



- CONCRETE NOTES**
- CODES AND STANDARDS (LATEST EDITION WITH CURRENT AMENDMENTS): ACI 301-SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS, ACI 318-BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE. COMPLY WITH APPLICABLE PROVISIONS, UNLESS OTHERWISE INDICATED.
 - ALL CONCRETE TO BE 4000 PSI @ 28 DAYS. 3/4" AGGREGATE, MAXIMUM WATER/CEMENT RATIO = 0.45, SLUMP 1" MINIMUM AND 3" MAXIMUM. USE A MID-RANGE WATER REDUCER IF A HIGHER SLUMP IS DESIRED. 6% AIR ENTRAINMENT FOR ALL WALLS, FOOTINGS, AND EXTERIOR SLABS. NO ENTRAINMENT AIR FOR INTERIOR SLABS.
 - CALCIUM CHLORIDE AND/OR MATERIALS CONTAINING CALCIUM CHLORIDE SHALL NOT BE USED.
 - CONCRETE CURING: USE WET BURLAP METHOD WITH POLYETHYLENE COVER. PROVIDE MINIMUM 7 DAY WET CURE. CONFORM TO ACI 302-IR GUIDE FOR CONCRETE SLAB AND FLOOR CONSTRUCTION.
 - CONCRETE SLAB CONTROL JOINTS: MAX. 10'-0"x10'-0" SQUARES, RATIO CAN BE 1:1.5 MAX.
 - PROVIDE 3-#4x3'-0" BARS AT A 45 DEGREE ANGLE AT ALL INSIDE CORNERS IN SLAB (RE-ENTRANT CORNER).
 - NO CONCRETE TO BE PLACED ON FROZEN GROUND.
 - COMPLY WITH ACI 305 FOR ALL HOT WEATHER CONCRETE PLACEMENTS.
 - COMPLY WITH ACI 306 FOR ALL COLD WEATHER CONCRETE PLACEMENTS.
 - REINFORCEMENT ASTM A615, GRADE 60; NEW DEFORMED BARS.
 - REINFORCEMENT SHALL HAVE THE FOLLOWING MINIMUM CONCRETE COVER UNLESS OTHERWISE NOTED.
 - CONCRETE DEPOSITED ON GROUND: 3"
 - CONCRETE EXPOSED TO THE GROUND OR WEATHER: 2"
 - CONCRETE NOT EXPOSED TO THE GROUND OR WEATHER: 2"
 - ALL REINFORCEMENT TO BE DETAILED, FABRICATED, AND PLACED IN ACCORDANCE WITH THE "ACI MANUAL OF STANDARD PRACTICE" (ACI-315), LATEST EDITION.
 - ALL LAP SPLICES SHALL BE CONSIDERED CLASS B TENSION LAP SPLICES UNLESS OTHERWISE NOTED.
 - ALL SLABS-ON-GRADE TO SHALL BE REINFORCED WITH 66-W1.4xW1.4, UNLESS OTHERWISE NOTED. PROVIDE CONCRETE BRICK SEATS (NOT CLAY) @ 3'-0" O.C. EACH WAY FOR SUPPORT.
 - SLAB REINFORCEMENT TO BE LOCATED AT MID-DEPTH OF CONCRETE SLABS UNLESS OTHERWISE NOTED.
 - CHAMFER ALL EXPOSED CONCRETE EDGES 1/4".
 - ALL WOOD NAILERS AND/OR SILLS IN CONTACT WITH CONCRETE OR MASONRY SHALL BE PRESSURE TREATED #2 GRADE SOUTHERN PINE OR BETTER.
 - WATERPROOF (WATERSTOP) BETWEEN ALL BASEMENT FOUNDATION WALLS AND FOOTINGS, AND AT CONTROL JOINTS BETWEEN CONCRETE PLACEMENTS WITH A STRIP OF BENTONITE MANUFACTURED BY AMERICAN COLLOID CORPORATION, ARLINGTON HEIGHTS, IL, UNDER THE TRADE NAME RX102.
 - CONTRACTOR IS RESPONSIBLE FOR ALL TEMPORARY SHORING AND/OR BRACING REQUIRED UNTIL ALL CONCRETE HAS REACHED ITS FULL DESIGN STRENGTH.
 - REINFORCING OR ADDITIONAL ENGINEERING AS REQUIRED BY SITE CONDITIONS AND/OR LOCAL BUILDING CODES IS RESPONSIBILITY OF THE BUILDER AND/OR OWNER.

- SILLS AND ANCHOR BOLTS:**
- ANCHOR BOLTS AT WOOD FRAMED WALLS:**
 - STANDARD ZINC COATED 5/8" DIA. SIMPSON TITEN HD ANCHORS (SCREW TYPE), NO EXCEPTION.
 - SPACE ANCHORS @ 2'-8" O.C.; EXCEPT SPACE @ 1'-4" O.C. MAXIMUM AT SHEAR WALL "SIW2" AND LOCATE WITHIN 4" MINIMUM / 12" MAXIMUM FROM EACH END OF EACH SECTION AND ALSO AT ALL DOOR JAMBS AND CORNERS.
 - ANCHORS TO EXTEND A MINIMUM OF 6" INTO CONCRETE OR MASONRY.
 - PROVIDE STANDARD GALVANIZED WASHER BETWEEN ALL ANCHOR BOLT NUTS AND BEARING PLATES. (SEE ITEM E BELOW)
 - PROVIDE SIMPSON STRONG-TIE BPS/8-3 HOT DIPPED GALVANIZED (HDG) BEARING PLATE BETWEEN ALL ANCHOR BOLT NUT/WASHER AND SILL PLATE.
 - PROVIDE (2) 2x6 PT SILL ALL FRAMED WALL LOCATIONS.
 - PROVIDE (1) 2x6 PT SILL AT 1ST FLOOR LEDGER FOUNDATION WALL BONDOUT WITH ANCHOR SPACING @ 4'-0" O.C.
 - ANCHOR BOLTS ARE BY BUILDER.
- FOUNDATION NOTES**
- ALL FOUNDATIONS HAVE BEEN DESIGNED BASED ON AN ASSUMED SOIL BEARING PRESSURE OF 1,500psf.
 - THE BOTTOM OF ALL EXTERIOR FOOTINGS SHALL BEAR A MINIMUM OF 4'-6" BELOW FINISHED GRADE.
 - SUBGRADE EXCAVATIONS TO BE KEPT DRY.
 - THE BOTTOM OF ALL INTERIOR FOOTINGS SHALL BEAR ON UNDISTURBED NATIVE SOIL, COMPACTED STRUCTURAL FILL, COMPACTED CRUSHED STONE, OR CLEAN/SOUND DURABLE LEDGE.
 - BEFORE PLACING CONCRETE FOR SLABS, EXISTING SOIL MATERIALS SHALL BE REMOVED AND REPLACED WITH A MINIMUM OF 6" OF COMPACTED STRUCTURAL FILL TO THE APPROPRIATE ELEVATION. STRUCTURAL FILL TO BE COMPACTED TO MINIMUM 95% OF ITS MAXIMUM DRY DENSITY, PER ASTM D1557. OPTION: USE 3/4" CRUSHED STONE AND COMPACT TO 100% OF ITS DRY RODDED WEIGHT PER ASTM.
 - IF ADEQUATE SOIL BEARING IS NOT ENCOUNTERED AT THE INDICATED BOTTOM OF FOOTING FOUNDATION, THE CONTRACTOR IS TO REPORT TO THE ENGINEER BEFORE PROCEEDING WITH THAT PART OF WORK.
 - ALL EXISTING FILL, ORGANIC, WASTE, TOPSOIL, FROZEN MATERIALS, AND DELETERIOUS MATTER SHALL BE REMOVED FROM BELOW FOOTINGS AND SLABS AND REPLACED WITH COMPACTED STRUCTURAL FILL.
 - DO NOT PLACE BACKFILL AGAINST BASEMENT FOUNDATION WALLS UNTIL THE FIRST FLOOR STRUCTURE HAS BEEN CONSTRUCTED.
 - SEE FOUNDATION PLAN FOR ALL TOP OF WALL AND SHELF ELEVATIONS.
 - ALL DRAINAGE FILL TO BE 3/4" WASHED CRUSHED STONE.
 - ALL DRAINAGE PIPE TO BE SLOPED POSITIVELY AT LEAST 2% AND EXTEND TO DAYLIGHT AT GRADE, UNLESS OTHERWISE NOTED ON PLANS.
 - PROVIDE RIGID DRAINAGE PROTECTION BOARD AT ALL FOUNDATION WALLS WITH WATERPROOFING SYSTEM PRIOR TO BACKFILLING WALLS.

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