

NEW PANEL MDP
 SUPPLY: 240/120V, 1-PHASE, 3 WIRE
 MAINS: 200A MCB
 INTERRUPT RATING: 22K AIC
 MOUNTING: SURFACE

TYPE: BRANCH CIRCUIT
 BUS MATERIAL: COPPER
 MANUFACTURER: SQ-D, Eaton, OR EQUAL

PHASE LOAD SUMMARY														
NOTE	DESCRIPTION	TRIP	POLE	WIRE	CCT	PHASE A	PHASE B	CCT	WIRE	POLE	TRIP	DESCRIPTION	NOTE	
	PANEL 'OP'	125	2	1	1	10.7	0.3	2	C	1	20	LTG-ENTRY/MEMBER		
	AC-1/CU-1	15	2	D	5	1.2	0.2	4	C	1	20	LTG-TRACK		
	WH-1	20	2	D	9	1.5	1.8	8	C	1	20	LTG-SALES AGENTS		
					7		1.2	0.4						
					11		1.5	1.8						
	SPARE	20	1		13	0.0	1.1	14	D	1	20	EGF-1		
	SPARE	20	1		15		0.0	1.8		D	2	30	CU-2	
	SPARE	20	1		17	0.0	1.8	18						
	SPARE	20	1		19		0.0	1.1	20	D	1	20	EGF-2	
	SPARE	20	1		21	0.0	0.0	22						
	SPARE	20	1		23		0.0	0.0	24		1	20	SPARE	
	SPACE WITH BUSSING		1		25	0.0	0.0	26		1		SPACE WITH BUSSING		
	SPACE WITH BUSSING		1		27		0.0	0.0	28		1	SPACE WITH BUSSING		
	SPACE WITH BUSSING		1		29	0.0	0.0	30		1		SPACE WITH BUSSING		
	SPACE WITH BUSSING		1		31		0.0	0.0	32		1	SPACE WITH BUSSING		
	SPACE WITH BUSSING		1		33	0.0	0.0	34		1		SPACE WITH BUSSING		
	SPACE WITH BUSSING		1		35		0.0	0.0	36		1	SPACE WITH BUSSING		
	SPACE WITH BUSSING		1		37	0.0	0.0	38		1		SPACE WITH BUSSING		
	SPACE WITH BUSSING		1		39		0.0	0.0	40		1	SPACE WITH BUSSING		
	SPACE WITH BUSSING		1		41	0.0	0.0	42		1		SPACE WITH BUSSING		

TOTAL KVA PER PHASE: 18.5, 20.1
 DIVERSIFIED KVA PER PHASE: 16.4, 18.0
 DIVERSIFIED TOTAL KVA: 34.4 KVA
 MAXIMUM AMPS HEAVIEST PHASE (DIVERSIFIED): 150.0 AMPS

NEC 220 LOAD JUSTIFICATION

LIGHTING	125%	1.4
HEATING	100%	2.2
AIR HANDLERS	100%	2.3
AIR CONDITIONING	100%	7.1
RECEPTACLES	1st 10kVA = 100% +50% OF REMAINING	14.5
MINUS NEC DEMAND		0.0
EQUIPMENT	100%	3.0
PROCESS	100%	0.0
MISCELLANEOUS	100%	3.9

PANEL KEY NOTES
 1. WITH EQUIPMENT GROUND BUS
 2. PROVIDE A TYPEWRITTEN DIRECTORY.
 3. UL SERVICE ENTRANCE.

PANEL KEY NOTES
 A. PROVIDE A GFCI BREAKER.
 B. PROVIDE A SHUNT TRIP BREAKER.
 C. SEE CONDUCTOR SIZING TABLE FOR WIRING.
 D. SEE EQUIPMENT SCHEDULE FOR WIRING.

NEW PANEL OP
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PHASE LOAD SUMMARY													
NOTE	DESCRIPTION	TRIP	POLE	WIRE	CCT	PHASE A	PHASE B	CCT	WIRE	POLE	TRIP	DESCRIPTION	NOTE
	REC-MEMBER REPS	20	1	C	1	0.5	0.5	2	C	1	20	REC-WAITING	
	REC-MEMBER REPS	20	1	C	3		0.5	1.0	4	C	1	20	REC-MFP
	REC-OFFICE	20	1	C	5	0.5	1.7	6	C	1	20	REC-SHOW WINDOW	
	REC-SALES AREA	20	1	C	7		0.4	1.0	8	C	1	20	REC-COFFEE
	REC-SALES AGENTS	20	1	C	9	0.5	0.0	10		1	20	SPARE	
	REC-SALES AGENTS	20	1	C	11		0.5	0.0	12		1	20	SPARE
	REC-SALES AGENTS	20	1	C	13	0.2	1.4	14	C	1	20	REC-SHOW WINDOW	
	REC-RESTROOMS	20	1	C	15		0.7	1.6	16	C	1	20	REC-SHOW WINDOW
	REC-BREAK ROOM	20	1	C	17	0.4	0.5	18		1	20	REC-REMITTANCE	
	REC-BREAK ROOM	20	1	C	19		0.2	1.5	20	C	1	20	REC-MICROWAVE
(A)	REC-DISPOSAL	20	1	C	21	1.0	1.0	22	C	1	20	REC-REFRIGERATOR	(A)
	REC-DATA RACK	20	1	C	23		1.0	1.0	24	C	1	20	EWG
	REC-ELEC/DATA	20	1	C	25	0.4	0.4	26	C	1	20	REC-ELEC/DATA	
	ALARM PAD	20	1	C	27		0.4	0.4	28	C	1	20	REC-ELEC/DATA
	SIGNAGE	20	1	C	29	1.5	0.2	30	C	1	20	REC-ROOFTOP	
	REC-U.C. REFRIG	20	1	C	31		1.0	1.0	32	C	1	20	(FUTURE) REC-MFP
	SPARE	20	1		33	0.0	0.0	34		1	20	SPARE	
	SPARE	20	1		35		0.0	0.0	36		1	20	SPARE
	SPARE	20	1		37	0.0	0.0	38		1	20	SPARE	
	SPACE WITH BUSSING		1		39		0.0	0.0	40		1	SPACE WITH BUSSING	
	SPACE WITH BUSSING		1		41	0.0	0.0	42		1		SPACE WITH BUSSING	

TOTAL KVA PER PHASE: 10.7, 12.1
 DIVERSIFIED KVA PER PHASE: 8.5, 9.8
 DIVERSIFIED TOTAL KVA: 18.4 KVA
 MAXIMUM AMPS HEAVIEST PHASE (DIVERSIFIED): 82.0 AMPS

NEC 220 LOAD JUSTIFICATION

LIGHTING	100%	0.0
HEATING	100%	0.0
AIR HANDLERS	100%	0.0
AIR CONDITIONING	100%	0.0
RECEPTACLES	1st 10kVA = 100% +50% OF REMAINING	14.5
MINUS NEC DEMAND		0.0
EQUIPMENT	100%	0.0
PROCESS	100%	0.0
MISCELLANEOUS	100%	3.9

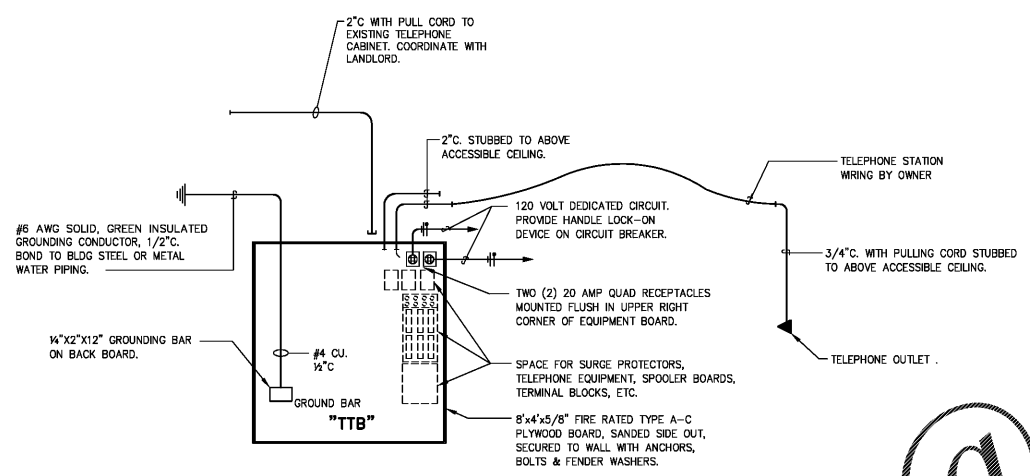
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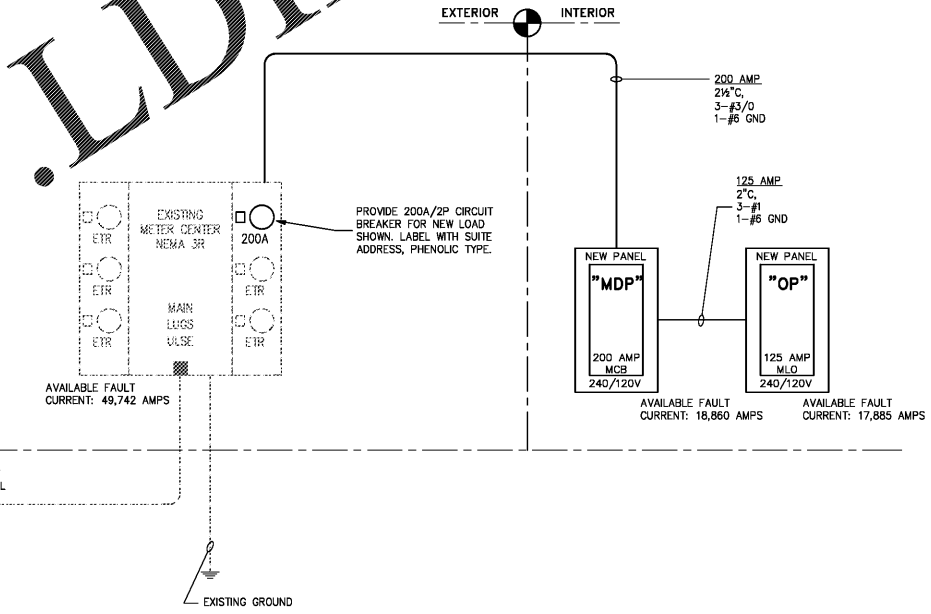
COLUMBUS
 AAA RETAIL CENTER
 6201 Veterans Pkwy, Suite C, Columbus, GA 31909



AVAILABLE SHORT CIRCUIT FAULT CURRENT & COORDINATION STUDY

BASED ON INFORMATION PROVIDED BY THE UTILITY COMPANY, THE CALCULATED MAXIMUM FAULT CURRENT AVAILABLE AT THE POINT OF SERVICE IS 49,742 AMPS. ALL EQUIPMENT SHALL BE COORDINATED TO PROVIDE NO LESS THAN THE AVAILABLE FAULT CURRENT. THE CONTRACTOR AND EQUIPMENT SUPPLIERS SHALL PERFORM AND PROVIDE ALL COORDINATION STUDIES AND ANALYSIS STUDIES REQUIRED BY THE NATIONAL ELECTRICAL CODE (NEC) 242 AND 430.999 FOR ALL REQUIRED SYSTEMS. REPORTS OF THESE STUDIES SHALL BE PROVIDED TO ENGINEER, INSPECTIONS DEPARTMENT AND OWNER.

CALCULATION BASED ON THE FOLLOWING ASSUMPTIONS:
 LARGEST UTILITY SYSTEM WITH AN INFINITE BUSS
 UTILITY TRANSFORMER 500 KVA WITH AN IMPEDANCE OF 2.8%



LINE TYPE LEGEND

SOLID LINETYPE	INDICATES NEW CONSTRUCTION.
DASHED LINETYPE	INDICATES EXISTING CONSTRUCTION TO REMAIN.
DASH-DOT LINETYPE	INDICATES FUTURE CONSTRUCTION.

Order Plans @

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ISSUANCE
 ISSUED FOR CONSTRUCTION
 2019/11/13

REVISIONS
 NO. DATE DESCRIPTION

FILE NUMBER 19199
PROJECT MANAGER CAD
PROFESSIONAL CAD
DRAWN BY CLE
CHECKED BY BOW