NO.	DATE	DESCRIPTION	BY
1	8/29/07	REVISION #1	FLS

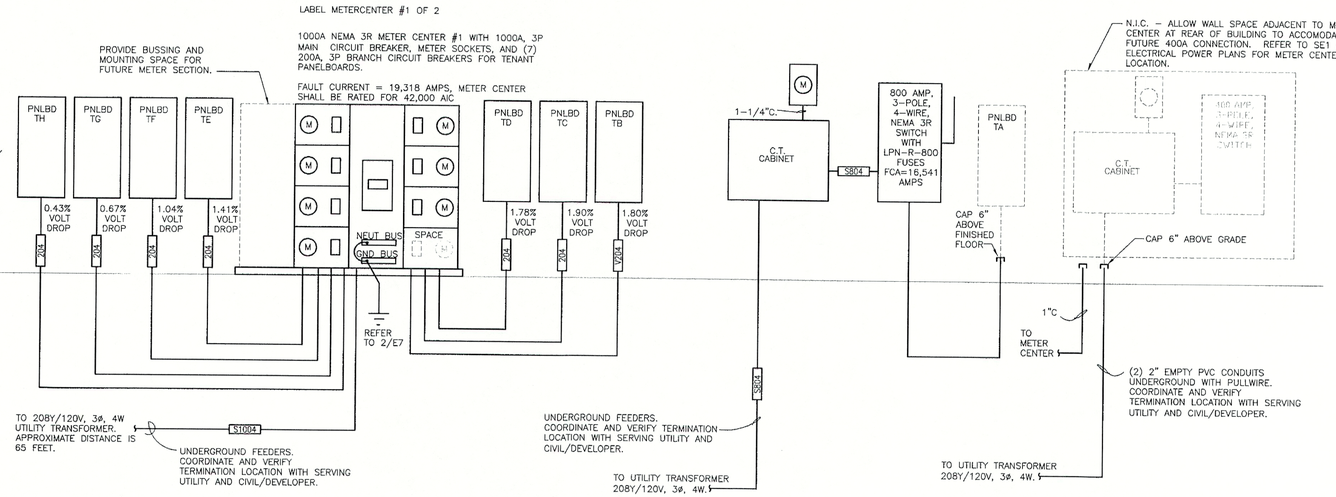
REVISION

DDG DUPLANTIS DESIGN GROUP, PC
Respect • Integrity • Client Satisfaction • Excellence
Civil Engineering • Site Development • Land Planning • Public Administration
THIBODAUX, LOUISIANA 70301
314 East Bayou Road
Thibodaux, Louisiana 70301
MANDEVILLE, LOUISIANA
Phone: 985.447.5000
Fax: 985.447.7009

REFER TO PANELBOARD SCHEDULES FOR FAULT CURRENTS AND AIC RATINGS.

THE CALCULATED AVAILABLE FAULT CURRENT IS 22,292 AMPS. SHORT CIRCUIT VALUES ARE BASED ON INFINITE BUS, IMPEDENCE OF 4% A 300KVA PAD MOUNTED UTILITY TRANSFORMER, AND SERVICE ENTRANCE LATERAL LENGTH OF 65'-0". COORDINATE WITH ELECTRICAL UTILITY COMPANY AND CIVIL DRAWINGS. ADJUST THE AIC RATING OF ALL PANELBOARDS IF THE ACTUAL AVAILABLE FAULT CURRENT FROM THE UTILITY COMPANY IS GREATER THAN THE CALCULATED VALUE. DO NOT REDUCE AIC RATINGS IF LESS THAN CALCULATED VALUE.

COORDINATE CONDUIT AND CONDUCTOR TERMINATION REQUIREMENTS AT THE TRANSFORMER WITH THE LOCAL ELECTRIC UTILITY COMPANY.



CIRCUIT SCHEDULE:

ALL CONDUCTOR SIZES ARE BASED ON 75 DEG C RATED TERMINATION AND COPPER CONDUCTORS WITH TYPE THHN/THWN-2 INSULATION. WHERE ALUMINUM CONDUCTORS ARE ALLOWED PER SPECIFICATIONS AND FOR TERMINATION OR INSULATION TYPES RATED LESS THAN 75 DEG C, MODIFY SIZES ACCORDING TO NFPA 70.

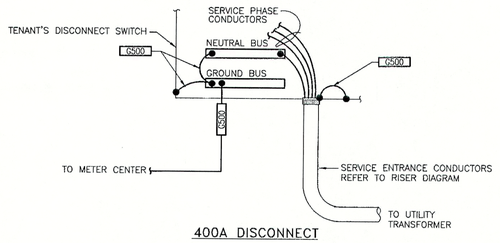
204	200A, (4)#3/0, (1)#6G, 2" C
224	225A, (4)#4/0, (1)#4G, 2-1/2" C
G000	**1" CONDUIT FOR FUTURE GROUND**
G1200	GND, #3/0 COPPER GROUND, 1" C
G150	GND, #6 COPPER GROUND, 3/4" C
G200	GND, #4 COPPER GROUND, 3/4" C
G500	GND, #1/0 COPPER GROUND, 1" C
G600	GND, #2/0 COPPER GROUND, 1" C
S1004	1000A, (3) 3" C, EACH W/ (4)-400kcmil
S404	400A, (2) 2" C, EACH W/ (4)#3/0
S804	800A, (3) 3" C, EACH W/ (4)-300kcmil
V204	200A, (4)#4/0, (1)#4G, 2-1/2" C

2 ELECTRICAL RISER DIAGRAM METER CENTER #1
NO SCALE

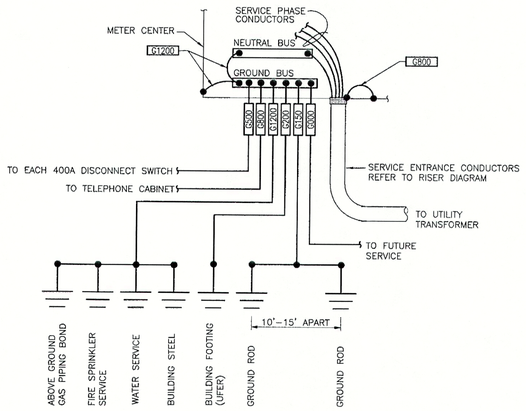
METER CENTER #1 ELECTRICAL SERVICE LOAD SUMMARY

BUILDING OCCUPANCY TYPE: M	SERVICE DESCRIPTION:
BUILDING SQUARE FOOTAGE: 19,040	208Y/120V, 3PH, 4W

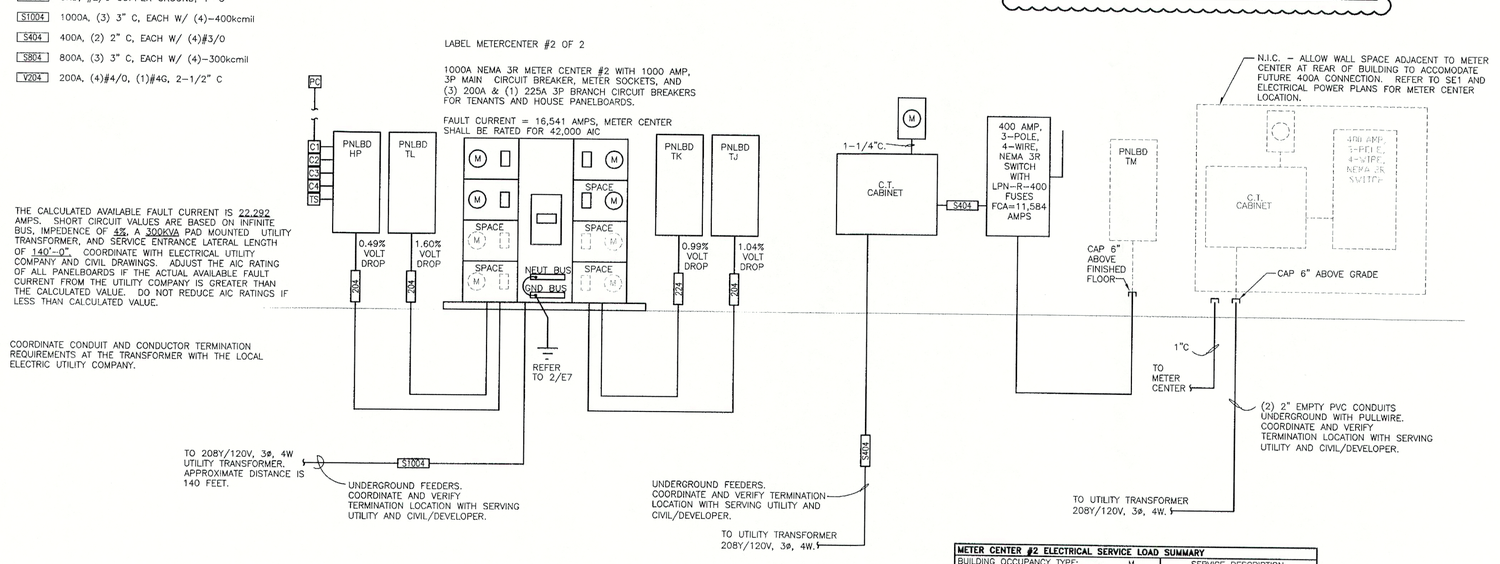
LOAD DESCRIPTION	Connected KVA	Demand FACTOR	Demand KVA
HVAC - SUMMER	85.25	100%	85.25
HVAC - WINTER	0.00	100%	0.00
LIGHTING (PER NEC-220)	57.12	125%	71.40
RECEPTACLES	13.86	100%,50%	11.93
MOTOR LOADS	18.15	100%	18.15
LARGEST MOTOR LOAD	3.96	125%	4.95
SUPPLEMENTAL ELECTRIC HEAT	14.98	100%	14.98
MISCELLANEOUS EQUIPMENT	6.28	100%	6.28
SHOW WINDOW / TRACK LIGHTING	36.00	PER NEC	45.00
TOTAL LOAD	235.60	KVA	257.94
TOTAL AMPACITY	653.96	AMPS	715.97
SERVICE AMPACITY	1000	AMPS	1000.00
SPARE CAPACITY		AMPS	284



400A DISCONNECT



3 SERVICE GROUNDING DETAIL FOR METER CETERS#1 & #2
NOT TO SCALE



1 ELECTRICAL RISER DIAGRAM METER CENTER #2
NO SCALE

METER CENTER #2 ELECTRICAL SERVICE LOAD SUMMARY

BUILDING OCCUPANCY TYPE: M	SERVICE DESCRIPTION:
BUILDING SQUARE FOOTAGE: 15,700	208Y/120V, 3PH, 4W

LOAD DESCRIPTION	Connected KVA	Demand FACTOR	Demand KVA
HVAC - SUMMER	81.09	100%	81.09
HVAC - WINTER	0.00	100%	0.00
LIGHTING (PER NEC-220)	47.10	125%	58.88
RECEPTACLES	9.84	100%,50%	9.84
MOTOR LOADS	14.60	100%	14.60
LARGEST MOTOR LOAD	3.96	125%	4.95
SUPPLEMENTAL ELECTRIC HEAT	4.50	100%	4.50
MISCELLANEOUS EQUIPMENT	4.51	100%	4.51
DISPLAY CASE/SIGNAGE	27.60	125%	34.50
SHOW WINDOW / TRACK LIGHTING	23.20	PER NEC	29.00
EXTERIOR LIGHTING	17.13	125%	21.41
TOTAL LOAD	233.54	KVA	263.28
TOTAL AMPACITY	648.23	AMPS	730.80
SERVICE AMPACITY	1000	AMPS	1000.00
SPARE CAPACITY		AMPS	269

HENDERSON ENGINEERS
8325 LENEXA DRIVE
LENEXA, KS 66214
TEL 913 742 5000 FAX 913 742 5001
www.hei-eng.com
0750001106

SIGNATURE:

DATE:

STAMP: STATE OF LOUISIANA, CRAIG R. LARKIN, REG. No. 25558, REGISTERED PROFESSIONAL ENGINEER IN ELECTRICAL ENGINEERING, 8-28-07

PROPOSED RETAIL DEVELOPMENT
CITY OF BOUTTE
ST. CHARLES PARISH, LOUISIANA
FOR THE SPECTRA GROUP, INC.
MEMPHIS, TENNESSEE

DRAWN	FLS
CHECKED	MH
DATE	8/13/07
SCALE	AS NOTED ON DWG
PROJECT NO.	0750001106
FILE	0750001106E7.DWG
SHEET	E7

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