# GENERAL NOTES:

STRUCTURAL DESIGN CRITERIA

DESIGN WIND SPEED

3. SNOW: GROUND SNOW LOAD

4. LIVE LOADS:

5. DEAD LOADS:

FOUNDATION NOTES:

BUILDING EXPOSURE CATEGORY

IMPORTANCE FACTOR.

EXPOSURE FACTOR, Ce

FLAT ROOF SNOW LOAD

NON-SLEEPING ROOMS

SLEEPING ROOMS

ROOF DEAD LOADS

FLOOR DEAD LOADS

DEPTH OF 4'-0" BELOW FINISHED GRADE

STRUCTURAL STEEL CONTRACTOR'S DRAWINGS

SLABS UNLESS NOTED OTHERWISE

- 1. STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH JOB SPECIFICATIONS AND ARCHITECTURAL, MECHANICAL ELECTRICAL, PLUMBING, AND SITE DRAWINGS. CONSULT THESE DRAWINGS FOR LOCATIONS AND DIMENSIONS OF OPENINGS, CHASES, INSERTS, REGLETS, SLEEVES, DEPRESSIONS, AND OTHER DETAILS NOT SHOWN ON THE STRUCTURAL DRAWINGS
- 2. ALL DIMENSIONS AND CONDITIONS MUST BE VERIFIED IN THE FIELD. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE PROCEEDING WITH THE AFFECTED PART OF THE WORK.
- 3. THE STRUCTURE IS DESIGNED TO BE SELF SUPPORTING AND STABLE AFTER THE BUILDING IS COMPLETE. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO DETERMINE ERECTION PROCEDURES AND SEQUENCE TO ENSURE SAFETY OF THE STRUCTURE AND PERSONNEL DURING ERECTION. THIS INCLUDES THE ADDITION OF THE NECESSARY SHORING, SHEETING, TEMPORARY BRACING, GUYS OR TIEDOWNS. SUCH MATERIAL SHALL REMAIN THE PROPERTY OF THE CONTRACTOR AFTER COMPLETION OF THE PROJECT.
- 4. ALL APPLICABLE FEDERAL, STATE, AND MUNICIPAL REGULATIONS SHALL BE FOLLOWED, INCLUDING THE FEDERAL DEPARTMENT OF LABOR OCCUPATIONAL SAFETY AND HEALTH ACT

2. DESIGN WIND LOADS - MAIN WIND FORCE RESISTING SYSTEM:

BUILDING USE IMPORTANCE FACTOR (WIND) = 1.0

I. FOUNDATION DESIGNED BASED ON AN ASSUMED MAXIMUM

ENGINEER AND STOP WORK IF CLAY, WET SOILS, FILL,

OR OTHER DELETERIOUS MATERIALS ARE ENCOUNTERED

2. DESIGN OF EXTERIOR FOUNDATIONS IS BASED ON A FROST

3. NO HORIZONTAL JOINT WILL BE PERMITTED IN THE WALLS OR

4. FOUNDATION CONTRACTOR SHALL SET COLUMN ANCHOR BOLTS

FOUNDATION WALLS SHALL BE DONE SUCH THAT SYMMETRICAL LOADING SHALL BE MAINTAINED ON BOTH SIDES. WHERE DESIGN

CONDITIONS REQUIRE DIFFERENT BACK FILL HEIGHTS. WALLS

SHALL BE FIRMLY SHORED IN POSITION, AND SHORES SHALL

REMAIN UNTIL FLOORS ARE PLACED AND PROPERLY SET. TO

AND LEVELING PLATES, INCLUDING GROUTING, AS PER THE

5. EXCAVATING AND BACK FILLING AT NEW AND EXISTING

ALLOWABLE BEARING PRESSURE OF 2500 PSF NOTIFY THE

1. BUILDING CODE: 2003 EDITION OF THE INTERNATIONAL BUILDING CODE

= 100 MPH

= 60 PSF

= 42 PSF

= 40 PSF

= 30 PSF

= 10 PSF

= 15 PSF

= 1.0

= 0.7

= B

### STRUCTURAL STEEL NOTES - GENERAL

- . STRUCTURAL STEEL FABRICATION, ERECTION, AND CONNECTION DESIGN SHALL CONFORM TO AISC "SPECIFICATION FOR THE DESIGN, FABRICATION, AND ERECTION OF STRUCTURAL STEEL"
- 2. ALL STEEL SHAPES AND PLATES TO BE ASTM A36 UNLESS NOTED OTHERWISE. ALL WF SHAPES TO BE ASTM A572/A992 GR 50
- 3. STRUCTURAL TUBING SHALL CONFORM TO ASTM A500, GRADE B. STEEL PIPES SHALL BE A53, GRADE B
- 4. ALL BOLTED CONNECTIONS SHALL BE MADE WITH 3/10 ASTM A325 HIGH STRENGTH BOLTS.
- 5. WELDING SHALL BE IN ACCORDANCE WITH AWS DI.I LATEST EDITION. ALL WELDS SHALL BE MADE WITH E70XX ELECTRODES
- 6. STEEL BEAMS AND COLUMNS SHALL BE CUT FROM FULL LENGTH STOCK. UNAUTHORIZED SPLICES WILL BE CAUSE FOR REJECTION
- 7. STRUCTURAL STEEL SHALL BE PAINTED WITH A SHOP APPLIED
- 8. SUBMIT COMPLETE STRUCTURAL STEEL SHOP DRAWINGS FOR REVIEW PRIOR TO ANY STEEL FABRICATION.

COAT OF THE FABRICATOR'S RUST INHIBITIVE PRIMER

## WOOD FRAMING NOTES

- 2. DESIGN CODE: NATIONAL DESIGN SPECIFICATIONS FOR WOOD CONSTRUCTION BY THE NATIONAL FOREST PRODUCTS ASSOCIATION.
- 3. FASTENERS: COMPLY WITH RECOMMENDED FASTENING SCHEDULE OF THE APPLICABLE BUILDING CODE, LATEST EDITION,
- 4. NAILING REQUIREMENTS FOR PLYWOOD ROOF DECK: PROVIDE 8d NAILS AS FOLLOWS UNLESS SHOWN OTHERWISE; 8d NAILS @ 6" o.c. ALONG PANEL EDGES 8d NAILS @ 12" o.c. ALONG INTERMEDIATE MEMBERS
- 6. PROVIDE GALVANIZED METAL TIES EQUAL TO SIMPSON H2.5 HURRICANE TIES BETWEEN ROOF TRUSSES AND SUPPORTING MEMBERS EA. SIDE OF TRUSSES ON OPPOSITE SIDES OF SUPPORTING MEMBERS, UNLESS SHOWN OTHERWISE, HOLD DOWN ANCHORS AT ALL GIRDER TRUSSES TO BE SPECIFIED DURING WOOD TRUSS SHOP DRAWING REVIEW BY ENGINEER OF RECORD.
- 8 ROOF SHEATHING: 5/8" APA RATED SHEATHING, EXTERIOR OR STRUCTURAL I OR II RATED SHEATHING, SPAN RATING 32/16. INSTALL SHEETS WITH FACE GRAIN DIRECTION PERPENDICULAR TO SUPPORTING MEMBERS.
- 9. HEADER SIZES SUBJECT TO CHANGE BY ENGINEER OF RECORD AFTER WOOD TRUSS SHOP DRAWING REVIEW, DEPENDING ON EXACT LOCATIONS OF GIRDER TRUSSES BY WOOD TRUSS MANUFACTURER
- 10. ALL SIMPSON POST BASES @ PORCHES SHALL BE STAINLESS STEEL.

- 1. STRUCTURAL LUMBER:
- No. 2 SPRUCE PINE FIR OR BETTER. Fb = 750 PSIFv = 70 PSIFc = 975 PSIE = 1100000 PSI LVL's \$ TJI'S AS MFG. BY BOISE CASCADE
- UNLESS SHOWN OTHERWISE ON THE DRAWINGS.
- 5. SPIKE TOGETHER ALL FRAMING MEMBERS WHICH ARE BUILT-UP USING MULTIPLE 2x LUMBER.
- 7. PROVIDE PRESSURE TREATED LUMBER FOR ALL LUMBER IN CONTACT WITH MASONRY OR CONCRETE.
- ALL OTHER SIMPSON HANGERS SHALL BE Z-MAX GALVANIZED (G185).

#### WOOD TRUSS NOTES

- . DESIGN CRITERIA FOR ROOF/FLOOR SYSTEM: A. LIVE LOADS
  - PER STRUCTURAL DESIGN CRITERIA
  - B. DEAD LOADS
  - PER STRUCTURAL DESIGN CRITERIA
  - C. WIND LOAD
- PER STRUCTURAL DESIGN CRITERIA
- D. LOAD COMBINATIONS
- PER IBC 2003 E. ALLOWABLE DEFLECTION = L/360 @ ROOF
- = L/480 @ FLOORS F. PROVIDE BOTTOM CHORD CAMBER EQUAL TO THE TRUSS DEAD LOAD DEFLECTION.

## 2. MATERIALS:

- A. STRESS GRADED LUMBER, METAL PLATE CONNECTORS
- 3. APPLICABLE SPECIFICATIONS: A. NATIONAL DESIGN SPECIFICATIONS FOR STRESS GRADE
  - LUMBER AND ITS FASTENING (NDS).
  - B. MOST RECENT AITC STANDARDS. C. DESIGN SPECIFICATIONS FOR LIGHT METAL PLATE CONNECTED WOOD TRUSSES. TPI LATEST EDITION.

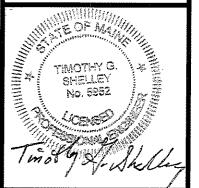
#### 4. BRACING:

- A. TRUSS MANUFACTURER SHALL SPECIFY ALL BRACING FOR BOTH TEMPORARY CONSTRUCTION LOADING AND FOR PERMANENT LATERAL SUPPORT OF COMPRESSION MEMBERS AS WELL AS ERECTION PROCEDURES.
- B. MINIMUM BRACING REQUIREMENTS AND INSTRUCTIONS FURNISHED BY TRUSS MANUFACTURER SHALL INCLUDE AND CONFORM TO HIB-91. FOR TRUSSES OVER 60 FEET, TRUSS MANUFACTURER SHALL PROVIDE BRACING REQUIREMENTS WHERE NOT PROVIDED IN HIB-91.
- C. ALL TEMPORARY AND PERMANENT BRACING SHALL BE MINIMUM 2X4 SPF No. 2 MATERIAL CONNECTED WITH MINIMUM 2-16d NAILS AT ALL CONNECTIONS, UNLESS OTHERWISE SPECIFIED BY TRUSS MANUFACTURER OR HIB-91.
- D. THE CONTRACTOR SHALL COMPLY WITH THE "COMMENTARY AND RECOMMENDATIONS FOR HANDLING, INSTALLING, AND BRACING METAL PLATE CONNECTED WOOD TRUSSES, HIB-91." IT IS THE RESPONSIBILITY OF THE INSTALLER/CONTRACTOR TO PROPERLY RECEIVE, UNLOAD, STORE, HANDLE, INSTALL, AND BRACE TRUSSES TO PROTECT LIFE AND PROPERTY.
- 5. ALL FABRICATED TRUSSES SHALL RECEIVE THE TPI MARK OF APPROVAL IN ACCORDANCE WITH THE TRUSS PLATE INSTITUTE PROCEDURES.
- 6. SUBMIT TRUSS SHOP DRAWINGS FOR REVIEW PRIOR TO TRUSS MANUFACTURE
- 7. TRUSSES ARE SHOWN WITH 2X4 DIMENSION LUMBER. ANY VARIATIONS SHALL BE NOTED ON THE TRUSS SHOP DRAWINGS AND CLEARLY CALLED OUT TO THE ATTENTION OF THE ENGINEER
- 8. ANY VARIATIONS BY THE TRUSS MANUFACTURER FROM THESE DRAWINGS INCLUDING BUT NOT LIMITED TO THE NEED FOR BIRD MOUTHS SHALL BE CLEARLY NOTED ON THE TRUSS DRAWINGS. APPROPRIATE DETAILS SHALL BE PROVIDED, WHICH SHOW SUCH VARIATIONS. ALL VARIATIONS SHALL BE APPROVED BY THE ENGINEER.
- 9. DESIGN TRUSSES TO MAINTAIN DIMENSIONS AND LOADS SHOWN.
- 10. PROVIDE GALVANIZED METAL TIES EQUAL TO SIMPSON H2.5A HURRICANE TIES BETWEEN ROOF TRUSSES AND SUPPORTING MEMBERS EA. SIDE OF TRUSSES ON OPPOSITE SIDES OF SUPPORTING MEMBERS, UNLESS SHOWN OTHERWISE, HOLD DOWN ANCHORS AT ALL GIRDER TRUSSES TO BE SPECIFIED DURING WOOD TRUSS SHOP DRAWING REVIEW BY ENGINEER OF RECORD

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STRUCTURAL Notes

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# CONCRETE NOTES:

PROVIDE FULL SUPPORT.

- 1. ALL CONCRETE WORK SHALL CONFORM TO ACI-318-LATEST EDITION.
- 2. CONCRETE COMPRESSIVE STRENGTH AT 28 DAYS SHALL BE 3000 PSI, MAXIMUM SIZE AGGREGATE SHALL BE 3/4"
- 3. CONCRETE TO REMAIN EXPOSED TO WEATHER SHALL BE AIR ENTRAINED.
- 4. CONCRETE SHALL NOT BE PLACED IN WATER OR ON FROZEN GROUND.
- 5 REINFORCING BARS SHALL CONFORM TO ASTM AGIS GRADE 60. DEFORMED BARS SHALL BE DETAILED AND FABRICATED IN ACCORDANCE TO ACI-315 LATEST EDITION, AND PLACED IN ACCORDANCE WITH ACI-318.
- 6. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185 AND BE PROVIDED IN FLAT SHEETS.
- 7. SPLICES OF REINFORCING BARS SHALL BE IN ACCORDANCE WITH ACI-318. SPLICES OF WWF SHALL BE 6" MINIMUM.
- 8. ANCHOR BOLTS SHALL CONFORM TO ASTM A307.
- 9. HOOKS NOT DIMENSIONED SHALL BE ACI STANDARD HOOKS.
- 10.CONCRETE COVER OVER REINFORCEMENT SHALL BE AS FOLLOWS: CONCRETE CAST AGAINST EARTH CONCRETE EXPOSED TO EARTH OR WEATHER = 1% CONCRETE NOT EXPOSED TO EARTH OR WEATHER = 37
- 11. CONCRETE CONTROL JOINT SPACING SHOWN IS AN ATTEMPT TO CONTROL THE CRACKING OF THE SLAB WHILE IT CURES. THE LAYOUT SHOWN DOES NOT WARRANTY THAT ALL CRACKS WILL BE CONTROLLED