

GENERAL NOTES:

BUILDING CODE:
STRUCTURAL DESIGN CONFORMS TO THE REQUIREMENTS OF THE 2008 INTERNATIONAL BUILDING CODE (IBC) WITH STATE OF MINNESOTA AMMENDMENTS.

DESIGN LOADS:

WIND LOADS
BASIC WIND SPEED (3 SECOND GUST) 90 MPH
WIND IMPORTANCE FACTOR 1.0
EXPOSURE C

ROOF LOAD
LIVE LOAD (L.L.) 42 PSF **
DEAD LOAD (DESIGN D.L.) 20 PSF

NET UPLIFT FOR TRUSS DESIGN
WITHIN 7'-0" OF BLDG. PERIMETER 23 PSF
INTERIOR 13.5 PSF

GROUND SNOW LOAD 50 PSF
FLAT ROOF SNOW LOAD 42 PSF
SNOW EXPOSURE FACTOR 1.0
SNOW LOAD IMPORTANCE FACTOR 1.2
THERMAL FACTOR 1.0

** PLUS SNOW ACCUMULATION AS REQUIRED BY IBC, CHAPTER 16, SECTION 1608 AND ASCE7-05

FLOOR LOADS:
LIVE LOAD (L.L.) ROOMS 114,115,116, AND 117 80 PSF ***
LIVE LOAD (L.L.) ROOM 119 100 PSF
ALTERNATE LIVE LOAD ROOMS 114,115,116, AND 117 100 PSF****
STORAGE LIVE LOAD (L.L.) ROOM 118 125 PSF
DEAD LOAD (D.L.) 15 PSF

*** INCLUDE 2,000 LB. CONCENTRATED LOAD CHECK IN ROOMS 114,115,116, AND 117.
**** NO CONCENTRATED LOAD CHECK REQUIRED WITH 100 PSF LOAD

COORDINATION:

- STRUCTURAL MEMBERS INCLUDING SLABS, BEAMS, JOIST AND WALLS ARE DESIGNED FOR " IN PLACE LOADS ". CONTRACTOR SHALL BE RESPONSIBLE FOR BRACING WITHOUT OVERTRESSING ALL STRUCTURAL ELEMENTS AS REQUIRED AT ANY STAGE OF CONSTRUCTION UNTIL COMPLETION OF THIS PROJECT.

FOUNDATION:

- FOUNDATIONS, FOUNDATION DRAINAGE, SLABS ON GRADE, AND OTHER ITEMS RELATED TO THE SOILS ARE DESIGNED AND SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE SOIL ENGINEER. ASSUMED ALLOWABLE BEARING PRESSURE IS 2500 PSF. SOIL BEARING PRESSURE SHALL BE VERIFIED PRIOR TO CONSTRUCTION AND REPORT ANY DISCREPANCIES TO THE ENGINEER.

CONCRETE:

- ALL CONCRETE SHALL BE NORMAL WEIGHT (150 PCF), MINIMUM 28 DAY COMPRESSIVE STRENGTH AS SPECIFIED BELOW:
FOOTINGS 3000 PSI
SLAB ON GRADE 4000 PSI
- PROVIDE 3" CLEAR COVER ON BOTTOM AND SIDES FOR FOOTING REINFORCING
- MAX. DISTANCE BETWEEN SLAB CONTROL OR CONSTRUCTION JOINTS SHALL BE (3) TIMES THE SLAB THICKNESS (IN FEET) NOT TO EXCEED 18'-0"
- SLAB ON GRADE CONTROL JOINTS SHALL BE COMPLETED WITHIN 12 HOURS OF CONCRETE PLACEMENT. CONTROL JOINTS MAY BE INSTALLED BY SAWCUTTING DEPTH OF 1/4 THE THICKNESS OF THE SLAB.
- EXCEPT WHERE OTHERWISE SHOWN SLABS ON GRADE SHALL BE 6" THICK CONCRETE REINFORCED WITH 6X6-1010 WELDED WIRE MESH OR FIBERMESH.
- CONTRACTOR SHALL SUBMIT CONCRETE MIX DESIGNS. ALL SLAB CONCRETE SHALL BE 4000 PSI W/ WATER CONTENT RATIO LESS THAN .50 AND PLASTICIZER ADDED AT JOB SITE.

MASONRY:

- CONCRETE MASONRY UNITS SHALL CONFORM TO THE REQUIREMENTS OF ASTM C90.
- MINIMUM COMPRESSIVE STRENGTH OF MSY UNITS F_m 1500 PSI. GROUT FOR HOLLOW MASONRY UNITS SHALL HAVE A 50 PSI COMPRESSIVE STRENGTH OF 3000 PSI. AND SHALL BE NORMAL WEIGHT CONCRETE.
- ALL MASONRY WALLS SHALL HAVE HORIZONTAL REINFORCING FABRICATED WITH 3 GAGE SIDE RODS. THIS REINFORCING SHALL BE LOCATED AT EVERY OTHER COURSE.
- ALL VERTICAL REINFORCING SHALL BE CONTINUOUS WITH 48 BAR DIAMETER LAPS AT SPLICES UNLESS NOTED.
- MASONRY WALLS SHALL HAVE VERTICAL CONTROL JOINTS AT A MAXIMUM OF 25'-0" U.N.O.

STRUCTURAL STEEL:

- DESIGN DETAILING, FABRICATION AND ERECTION OF STRUCTURAL STEEL SHALL BE IN ACCORDANCE WITH THE AISC "MANUAL OF STEEL CONSTRUCTION"
- ALL STRUCTURAL STEEL SHALL CONFORM TO ASTM A36 OR A572 (AS NOTED)
- ALL WELDING SHALL BE DONE BY CERTIFIED WELDERS USING E70XX ELECTRODES AND SHALL CONFORM TO AWS STANDARDS.
- ANCHOR BOLTS SHALL BE 5/8" DIAMETER ASTM A307 MIN.

REINFORCING STEEL:

- REINFORCING STEEL SHALL CONFORM TO ASTM (GRADE 60)
- WELDED WIRE FABRIC SHALL BE NEW BILLET STEEL, COLD DRAWN AND CONFORMING TO ASTM A185 AND A82.
- BAR SUPPORTS, DESIGN, DETAILING FABRICATION AND PLACING OF REINFORCING BARS AND MESH SHALL BE IN ACCORDANCE WITH THE ACI CODE AND DETAILING MANUAL UNLESS NOTED OTHERWISE. ALL REINFORCING LAP SPLICES SHALL BE 48 BAR DIAMETER OR 12", WHICHEVER IS GREATER.

METAL STAIRS:

- STAIR SHOP DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW.
- STAIRS SHALL BE DESIGNED FOR 100 PSF LIVE LOAD.

WOOD TRUSSES:

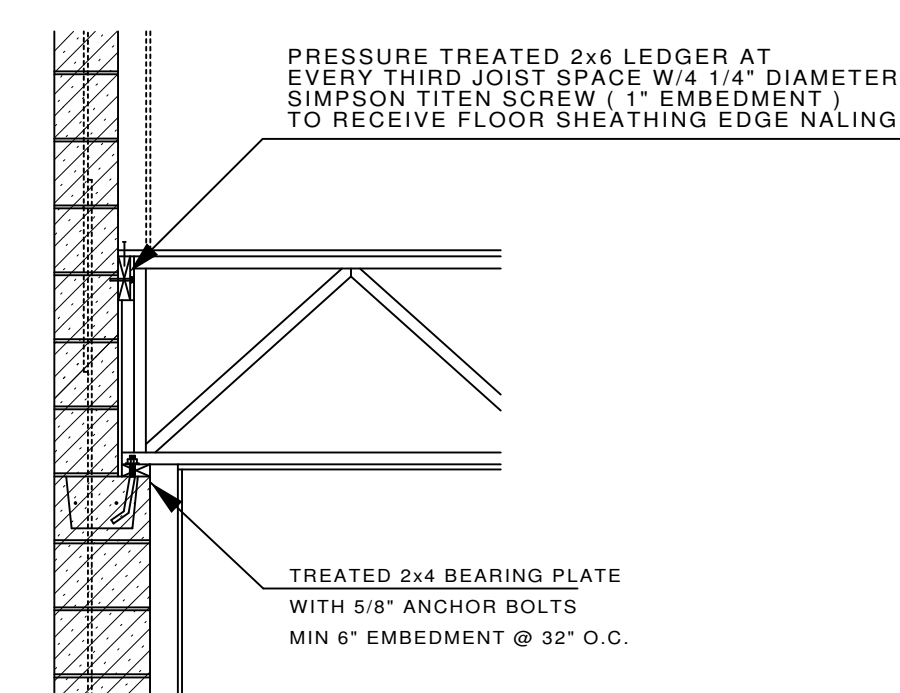
- ROOF TRUSSES DESIGNED FOR THE LOADS LISTED ABOVE.
- SUBMIT CERTIFIED CALCULATIONS WITH THE SHOP DRAWINGS.
- REFER TO DRAWINGS FOR REQUIRED CONFIGURATION, PITCH, OVERHANG, ECT.
- PROVIDE GIRDER TRUSSES, ATTIC TRUSSES, MONO TRUSSES, ECT., AS REQUIRED.
- PROVIDE METAL FRAMING ANCHORS AT TRUSS BEARING LOCATIONS.
- NO FIELD MODIFICATIONS OF ROOF OR FLOOR TRUSSES SHALL BE ALLOWED WITHOUT THE WRITTEN APPROVAL OF THE TRUSS MANUFACTURER.

STRUCTURAL PLYWOOD

- SHEATH ROOF WITH 5/16" OSB(40/20) PERP TO FRAMING & STAGGERED & NAIL W/ 8d AT 8" O.C. EDGES, 12" O.C. FIELD. SHEATH FLOOR WITH 3/4" T&G (40/20) PERP TO FRAMING & STAGGER & NAIL W/ 8d AT 6" O.C. EDGES, 12" O.C. FIELD.
- NAIL SIZE AND PATTERN SHALL BE AS INDICATED ON THE DRAWINGS.
- PLYWOOD SHALL HAVE MINIMUM OF 5 PLYS IN CONFORMANCE WITH APA PANELIZED PLYWOOD SYSTEM.

SPECIAL INSPECTIONS

- SPECIAL INSPECTIONS AND TESTING REQUIREMENTS SHALL BE VERIFIED WITH THE LOCAL BUILDING DEPARTMENT
- REFER TO INDIVIDUAL SECTIONS IN THE GENERAL NOTES FOR STRENGTH REQUIREMENTS.



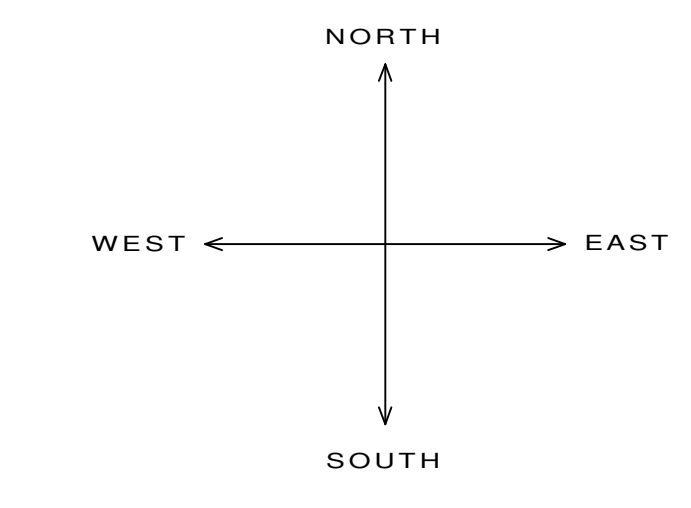
FLOOR TRUSS BEARING DETAIL
SCALE: 1/2" = 1'-0"

FLOOR FRAMING PLAN
SCALE: 1/4" = 1'-0"

MASONRY LINTEL SCHEDULE	
MARK	SIZE
(L1)	W8x18 WITH 5/16" x11" BOTTOM PLATE
(L2)	12" BOND BEAM W/ (2) #4
(L3)	W12x40 WITH 5/16" BOTTOM PLATE
(L4)	W12x26 WITH 5/16" BOTTOM PLATE
(L5)	W8x18 WITH 5/16" X 7" BOTTOM PLATE

- NOTES:**
- BEAR STEEL LINTELS 8" MIN. EACH END
 - PROVIDE MIN. (2) #5 @ 8" O.C. AT JAMBS.
 - WHERE BOTTOM PLATE IS PROVIDED AT STEEL LINTELS, EXTEND TO WITH IN 1/2" OF JAMB. DO NOT EXTEND THROUGH JAMB AT BEAM BEARING.
 - WHERE REINFORCING IS PROVIDED, EXTEND BARS 24" PAST JAMB.

FLOOR BEAM SCHEDULE	
MARK	SIZE
FB1	W6x9
FB2	2-PLY 9 1/2" LVL



CONSTRUCTION DOCUMENTS

ISANTI FIRE DISTRICT
ISANTI, MINNESOTA 55040

PROJECT # : 1-1006
DATE : 4/22/10
REV. : 5/20/10
REV. : 5/24/10
REV. : 8/18/10
REV. : 8/27/10

S107