

STRUCTURAL NOTES

GE - GENERAL

1. THE STRUCTURE IS DESIGNED IN ACCORDANCE WITH THE NORTH CAROLINA STATE BUILDING CODE - 2018 EDITION (2015 INTERNATIONAL BUILDING CODE WITH CURRENT NORTH CAROLINA AMENDMENTS).
2. THE DESIGN LOADS ARE AS FOLLOWS:

LIVE LOAD
ROOF _____ 20 PSF

SNOW LOAD
GROUND SNOW LOAD P_G _____ 15 PSF
FLAT ROOF SNOW LOAD P_F _____ 15 PSF
SNOW EXPOSURE FACTOR C_E _____ 1.0
SNOW LOAD IMPORTANCE FACTOR I_E _____ 1.1
THERMAL FACTOR C_T _____ 1.1

WIND LOAD
BASIC WIND SPEED V_{ULT} (ASCE 7-10) _____ 120 MPH
 V_{ASD} (ASCE 7-10) _____ 90 MPH
RISK CATEGORY _____ II
WIND EXPOSURE _____ C
INTERNAL PRESSURE COEFFICIENT GCP_i _____ ± 0.18
COMPONENTS AND CLADDING _____ PER ASCE 7-05
DESIGN CODE REFERENCE PUBLICATION _____ ASCE 7-05

SEISMIC LOAD
SEISMIC RISK CATEGORY _____ III
SEISMIC DESIGN CATEGORY _____ C
SPECTRAL RESPONSE ACCELERATION S_s _____ 31%G
 S_1 _____ 11%G
 S_{MS} _____ 48%G
 S_{M1} _____ 26%G
 S_{D5} _____ 32%G
 S_{D1} _____ 17%G

SITE CLASS _____ D
SEISMIC IMPORTANCE FACTOR I_E _____ 1.25
BASIC SEISMIC-FORCE-RESISTING SYSTEM _____ STRUCTURAL STEEL SYSTEM NOT SPECIFICALLY DETAILED FOR SEISMIC RESISTANCE

RESPONSE MODIFICATION FACTOR R _____ 3.0
SEISMIC RESPONSE COEFFICIENT CS _____ 0.13
DESIGN BASE SHEAR _____ N/A
ANALYSIS PROCEDURE _____ EQUIVALENT LATERAL FORCE PROCEDURE (ELF) PER SECTION 12.8 ASCE 7-10
LATERAL DESIGN CONTROL _____ N/A

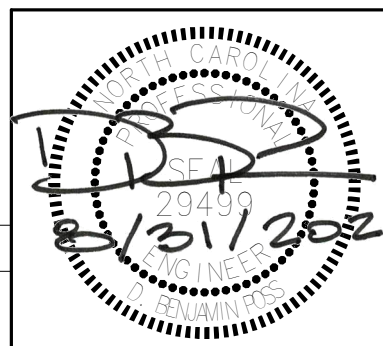
PRE-ENGINEERED SYSTEMS AND COMPONENTS SHALL BE DESIGNED BASED ON THE MINIMUM LOAD REQUIREMENTS PER ASCE-7 AND THE ABOVE BASIC LOAD PARAMETERS.

3. THE STRUCTURE HAS BEEN DESIGNED TO WITHSTAND IN-SERVICE LOADS ONLY. METHODS, PROCEDURES, AND SEQUENCES OF CONSTRUCTION ARE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO MAINTAIN AND INSURE THE INTEGRITY OF THE STRUCTURE AT ALL STAGES OF CONSTRUCTION.
4. STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS, AND DRAWINGS OF OTHER TRADES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SEEING THAT THE WORK OF ALL TRADES IS COORDINATED WITH THE STRUCTURAL WORK.
5. CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL DIMENSIONS SHOWN ON THE TOTAL CONTRACT DOCUMENTS.
6. ANYTHING WHICH, IN THE OPINION OF THE CONTRACTOR, APPEARS TO BE DEFICIENCIES, OMISSIONS, CONTRADICTIONS, OR AMBIGUITIES IN THE PLANS OR SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE DESIGNER. CORRECTIONS OR WRITTEN INTERPRETATIONS SHALL BE ISSUED BEFORE CONSTRUCTION OF THE AFFECTED WORK MAY PROCEED.
7. WHERE CONFLICTS OCCUR BETWEEN NOTES, DRAWINGS, OR SPECIFICATIONS, THE CONTRACTOR SHALL NOT PROCEED WITH THE AFFECTED WORK UNTIL THE STRUCTURAL ENGINEER ISSUES A CLARIFICATION.
8. UNIFORM LIVE LOADS HAVE BEEN REDUCED IN ACCORDANCE WITH THE PROVISIONS OF SECTION 1607.9 OF THE NC STATE BUILDING CODE.

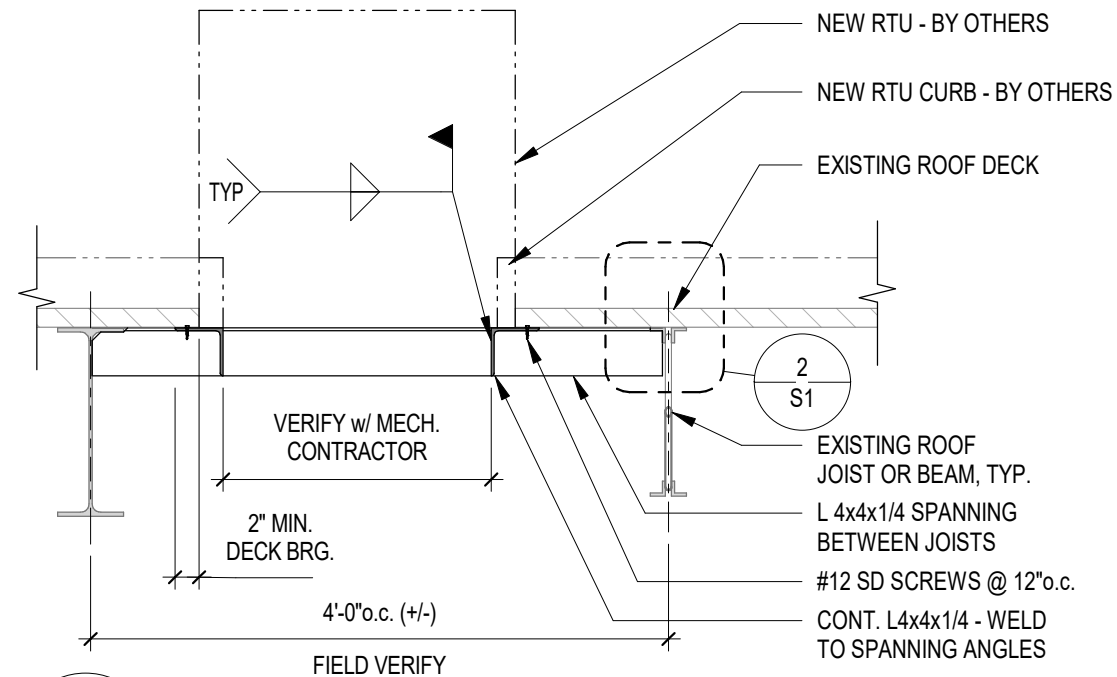
SS - STRUCTURAL STEEL

1. STRUCTURAL STEEL ANGLES, CHANNELS, AND PLATES SHALL CONFORM TO ASTM A36, $F_y=36$ KSI, U.O.N.
2. BOLTS FOR CONNECTING STRUCTURAL STEEL SHALL BE 3/4" DIAMETER, CONFORMING TO ASTM A325-N, TYPE 1, U.O.N.
3. FABRICATION AND ERECTION OF ALL STRUCTURAL STEEL SHALL BE IN ACCORDANCE WITH THE CURRENT AISC SPECIFICATIONS.
4. WELDING SHALL CONFORM TO THE AMERICAN WELDING SOCIETY STANDARD D1.1. ELECTRODES FOR SHOP AND FIELD WELDS SHALL CONFORM TO AWS A5.1 OR AWS 5.5, CLASS E70XX, LOW HYDROGEN, UNLESS NOTED OTHERWISE. ONLY WELDERS WHO HAVE BEEN QUALIFIED BY TESTS AS PRESCRIBED IN THE REFERENCED STANDARDS TO PERFORM THE TYPE OF WORK REQUIRED SHALL MAKE WELDS.
5. SPLICING OF STRUCTURAL STEEL MEMBERS WHERE NOT DETAILED ON THE CONTRACT DOCUMENTS IS PROHIBITED WITHOUT THE PRIOR APPROVAL OF THE STRUCTURAL ENGINEER AS TO THE LOCATION, TYPE OF SPLICE, AND CONNECTION TO BE MADE.

1	Description	Date
	Revision Schedule	



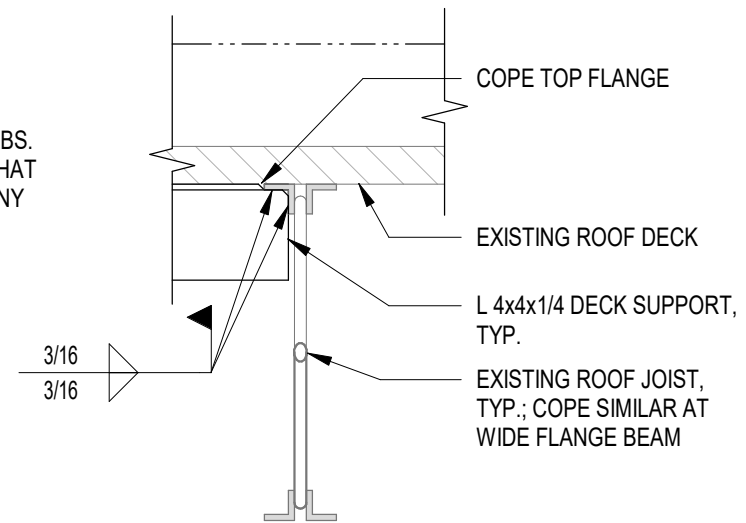
NOTE:
1. REFER TO MECHANICAL DRAWINGS FOR QUANTITIES, LOCATIONS AND SIZES, TYPICAL.



1 EXISTING DECK SUPPORT @ NEW RTU
S1 3/4" = 1'-0"

RTU INSTALLATION NOTES:

1. MAXIMUM RTU UNIT WEIGHT = 1200 LBS.
2. RTU UNITS SHALL BE LOCATED SO THAT ONLY ONE UNIT IS SUPPORTED BY ANY JOIST SPAN.



2 EXISTING DECK SUPPORT ATTACHMENT
S1 1 1/2" = 1'-0"

**BRCC SPEARMAN
NEW RTU SUPPORT FRAMING
ROOMS 128, 144, & 148**

Blue Ridge Community College

Date: 08/31/21
Drawn By: GKA
Approved By: DBP
Project No: 20210080

Drawing Name:
STRUCTURAL NOTES &
NEW RTU SUPPORT

Sheet Number:

S1