

FAN POWERED VARIABLE AIR VOLUME...

ID	MCA	MOCF	VOLT	PH	Disconnect	Wire & Conduit Description
FPB-2-1	3.0 A	15.0 A	277 V	1	30A-F15A-1P-1	#12,#12G,1/2" C
FPB-2-2	3.0 A	15.0 A	277 V	1	30A-F15A-1P-1	#12,#12G,1/2" C

EXHAUST FAN SCHEDULE

ID	WATTS	HP	VOLTAGE-PHASE
EF-1	171	0.0 hp	277 V-1Ø
EF-2	171	0.0 hp	277 V-1Ø

WATER HEATER SCHEDULE

Identity Mark	Heating Element Power	Voltage Nominal	Phase	Wire & Conduit Description	Disconnect
WH1	3000 kW	208 V	1	#12,#12G,1/2" C	30A-F20A-2P-1

VARIABLE AIR VOLUME TERMINAL UNIT...

ID	Apparent Load	Voltage Nominal	Disconnect	Wire & Conduit Description
VAV-2-1	0 VA	120 V	MOTOR RATED SWITCH	#12,#12G,1/2" C
VAV-2-2	0 VA	120 V	MOTOR RATED SWITCH	#12,#12G,1/2" C
VAV-2-3	0 VA	120 V	MOTOR RATED SWITCH	#12,#12G,1/2" C
VAV-2-4	0 VA	120 V	MOTOR RATED SWITCH	#12,#12G,1/2" C
VAV-2-5	0 VA	120 V	MOTOR RATED SWITCH	#12,#12G,1/2" C
VAV-2-6	0 VA	120 V	MOTOR RATED SWITCH	#12,#12G,1/2" C
VAV-2-7	0 VA	120 V	MOTOR RATED SWITCH	#12,#12G,1/2" C

LIGHTING FIXTURE SCHEDULE

TYPE	DESCRIPTION	LAMP	BALLAST/DRIVER	WATTAGE	VOLTAGE	MFR	CATALOG SERIES	NOTE
DL1	6" RECESSED LED DOWNLIGHT	LED	INTEGRAL LED DRIVER (STANDARD 0-10V DIMMING)	19 W	UNIV	H.E. WILLIAMS	GDR-TL-L20/B35-DIM-UNV-OW-OF-CS-N-F1	6" APERTURE MINIMUM 2000 LUMEN PACKAGE MINIMUM 10% DIMMING CLEAR SPECULAR
DL2	2" RECESSED LED DOWNLIGHT WALL WASH	LED	INTEGRAL LED DRIVER (STANDARD 0-10V DIMMING)	18 W	UNIV	INTENSE	GD2WR NC L1 35 DIM 27 W	2" APERTURE MINIMUM 1000 LUMEN PACKAGE MINIMUM 1% DIMMING CLEAR SPECULAR WALL WASH
EMB1	INTERIOR EMERGENCY BATTERY EGRESS LIGHT AIMABLE	LED	INTEGRAL LED DRIVER	2 W	UNIV	LITHONIA HUBBELL JUNO COOPER	ELM2L	TEST SWITCH PROVIDED SEALED 90 MINUTE BATTERY 20" (ON CENTER) X 6" W DESIGN PATH SELF TEST SDK WITH RTKIT
EX1B	THERMOPLASTIC EXIT SIGN	LED	INTEGRAL LED DRIVER	1 W	UNIV	EELP	EELP-XE 2 R W USA	CONNECT TO GYPSBOARD
IDLP1	4" INDIRECT/DIRECT LED PENDENT	LED	INTEGRA LED DRIVER		UNIV	FINELITE	HP-4 ID-#1-S-S-835-TG-F-277V-FA-FE-DC-C2-0BD	ARCHITECT TO PROVIDE MOUNTING BRACKET WEIGHT UP TO 70 LB FOR 80/200 SWITCH AND DIM. PARATEL DIMMING INCREMENT 10% 3500K SEE PLANS FOR FIXTURE LENGTHS
L10	4" LINEAR RECESSED	LED	INTEGRAL LED DRIVER	36 W	UNIV	FINELITE	HP-2 R-#1-S-835-TG-F-277V-SC-C-0BD	DIMMING INCREMENT 10% 3500K SEE PLANS FOR FIXTURE LENGTHS
RP1	10" LED CYLINDER PENDENT	LED	INTEGRAL LED DRIVER	54 W	UNIV	TMS	660CY 54L 100FK 277...FML	25" DIAMETER MINIMUM 10% DIMMING CONFIRM COLOR WITH ARCHITECT
RTL2	2X2 LED LAY-IN TROFFER	LED	INTEGRAL LED DRIVER (STANDARD 0-10V DIMMING)	30 W	UNIV	LITHONIA CORO COOPER	2BLT2 30L SDSM G210 LP835	3500K 2000 MINIMUM LUMENS UL LISTED DAMP LOCATIONS PROVIDE FLANGE KIT FOR GYPSBOARD APPLICATION
RTL3	2X4 LED LAY-IN TROFFER	LED	INTEGRAL LED DRIVER (STANDARD 0-10V DIMMING)	35 W	UNIV	LITHONIA WILLIAMS COOPER	2BLT4 30L SDSM G210 LP835	3500K 3000 MINIMUM LUMENS
SC1L	PENDANT MOUNTED CYLINDER	LED	INTEGRAL LED DRIVER	10 W	UNIV	INTENSE	MXG2PRDRM 1 LO 35 24 W W CR C48	3500K
STL1	4 FT. LED STRIP	LED	INTEGRAL LED DRIVER (STANDARD 0-10V DIMMING)	40 W	UNIV	LITHONIA COLUMBIA CREE COOPER DAY-BRITE	BLWP4 40L ADP G210 LP835	PROVIDE CHAIN FOR PENDANT MOUNTING PROVIDE WIRE GUARD 4000 MINIMUM LUMENS LENSED

EXIST. PANEL: LSPM

VOLTAGE: 480Y/277 3Ø
MOUNTING: SURFACE ENCLOSURE: NEMA1 MAIN: 150 A
MAIN TYPE: MCB PHASE: 3 WIRE: 4
MFR: TYPE: AIC: 14 KAIC

LOAD SERVED	Wire Size	TRIP	CKT NO	POLE S	A (LOAD KVA)	B (LOAD KVA)	C (LOAD KVA)	POLE S	CKT NO	TRIP	Wire Size	LOAD SERVED	
LIGHTS STAIR 2	E	20 A	1	1	0.2	6.0			2		20 A	PANEL LSP1	
LIGHTS MECH ROOM	E	20 A	3	1				4	20 A				
LIGHTS OUTDOOR TERRACE	E	20 A	5	1			0.5	3.9	6				
SPARE	--	20 A	7	1	0.0	0.9			8				
TENANT A200 EMERGENCY LIGHTS	E	20 A	9	1		0.5	0.4		10	20 A	E	PANEL LSP3	
SPARE	--	20 A	11	1			0.0	0.2	12				
SPACE ONLY	--	--	13	--	0.0	4.7			14				
SPACE ONLY	--	--	15	--		0.0	4.8		3	20 A	E	PANEL LSPT	
SPACE ONLY	--	--	17	--			0.0	2.3	18				
TRANSFORMER T10	E	20 A	21	3	0.7	0.0			20				
			23				0.0	0.0	3	22	20 A	E	SURGE PROTECTION

LOAD	Connected Load	Demand Factor	Estimated Demand	NOTES:
LIGHTS	29000 VA	125.00%	36250 VA	1. 'E' INDICATES EXISTING BRANCH CIRCUIT.
HEATING	0 VA	0.00%	0 VA	2. PROVIDE BREAKER AS INDICATED.
COOLING	0 VA	0.00%	0 VA	3. BOLD INDICATES NEW LOADS.
VENTILATION	0 VA	0.00%	0 VA	4. PANEL IS LOCATED ON UPPER MEZZANINE LEVEL.
MOTORS	0 VA	0.00%	0 VA	
KITCHEN	0 VA	0.00%	0 VA	
RECEPTACLES	0 VA	0.00%	0 VA	
WATER HEATER	0 VA	0.00%	0 VA	
MISC.	0 VA	0.00%	0 VA	
Spare	0 VA	0.00%	0 VA	

TOTAL KVA (CONNECTED): 29.0 kVA TOTAL PER PHASE (CONNECTED):
TOTAL KVA (DEMAND): 36.3 kVA 46.7 A 36.4 A 24.7 A
TOTAL AMP (CONNECTED): 35 A
TOTAL AMP (DEMAND): 44 A

EXIST. PANEL: RP21

VOLTAGE: 208Y/120 3Ø
MOUNTING: SURFACE ENCLOSURE: NEMA1 MAIN: 100 A
MAIN TYPE: MLO PHASE: 3 WIRE: 4
MFR: EATON TYPE: PRL1A AIC: 10 KAIC

LOAD SERVED	Wire Size	TRIP	CKT NO	POLE S	A (LOAD KVA)	B (LOAD KVA)	C (LOAD KVA)	POLE S	CKT NO	TRIP	Wire Size	LOAD SERVED
RECEPTACLES	12	20 A	1	1	0.4	1.4			1	2	20 A	WEST CORRIDOR 228 (NOTE 2)
RECEPTACLES ELEC./SERVER 240	E	20 A	3	1		0.2	0.7		1	2	20 A	RECEPTACLES Room 228, 234 (NOTE 3)
RECEPTACLES	E	20 A	5	1			0.2	0.2	1	2	20 A	RECEPTACLES (NOTE 3)
RECEPTACLES	E	20 A	7	1	0.2	1.2			1	2	20 A	RECEPTACLES (NOTE 3)
FRIDGE BREAK 230 (NOTE 2)	12	20 A	9	1		1.2	6.7		10	20 A	12	RECEPTACLES Room 230, 228 (NOTE 3)
RECEPTACLES RECEPTION 200	12	20 A	11	1			0.2	0.2	1	12	20 A	RECEPTACLES RECEPTION 200 (NOTE...)
RECEPTACLES Room 202, 200 (NOTE 3)	12	20 A	13	1	0.5	1.1			1	1	20 A	RECEPTACLES COPIER 1 201 (NOTE 3)
RECEPTACLES Room 203, 201(NOTE 3)	12	20 A	15	1		0.9			1	16	20 A	RECEPTACLES CONFER 1 206 (NOTE 3)
RECEPTACLES CONFER 1 206 (NOTE 3)	12	20 A	17	1			0.4	0.9	1	18	20 A	RECEPTACLES CONFER 1 206 (NOTE 3)
RECEPTACLES MEETING 1 208 (NOTE 3)	12	20 A	19	1	0.7	0.9			1	20	20 A	RECEPTACLES 204, 210, 208, 207 (NO...)
RECEPTACLES Room 212, 150 (NOTE 3)	12	20 A	21	1			1.1		1	22	20 A	RECEPTACLES Room 218, 216 (NOTE 3)
RECEPTACLES Room 222, 220 (NOTE 3)	12	20 A	23	1			1.1	1.1	1	24	20 A	RECEPTACLES 210, 226, 224, 207 (NOT...)
RECEPTACLES OPEN OFF 207 (NOTE 3)	12	20 A	25	1	0.4	0.4			1	26	20 A	RECEPTACLES OPEN OFF 207 (NOTE 3)
RECEPTACLES CONFER 205 (NOTE 3)	12	20 A	27	1		0.5			1	28	20 A	RECEPTACLES CONFER 2 205 (NOTE 3)
RECEPTACLES CONFER205 (NOTE 3)	12	20 A	29	1			0.7	0.6	1	30	20 A	VAV BOXES OPEN OFFICE B 226 (NOT...)
WATER HEATER BEVERAGE 232 (NOTE 3)	12	20 A	31	1	5	1.2			1	32	20 A	COPIER WEST CORRIDOR 228 (NOTE 3)
RECEPTACLES INFORMAL 2 225 (NOTE 3)	12	20 A	33	1		1.5	0.4		1	34	20 A	RECEPTACLES ELEC./SERVER 240...
SPACE ONLY	--	--	35	--			0.7	1.5	1	36	20 A	COOLER BEVERAGE 232 (NOTE 2 & 3)
SPACE ONLY	--	--	39	--	0.0	0.0			--	38	--	SPACE ONLY
SPACE ONLY	--	--	41	--			0.0	0.0	--	40	--	SPACE ONLY
SPACE ONLY	--	--	41	--			0.0	0.0	--	42	--	SPACE ONLY

LOAD	Connected Load	Demand Factor	Estimated Demand	NOTES:
LIGHTS	0 VA	0.00%	0 VA	1. NO NEW BREAKERS REQUIRED. REUSE EXISTING BREAKERS.
HEATING	0 VA	0.00%	0 VA	2. BOLD INDICATES NEW LOADS.
COOLING	0 VA	0.00%	0 VA	
VENTILATION	0 VA	0.00%	0 VA	
MOTORS	1400 VA	112.50%	1575 VA	
KITCHEN	0 VA	0.00%	0 VA	
RECEPTACLES	0 VA	0.00%	0 VA	
WATER HEATER	0 VA	0.00%	0 VA	
MISC.	600 VA	100.00%	600 VA	
Spare	0 VA	0.00%	0 VA	

TOTAL KVA (CONNECTED): 27.4 kVA TOTAL PER PHASE (CONNECTED):
TOTAL KVA (DEMAND): 20.5 kVA 84.7 A 79.7 A 67.0 A
TOTAL AMP (CONNECTED): 76 A
TOTAL AMP (DEMAND): 57 A

EXIST. PANEL: L21

VOLTAGE: 480Y/277 3Ø
MOUNTING: SURFACE ENCLOSURE: NEMA1 MAIN: 100 A
MAIN TYPE: MCB PHASE: 3 WIRE: 4
MFR: EATON TYPE: PRL2A AIC: 14 KAIC

LOAD SERVED	Wire Size	TRIP	CKT NO	POLE S	A (LOAD KVA)	B (LOAD KVA)	C (LOAD KVA)	POLE S	CKT NO	TRIP	Wire Size	LOAD SERVED
LIGHTS Room 238, 236, 230, 234, 240,...	12	20 A	1	1	0.7	0.0			1	2	20 A	SPARE
LIGHTS Room 226, 207, 210	12	20 A	3	1			1.1	0.0	1	4	20 A	SPARE
LIGHTS Room 150, 224, 212, 216, 218,...	12	20 A	5	1			1.7	0.0	1	6	20 A	SPARE
FPB-2-2 INFORMAL 1 208	12	20 A	7	1	0.7	0.0			1	8	20 A	SPARE
FPB-2-1 EAST CORR. 210	12	20 A	9	1		0.7	0.0		1	10	20 A	SPARE
SPARE	--	--	11	--			0.0	0.0	1	12	20 A	SPARE
SPARE	--	--	13	--	0.0	0.0			1	14	20 A	SPARE
SPARE	--	--	15	--			0.0	0.0	1	16	20 A	SPARE
SPARE	--	--	17	--			0.0	0.0	1	18	20 A	SPARE
SPACE ONLY	--	--	19	--	0.0	0.0			--	20	--	SPACE ONLY
SPACE ONLY	--	--	21	--			0.0	0.0	--	22	--	SPACE ONLY
SPACE ONLY	--	--	23	--			0.0	0.0	--	24	--	SPACE ONLY
SPACE ONLY	--	--	25	--	0.0	0.0			--	26	--	SPACE ONLY
SPACE ONLY	--	--	27	--			0.0	0.0	--	28	--	SPACE ONLY
SPACE ONLY	--	--	29	--			0.0	0.0	--	30	--	SPACE ONLY
SPACE ONLY	--	--	31	--	0.0	0.0			--	32	--	SPACE ONLY
SPACE ONLY	--	--	33	--			0.0	0.0	--	34	--	SPACE ONLY
SPACE ONLY	--	--	35	--			0.0	0.0	--	36	--	SPACE ONLY
SPACE ONLY	--	--	37	--	0.0	0.0			--	38	--	SPACE ONLY
SPACE ONLY	--	--	39	--			0.0	0.0	--	40	--	SPACE ONLY
SPACE ONLY	--	--	41	--			0.0	0.0	--	42	--	SPACE ONLY

LOAD	Connected Load	Demand Factor	Estimated Demand	NOTES:
LIGHTS	3505 VA	125.00%	4381 VA	1. NO NEW BREAKERS REQUIRED. REUSE EXISTING BREAKERS.
HEATING	0 VA	0.00%	0 VA	2. BOLD INDICATES NEW LOADS.
COOLING	0 VA	0.00%	0 VA	
VENTILATION	0 VA	0.00%	0 VA	
MOTORS	1400 VA	112.50%	1575 VA	
KITCHEN	0 VA	0.00%	0 VA	
RECEPTACLES	0 VA	0.00%	0 VA	
WATER HEATER	0 VA	0.00%	0 VA	
MISC.	0 VA	0.00%	0 VA	
Spare	0 VA	0.00%	0 VA	

TOTAL KVA (CONNECTED): 4.9 kVA TOTAL PER PHASE (CONNECTED):
TOTAL KVA (DEMAND): 6.0 kVA 5.0 A 6.7 A 6.4 A
TOTAL AMP (CONNECTED): 6 A
TOTAL AMP (DEMAND): 7 A



SEAL: 11/01/2019

Union Station Mezzanine Office Fit Up
City of Raleigh Transit Division
510 W Martin St, Raleigh, NC 27601

1	PERMIT/BID SET	11/08/19
NO.	SUBMISSION	DATE
CHECKED BY:	MKG	
DRAWN BY:	RDH	
PROJECT NUMBER:	1908	
SHEET NAME:	ELECTRICAL SCHEDULES	
SHEET NUMBER:	E601	