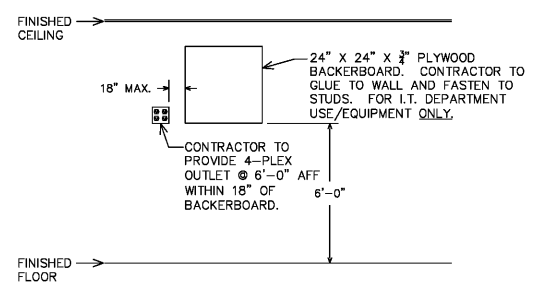


**2 ELECTRICAL SERVICE RISER DIAGRAM**  
 NO SCALE



**3 BACKERBOARD DETAIL**  
 NO SCALE

**POWER PLAN KEY NOTES**

- 1 EXISTING RTU W/ DISC. SWITCH, GFI MOUNTED OUTLET. BY LANDLORD.
- 2 PROVIDE RECEPTACLE FLUSH IN CEILING. COLOR TO MATCH CEILING.
- 3 CONNECT ALL OUTLETS ON CIRCUIT #A-9 TO SWITCH LOCATED AT THE FRONT OF THE SALON. MOUNT SWITCH AT 46" A.F.F.O.C.
- 4 ELECTRICAL CONTRACTOR TO ROUTE 1-1/4" C WITH (4) 4 PAIR-TYPE CAT 5E NETWORK CABLE BACK TO I.T. NETWORK BOARD IN BACK ROOM LEAVING A 36" ACCESS LOOP AT BOTH ENDS. E.C. TO MAKE FINAL CONNECTION OF (MALE) RJ-45 JACK TO BOTH ENDS OF (3) CABLES AND (MALE) RJ-11 JACK TO BOTH ENDS OF (1) CABLE. ALL CABLES TO BE PLENUM RATED
- 5 INSTALL 4-PLEX AND PHONE CONDUIT 6" A.F.F. ON WALL FOR CONNECTION TO THE RECEPTION DESK. FURNISHED AND INSTALLED BY TENANT'S E.C. (1) 4-PLEX OUTLET AND PHONE CONDUIT WITH PLATE ON WALL.
- 6 INSTALL J-BOX IN CEILING SPACE (ONLY) & DROP CIRCUIT IN WALL. STUB BEHIND AREA OF STYLING LEDGE, 18" FROM EDGE, LEAVING 24" TAIL FOR DIRECT CONNECTION TO 4-PLEX (TYPICAL). REFER TO 9/A300 FOR HEIGHT DIMENSION.
- 7 ELECTRICAL CONTRACTOR TO ROUTE (1) 4 PAIR-TYPE CAT 5E NETWORK CABLE BACK TO I.T. NETWORK BOARD IN BACK ROOM LEAVING A 36" ACCESS LOOP AT BOTH ENDS. E.C. TO MAKE FINAL CONNECTION OF (MALE) RJ-45 JACK TO BOTH ENDS OF CABLE. CABLE TO BE PLENUM RATED
- 8 LOCATION OF 24" X 24" X 3/4" PLYWOOD BACKERBOARD TO BE DETERMINED BY CONTRACTOR.
- 9 EXISTING PANEL 'A', VERIFY EXACT LOCATION IN THE FIELD (SEE DIAGRAM THIS SHEET).
- 10 30A, 120/240V, DRYER AND DUPLEX RECEPTACLE INSTALLED BY TENANT'S ELECTRICAL CONTRACTOR.
- 11 EXISTING 52 GAL. WATER HEATER 200V, 3Ø, 9 KW. PROVIDE LOCK-OFF DEVICE AT BREAKER. REQUIRE PER 422.31(B). VERIFY EXACT LOCATION IN THE FIELD, BY LANDLORD.
- 12 INSTALL J-BOX IN CEILING SPACE (ONLY). DO NOT RUN CONDUIT TO STATION.
- 13 ELECTRICAL CONTRACTOR TO ROUTE (1) 4 PAIR-TYPE CAT 5E NETWORK CABLE BACK TO I.T. NETWORK BOARD IN BACK ROOM LEAVING A 36" ACCESS LOOP AT PANEL BOARD END. E.C. TO MAKE FINAL CONNECTION OF (FEMALE) RJ-11 AND RJ-45 JACK TO OFFICE END OF (MALE) RJ-11 AND RJ-45 AT PANEL BOARD END OF (1) CABLE. ALL CABLES TO BE PLENUM RATED.

**ELECTRICAL NOTES**

NOTE: ELECTRICAL CONTRACTOR TO REVIEW ALL INFORMATION ON SHEETS A100, A110 AND E100, E200, E300 AND CONTACT PROJECT MANAGER AND GENERAL CONTRACTOR IF ANY SHEETS WERE NOT RECEIVED BEFORE BIDDING.

ANY MATERIALS OR EQUIPMENT SUBSTITUTIONS WITHOUT PRIOR APPROVAL BY PROJECT MANAGER WILL RESULT IN REJECTION WITH CORRECT MATERIALS AND/OR EQUIPMENT AS SPECIFIED BY THE OWNER AND AT THE SUBMITTER'S COST TO THE GENERAL CONTRACTOR.

ALL TESTING CONDITIONS SHALL BE VERIFIED BY THE GENERAL CONTRACTOR. FAILURE TO VERIFY THE TESTING CONDITIONS SHALL NOT RELIEVE CONTRACTOR OF ANY EXPENSES OR RESPONSIBILITIES RESULTING FROM THAT FAILURE.

IF LOCATED IN TENANT SPACE, TENANT ELECTRICAL CONTRACTOR TO PROVIDE ELECTRICAL SERVICE GROUNDING JUMPER WIRE AT WATER METER, IF METER IS LOCATED IN TENANT SPACE, INSTALLED PER N.E.C.

ELECTRICAL SERVICE SHOULD BE FIELD VERIFIED BY CONTRACTOR AND ALSO SHOULD MEET ALL CLEARANCES AS DIRECTED BY N.E.C. VERIFY CAPACITY AVAILABLE AND NOTIFY ENGINEER OF ANY DISCREPANCIES.

TENANT E.C. SHALL COORDINATE THE INSTALLATION OF A SMOKE DETECTION SYSTEM IN THE TENANT SPACE WITH THE MECHANICAL CONTRACTOR. INSTALL A SMOKE DETECTOR IN THE SUPPLY AIR DUCT OF THE H.V.A.C. UNIT AS REQUIRED BY N.F.P.A. CODES TO DEACTIVATE THE H.V.A.C. UNIT IF SMOKE IS DETECTED. VERIFY ADDITIONAL LANDLORD AND LOCAL CODE REQUIREMENTS.

ALL OUTLET AND SWITCH PLATE COVERS TO BE NEW STAINLESS STEEL INCLUDING ALL EXISTING OUTLET AND SWITCH PLATE COVERS, UNLESS OTHERWISE NOTED. NO EXCEPTIONS.

E.C. TO ALSO INSTALL CONDUIT FOR TENANT SUPPLIED DOGHOUSE FOR ELECTRICAL OUTLETS.

PROVIDE GFI DUPLEX RECEPTACLES ONLY WHERE CALLED FOR. FEED THROUGH AND GFI BREAKER PROTECTION ARE NOT ACCEPTABLE SUBSTITUTES.

ALL GFI OUTLETS MUST BE TEST/RESET OUTLETS AND ACCEPTABLE PER CODE. GFI FEED- THROUGH OUTLETS ARE NOT ACCEPTABLE.

IT IS THE ELECTRICAL CONTRACTORS RESPONSIBILITY TO VERIFY EXISTENCE OF ACTIVE PHONE SERVICE TO TENANT'S LEASABLE SPACE. IF NO SERVICE IS AVAILABLE, ELECTRICAL CONTRACTOR IS TO INSTALL EMPTY CONDUIT AND PULL WIRE FROM LANDLORD'S MAIN TELEPHONE BOARD TO TENANT'S SPACE. COORDINATE ROUTING WITH LANDLORD. IF REQUIRED, TENANT E.C. TO RELOCATE EXISTING PHONE EQUIP. SERVING THIS SPACE TO AREA NEAR ELECTRICAL PANEL.

**ELECTRICAL LOAD SUMMARY**

LOAD TYPE	CONNECT. LOAD (KVA)	DEMAND FACTOR	DEMAND LOAD (KVA)
LIGHTING	2.89	1.25	4.14
RECEPTACLES	19.99	NA	19.99
MOTORS	0.00	1.25	0.00
A/C	11.81	1.0	11.81
OTHER	9.00	1.0	9.00
TOTAL	43.68	-	44.93

SERVICE SIZING LOAD (KVA) = 44.93      124.81 AMPS  
 SERVES AT 208V3 PHASE

**RISER NOTES:**

ELECTRICAL CONTRACTOR TO INSPECT PROPOSED SITE PRIOR TO BID AND SURVEY EXISTING CONDITIONS. VERIFY EXISTING LOCATION OF LANDLORDS EXISTING ELECTRICAL SERVICE. REPORT ANY DISCREPANCIES TO ELECTRICAL DESIGNER.

ELECTRICAL RISER DIAGRAM IS FOR SCHEMATIC PURPOSES ONLY AND SHOULD BE FIELD VERIFIED BY CONTRACTOR AND ALSO SHOULD MEET ALL CLEARANCES AS DIRECTED BY N.E.C.

PANELBOARD AND CIRCUIT BREAKERS SHALL HAVE AN A.I.C. RATING NOT LESS THAN THE A.I.C. RATING SHOWN ON DRAWINGS, BUT GREATER THAN THE FAULT CURRENT VALUE AT THE POINT OF APPLICATION.

NEW PANEL DIRECTORY CARDS SHALL BE TYPED. NO HAND LABELING ALLOWED.

**1 ELECTRICAL SERVICE PLAN**  
 SCALE: 1/4" = 1'-0"

**PANELBOARD:** A (EXISTING)  
**PANEL TYPE:** NQ  
**LOCATION:** STOCKROOM

LOAD CLS	CKT	DESIGNATION	WIRE SIZE	PL	AMPS	PHASE A	PHASE B	PHASE C	LOAD VA	WIRE SIZE	DESIGNATION	CKT	LOAD CLS	
L	1	SIGN LIGHTING	2 #12,1#12G,3/4"	1	20	1300			1000	2 #12,1#12G,3/4"	TRACK LIGHTS	2	L	
L	3	CEILING LIGHTING	2 #12,1#12G,3/4"	1	20	995	995		4000	2 #12,1#12G,3/4"	TEX RESTROOM LIGHT/FAN/RECEPY	4	L	
L	5	RECEPTION DAYLIGHT ZONE	2 #12,1#12G,3/4"	1	160	228		464	20	1	255	2 #12,1#12G,3/4"	6	L
R	9	CASHWRA	2 #12,1#12G,3/4"	1	1960	720			1240	2 #12,1#12G,3/4"	STYLING STATION	8	R	
R	9	CONVEN. RECEPTION WINDOW	2 #12,1#12G,3/4"	1	1780	540			1240	2 #12,1#12G,3/4"	STYLING STATION	10	R	
R	11	SPARE	2 #12,1#12G,3/4"	1	20	900	2140		1240	2 #12,1#12G,3/4"	STYLING STATION	12	R	
R	13	CLOTHES WASHER	2 #12,1#12G,3/4"	1	20	2500			1240	2 #12,1#12G,3/4"	STYLING STATION - FUTURE	14	R	
R	15	CLOTHES DRYER	2 #10,1#10G,3/4"	2	30	2500	3740		1240	2 #12,1#12G,3/4"	STYLING STATION - FUTURE	16	R	
R	17	SPARE	2 #12,1#12G,3/4"	1	20	2500			1240	2 #12,1#12G,3/4"	STYLING STATION	18	R	
R	19	RECEPTACLE **	2 #12,1#12G,3/4"	1	20	180	1420		1240	2 #12,1#12G,3/4"	STYLING STATION	20	R	
R	19	RECEPTACLE **	2 #12,1#12G,3/4"	1	20	540	1780		1240	2 #12,1#12G,3/4"	STYLING STATION	22	R	
R	19	RECEPTACLE **	2 #12,1#12G,3/4"	1	20	360	730		1000	2 #12,1#12G,3/4"	DAYLIGHT ZONE TRACK LIGHTS	24	L	
R	27	RECEPTACLE **	2 #12,1#12G,3/4"	1	20	720	730		20	1	SPARE	26	R	
R	27	RECEPTACLE **	2 #12,1#12G,3/4"	1	20	329	329		20	1	SPARE	28	R	
R	29	RECEPTACLE **	2 #12,1#12G,3/4"	1	20	360	20	540	20	1	SMOKE DETECTOR**	30	R	
R	31	RECEPTACLE **	2 #12,1#12G,3/4"	1	20	360	488		1240	2 #12,1#12G,3/4"	SHAMPOO LIGHTS	32	L	
R	33	TOWEL WARMER	2 #12,1#12G,3/4"	1	20	238	238		20	1	SPARE	34	R	
R	35	SPARE	2 #12,1#12G,3/4"	1	20	3000	6936		3936	3 #6,1#10G,3/4"	EX RTU (BY LL)	38	A	
O	39	WATER HEATER (BY LL)	3 #6,1#10G,3/4"	3	35	3000	6936		3936	3 #6,1#10G,3/4"	EX RTU (BY LL)	40	A	
O	41	SPARE	2 #12,1#12G,3/4"	1	20	3000			3936	3 #6,1#10G,3/4"	EX RTU (BY LL)	42	A	
TOTAL										14964	15798	13380	22823	

LOAD	LOAD CATEGORY	CON. LOAD TOT. KVA	DEMAND FACTOR	DEMAND LOAD (KVA)	PER PHASE A	PER PHASE B	PER PHASE C	BALANCED 3P LOAD
220 12/220 42/220 43/220 14(F)	L LIGHTING	2.89	1.00	1.33	1.00	0.56	2.89	8.01
220 140(H) 220 44	R RECEPTACLE	20.35	100%	6.60	7.87	5.88	15.17	42.12
220 140(Y) 220 24	M MOTORS	0.00	1.00	0.00	0.00	0.00	0.00	0.00
220 56	K KITCHEN EQUIPMENT	0.00	0.65	0.00	0.00	0.00	0.00	0.00
220 60/440 60/440 7	A AIR CONDITION	11.81	1.00	3.94	3.94	3.94	11.81	37.78
220 51/220 60	H HEAT (ELECTRIC)	0.00	0.00	0.00	0.00	0.00	0.00	0.00
220 14(A)	O OTHER TOTAL	9.00	1.00	3.90	3.90	3.00	9.20	24.98
	SUB TOTAL	44.04		14.86	15.80	13.38	38.87	107.89
	SPARE		10%	1.49	1.58	1.34	4.40	12.22
210 20(A) 215 2(A) 1730 42(A)	CONTINUOUS (ADD 25%)	2.89	25%	0.33	0.25	0.14	0.72	2.00
220 14(C) 240 24	LARGEST MOTOR (ADD 25%)	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TOTAL	19.68		17.63	14.96	43.99	127.12	

MARK	REMARKS
**	PROVIDE RACK BREAKER
**	PROVIDE LOCK OFF DEVICE PER 422.31(B)
**	10 GROUNDED BREAKER
**	VIA LIGHTING CONTROL PANEL

PHASE DEMAND LOAD	KVA	AMPS	% UNBALANCE
PH A	16.68	139.01	
PH B	17.63	147.07	
PH C	4.86	124.09	
PROVIDE:	GROUND BUS		
	ISOLATED GROUND BUS		
	100% NEUTRAL BUS		

#81973

12/13/2017

**SUPERCUTS**  
 TENANT BUILD-OUT  
 LAKESIDE VILLAGE  
 7582 WINTER GARDEN VINELAND RD  
 WINDERMERE, FL 34786

ELECTRICAL PANEL & RISERS

**SUPERCUTS**

DATE ISSUED  
 TENANT REVIEW 12.08.17  
 LANDLORD REVIEW 12.13.17  
 PERMIT 12.13.17

DRAWN BY DW  
 CHECKED BY AH  
 JOB NO. 17-678