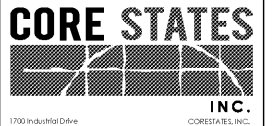




VERIZON WIRELESS
 NEXT GEN
 149 FITNESS WAY
 JOHNSON CITY, TN
 37604



1700 Industrial Drive
 Suite B
 Rogers, AR 72756
 479.866.4800
 www.corestatesinc.com

ENGINEER OF RECORD



ISSUE	DATE	DESCRIPTION
0	04/01/19	ISSUED FOR PERMIT/BID

PROJECT INFORMATION	
PROJECT NO:	V2W.26122
DATE:	AS NOTED
SCALE:	AS NOTED
DRAWN BY:	T. COATNEY
CHECKED BY:	K. CRAIG

SHEET TITLE
 ONE-LINE DIAGRAM AND PANEL SCHEDULES
 SHEET NUMBER
 E-5

PANELBOARD: B (EXISTING) EQUIPMENT GROUND BUS

BUS AMPS: 100A
 MAIN SIZE / TYPE: MLO
 VOLTS/PHASE: 208Y/120V, 3PH, 4W
 SERVES: TENANT
 LOCATION: ELEC/IT ROOM

CKT NO.	DESCRIPTION	VA/PHASE			WIRE NO.	BKR AMP	P	BKR AMP	WIRE NO.	VA/PHASE			DESCRIPTION	CKT NO.
		A	B	C						A	B	C		
1	4-XX REC	540			12	20	1	20		540			rec - telephone	2
3	3PK		360		12	20	1	20		900			rec - security	4
5	REC - NSLU/ 4-POS			900	12	20	1	20			1,200		rec - telco	6
7	COLAB TABLE	1,080			12	20	1	20		540			rec - bathrooms	8
9	REC - NSLU'S		720		12	20	1	20		360			rec - water cooler	10
11	EXP TABLE/ SPOT			540	12	20	1	20			900		rec - operations	12
13	4-XX FREESTANDING	360			12	20	1	20		720			rec - manager	14
15	DOUBLE DIGITAL DISPLAY		360		12	20	1	20			1,200		rec - refrigerator	16
17	rec - mobile web			540	20	1	20				540		rec - break room	18
19	rec - mobile web	540			20	1	20			360			rec - break room	20
21	rec - windows		360		20	1	20			1,080			rec - plug/mold	22
23	REC - POS AREA			360	12	20	1	20			1,080		rec - plug/mold	24
25	rec - seasonal	900			20	1	20			540			rec - service	26
27	DR REC/PIS		1,080		12	20	1	20			540		rec - service	28
29	DR REC/PIS			1,080	12	20	1	20			360		rec - service	30
31	EQ-OF REC/PIS	360			12	20	1	20		720			rec - service	32
33	REC - COPY/FAX/SHP/D		1,080		20	1	20			900			rec - inventory	34
35	rec - courier			360	20	1	20				540		rec - bill pay	36
37	rec - copier		540		20	1	20			540			rec - bill pay	38
39	rec - copy/fax			900	20	1	20			540			n/a	40
41	n/a				20	1	20				1,200		hvac unit - elec room	42

LOAD DESCRIPTIONS SHOWN AS LOWERCASE ARE CIRCUITS EXISTING TO REMAIN.

TENANT ELECTRICAL SERVICE LOAD SUMMARY

LOAD DESCRIPTION	Connected KVA	Demand Factor	Demand KVA
HVAC - SUMMER	48.60	100%	48.60
HVAC - WINTER	44.28	100%	0.00
LIGHTING (PER NEC-220)	13.50	125%	16.88
RECEPTACLES	28.14	100% 50%	19.07
MISCELLANEOUS EQUIPMENT	33.10	100%	33.10
DISPLAY CASE/SIGNAGE	7.20	125%	9.00
TOTAL LOAD	181.24	KVA	133.47
TOTAL AMPACITY	503.07	AMPS	370.48
SERVICE AMPACITY	600	AMPS	600
SPARE CAPACITY		AMPS	231

PANELBOARD: A (EXISTING) EQUIPMENT GROUND BUS

BUS AMPS: 200A
 MAIN SIZE / TYPE: MLO
 VOLTS/PHASE: 208Y/120V, 3PH, 4W
 SERVES: TENANT
 LOCATION: ELEC/IT ROOM

CKT NO.	DESCRIPTION	VA/PHASE			WIRE NO.	BKR AMP	P	BKR AMP	WIRE NO.	VA/PHASE			DESCRIPTION	CKT NO.
		A	B	C						A	B	C		
1	llg - ext/em	540			20	1	20		540			llg - wdl packs	2	
3	llg - back		540		20	1	20		540			llg - wdl packs	4	
5	llg - service			900	20	1	20					llg - parking	6	
7	llg - cust service	720			20	1	20		1,200			pylon sign	8	
9	llg - TRACK		360		12	20	1	20		1,200		pylon sign	10	
11	llg - SALES			644	12	20	1	20			1,080	water heater	12	
13	llg - SALES	464			20	1	20		540			n/a	14	
15	SPARE				20	1	20			540		rec - roof	16	
17	SPARE				20	1	20			1,200		sign - front	18	
19	SPARE				20	1	20		1,200			sign - n east	20	
21	SPARE				20	1	20		540			n/a	22	
23	llg - retail			720	20	1	20				900	sprinkler system	24	
25	llg - retail	900			20	1	20		540			photocell	26	
27	llg - near		720		20	1	20			360		llg - parking	28	
29	llg - near			720	20	1	20				720	llg - parking	30	
31	llg - near	720			20	1	20		540			n/a	32	
33	llg - near		540		20	1	20			720		n/a	34	
35	llg - near			540	20	1	20			1,200		sign - s west	36	
37	sign - near	1,200			20	1	20			360		n/a	38	
39	slump pump			3,600	20	1	20			540		n/a	40	
41	n/a				20	1	20				720	n/a	42	

LOAD DESCRIPTIONS SHOWN AS LOWERCASE ARE CIRCUITS EXISTING TO REMAIN.

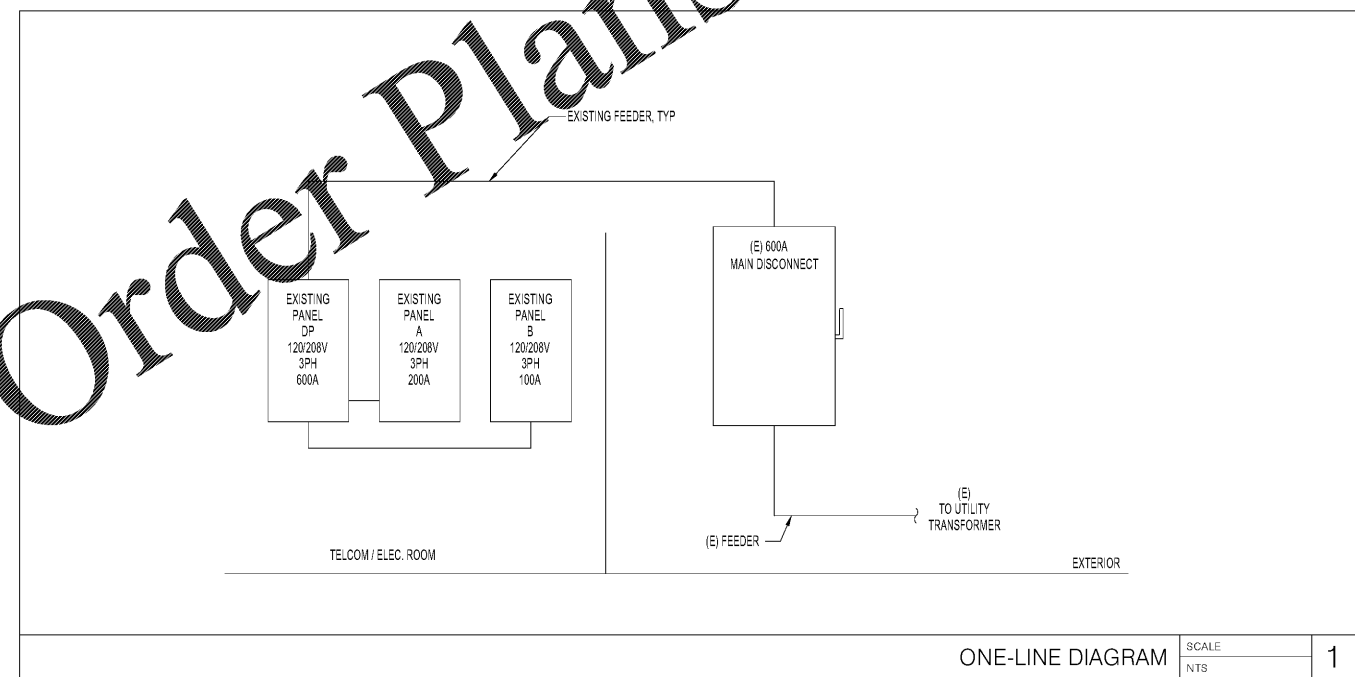
PANELBOARD: DP (EXISTING) EQUIPMENT GROUND BUS

BUS AMPS: 600A
 MAIN SIZE / TYPE: MLO
 VOLTS/PHASE: 208Y/120V, 3PH, 4W
 SERVES: STANDARD LOADS
 LOCATION: ELEC/IT ROOM

CKT NO.	DESCRIPTION	VA/PHASE			WIRE NO.	BKR AMP	P	BKR AMP	WIRE NO.	VA/PHASE			DESCRIPTION	CKT NO.
		A	B	C						A	B	C		
1									5,464				2	
3	space					3	200			10,200		panel a	4	
5											10,784		6	
7		7,200							7,200				8	
9	rlu-4		7,200		80	3	3	80		7,200		rlu-3	10	
11				7,200							7,200		12	
13		7,200							7,200				14	
15	rlu-1		7,200		80	3	3	80		7,200		rlu-2	16	
17				7,200							7,200		18	
19	space								8,280				20	
21	space					1	3	100		10,380		panel b	22	
23	space										10,140		24	
25	space					1	2	20		2,700		hvac-elec rm	26	
27	space									2,700			28	
29	space					1	2	50			6,700	vzw micro site oc #1	30	
31	space										6,700		32	
33	space					1	2	50			6,700	vzw micro site oc #2	34	
35	space										6,700		36	

LOAD DESCRIPTIONS SHOWN AS LOWERCASE ARE CIRCUITS EXISTING TO REMAIN.

Order Plans



ONE-LINE DIAGRAM SCALE NTS 1

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