

NOTES:

GENERAL CONSTRUCTION:

1. THE CONTRACTOR SHALL HAVE SOLE RESPONSIBILITY FOR DETERMINING THE MEANS, METHODS, SEQUENCES, AND SAFETY PROCEDURES USED IN PERFORMING THE WORK. SHOULD THE ENGINEER VISIT THE SITE, IT IS IN THE CAPACITY AS ENGINEER AND NOT IN THE CAPACITY OF A CONTRACTOR.
2. ANY CONDITION ENCOUNTERED IN THE EXISTING STRUCTURAL SYSTEM WHICH IS DIFFERENT FROM THAT INDICATED IN DRAWINGS OR WHICH MIGHT CREATE A FAILURE OR HAZARD SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ENGINEER.
3. GROUT BELOW BEAM BEARING AND COLUMN BASE PLATES SHALL BE IN PLACE AND PROPERLY CURED PRIOR TO ANY APPLICATION OF LOAD TO THE SUPPORTED MEMBER.

DESIGN CRITERIA:

1. THE STRUCTURAL ENGINEERING DESIGN IS BASED ON AND IN ACCORDANCE WITH THE FOLLOWING CODE(S)
INTERNATIONAL BUILDING CODE - IBC 2018
AMERICAN SOCIETY OF CIVIL ENGINEERS - ASCE7-16
2. UNLESS OTHERWISE SHOWN OR NOTED ON THE DRAWINGS, THE STRUCTURAL DESIGN IS BASED ON THE FOLLOWING TYPICAL UNIFORM LOADS:

LIVE ROOF 20 PSF

SNOW PG 20 PSF

WIND EXPOSURE C
V 109 MPH
I 1
Kzt 1
Kd 0.85

SEISMIC Ss 0.096g
S1 0.070g
SITE CLASS D

SOIL PER REPORT PROVIDED BY: 1500 PSF
ASSUMED NET ALLOWABLE BEARING PRESSURE

CONCRETE REINFORCEMENT:

1. REINFORCEMENT MATERIALS:
A. DEFORMED BARS - NEW BILLET STEEL COMPLYING WITH ASTM A615 AND HAVING A MINIMUM YIELD STRENGTH OF 60000 PSI.
B. REINFORCING BAR DETAILING, FABRICATING, AND PLACING SHALL CONFORM TO THE MOST CURRENT EDITIONS OF CONCRETE REINFORCING STEEL INSTITUTE'S "REINFORCING BAR DETAILING" AND "PLACING REINFORCING BARS".

CONCRETE:

1. REINFORCED CONCRETE IS DESIGNED IN ACCORDANCE WITH AND SHALL BE PLACED IN COMPLIANCE WITH PROVISIONS OF THE FOLLOWING CODES, SPECIFICATIONS, AND STANDARDS:
A. ACI 304- RECOMMENDED PRACTICE FOR MEASURING, MIXING, TRANSPORTING, AND PLACING OF CONCRETE
B. ACI 318- BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE
C. CONCRETE REINFORCING STEEL INSTITUTE (CRSI) "MANUAL OF STANDARD PRACTICE."
2. CONCRETE MIX DESIGNS: CLASS A CONCRETE- AIR ENTRAINED MEETING THE FOLLOWING REQUIREMENTS:
A. SLUMP: 4" ± 1
B. MAXIMUM AGGREGATE SIZE: 3/4 INCH
C. MAXIMUM W/C RATIO: 0.462
D. AIR CONTENT = 5.5% ± 1%

3. MINIMUM CONCRETE COMPRESSIVE STRENGTH (F'C) AT 28 DAYS: FOOTINGS 4000 PSI

STEEL:

1. ALL STRUCTURAL STEEL SHALL BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH AISC "STEEL CONSTRUCTION MANUAL 360-16
2. ALL STRUCTURAL STEEL, UNLESS OTHERWISE NOTED, SHALL CONFORM TO THE FOLLOWING ASTM SPECIFICATIONS:
W-SHAPES A992
CHANNELS A36
ANGLES A36
ROUND HSS A500 GRADE B
SQUARE & RECTANGULAR HSS A500 GRADE B
STRUCTURAL PLATE AND BARS A36
3. ALL BOLTED CONNECTIONS FOR STRUCTURAL STEEL SHALL CONFORM TO RCSC "SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS," DATED June 30, 2004.
4. ALL WELDED CONNECTIONS FOR STRUCTURAL STEEL SHALL CONFORM TO AWS "STRUCTURAL WELDING CODE," D1.1.
5. UNLESS OTHERWISE SHOWN OR NOTED ON THE DRAWINGS, ALL WELDED CONNECTIONS SHALL BE MADE WITH A-233 CLASS E-70 SERIES ELECTRODES OR BY SUBMERGED ARC WELDING GRADE AWS -2.
6. ALL EXTERIOR STEEL SHALL BE GALVANIZED, AND FIELD WELDS SHALL BE REPAIRED PER ASTM A 780 "STANDARD PRACTICE FOR REPAIR OF DAMAGED AND UNCOATED AREAS OF HOT-DIP GALVANIZED COATINGS".
7. ANCHOR BOLTS SHALL CONFORM TO ASTM F1554 GR36.
8. ALL GROUT BELOW ALL COLUMN BASE PLATES SHALL BE NON-SHRINK NON-METALIC GROUT UNLESS OTHERWISE SHOWN OR NOTED.

CONTRACTOR SHALL CONFIRM ALL CONNECTIONS ARE INSTALLED FREE OF CORROSION OR OTHER DAMAGE.

