

GENERAL NOTES:

- A. REFER TO [HTTP://EXTRANET.DUNKINBRANDS.COM](http://extranet.dunkinbrands.com) FOR A LISTING OF APPROVED POS VENDORS BY CONCEPT.
- B. FINAL POS DRAWINGS NEED TO BE PROVIDED TO POS VENDOR THAT IS SELECTED.
- C. POS VENDORS REQUIRE DEDICATED ISOLATED GROUNDED (DIG) OUTLETS ON A 20 AMP CIRCUIT DEDICATED ONLY TO POS EQUIPMENT. 80%+ 120V+10%. ALL POS TERMINALS AND VIDEO DISPLAY DEVICES REQUIRE A DUPLEX OUTLET. THE BACK OFFICE CONTROL PANEL REQUIRES A QUAD OUTLET. THE NETWORK SWITCH REQUIRES A DUPLEX. IF FEDERAL, STATE, AND LOCAL WIRING CODES DO NOT MEET THIS REQUIREMENT, CONTACT THE POS VENDOR FOR INFORMATION ON ADDITIONAL EQUIPMENT THAT CAN BE PURCHASED TO MEET THIS REQUIREMENT. IF THIS REQUIREMENT IS NOT MET, THE POS SYSTEM WARRANTY IS INVALID.
- D. ALL POWER INDICATED ON THIS PLAN MUST HAVE A THIRD WIRE, ISOLATED GROUND, AND BE TERMINATED WITHIN (4) FEET OF THE DEVICE.
- E. IG-5362 RECEPTACLES MUST BE USED FOR ALL POS UNITS. VDU UNITS AND SITE CONTROLLER UNIT (IN OFFICE), LABEL RECEPTACLES "POS ONLY".
- F. LOW VOLTAGE WIRE IS REQUIRED TO BE CATEGORY 5 CABLE RUN IN 1/2" CONDUIT FOR POS EQUIPMENT ONLY, AND MUST BE TERMINATED WITH RJ45 JACKS. ALL POS EQUIPMENT LINES TERMINATE AT THE FRONT COUNTER CHASE.
- G. A 12" MINIMUM SEPARATION MUST BE MAINTAINED BETWEEN LOW VOLTAGE WIRES AND POWER WIRING (TO AVOID ELECTRICAL INTERFERENCE).
- H. BRAND REQUIREMENTS DICTATE THAT A MINIMUM OF THREE CONDUITS BE USED FOR DATA LINES BETWEEN THE OFFICE AND OTHER PARTS OF THE STORE. ONE CONDUIT IS TO BE DEDICATED TO POS WIRING, ONE FOR DIGITAL MENUBOARD DATA LINES, AND ANOTHER FOR NON-POS ITEMS (I.E. SECURITY CAMERAS, DT TIMERS, HEAD SET WIRING).
- I. EXACT # OF RECEPTACLES ON OFFICE MUST BE COORDINATED ON A PROJECT-BY-PROJECT BASIS IN TERMS OF EQUIPMENT LOCATED IN THE OFFICE.
- J. ALL CEILING MOUNTED VDUS TO BE SUSPENDED FROM UNISTRUT BY THREADED ROD W/ WHITE PVC BLEEVE. GONNEGT UNISTRUT TO ROOF STRUCTURE. VDU BY POS VENDOR, UNISTRUT & THREADED ROD BY G.C. UNISTRUT TO SUPPORT MINIMUM 50 LB. WEIGHT.
- K. VDU MOUNTING HEIGHTS (TO BOTTOM OF MONITOR) ARE AS FOLLOWS:
 - a. SANDWICH STATION - 88" A.F.F.
 - b. DRIVE THRU - 84" A.F.F.
- L. DIGITAL MENUBOARD PREP WIRING:
 - a. PROVIDE BOX, PLATE AND 1/2" DIA. CONDUIT FROM FROM (2) QUAD DATA OUTLETS IN MENUBOARD OFFICE TO (2) QUAD DATA OUTLETS IN OFFICE WALL. PROVIDE PULL STRING IN EACH CONDUIT (DAT-5 CABLES AND FINAL DATA CONNECTIONS BY DMB VENDOR).

POS - COMMUNICATIONS

- EQUIPMENT NOTES:**
1. VDU HEIGHT TO BE COORDINATED WITH EQUIPMENT AND SIGNAGE (SEE ELEVATIONS). G.C. IS TO PROVIDE SOLID IN-WALL BLOCKING FOR THE VDU AS REQUIRED.
 2. ONLY REQUIRED EQUIPMENT IS VISUALLY REPRESENTED AND TAGGED IS SHOWN ON THIS FLOOR PLAN. OPTIONAL EQUIPMENT IS TAGGED BUT NOT SHOWN GRAPHICALLY.
- HIGH SPEED SYSTEM NOTES:**
- BEFORE HIGH SPEED CAN BE INSTALLED AT THE SITE, THE FOLLOWING ITEMS MUST BE IN PLACE PRIOR TO THE INSTALLATION. THESE ELEMENTS NEED TO BE IN PLACE 6-7 WEEKS BEFORE THE STORE OPENING TO ENSURE HIGH SPEED CONNECTIVITY.
1. SINGLE, 2" DEDICATED CONDUIT FROM BUILDING TO CURB, W/ 3-4 PULL STRINGS.
 2. FRAMED OFFICE IN A BUILDING THAT HAS A ROOF. CEMENT FLOORS AND EXTERIOR WALLS. ENSURE RECEPTACLE IN PLACE AND POWERED FOR ROUTER CONNECTION.
 3. GROUNDED ELECTRICAL (QUAD OUTLET) - THE FOLLOWING IS A LIST OF ACCEPTABLE GROUNDS IN ORDER OF PREFERENCE:
 - a. BUILDING SERVICE GROUND (MAIN GROUND ELECTRODE SYSTEM)
 - b. MAIN ELECTRIC BOX
 - c. BUILDING STEEL
 - d. WATER PIPE (AN ACCEPTABLE WATER PIPE IS A METAL UNDERGROUND WATER PIPE IN DIRECT CONTACT WITH THE EARTH FOR 10 FEET OR MORE AND ELECTRICALLY CONTINUOUS TO THE POINT WHERE THE PROTECTOR GROUND IS INSTALLED)
- MARCH SURVEILLANCE SYSTEM NOTES:**
1. DEDICATED RECEPTACLE REQUIRED, 24" A.F.F.
 2. CLEAR WALL SPACE REQUIRED = 24" X 24" TO HANG DVR. REFER TO MANUFACTURER'S SPECIFICATION SHEET. UNIT IS DOCKED IN A LOCKABLE BRACKET WHICH ALLOWS UNIT TO SLIDE OUT.
 3. A DEDICATED PORT (#2) ON MNS ROUTER IS ASSIGNED TO MARCH SYSTEMS.
 4. DUNKIN BRANDS REQUIRES A MINIMUM OF ONE (1) CAMERA PER REGISTER TO BE CONSIDERED AS A COMPLIANT INSTALLATION.

ELECTRICAL WIRING METHOD

- A. ALL CONDUIT SHALL BE RUN CONCEALED IN SO FAR AS IS PRACTICABLE. CONDUITS SHALL BE EXPOSED ONLY WHERE SO INDICATED ON THE DRAWINGS OR IN UNFINISHED AREAS SUCH AS ELECTRICAL AND BOILER ROOMS.
- B. MINIMUM CONDUIT SIZE SHALL BE 3/4" UNLESS NOTED OTHERWISE ON THE PLANS.
- C. RIGID METAL CONDUIT: HOT DIPPED GALVANIZED, MILD STEEL PIPE, ZINC COATED THREADS WITH AN OUTER COATING OF ZINC BICHROMATE, AS MANUFACTURED BY TRIANGLE, REPUBLIC, WHEATLAND OR EQUAL.
- D. INTERMEDIATE METAL CONDUIT (IMC): HOT DIPPED GALVANIZED, MILD STEEL PIPE, ZINC COATED THREADS WITH AN OUTER COATING OF ZINC BICHROMATE AS MANUFACTURED BY TRIANGLE, REPUBLIC, WHEATLAND OR EQUAL.
- E. FLEXIBLE METAL CONDUIT: GALVANIZED OR ZINC METALIZED STEEL, SINGLE STRIP INTERLOCKED CONSTRUCTION AS MANUFACTURED BY TRIANGLE, ANACONDA, AMERICAN FLEXIBLE CONDUIT, ELECTRIC-FLEX, OR EQUAL.
- F. ELECTRIC METALLIC TUBING (EMT): HOT DIPPED GALVANIZED, MILD STEEL TUBE, ZINC COATED, AS MANUFACTURED BY TRIANGLE, REPUBLIC, WHEATLAND OR EQUAL.
- G. RIGID NONMETALLIC CONDUIT: SCHEDULE 40 PVC AS MANUFACTURED BY CARLON OR EQUAL.
- H. METAL CLAD CABLE: TYPE MC, COPPER CONDUCTOR, 600 VOLT THERMOPLASTIC INSULATION, 90 DEG. C, INTERLOCKED STEEL TAPE ARMOR.
- I. ARMORED CABLE: TYPE AC, COPPER CONDUCTOR, 600 VOLT THERMOPLASTIC INSULATION, 90 DEG. C.
- J. ANY EXPOSED RACEWAY SHALL BE RUN TRUE, PLUMB AND PARALLEL OR PERPENDICULAR TO BUILDING LINES.
- K. ALL CONDUCTORS SHALL BE COPPER.
- L. RACEWAYS SHALL BE SEALED WHERE ENTERING PULL BOXES OR STRUCTURES.
- M. SINGLE CONDUCTOR CABLES SHALL BE USED FOR FEEDERS AND BRANCH CIRCUIT WIRING (EXCEPT WHERE AC AND MC CABLE IS USED). MINIMUM SIZE WIRE SHALL BE #12 AWG UNLESS OTHERWISE INDICATED AND SHALL BE SIZED TO CONFORM TO NORMAL NEC VOLTAGE DROPS. WIRE SIZES #10 AWG AND SMALLER SHALL BE SOLID, #8 AWG AND LARGER SHALL BE STRANDED.
- N. FEEDERS AND ALL WIRING IN MOIST OR WET LOCATIONS UNDERGROUND OR UNDER THE SLAB SHALL BE 600 VOLT CODE TYPE THHN-THWN. BRANCH CIRCUIT WIRING IN DRY LOCATIONS, ABOVE GRADE, IN THE INTERIOR OF THE BUILDING SHALL BE 600 VOLT CODE TYPE THHN-THWN OR XHHW.
- O. WIRING TO RECESSED FIXTURE AND WITHIN FIXTURE RACEWAYS SHALL BE TYPE THHN, #12 AWG MINIMUM.
- P. EQUIPMENT GROUND: GREEN CONDUCTOR SHALL BE USED.

EXISTING PANEL: 'A'		3 PHASE 4 WIRE RECESSED MOUNTED	
DESCRIPTION	WIRE SIZE	PHASE	NEC CODE
LC-1 LIS - KITCHEN/SERVING	1 12 20 1	0.4	0.1
LC-1 LIS - DINING	1 12 20 3		
LC-2 BLDG. SIGNAGE	1 12 20 5		
LC-2 D/T MENU / SPEAKER	1 10 20 7	0.5	0.8
LC-2 DIRECTIONAL SIGNS	1 10 20 9	0.5	0.8
TIMECLOCK / PC	1 12 20 11		
RECEPT - WINDOWS	1 12 20 13	0.5	0.8
RECEPT - ROOF GFI	1 12 20 16	0.5	1.7
RECEPT - RR GFI	1 12 20 17	0.5	1.7
RECEPT - OFFICE	1 12 20 18	0.4	0.3
RECEPT - OFFICE	1 12 20 21	0.7	0.3
AIR CURTAIN (UNHEATED)	1 12 20 23	0.9	0.8
D/T WINDOW	1 12 15 28	0.4	0.5
HEATED AIR CURTAIN	2 8 40 27	3.3	1.8
HACR RTU-1	3 4 80 33	7.0	3.0
HACR RTU-2	3 4 80 38	7.0	3.0
TOTAL CONNECTED KVA		94.1	
PANEL RMS SYM. AMPS		22 KAIC	
DEMAND KVA		92.2	
DEMAND AMPS		256.1	

LC-1 - CONTROL VIA LIGHTING CONTACTOR LC-1. SEE 2/E-1.
LC-2 - CONTROL VIA LIGHTING CONTACTOR LC-2. SEE 2/E-1.

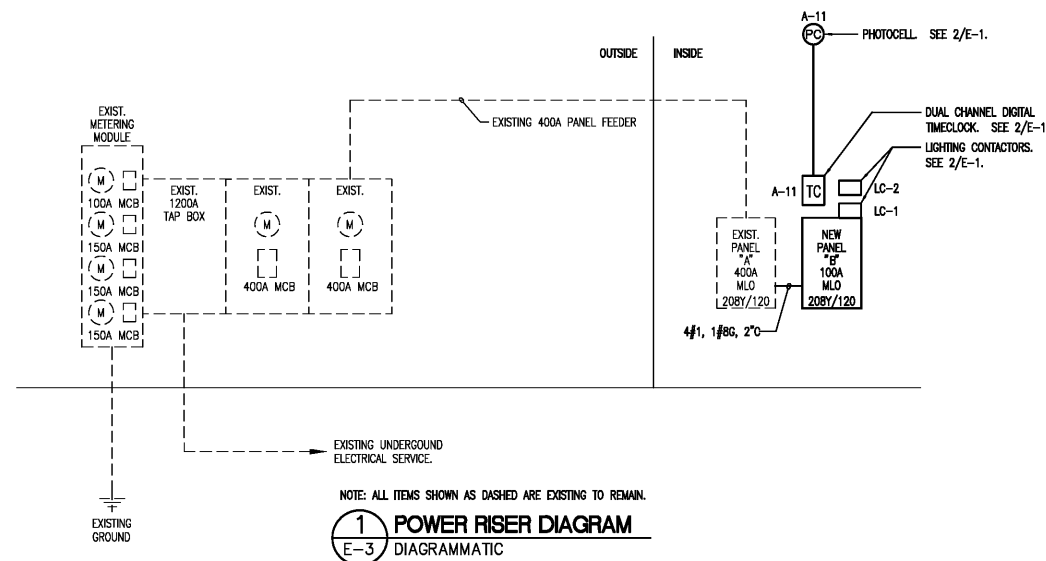
ELECTRICAL LOAD SUMMARY (PANEL A)

LIGHTS	2.9	125%	3.6
RECEPT	5.8	NEC	5.8
WH	9.0	100%	9.0
KIT. EQUIP	22.5	65%	14.6
KIT. EQUIP	3.3	100%	3.3
MISC.	1.1	100%	1.1
HVAC	28.5	100%	28.5
HVAC (LARGEST)	21.0	100%	21.0
TOTAL	94.1		92.2

NEW PANEL: 'B'		3 PHASE 4 WIRE RECESSED MOUNTED	
DESCRIPTION	WIRE SIZE	PHASE	NEC CODE
23-3 WORKTOP REFRIG.	1 12 15 1	1.2	0.5
30H - SURE SHOT	1 12 15 3		
129A - COFFEE MAKER	1 12 15 5		
20M-1 - VITA MIX	1 12 20 7	1.8	0.4
20M-1 - VITA MIX	1 12 20 9	1.8	0.4
HACR ICE MAKER	2 12 20 11	1.3	1.2
EC TO HARD WIRE	1 12 20 13	0.4	0.3
RECEPT - D/T POS	1 12 20 16	0.4	0.3
450M - MIXER	1 12 20 17	0.5	0.5
RECEPT - CAKE TABLE	1 12 20 18	0.2	0.2
460-2 - HARDENING CAB	1 12 20 21	1.8	0.4
63-2 DIPPING CABINET	1 12 20 23	1.4	0.4
63-2 DIPPING CABINET	1 12 20 28	1.4	0.4
38 - TOPPING STATION	1 12 15 27	0.5	0.5
51A - DISPLAY FREEZER	1 12 15 28	0.5	0.5
51B - DISPLAY REFRIG.	1 12 15 31	0.4	0.4
RECEPT - POS	1 12 20 33	0.4	0.3
92 - PARTY CASE	1 12 20 38	0.4	0.3
SPARE	1 - 20 39		
SPARE	1 - 20 40		
SPARE	1 - 20 41		
TOTAL CONNECTED KVA		18.3	
PANEL RMS SYM. AMPS		22 KAIC	
DEMAND KVA		13.1	
DEMAND AMPS		36.4	

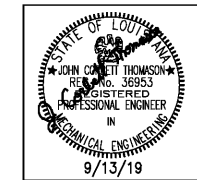
ELECTRICAL LOAD SUMMARY (PANEL B)

LIGHTS	0.0	125%	0.0
RECEPT	3.5	NEC	3.5
WH	0.0	100%	0.0
KIT. EQUIP	14.8	65%	9.6
MISC.	0.0	100%	0.0
HVAC	0.0	100%	0.0
HVAC (LARGEST)	0.0	125%	0.0
TOTAL	18.3		13.1



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J. CORBETT THOMSON, PE
2120 Dilworth Road East
Charlotte, NC 28203
704.333.1020
Corbett@CorbettEngineering.com



Baskin Robbins

2400 North 7th Street
West Monroe, LA 71291
Store Number:

FRANCHISEE:
Ankur Patel
BP Scoops & Smiles LLC dba
BaskinRobbins
2408 Louisville Ave.
Monroe LA 71201
(850) 368-9477
ankurpatel03@yahoo.com

ISSUED / REVISED _____
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ELECTRICAL SCHEDULES,
DETAILS & NOTES