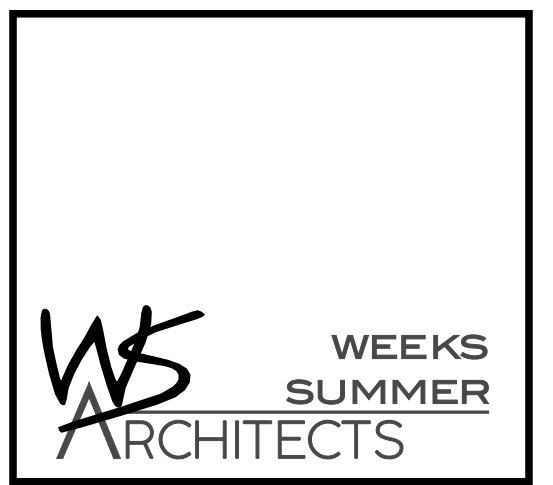
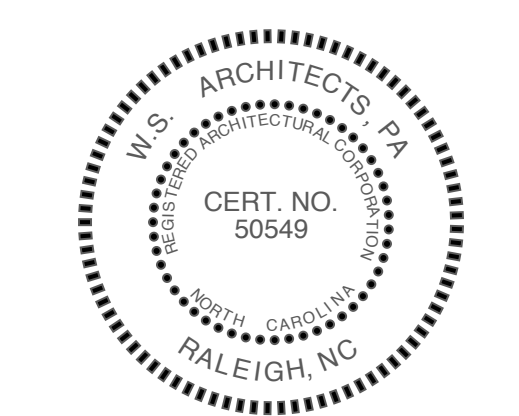


POWERMASTER 311 JARCO DRIVE FUQUAY-VARINA, NORTH CAROLINA



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3305-109 Durham Drive
Raleigh, North Carolina 27603
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NC DEPT. OF INSURANCE 2018 APPENDIX B BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS (EXCEPT 1 & 2-FAMILY DWELINGS AND TOWNHOUSES) (REPRODUCE THE FOLLOWING DATON THE BUILDING PLANS SHEET 1 OR 2)

NC

Name Of Project: POWERMASTER ELECTRIC
Address: 311 JARCO DRIVE, FUQUAY-VARINA
Zip Code: 27526
Owner Or Authorized Agent: W. S. Architects, PA
Phone: (919) 779-9797
E-mail: ginger@wsarchitectspa.com
Owned By: City/County Private State
Code Enforcement Jurisdiction: Town County - HARNETT CO. State

LEAD DESIGN PROFESSIONAL: W. S. ARCHITECTS, PA

Designer	FIRM	NAME	LIC. #	TELEPHONE	E-MAIL
Architectural:	W. S. Architects, PA	Ginger Summer	11075	(919) 779-9797	ginger@wsarchitectspa.com
Civil:					
Electrical:	Burke Design Group	Benjamin E Burke	22038	(919) 771-1916	ben@bdg-nc.com
Fire Alarm:					
Plumbing:	Burke Design Group	Benjamin E Burke	22038	(919) 771-1916	ben@bdg-nc.com
Mechanical:	Burke Design Group	Benjamin E Burke	22038	(919) 771-1916	ben@bdg-nc.com
Sprinkler-Standpipe:					
Structural:	Ross Linden	Brian Ross			
Retaining Walls					
> 5 High:					
Other:					

2018 NC BUILDING CODE: New Building Shell/Core 1st Time Interior Completions
 Addition Phased Construction - Shell Core
2018 NC EXISTING BUILDING CODE: Prescriptive Alteration Level I Historic Property
 Repair Alteration Level II Change of Use
 Chapter 14 Alteration Level III

CONSTRUCTED: (date) _____ CURRENT OCCUPANCY(S) (Ch. 3): ---
RENOVATED: (date) _____ PROPOSED OCCUPANCY(S) (Ch. 3): B, S1
OCCUPANCY CATEGORY (Table 1604.5): Current: II Proposed: II

BASIC BUILDING DATA
CONSTRUCTION TYPE: I-A II-A III-A IV V-A
 I-B II-B III-B IV-B
SPRINKLERS: NO PARTIAL NFPA 13 NFPA 13R NFPA 13D
STANDPIPES: NO CLASS II III III WET DRY
PRIMARY FIRE DISTRICT: NO YES FLOOD HAZARD AREA: NO YES
SPECIAL INSPECTIONS REQUIRED: NO YES

GROSS BUILDING AREA	EXISTING (SF)	NEW (SF)	SUB-TOTAL	TENANT
3RD FLOOR	---	---	---	---
2ND FLOOR	---	2,575	---	---
MEZZANINE	---	---	---	---
1ST FLOOR	---	9,600	---	---
BASEMENT	---	---	---	---
TOTAL	---	12,175	---	---

ALLOWABLE AREA:
PRIMARY OCCUPANCY:
 ASSEMBLY A-1 A-2 A-3 A-4 A-5
 BUSINESS
 EDUCATIONAL
 FACTORY
 HIGH-HAZARD
 INSTITUTIONAL
 F-1 Moderate F-2 Low
 H-1 Detonate H-2 Deflagrate H-3 Combust H-4 Health H-5 HPM
 I-1 I-2 I-3 I-4
 I-1 Condition I-2 I-2
 I-2 Condition I-1 I-2 I-3
 I-3 Condition I-1 I-2 I-3 I-4 I-5
 MERCANTILE
 RESIDENTIAL
 STORAGE
 R-1 R-2 R-3 R-4
 S-1 Moderate S-2 Low HIGH-PILED
 PARKING GARAGE OPEN ENCLOSED REPAIR GARAGE
 UTILITY & MISCELLANEOUS

ACCESSORY OCCUPANCY CLASSIFICATION(S): BUSINESS
INCIDENTAL USES (Table 509):
This separation is not exempt as a Non-Separated Use (see exceptions).
SPECIAL USES (Chapter 4 - List Code Sections):
SPECIAL PROVISIONS (Chapter 5 - List Code Sections):
MIXED OCCUPANCY: Separation: SEPARATED MIXED USE Exception: _____
Select one
Actual Area of Occupancy A + Actual Area of Occupancy B
Allowable Area of Occupancy A Allowable Area of Occupancy B ≤ 1

STORY NO.	DESCRN AND USE	(A) BLDG AREA PER STORY (ACTUAL)	(B) TABLE 506.2 AREA	(C) AREA FOR OPEN SPACE INCREASE 1.5	(D) ALLOWABLE AREA OR UNLIMITED 2.3
1	B	2,575	23,000	17,250	40,250
1	S-1	7,025	17,500	13,125	30,625
---	---	---	---	---	---

- Frontage Area Increases From Section 506.2 Are Computed Thus:
A. Perimeter Which Fronts A Public Way Or Open Space Having 20 Ft Min. Width = _____ (F).
B. Total Building Perimeter = _____ (P).
C. Ratio (F/P) = _____ (F/P).
D. W = Minimum Width Of Public Way = --- (W)
- Unlimited area applicable under conditions of Section 507
- Max. Building Area = Total No. Of Stories In The Building X D (maximum 3 stories) (506.2)
- The Maximum Area Of Open Parking Garages Must Comply With 406.5.4. The Maximum Area Of Air Traffic Control Towers Must Comply With 412.3.1.
- Frontage increase is based on the unspinklered area value in Table 506.2.

ALLOWABLE HEIGHT	ALLOWABLE (TABLE 503)	SHOWN ON PLANS	CODE REFERENCE
BUILDING HEIGHT IN FEET	55 (FT)	24 (FT)	---
BUILDING HEIGHT IN STORIES	2 (STORIES)	2 (STORIES)	---

1. Provide code reference if the "Shown on Plans" quantity is not based on Table 504.3 or 504.4.

NC DEPT. OF INSURANCE 2018 APPENDIX B BUILDING CODE SUMMARY CONTINUED

BUILDING ELEMENT	FIRE SEPN DIST. (FT)	RATING REQ'D	RATING PROV'D (W/ REDUCTION)	DETAIL # AND SHEET #	DES. # FOR RATED ASSY	DES. # FOR RATED PENETN	DES. # FOR RATED JOINTS
STRUCTURAL FRAME, INCLUDING COLUMNS, GIRDERS, TRUSSES	≥ 30'	0	0	---	---	---	---
BEARING WALLS							
EXTERIOR							
NORTH	---	---	---	---	---	---	---
EAST	---	---	---	---	---	---	---
WEST	---	---	---	---	---	---	---
SOUTH	---	---	---	---	---	---	---
INTERIOR							
NONBEARING WALLS AND PARTITIONS							
EXTERIOR							
NORTH	≥ 30'	0	0	---	---	---	---
EAST	≥ 30'	0	0	---	---	---	---
WEST	≥ 30'	0	0	---	---	---	---
SOUTH	≥ 30'	0	0	---	---	---	---
INTERIOR WALL & PARTITIONS							
FLOOR CONSTRUCTION INCLUDING SUPPORTING BEAMS AND JOISTS							
FLOOR CEILING ASSEMBLY	---	---	---	---	---	---	---
COLUMNS SUPPORTING FLOORS	---	---	---	---	---	---	---
ROOF CONSTRUCTION INCLUDING SUPPORTING BEAMS AND JOISTS							
ROOF CEILING ASSEMBLY	---	---	---	---	---	---	---
COLUMNS SUPPORTING ROOF	---	---	---	---	---	---	---
SHAFTS ENCLOSURES-EXIT	---	---	---	---	---	---	---
SHAFTS ENCLOSURES-OTHER	---	---	---	---	---	---	---
CORRIDOR SEPARATION	---	---	---	---	---	---	---
OCCUPANCY/FIRE BARRIER SEPARATION	---	---	---	---	---	---	---
PARTY/FIRE WALL SEPARATION	0	0	---	---	---	---	---
SMOKE BARRIER SEPARATION	0	0	---	---	---	---	---
SMOKE PARTITION	2	2	---	---	---	---	---
TENANT/DWELLING UNIT/SLEEPING UNIT SEPARATION	0	0	---	---	---	---	---
INCIDENTAL USE SEPARATION	0	0	---	---	---	---	---

*INDICATE SECTION NO. PERMITTING REDUCTION

FIRE SEPARATION DISTANCE (FEET) FROM PROPERTY LINES	DEGREE OF OPENINGS PROTECTION (TABLE 705.8)	ALLOWABLE AREA (%)	ACTUAL SHOWN ON PLANS (%)
---	---	---	---
---	---	---	---
---	---	---	---
---	---	---	---
---	---	---	---

LIFE SAFETY SYSTEM REQUIREMENTS
EMERGENCY LIGHTING: YES NO SMOKE DETECTION SYSTEMS: YES NO
EXIT SIGNS: YES NO PANIC HARDWARE: YES NO
FIRE ALARM: YES NO

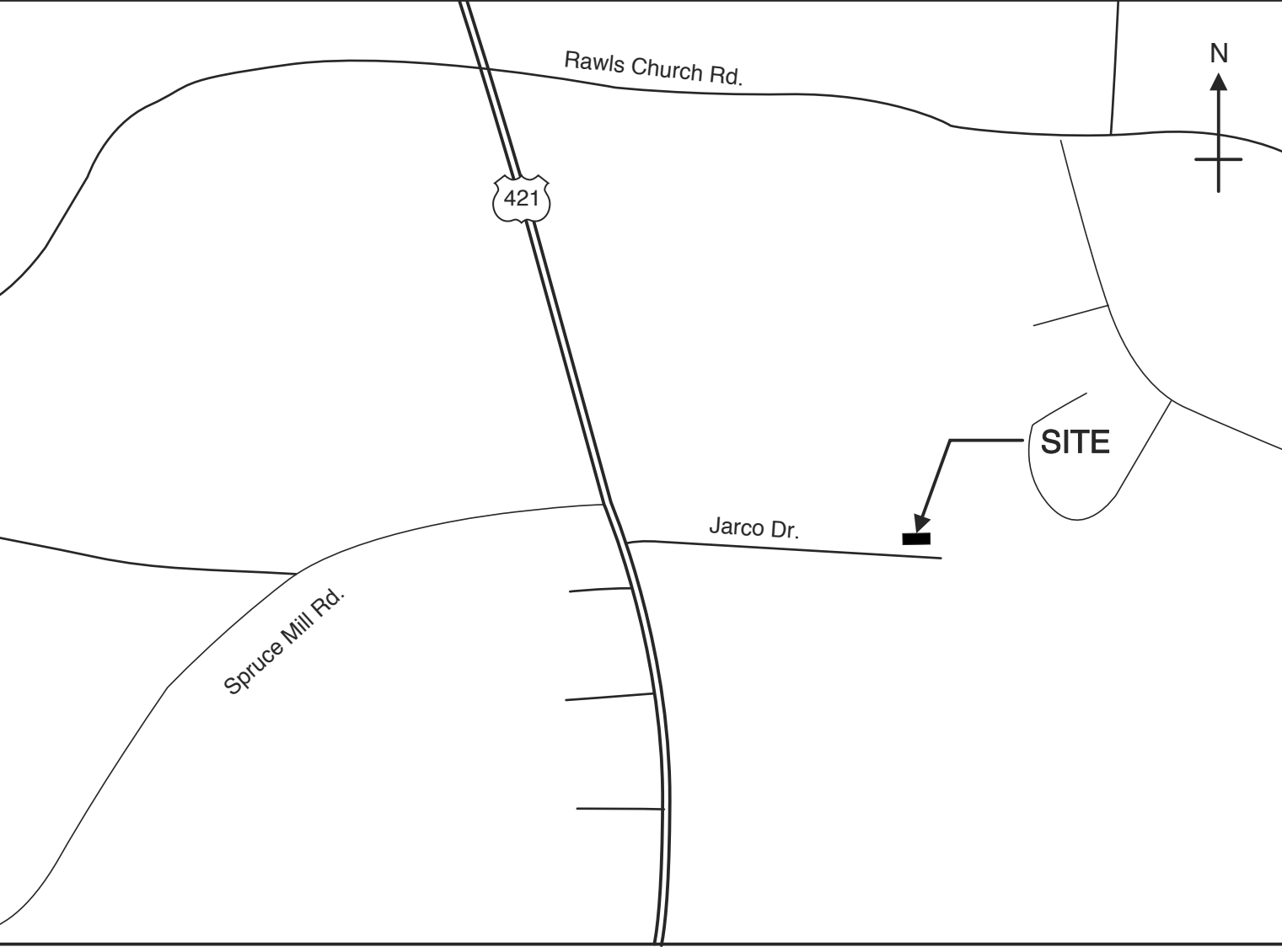
LIFE SAFETY PLAN REQUIREMENTS SHEET NUMBER A0.2
 FIRE AND/OR SMOKE RATED WALL LOCATIONS (CHAPTER 7)
 ASSUMED AND REAL PROPERTY LINE LOCATIONS (IF NOT ON SITE PLAN)
 EXTERIOR WALL OPENING AREA WITH RESPECT TO DISTANCE TO ASSUMED PROPERTY LINES (705.8)
 OCCUPANCY USE FOR EACH AREA AS IT RELATES TO OCCUPANT LOAD CALCULATION (TABLE 1004.1.2)
 OCCUPANT LOADS FOR EACH AREA
 EXIT ACCESS TRAVEL DISTANCES (1017)
 COMMON PATH OF TRAVEL DISTANCES (1006.2.1 & 1006.3.2(1))
 DEAD END LENGTHS (1020.4)
 CLEAR EXIT WIDTHS FOR EACH EXIT DOOR
 MAXIMUM CALCULATED OCCUPANT LOAD CAPACITY EACH EXIT DOOR CAN ACCOMMODATE BASED ON EGRESS WIDTH (1005.3)
 ACTUAL OCCUPANT LOAD FOR EACH DOOR
 A SEPARATE SCHEMATIC PLAN INDICATING WHERE FIRE RATED FLOOR/CEILING AND/OR ROOF STRUCTURE IS PROVIDED FOR PURPOSES OF OCCUPANCY SEPARATION
 LOCATION OF DOORS WITH PANIC HARDWARE (1010.1.10)
 LOCATION OF DOORS WITH DELAYED EGRESS LOCKS AND THE AMOUNT OF THE DELAY (1010.1.9.7)
 LOCATION OF DOORS WITH ELECTROMAGNETIC EGRESS LOCKS (1010.1.9.9)
 LOCATION OF DOORS EQUIPPED WITH HOLD-OPEN DEVICES
 LOCATION OF EMERGENCY ESCAPE WINDOWS (1030)
 THE SQUARE FOOTAGE OF EACH FIRE AREA (202)
 THE SQUARE FOOTAGE OF EACH SMOKE COMPARTMENT FOR OCCUPANCY CLASSIFICATION I-2 (407.5)
 NOTE ANY CODE EXCEPTIONS ON TABLE NOTES THAT MAY HAVE BEEN UTILIZED REGARDING THE ITEMS ABOVE

TOTAL UNITS	ACCESSIBLE UNITS REQ'D	ACCESSIBLE UNITS PROV'D	TYPE A UNITS REQ'D	TYPE A UNITS PROV'D	TYPE B UNITS REQ'D	TYPE B UNITS PROV'D	TOTAL ACCESSIBLE UNITS PROV'D
---	---	---	---	---	---	---	---

LOT OR PARKING AREA	TOTAL # OF SPACES REQ'D	# OF ACCESSIBLE SPACES PROVIDED	TOTAL # ACCESSIBLE PROVIDED
---	---	---	---

USE	WATERCLOSETS	LAVATORIES	SHOWERS/TUBS	DRINKING FOUNTAINS					
	MALE	FEMALE	UNISEX	URINALS	MALE	FEMALE	UNISEX	REGULAR	ACCESSIBLE
SPACE	---	---	---	---	---	---	---	---	---
NEW	---	---	---	---	---	---	---	---	---
REQ'D	---	---	1	---	---	---	1	---	---

SPECIAL APPROVALS
Special Approval: (Local Jurisdiction, Dept of Insurance, OSC, DPI, DHHS, etc., describe below)



NC DEPT. OF INSURANCE 2018 APPENDIX B BUILDING CODE SUMMARY CONTINUED

ENERGY SUMMARY
ENERGY REQUIREMENTS:
The following data shall be considered minimum and any special attribute required to meet the energy code shall also be provided. Each Designer shall furnish the required portions of the project information for the plan data sheet. If performance method, state the annual energy cost for the standard reference design vs annual cost for the proposed design.
Existing building envelope complies with code: _____
Exempt Building: _____ Provide code or statutory reference:
Climate Zone: _____
Method of Compliance: _____ (If "Other" specify source here)

THERMAL ENVELOPE (Prescriptive method only)
Roof/Ceiling Assembly (each assembly)
Description of assembly STANDING SEAM MTL.
U-Value of total assembly _____
R-Value of insulation R-19 + R-11 WITH THERMAL BLOCKS
Skylights in each assembly _____
U-Value of skylight _____
Total square footage of skylights in each assembly _____

Exterior Walls (each assembly)
Description of assembly METAL PANEL WITH 8" GIRTS
U-Value of total assembly _____
R-Value of insulation R-25 WITH THERMAL BREAK
Openings (windows or doors with glazing)
U-Value of assembly _____
Solar heat gain coefficient 0.26
Projection factor 0.08
Door R-Values STOREFRONT DOOR 0.77
INSUL HM 0.50
INSUL OH 0.50

Walls below grade (each assembly)
Description of assembly _____
U-Value of total assembly _____
R-Value of insulation _____

Floors over unconditioned space (each assembly)
Description of assembly _____
U-Value of total assembly _____
R-Value of insulation _____

Floors slab on grade
Description of assembly _____
U-Value of total assembly _____
R-Value of insulation R-10
Horizontal/Vertical requirement 12"
Slab heated

STRUCTURAL DESIGN (PROVIDE ON SHEET 1 OR 2 OF THE STRUCTURAL SHEETS)
DESIGN LOADS:
IMPORTANCE FACTORS: WIND (I W) --- SNOW (I S) --- SEISMIC (I E) ---
LIVE LOADS: ROOF --- psf MEZZANINE --- psf FLOOR --- psf
GROUND SNOW LOAD: --- psf
WIND LOAD: BASIC WIND SPEED --- mph (ASCE-7) EXPOSURE CATEGORY ---
SEISMIC DESIGN CATEGORY A B C D

PROVIDE THE FOLLOWING SEISMIC DESIGN PARAMETERS:
OCCUPANCY CATEGORY (TABLE 1604.5) I II III IV
SPECTRAL RESPONSE ACCELERATION S_s --- %g S_1 --- %g III IV
SITE CLASSIFICATION (ASCE 7) A B C D
--- Field Test --- Presumptive --- Historical Data
BASIC STRUCTURAL SYSTEM (check one)
--- BEARING WALL --- DUAL W/SPECIAL MOMENT FRAME
--- BUILDING FRAME --- DUAL WINTERMEDIATE R/C OR SPECIAL STEEL
--- MOMENT FRAME --- INVERTED PENDULUM
ANALYSIS PROCEDURE --- SIMPLIFIED --- EQUIVALENT LATERAL FORCE --- DYNAMIC
ARCHITECTURAL, MECHANICAL, COMPONENTS ANCHORED YES NO
LATERAL DESIGN CONTROL: EARTHQUAKE WIND
SOIL BEARING CAPACITIES:
FIELD TEST (PROVIDE COPY OF TEST REPORT) --- psf
PRESUMPTIVE BEARING CAPACITY --- psf
PILE SIZE, TYPE, AND CAPACITY ---

PHASE PLAN DESCRIPTION

- Phase 1 (shell for storage)
-All concrete footing and slab on grade complete
-All exterior walls complete. Insulated, doors and windows installed.
-Electrical service and panels in place
-All lights in storage area installed and exit signs installed
-All power in exterior walls, any drop down outlets and any under slab conduits in place
-Fans and louvers installed
-plumbing rough in complete
- Phase 2 (fit-up of 1st floor offices)
-All structure for 2nd floor installed, 2nd floor poured and stairs installed
-Rated separation installed (2 hr fire barrier)
-Interior walls on first floor complete along with electrical, mechanical and plumbing
-Waste oil heaters installed in storage areas
- Phase 3 (fit-up of 2nd floor offices)
-Interior walls in second floor complete along with electrical, mechanical and plumbing

NC DEPT. OF INSURANCE 2018 APPENDIX B BUILDING CODE SUMMARY CONTINUED

MECHANICAL DESIGN (PROVIDE ON THE MECHANICAL SHEETS IF APPLICABLE)
MECHANICAL SUMMARY:
THERMAL ZONE: _____
INTERIOR DESIGN CONDITIONS: _____
BUILDING HEATING LOAD: _____
BUILDING COOLING LOAD: _____
MECHANICAL SPACING CONDITIONING SYSTEM
UNITARY DESCRIPTION OF UNIT: _____ HEATING EFFICIENCY: _____ COOLING EFFICIENCY: _____ SIZE CATEGORY OF UNIT: _____
BOILER SIZE CATEGORY. IF OVERSIZED, STATE REASON: _____
CHILLER SIZE CATEGORY. IF OVERSIZED, STATE REASON: _____
LIST EQUIPMENT EFFICIENCIES: _____

ELECTRICAL DESIGN (PROVIDE ON THE ELECTRICAL SHEETS IF APPLICABLE)
METHOD OF COMPLIANCE: (SELECT ONE)
LIGHTING SCHEDULE (each fixture type)
LAMP TYPE REQUIRED IN FIXTURE _____
NUMBER OF LAMPS IN FIXTURE _____
BALLAST TYPE USED IN THE FIXTURE _____
NUMBER OF BALLASTS IN FIXTURE _____
TOTAL WATTAGE PER FIXTURE _____
TOTAL INTERIOR WATTAGE SPECIFIED VS. ALLOWED (whole building or space by space)
TOTAL EXTERIOR WATTAGE SPECIFIED VS. ALLOWED _____
ADDITIONAL PRESCRIPTIVE COMPLIANCE
 506.2.1 MORE EFFICIENT MECHANICAL EQUIPMENT
 506.2.2 REDUCED LIGHTING POWER DENSITY
 506.2.3 ENERGY RECOVERY VENTILATION SYSTEMS
 506.2.4 HIGHER EFFICIENCY SERVICE WATER HEATING
 506.2.5 ON-SITE SUPPLY OF RENEWABLE ENERGY
 506.2.6 AUTOMATIC DAYLIGHTING CONTROL SYSTEMS

PROJECT TITLE
POWERMASTER ELECTRIC
311 JARCO DRIVE
FUQUAY-VARINA, NORTH CAROLINA

PROJECT NO.
2019
DRAWING TITLE
COVER SHEET

SHEET 1 OF 9

A0.1

PLOT DATE 08/16/21
REVISION 09/07/21

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