

BUILDING DESIGN DATA

GOVERNING BUILDING CODE: 2015 INTERNATIONAL BUILDING CODE (IBC)

- 1. ROOF DEAD LOADS
A. FRAMING AND ROOF PANEL WEIGHT BY BLDG MFR
B. OTHER DEAD LOAD #6 PSF

- 2. MINIMUM ROOF LIVE LOADS, Lr = 20.0 PSF
3. ROOF SNOW LOADS, S
A. GROUND SNOW LOAD, Pg = 5 PSF
B. SNOW EXPOSURE FACTOR, Ce = 1.0
C. SNOW LOAD IMPORTANCE FACTOR, Is = 1.0
D. THERMAL FACTOR, Ct = 1.0

- 4. WIND LOADS, W
A. BASIC WIND SPEED (3 SECOND GUST), V = 140 MPH
B. WIND LOAD IMPORTANCE FACTOR, Iv = 1.0
C. BUILDING CATEGORY, BY BUILDING MFR = C
D. OVERALL EXPOSURE CATEGORY: E
E. HEIGHT AND EXPOSURE ADJUSTMENT COEFFICIENT, Kh BY BUILDING MFR
F. INTERNAL PRESSURE COEFFICIENT, Cqi BY BUILDING MFR
G. WIDTH OF EDGE/CORNER ZONE, # BY BUILDING MFR
H. COMPONENT AND CLADDING WALL DESIGN PRESSURES BY BUILDING MFR
I. COMPONENT AND CLADDING ROOF DESIGN PRESSURES (NET) BY BUILDING MFR

- 5. SEISMIC DESIGN DATA
A. OCCUPANCY CATEGORY = II
B. MAPPED SPECTRAL RESPONSE COEFFICIENTS Se = 1.642
C. SITE CLASS S1 = 0.567
D. SPECTRAL RESPONSE COEFFICIENTS S0S = 1.095
E. SEISMIC DESIGN CATEGORY S01 = D
F. BASIC SEISMIC-FORCE-RESISTING SYSTEM BY BUILDING MFR
G. RESPONSE MODIFICATION COEFFICIENT, R BY BUILDING MFR
H. ANALYSIS PROCEDURE BY BUILDING MFR
I. SEISMIC RESPONSE COEFFICIENT, Cs BY BUILDING MFR
J. BASE SHEAR, V BY BUILDING MFR

- 6. FOUNDATION DESIGN DATA
A. ALLOWABLE BEARING PRESSURE = 2000 PSF (NET)
B. MINIMUM BEARING DEPTH = 12 IN
C. FREEZE-THAW EXPOSURE SEVERITY MODERATE
D. SLAB SUBGRADE REACTION MODULUS = 150 PCI

FOUNDATIONS, SLAB-ON-GRADE - GENERAL

- 1. THE FOUNDATIONS HAVE BEEN DESIGNED IN ACCORDANCE WITH THE RECOMMENDATIONS MADE IN THE GEOTECHNICAL REPORT BY TERRACON CONSULTANTS INC.
2. SPREAD FOOTINGS SHALL BEAR ON SOILS CAPABLE OF SUSTAINING AN ALLOWABLE BEARING PRESSURE AS NOTED ABOVE FOR FOOTINGS UNDER FULL SERVICE DEAD AND LIVE LOADS.

CONCRETE

- 1. ALL CONCRETE SHALL BE NORMAL-WEIGHT (DENSITY=145 PCF) AND SHALL HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF AS NOTED IN THE FOLLOWING TABLE:

Table with 3 columns: CONCRETE USE, SPECIFIED COMPRESSIVE STRENGTH (PSI), MAXIMUM W/C RATIO. Rows include COLUMN FOOTINGS, EXTERIOR STRUCTURAL CONCRETE, INTERIOR SLAB ON GRADE AND PERIMETER BEAM-FOOTING, EXTERIOR SLAB ON GRADE, SIDEWALKS.

- 2. FOR ALL OTHER CONCRETE PROPERTIES SEE THE PROJECT SPECIFICATIONS.
3. ALL EXTERIOR CONCRETE SHALL BE AIR-ENTRAINED PER ACI-318, LATEST EDITION, BASED ON FREEZE-THAW EXPOSURE SEVERITY AND AGGREGATE SIZE.
4. ALL REINFORCED CONCRETE WORK SHALL BE PER BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE ACI 318, LATEST EDITION.

Table: CONCRETE REINFORCING LAP SPICE SCHEDULE. Columns: TENSION SPICES (IN), BAR SIZE, TOP BARS, OTHER BARS. Rows for #3, #4, #5, #6.

- 15. LEAN CONCRETE - MIN 2 1/2 SACKS PORTLAND CEMENT PER CUBIC YARD.

REINFORCED MASONRY

- 1. MASONRY WALLS HAVE BEEN DESIGNED TO SPAN VERTICALLY, AS SIMPLE SPANS, FROM FOUNDATION TO ROOF AND ARE DEPENDENT UPON THE COMPLETED ROOF STRUCTURE, ROOF SHEATHING AND COMPLETION OF ALL MASONRY WALLS FOR STABILITY AND FOR RESISTANCE TO WIND AND SEISMIC FORCES.
2. REINFORCED MASONRY SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH, fm = 2000 PSI. MASONRY UNITS SHALL BE NORMAL WEIGHT BLOCK CONFORMING TO ASTM C90, GRADE N, TYPE 1, AND SHALL HAVE A MINIMUM NET AREA COMPRESSIVE STRENGTH OF 2800 PSI.

Table: MASONRY REINFORCING LAP SPICE SCHEDULE. Columns: BAR SIZE, SPICE (IN.). Rows for #3, #4, #5, #6, #7.

- 12. USE OPEN KNOCK OUT BOND BEAM BLOCK. DO NOT USE TROUGH TYPE BLOCKS FOR BOND BEAMS.

STRUCTURAL STEEL

- 1. STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING GRADES: ALL BOLTS, ANCHORS, ETC. (A500) A36 (Fy=36 KSI) ALL WIDE FLANGES (J.N.O.) A992 (Fy=50 KSI) HOLLOW STRUCTURAL SECTIONS (SHAPED) A500 GRADE B (Fy=46 KSI) HOLLOW STRUCTURAL SECTIONS (ROUND) A500 GRADE B (Fy=46 KSI) STEEL PIPE A33 GRADE B (Fy=35 KSI) BOLTS A325 (J.N.O.) ANCHOR RODS F1554 (GRADE 66) WELDING ELECTRODES E70XX, LOW HYDROGEN

DEFERRED STRUCTURAL SUBMITTALS

- 1. THE FOLLOWING STRUCTURAL COMPONENTS SHALL BE DESIGNED AND SUBMITTED BY OTHERS FOR APPROVAL IN ACCORDANCE WITH DRAWINGS AND SPECIFICATIONS.
A. PRE-MANUF. METAL BUILDINGS. STRUCTURAL DEFERRED SUBMITTAL ITEMS SHALL BE DESIGNED, SEALED AND SIGNED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE WHERE THE PROJECT IS LOCATED.

PRE-MANUF. METAL BUILDING

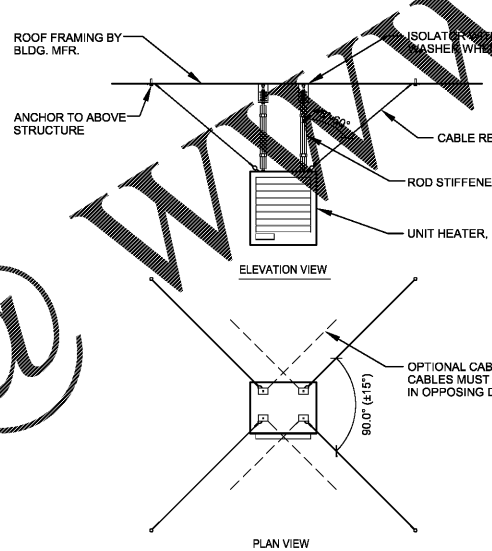
- 1. PRE-MANUF. METAL BUILDING ELEMENTS SHALL BE DESIGNED BY THE MANUFACTURER AND SHALL COMPLY WITH THE REQUIREMENTS OF LOCAL BUILDING CODES LISTED IN "BUILDING DESIGN DATA" AND THE METAL BUILDING MANUFACTURERS ASSOCIATION DESIGN MANUAL.
2. THE METAL BUILDING MANUFACTURER SHALL SUBMIT THE MATERIAL TYPE, DIAMETER, AND LOCATION OF ANCHOR BOLTS FOR ALL METAL BUILDING COLUMNS.

MISCELLANEOUS

- 1. THESE GENERAL NOTES SUPPLEMENT THE PROJECT SPECIFICATIONS. REFER TO THE PROJECT SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
2. THE STRUCTURAL DRAWINGS ARE INTENDED TO BE USED WITH ARCHITECTURAL AND MECHANICAL DRAWINGS. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING BRACINGS AS REQUIRED FOR STABILITY, RESISTANCE OF CONSTRUCTION LOADS, AND FOR RESISTANCE TO WIND AND SEISMIC FORCES UNTIL THE ENTIRE STRUCTURE IS COMPLETE.

SPECIAL INSPECTIONS

- 1. THE OWNER WILL EMPLOY THE SERVICES OF ONE OR MORE SPECIAL INSPECTORS TO PROVIDE SPECIAL INSPECTIONS DURING CONSTRUCTION FOR THE REQUIRED SPECIAL INSPECTION ITEMS.
2. THE SPECIAL INSPECTOR SHALL BE A QUALIFIED PERSON WHO SHALL DEMONSTRATE COMPETENCE TO THE SATISFACTION OF THE BUILDING OFFICIAL AND THE REGISTERED DESIGN PROFESSIONAL RESPONSIBLE FOR THE DESIGN OF THE STRUCTURE.



- NOTES:
1. PROVIDE COMPLETE SEISMIC RESTRAINT SYSTEM DESIGNED AND SUPPLIED BY ONE OF THE FOLLOWING MANUFACTURERS: VIBRO-ACOUSTICS, MASON INDUSTRIES, INC., VMC/AMBER BOOTH
2. ALL PRODUCT SIZES AND CAPACITIES TO BE DETERMINED AFTER EQUIPMENT IS APPROVED AND CALCULATIONS HAVE BEEN PERFORMED.

SEISMIC BRACING SUSPENDED UNIT HEATER N.T.S.

SPECIAL INSPECTIONS SCHEDULE

Table with 3 columns: SPECIAL INSPECTION, FREQ., REFERENCED STANDARD(S). Rows include SOILS, 1. VERIFY MATERIALS BELOW FOOTINGS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY, 2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.

Table with 3 columns: SPECIAL INSPECTION, FREQ., REFERENCED STANDARD(S). Rows include CONCRETE (NOT APPLICABLE TO ISOLATED SPREAD FOOTINGS OR NON-STRUCTURAL SLABS ON GRADE), 1. INSPECTION OF REINFORCING STEEL SIZE AND PLACEMENT, 2. VERIFYING USE OF REQUIRED DESIGN MIX.

STEEL CONSTRUCTION:

Table with 3 columns: SPECIAL INSPECTION, FREQ., REFERENCED STANDARD(S). Rows include 1. MATERIAL VERIFICATION OF HIGH-STRENGTH BOLTS, NUTS, AND WASHERS, 2. INSPECTION OF WELDING.

MASONRY CONSTRUCTION

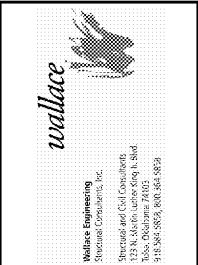
Table with 3 columns: SPECIAL INSPECTION, FREQ., REFERENCED STANDARD(S). Rows include 1. AS MASONRY CONSTRUCTION BEGINS, THE FOLLOWING SHALL BE VERIFIED TO ENSURE COMPLIANCE: A. PROPORTIONS OF SITE PREPARED MORTAR.

Table with 3 columns: SPECIAL INSPECTION, FREQ., REFERENCED STANDARD(S). Rows include 2. DURING CONSTRUCTION THE INSPECTION PROGRAM SHALL VERIFY: A. SIZE AND LOCATION OF STRUCTURAL ELEMENTS, B. TYPE, SIZE, AND LOCATION OF ANCHORS.

Table with 3 columns: SPECIAL INSPECTION, FREQ., REFERENCED STANDARD(S). Rows include 3. PRIOR TO GROUTING, THE FOLLOWING SHALL BE VERIFIED TO ENSURE COMPLIANCE: A. GROUT SPACE IS CLEAN, B. PLACEMENT OF REINFORCEMENT AND CONNECTORS.

ADHESIVE ANCHORS/REINFORCEMENT:

Table with 3 columns: SPECIAL INSPECTION, FREQ., REFERENCED STANDARD(S). Rows include 1. DURING PLACEMENT OF ADHESIVE ANCHORS OR REINFORCEMENT EMBEDDED WITH ADHESIVE, 2. ANCHORS/REINFORCEMENT INSTALLED PER MANUFACTURERS RECOMMENDATIONS.



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NEW FCAC STORE 2020 ER 1762 STATE RD SUMMERVILLE, SC

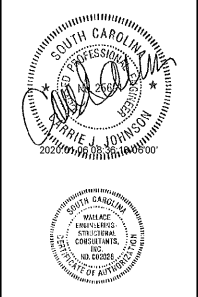


Table: ISSUE BLOCK. Columns: REV #1, 01/06/20.

PROPERTY NO.: 317910
8 DIGIT NO.: 799862
4 DIGIT NO.: 013K
AOR PROJECT NUMBER: 1905B67
NO PERMIT DATE: 12-20-19
TO BID DATE: ###-##-##

SHEET TITLE: GENERAL NOTES

SHEET NUMBER: S1

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