

GENERAL STRUCTURAL NOTES:

DESIGN LOADS AND CRITERIA

2018 NORTH CAROLINA STATE BUILDING CODE
MINIMUM DESIGN LOADS PER ASCE 7-10
RISK CATEGORY II (NORMAL)

Table with 3 columns: LOCATION, DEAD LOAD, LIVE LOAD. Values include 20 PSF and 20 PSF.

SNOW DESIGN
Pg = 10 PSF, Ce = 1.0, Ct = 1.0, Is = 1.00, Pf = 7 PSF, Cs = 1.0, Ps = 7 PSF, Pm = 10 PSF
DRIFT LOADS PER ASCE 7

WIND DESIGN
V = 115 MPH, EXPOSURE C, GCpfi = 0.18
ASD NET UPLIFT ON ROOF JOISTS = 10 PSF
COMPOUND AND CLADDING (C.A.C.) PRESSURES PER CHAPTER 30 OF ASCE 7-10.

SEISMIC DESIGN
ANALYSIS PER THE EQUIVALENT LATERAL FORCE PROCEDURE
SITE CLASS D, Ie = 1.00, Ss = 0.239, Si = 0.103, Sds = 0.254, Sd1 = 0.164, SEISMIC DESIGN CATEGORY C

GENERAL

- 1. DO NOT SCALE DRAWINGS. SEE ARCHITECTURAL DRAWINGS FOR DIMENSIONS NOT INDICATED.
2. UNLESS EXPLICITLY NOTED OTHERWISE, ELEVATIONS ARE REFERENCED FROM +0'-0" DATUM AT THE FINISHED FLOOR ELEVATION.

FOUNDATIONS AND SOILS

- 1. SITE WORK SHALL BE UNDER THE DIRECTION OF A QUALIFIED GEOTECHNICAL ENGINEER OR SOILS TECHNICIAN.
2. PREPARATION OF THE SITE, INCLUDING INITIAL UNDERCUTTING, FILL AND BACKFILL MATERIAL AND PLACEMENT, SHALL BE IN ACCORDANCE WITH THE GEOTECHNICAL REPORT.

CONCRETE

- 1. CONCRETE SHALL CONFORM TO THE FOLLOWING: WHERE MIN Fc IS THE MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS, AND MAX W/C IS THE MAXIMUM WATER-CEMENTITIOUS MATERIALS RATIO.
2. SEE SPECIFICATION FOR ADDITIONAL CONCRETE REQUIREMENTS.

Table with 4 columns: LOCATION, REINFORCEMENT SIZE, MIN COVER. Values include #6 THROUGH #18 and 1 1/2".

MASONRY

- 1. HOLLOW CONCRETE BLOCK (MASONRY) UNITS SHALL CONFORM TO ASTM C90, NORMALWEIGHT, TYPE N-1 WITH A MINIMUM COMPRESSIVE STRENGTH OF 1900 PSI ON THE NET AREA (fm = 1500 PSI).
2. MORTAR FOR USE IN MASONRY SHALL MEET ASTM C270, TYPE S.

ANCHORS, DOWELS AND FASTENERS

- 1. ANCHORS, DOWELS, FASTENERS AND FASTENING SYSTEMS NOTED ON DRAWINGS, INCLUDING BUT NOT LIMITED TO THE FOLLOWING, SHALL BE INSTALLED PER CURRENT CODE REPORT & PER MFR RECOMMENDATIONS.
2. POST-INSTALLED ANCHORS AND DOWELS IN CONCRETE SHALL BE ADHERED USING HILTI HIT-HY 1000 (ESR-3187) OR SIMPSON SET-XP (ESR 2508).

STEEL

- 1. STRUCTURAL STEEL SHALL MEET THE LATEST AISC "SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS".
2. W SHAPES SHALL MEET ASTM A992, Fy = 50 KSI.

JOISTS

- 1. FABRICATE AND ERECT STEEL JOISTS & JOIST GIRDERS, AND PROVIDE BRIDGING PER SJI RECOMMENDATIONS.
2. JOISTS AT OR NEAREST TO CENTERLINES OF COLUMNS SHALL HAVE BOLTED CONNECTIONS FOR ERECTION.

STEEL ROOF DECK

- 1. SEE ROOF FRAMING PLAN FOR DECK PROFILE AND GAGE REQUIREMENTS. ERECT PER MANUFACTURER'S SPECIFICATIONS.
2. STEEL DECK SHALL BE ATTACHED TO ALL MEMBERS ON WHICH IT BEARS IN ACCORDANCE WITH TYPICAL ROOF DECK FASTENING SYSTEM DETAIL.

COLD-FORMED METAL FRAMING

- 1. STUDS AND COMPONENTS SHALL BE IN ACCORDANCE WITH THE AISI "SPECIFICATION FOR DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS" AND THE SSMA "PRODUCT TECHNICAL GUIDE" (ESR 3064P).
2. COLD-FORMED MEMBERS SHALL HAVE A MINIMUM G60 COATING AND MEET ASTM A653, 55 GRADE 50, CLASS 1 OR 3 (Fy = 50 KSI), EXCEPT MEMBERS OF WALLS AND LIPS WHICH MEET A653, 55 GRADE 33 (Fy = 33 KSI) UNLESS SPECIFIED OTHERWISE.

ABBREVIATIONS

Large table with 4 columns listing abbreviations and their corresponding full names, such as ACI, ADDL, ADDN, AE, AFF, AISC, AISI, ANSI, APPROX, AR, ARCH, ASCE, ASTM, AWS, BCX, BD, BF, BLDG, BLK, BLKG, BM, BO, BOS, BOT, BP, BRG, BS, BTWN, C, CAP, CAT, CB, CBR, CCI, CCG, CLR, CMU, COL, CONC, CONN, CONST, CONT, COORD, COOR, CTR, CX, DBL, DEMO, DET, DIA, DIM, DIR, DN, DO, DWG, EA, EF, EJ, EL, EMB, ENG, EOS, EPS, EQ, EQ SPA, EW, EXIST, EXP, EXT, FB, FD, FDN, FF, FFE, FG, FH, FINISH, FL, FLG, FS, FT, FTG, GA, GALV, GC, GR, GSN, GWB, HGT, HORIZ, ID, INCHES, INSUL, INT, INV, IS, ISF, J, JST, JT, K, KIP, KSF, LB, LF, LLH, LLV, LONG, LP, M, MACH, MAS, MATL, MAX, MECH, MFR, MIN, MISC, MO, MTL, NUM, NOM, NS, NTS, OC, OD, OPG(S), OPP, ORIG, OS, OSF, OUNCE, PAF, PL, PLUMB, PLYWD, PR, PSF, PSI, PRESSURE TREATED, PAINTED, POLYVINYLCHLORIDE, QUANTITY, RADIUS, R, RD, REIN, REQD, REQ, REV, RM, RO, SCHED, SDI, SECT, SHT, SIM, SJI, SPEC, SQ, SS, SSMA, STD, STL, STRUC, T, T&G, TOB, TOS, TOW, TRANS, TYP, UNO, VERT, VIF, W, W/O, WOOD, WP, WT, WWF, TONGUE AND GROOVE, TO BE DETERMINED, TO BE REMOVED, TOP CHORD EXTENSION, TOP FLANGE, TOP OF FOOTING ELEVATION, THREAD/THREADED, THICK/THICKNESS, TOP OF BEAM, TOP OF STEEL, TOP OF WALL, TRANSVERSE, TYPICAL, UNLESS NOTED OTHERWISE, SHEAR FORCE, VERTICAL, VERIFY IN FIELD, WITH, WITHOUT, WOOD, WORK POINT, WEIGHT, WELDED WIRE FABRIC.

SPECIAL INSPECTIONS

- INSPECTIONS SHALL BE PERFORMED BY AN INDEPENDENT AGENCY, PAID FOR BY THE OWNER. THE FOLLOWING FIELD INSPECTIONS ARE REQUIRED:
1. VERIFICATION AND INSPECTION OF STEEL CONSTRUCTION PER AISC 360-10 CHAPTER N.
2. VERIFICATION AND INSPECTION OF CONCRETE CONSTRUCTION PER BUILDING CODE TABLE 1705.3.

Table with 2 columns: Issued: and Date: containing dates for Client Review Set, Permit Set, Bid Set, and Revisions 1-9.

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