DESIGN CRITERIA:


2. LOADS
   A) DEAD LOADS
      1) roof 10 psf
      2) floor 15 psf
   B) LIVE LOADS
      1) first floor 40 psf
      2) second floor 30 psf
      3) Attic Areas 20 psf
   C) GROUND SNOW LOAD: 40 psf
   D) DESIGN WIND SPEED: 100 mph
CONCRETE:
1. ALL CONCRETE WORK AND MATERIALS SHALL COMPLY WITH THE SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS (ACI 305).
2. ALL CONCRETE SHALL HAVE A 28 DAY COMpressive STRENGTH OF 3000 PSI WITH MAX. 1 INCH AGGREGATE AND MAX. 0.5% AIR ENTRAPMENT FOR EXC. CONCRETE EXPOSED TO MOISTURE.
3. ALL REINFORCING STEEL SHALL BEｗIRON RODS OR BARROCK SIZES FOR NEW BILLET STEEL CORRESPONDING TO ASTM A 615 GRADE 60.
4. CONCRETE COVER OF REBARS SHALL NOT BE LESS THAN 2" AT ALL LOCATION.
5. NO HORIZONTAL CONSTRUCTION JOISTS ALLOWED UNLESS SPECIFICALLY SHOWN ON THE DRAWINGS.
6. REINFORCED REBAR EMBEDDMENT LENGTH 10" BASE.

FOUNDATIONS:
1. THE ALLOWABLE PRESSURE SOIL BEARING CAPACITY IS 3000 PSC WHICH IS TO BE VARIED.
2. FOOTINGS SHALL BE CARVED TO LOWEST ELEVATION (MINUS 4") TO REACH PROPER SOIL BEARING.
3. WOLFF ACTING AS RETAINING WALLS SHALL NOT BE BACKFILLED WITHIN 3 FEET OF THE WALL UNTIL FULL AND COMPLETELY SUPPORTED AND IN PLACE AND AT ADEQUATE STRENGTH.
4. COMPACT ALL FILL UNDER FOOTINGS AND SLABS TO THE SPECIFIED DENSITY AND VARY AS RECOMMENDED.
NOTE: All mechanical vents in bathrooms, laundry room and kitchen must be vented to building exterior.
Roof sheathing fastening
5/8" cd plywood sheathing: 8d common @ 4" staggered and valleys; 8d @ 6" cc
B. A. C. 1/16", typical

INSULATION SPECIFICATIONS
Maximum U factor .35
Ceiling or exposed floor: R 38
Exterior walls: R 21
Conditioned slab area: R 10 rigid
(24" horizontal, 24" vertical)

Wall & floor fastening
5/8" cd plywood wall sheathing: 1st floor 8d common @ 4" oc, edge 3" field
2nd & 3rd floor 8d commons @ 6" oc, edge 3" field
N-UL, T&G plywood sub floor: 1st & 2nd floor 8d joisted spaced @ 6" oc, edge 12" field PL-400 construction adhesive or equal required at all plywood to joint locations.