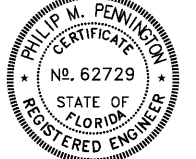




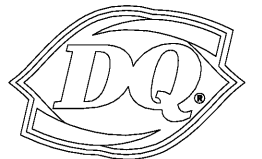
JAMES E. WILKERSON
A.I.A.

119 East Tallulah Drive
Greenville, S.C. 29605
864-370-2582
864-240-5375 f



FLA REG. PE 62729
JOB NO. 202016

DQ GRILL & CHILL
US HWY 90 (LOT 2)
GLEN ST MARY, FL
32040



GRILL & CHILL

AMERICAN DAIRY QUEEN
MINNEAPOLIS, MN U.S.A.

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AMERICAN DAIRY QUEEN CORPORATION.
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INVENTION ARE THE PROPERTY OF
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BUILDING TYPE:
DAIRY QUEEN GRILL & CHILL
CORE66
STORE No. 45961

DRAWN, CHECKED, & APPROVED BY: ADQ
DESIGN-ARCHITECTURE-CONSTRUCTION
(DAC) DEPARTMENT

THIS IS "PLAN" NORTH
FOR ACTUAL BUILDING
ORIENTATION REFER TO
SITE PLAN (BY OTHERS)

ISSUE DATE: 10/30/2020

REVISION DATE:

10/30/2020 ISSUE FOR CONSTRUCTION

- Revision symbols: triangles with numbers 1 through 5

ELECTRICAL
SCHEDULES

SHEET NUMBER:

E4

ELECTRICAL PANEL LA. Table with columns: LOAD SERVED, CKT #, TYPE, BKR TRIP, WIRE SIZE, PHASE A, PHASE B, PHASE C, WIRE SIZE, BKR TRIP, TYPE, CKT #, LOAD SERVED. Includes items like SPARE, BURGER HOLDING CABINET, BAKES HOLDING CABINET, BURGER PREP TABLE, SPARE, BLAST FREEZER, WALK-IN FREEZER COMPRESSOR, WATER HEATERS, DOOR PNL. CTRL. LIGHTS, COOLER EVAPORATOR, FREEZER EVAPORATOR, HEAT TAPE, SPARE, BURGER CELL BUN TOASTER, BAKES PREP TABLE, SPARE.

TOTAL VA PHASE A: 5427, TOTAL VA PHASE B: 3919, TOTAL VA PHASE C: 6119, TOTAL VOLT-AMPS: 51355

DIVIDE TOTAL VOLT-AMPS BY SYSTEM VOLTAGE (PHASE TO PHASE): 208, 247; DIVIDE AMPS BY 3 PHASE MULTIPLIER: 1.732, 143; TOTAL CONNECTED LOAD (AMPS): 143; MAIN TYPE AND AMPERE RATING: 225 AMP MAIN LUGS ONLY

NOTES: *GFCI - DENOTES CLASS A GFCI TYPE CIRCUIT BREAKER; *D - DENOTES TYPE D CIRCUIT BREAKER; *ST - DENOTES CIRCUIT BREAKER WITH SHUNT TRIP MODULE; *L - DENOTES BREAKER LOCK-ON DEVICE; *SWD - DENOTES BREAKER SWITCH DUTY RATED; NOTE: PROVIDE CIRCUIT BREAKER MARKED WITH "HACR" WHERE SERVING HEATING, AIR CONDITIONING OR REFRIGERATION EQUIPMENT...

ELECTRICAL PANEL LC. Table with columns: LOAD SERVED, CKT #, TYPE, BKR TRIP, WIRE SIZE, PHASE A, PHASE B, PHASE C, WIRE SIZE, BKR TRIP, TYPE, CKT #, LOAD SERVED. Includes items like SOFTSERVE MACHINE UNIT B BARREL 1, SOFTSERVE MACHINE UNIT B BARREL 2, SPARE, ROOF TOP OUTLETS, HAND DRYER, SPARE, WALK-IN COOLER COMPRESSOR.

TOTAL VA PHASE A: 4552, TOTAL VA PHASE B: 6172, TOTAL VA PHASE C: 5452, TOTAL VOLT-AMPS: 64476

DIVIDE TOTAL VOLT-AMPS BY SYSTEM VOLTAGE (PHASE TO PHASE): 208, 310; DIVIDE AMPS BY 3 PHASE MULTIPLIER: 1.732, 179; TOTAL CONNECTED LOAD (AMPS): 179; MAIN TYPE AND AMPERE RATING: 225 AMP MAIN LUGS ONLY

NOTES: *GFCI - DENOTES CLASS A GFCI TYPE CIRCUIT BREAKER; *D - DENOTES TYPE D CIRCUIT BREAKER; *ST - DENOTES CIRCUIT BREAKER WITH SHUNT TRIP MODULE; *L - DENOTES BREAKER LOCK-ON DEVICE; *SWD - DENOTES BREAKER SWITCH DUTY RATED; NOTE: PROVIDE CIRCUIT BREAKER MARKED WITH "HACR" WHERE SERVING HEATING, AIR CONDITIONING OR REFRIGERATION EQUIPMENT...

ELECTRICAL PANEL LE. Table with columns: LOAD SERVED, CKT #, TYPE, BKR TRIP, WIRE SIZE, PHASE A, PHASE B, PHASE C, WIRE SIZE, BKR TRIP, TYPE, CKT #, LOAD SERVED. Includes items like EXIT/NIGHT/EMERG. LIGHTS, KITCHEN LIGHTING, SPARE, DINING AREA LIGHTING, HAND DRYER, RESTROOM LIGHTING/EF-3, HAND DRYER, DINING AREA LIGHTING, HOOD LIGHTING, POS/COMMUNICATIONS, SPARE, POS/COMMUNICATIONS, MENU BOARD, MENU BOARD, SPARE, ANSUL SYSTEM, EXPEDITER.

TOTAL VA PHASE A: 2246, TOTAL VA PHASE B: 4345, TOTAL VA PHASE C: 1973, TOTAL VOLT-AMPS: 18210

DIVIDE TOTAL VOLT-AMPS BY SYSTEM VOLTAGE (PHASE TO PHASE): 208, 88; DIVIDE AMPS BY 3 PHASE MULTIPLIER: 1.732, 51; TOTAL CONNECTED LOAD (AMPS): 51; MAIN TYPE AND AMPERE RATING: 225 AMP MAIN LUGS ONLY

NOTES: *GFCI - DENOTES CLASS A GFCI TYPE CIRCUIT BREAKER; *D - DENOTES TYPE D CIRCUIT BREAKER; *ST - DENOTES CIRCUIT BREAKER WITH SHUNT TRIP MODULE; *L - DENOTES BREAKER LOCK-ON DEVICE; *SWD - DENOTES BREAKER SWITCH DUTY RATED; NOTE: PROVIDE CIRCUIT BREAKER MARKED WITH "HACR" WHERE SERVING HEATING, AIR CONDITIONING OR REFRIGERATION EQUIPMENT...

ELECTRICAL PANEL LB. Table with columns: LOAD SERVED, CKT #, TYPE, BKR TRIP, WIRE SIZE, PHASE A, PHASE B, PHASE C, WIRE SIZE, BKR TRIP, TYPE, CKT #, LOAD SERVED. Includes items like C.O./OPTIONAL BLENDER, HEATED CHEESE PUMP, STAGING CART, SINGLE LN., FRY CELL TOASTER, CARBONATORS, CONVENIENCE OUTLET, BLIZZARD TOPPING CABINET, GRAY PUMP, GRAY PUMP, TREATS TOPPING CABINET, HOT FUDGE PUMP, CONE DIP, HOT FUDGE PUMP, BLIZZARD MACHINE, BLIZZARD MACHINE, DINING DRINK HEAD, DINING TEA DISPENSER, DINING WATER FILTER, CONVENIENCE OUTLET.

TOTAL VA PHASE A: 8690, TOTAL VA PHASE B: 7240, TOTAL VA PHASE C: 4780, TOTAL VOLT-AMPS: 37690

DIVIDE TOTAL VOLT-AMPS BY SYSTEM VOLTAGE (PHASE TO PHASE): 208, 105; DIVIDE AMPS BY 3 PHASE MULTIPLIER: 1.732, 105; TOTAL CONNECTED LOAD (AMPS): 105; MAIN TYPE AND AMPERE RATING: 225 AMP MAIN LUGS ONLY

NOTES: *GFCI - DENOTES CLASS A GFCI TYPE CIRCUIT BREAKER; *D - DENOTES TYPE D CIRCUIT BREAKER; *ST - DENOTES CIRCUIT BREAKER WITH SHUNT TRIP MODULE; *L - DENOTES BREAKER LOCK-ON DEVICE; *SWD - DENOTES BREAKER SWITCH DUTY RATED; NOTE: PROVIDE CIRCUIT BREAKER MARKED WITH "HACR" WHERE SERVING HEATING, AIR CONDITIONING OR REFRIGERATION EQUIPMENT...

MDP. Table with columns: LOAD SERVED, CKT #, TYPE, BKR TRIP, WIRE SIZE, PHASE A, PHASE B, PHASE C, WIRE SIZE, BKR TRIP, TYPE, CKT #, LOAD SERVED. Includes items like ELECTRICAL PANEL "LA", ELECTRICAL PANEL "LB", PREPARED SPACE.

TOTAL VA PHASE A: 28553, TOTAL VA PHASE B: 29921, TOTAL VA PHASE C: 30571, TOTAL VOLT-AMPS: 186391

DIVIDE TOTAL VOLT-AMPS BY SYSTEM VOLTAGE (PHASE TO PHASE): 208, 944; DIVIDE AMPS BY 3 PHASE MULTIPLIER: 1.732, 545; TOTAL CONNECTED LOAD (AMPS): 545; MAIN TYPE AND AMPERE RATING: 600 AMP MAIN LUGS ONLY

NOTES: *GFCI - DENOTES CLASS A GFCI TYPE CIRCUIT BREAKER; *D - DENOTES TYPE D CIRCUIT BREAKER; *ST - DENOTES CIRCUIT BREAKER WITH SHUNT TRIP MODULE; *L - DENOTES BREAKER LOCK-ON DEVICE; *SWD - DENOTES BREAKER SWITCH DUTY RATED; NOTE: PROVIDE CIRCUIT BREAKER MARKED WITH "HACR" WHERE SERVING HEATING, AIR CONDITIONING OR REFRIGERATION EQUIPMENT...

NOTES: 1. THE ELECTRICAL CONTRACTOR SHALL MARK THE SERVICE EQUIPMENT IN THE FIELD WITH THE MAXIMUM AVAILABLE FAULT CURRENT FOUND ON SHEET E4. THE FIELD MARKING(S) SHALL INCLUDE THE DATE THE FAULT CURRENT CALCULATION WAS PERFORMED AND BE OF SUFFICIENT DURABILITY TO WITHSTAND THE ENVIRONMENT INVOLVED. NEC 110.24(A) 2. ARC FLASH WARNING LABELS REQUIRED ON ALL EQUIPMENT DESIGNATED IN 2014 NEC, ART. 110.16

DAIRY QUEEN CORE66. NEC LOAD ANALYSIS - 500 AMP, 120/208V, 3PH, 4 WIRE ELECTRICAL SERVICE. Table with columns: ITEM, CONN. LOAD (VA), DEMAND F, DEMAND LOAD (WATTS), TOTAL (AMPS). Includes items like LIGHTING, FIRST 10KW RECEIPT, REMAINING RECEIPT, WATER HEATERS, KITCHEN EQUIPMENT, MISC. LOADS, HVAC LOADS, SUB-TOTAL, 25% OF LARGEST MOTOR, TOTAL.

PANEL SCHEDULE & SERVICE CALCULATION