600A**			BUS	**600A**		MIN,										

CKT NO.	TRIP AMPS	DESCRIPTION OF LOAD	LOAD TYPE	LOAD (KVA)	MINIMUM BRANCH CIRCUIT	PER PHASE (KVA) A	B	C	MINIMUM BRANCH CIRCUIT	LOAD (KVA)	LOAD TYPE	DESCRIPTION OF LOAD	TRIP AMPS	CKT NO.
1	20	GENERAL RECEPTACLE	R	0.54	2#12, #12G, 3/4"C	1.34			2#12, #12G, 3/4"C	0.80	L	LIGHTING	20	2
3	20	RECEPTION- COMPUTER	R	0.36	2#12, #12G, 3/4"C		0.76		2#12, #12G, 3/4"C	0.40	L	LIGHTING	20	4
5	20*	(A7)DRINKING FOUNTAIN	E	0.30	2#12, #12G, 3/4"C			1.38	2#12, #12G, 3/4"C	1.08	R	WINDOW RECEPTACLE	20	6
7	20*	(A6)BEVERAGE COOLER	E	0.28	2#12, #12G, 3/4"C	1.00			2#12, #12G, 3/4"C	0.72	R	WINDOW RECEPTACLE	20	8
9	20	GENERAL RECEPTACLE	E	0.54	2#12, #12G, 3/4"C		1.74		2#12, #12G, 3/4"C	1.20	L	SHOW WINDOW	20	10
11	20*	(A6)BEVERAGE COOLER	E	0.28	2#12, #12G, 3/4"C			2.98	2#10, #10G, 3/4"C	2.70	H	(B10)DRYER	30*/2P	12
13	20	CONVENIENCE RECEPTACLE	R	0.36	2#12, #12G, 3/4"C	3.06				2.70	H			14
15	20	A/V SYSTEM	E	0.72	2#12, #12G, 3/4"C		3.42		2#10, #10G, 3/4"C	2.70	H	(B10)DRYER	30*/2P	16
17	20*	(B10)WASHER	H	1.44	2#12, #12G, 3/4"C			4.14		2.70	H			18
19	20*	(B10)WASHER	H	1.44	2#12, #12G, 3/4"C	1.80			2#12, #12G, 3/4"C	0.36	R	BEAUTY BAR COUNTER TOP RECEP	20	20
21	20*	USB GFCI RECEPTACLE SUITE	R	0.54	2#12, #12G, 3/4"C		1.74		2#12, #12G, 3/4"C	1.20	L	FRONT SIGN	20	22
23	20*	USB GFCI RECEPTACLE SUITE	R	0.54	2#12, #12G, 3/4"C			0.72	2#12, #12G, 3/4"C	0.18	R	BATHROOM GFCI	20*	24
25	20*	USB GFCI RECEPTACLE SUITE	R	0.72	2#12, #12G, 3/4"C	1.92			2#12, #12G, 3/4"C	1.20	L	EXTERIOR SIGN	20	26
27	20	CAMERA RECEPTACLE	R	0.50	2#12, #12G, 3/4"C		1.10		2#12, #12G, 3/4"C	0.60	M	EF-1	20	28
29	20	CAMERA RECEPTACLE	R	1.08	2#12, #12G, 3/4"C			1.68	2#12, #12G, 3/4"C	0.60	M	EF-2	20	30
31	35/2P	WSHP-1(E)	H	2.26	2#8, #10G, 3/4"C	15.76			3#1/0, #6G, 1 1/4"C	13.50	H	(C8)WATER HEATER	150/3P	32
33			H	2.26			15.76			13.50	H			34
35	35/2P	WSHP-2(E)	H	2.26	2#8, #10G, 3/4"C			15.76		13.50	H			36
37			H	2.26		11.96				9.70	M			38
39	20	SHOW WINDOW	M	1.20	2#12, #12G, 3/4"C		10.90		4#3/0, #6G, 2"C	9.70	M	TO PANEL 'P2'	200/3P	40
41	20	MOTORISED DAMPER	M	0.30	2#12, #12G, 3/4"C			10.00		9.70	M			42
		TOTAL LOAD (KVA)				36.835	35.42	36.655						

PANEL:	P2(NEW)													MOUNTING:	SURFACE		
208Y/120	VOLTS,		**3**	PHASE,			**4**	WIRE									
		MLO	**200A**	BUS	**225A**		MIN,										

CKT NO.	TRIP AMPS	DESCRIPTION OF LOAD	LOAD TYPE	LOAD (KVA)	MINIMUM BRANCH CIRCUIT	PER PHASE (KVA) A	B	C	MINIMUM BRANCH CIRCUIT	LOAD (KVA)	LOAD TYPE	DESCRIPTION OF LOAD	TRIP AMPS	CKT NO.
1	30*/2P	SAUNA SUITE # 1	M	1.80	2#10, #10G, 3/4"C	3.20			2#10, #10G, 3/4"C	1.40	M	SAUNA SUITE # 6	30*/2P	2
3			M	1.80			3.20			1.40	M			4
5	30*/2P	SAUNA SUITE # 2	M	1.40	2#10, #10G, 3/4"C			2.80	2#10, #10G, 3/4"C	1.40	M	SAUNA SUITE # 7	30*/2P	6
7			M	1.40		2.80				1.40	M			8
9	30*/2P	SAUNA SUITE # 3	M	1.40	2#10, #10G, 3/4"C		2.80		2#10, #10G, 3/4"C	1.40	M	SAUNA SUITE # 8	30*/2P	10
11			M	1.40				2.80		1.40	M			12
13	30*/2P	SAUNA SUITE # 4	M	1.40	2#10, #10G, 3/4"C	2.80			2#10, #10G, 3/4"C	1.40	M	SAUNA SUITE # 9	30*/2P	14
15			M	1.40			2.80			1.40	M			16
17	30*/2P	SAUNA SUITE # 5	M	1.40	2#10, #10G, 3/4"C			2.80	2#10, #10G, 3/4"C	1.40	M	SAUNA SUITE # 10	30*/2P	18
19			M	1.40		2.80				1.40	M			20
21	20*	HOT WATER CIRCULATOR PUMP	M	0.30	2#12, #12G, 3/4"C		0.30					SPARE	20	22
23	20	SPACE						0.00				SPARE	20	24
25	20	SPACE				0.00						SPARE	20	26
27	20	SPACE					0.00					SPARE	20	28
29	20	SPACE						0.00				SPARE	20	30
31	20	SPACE				0.00						SPARE	20	32
33	20	SPACE					0.00					SPARE	20	34
35	20	SPACE						0.00				SPARE	20	36
37	20	SPACE				0.00						SPARE	20	38
39	20	SPACE					0.00					SPARE	20	40
41	20	SPACE						0.00				SPARE	20	42
		TOTAL LOAD (KVA)				11.6	9.1	8.4						

* INDICATED GFCI CIRCUIT BREAKER



ELECTRICAL RISER KEYED WORK NOTES:

A NEW 400A, 480V, 3-PHASE METER AND DISCONNECT DEDICATED FOR THE SPACE. E.C. SHALL COORDINATE WITH LANDLORD/OWNER FOR SERVICE UPGRADE PRIOR TO COMMENCING ANY WORK.

B NEW 150 KVA, P:480V, S: 120/208V, 3-PHASE TRANSFORMER. E.C. SHALL VERIFY EXACT LOCATION ON FIELD.

C NEW 600A, 120/208V, 3-PHASE ELECTRICAL PANEL.

D NEW 200A, 120/208V, 3-PHASE ELECTRICAL PANEL .

NOTE:

1. ELECTRICAL CONTRACTOR TO COORDINATE FAULT CURRENT (Isc) RATING WITH UTILITY COMPANY AND AHJ PRIOR TO COMMENCING ANY WORK.
2. E.C. SHALL VERIFY INCOMING SERVICE AMPERAGE, WIRE SIZING AND DISTRIBUTION.

ELECTRICAL RISER SYMBOLS:

NEW

EXISTING ITEM/FEEDER TO REMAIN

EXISTING ITEM/FEEDER TO BE DISCONNECTED & REMOVED

RISER DIAGRAM | SCALE 1/4" = 1'-0" | 1