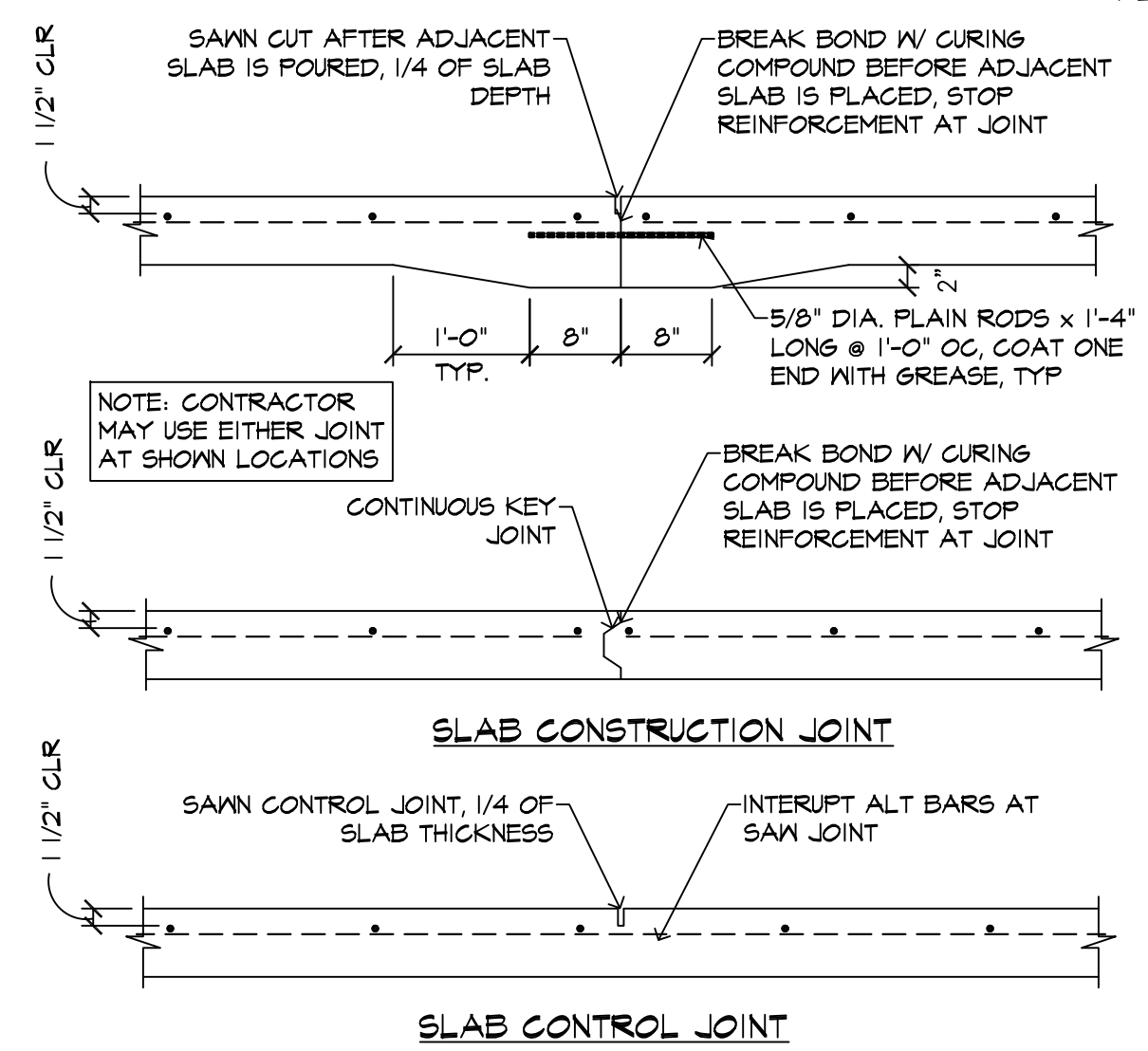
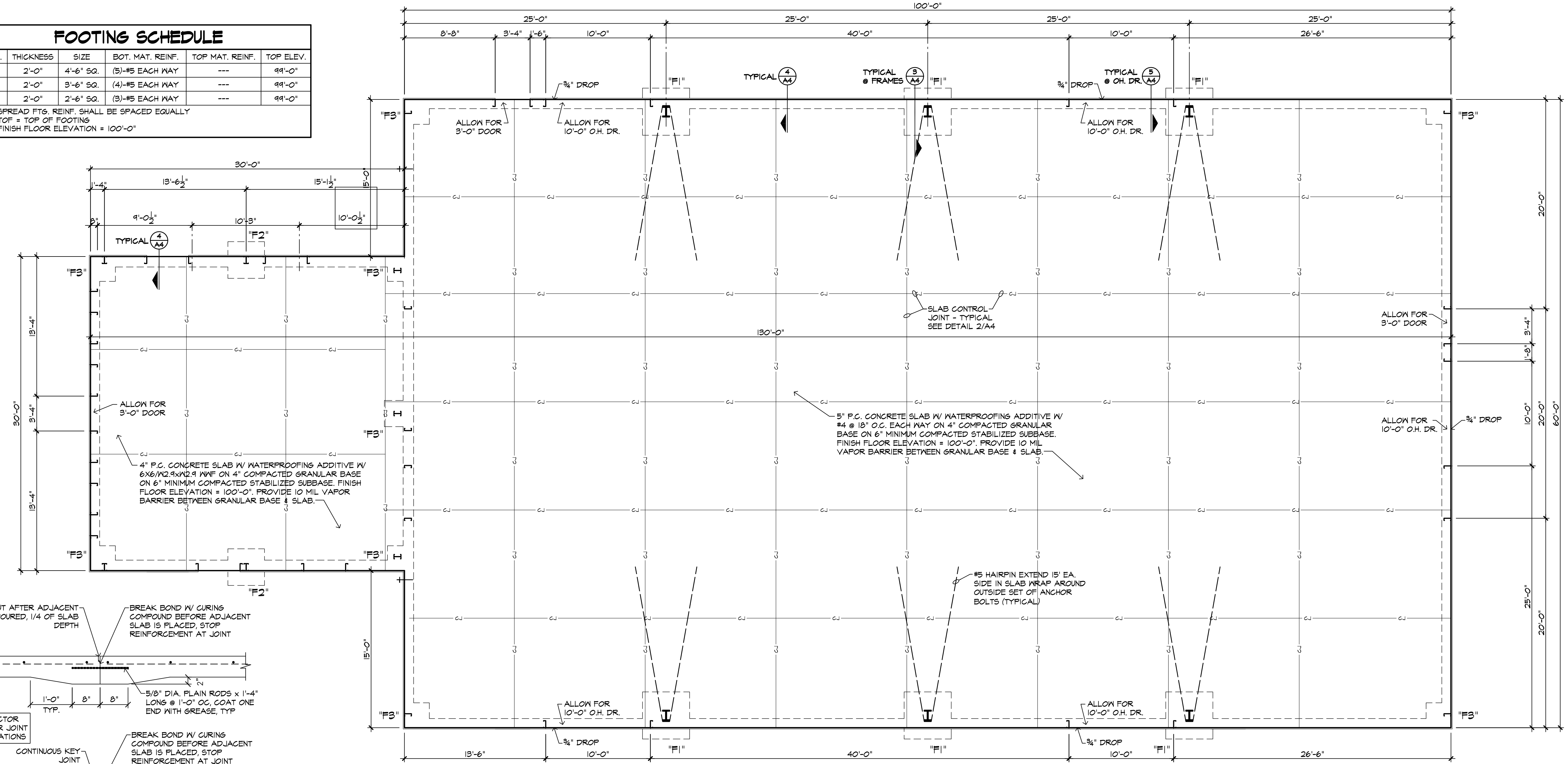
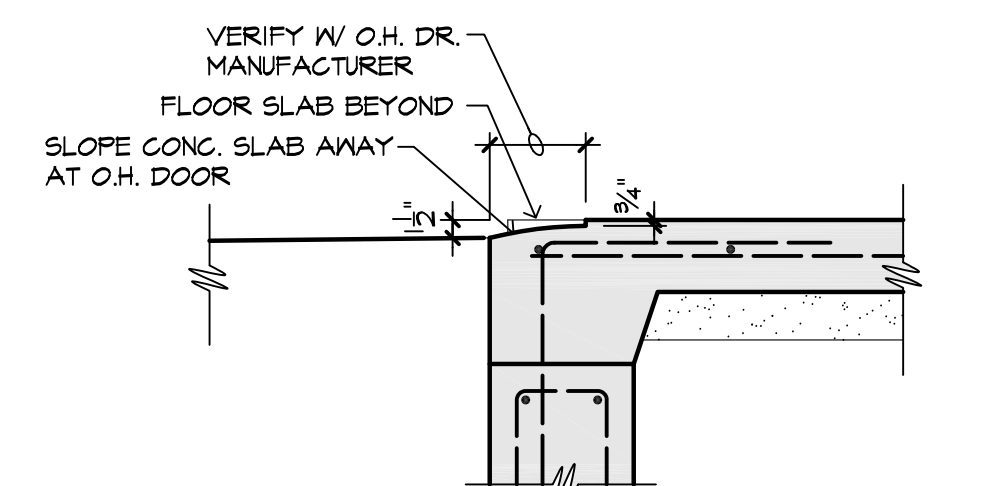


FOOTING SCHEDULE					
FTG. ID.	THICKNESS	SIZE	BOT. MAT. REINF.	TOP MAT. REINF.	TOP ELEV.
"F1"	2'-0"	4'-6" SQ.	(3)-#5 EACH WAY	---	99'-0"
"F2"	2'-0"	3'-6" SQ.	(4)-#5 EACH WAY	---	99'-0"
"F3"	2'-0"	2'-6" SQ.	(3)-#5 EACH WAY	---	99'-0"

NOTE: SPREAD FTG. REINF. SHALL BE SPACED EQUALLY
 TOP = TOP OF FOOTING
 NOTE: FINISH FLOOR ELEVATION = 100'-0"



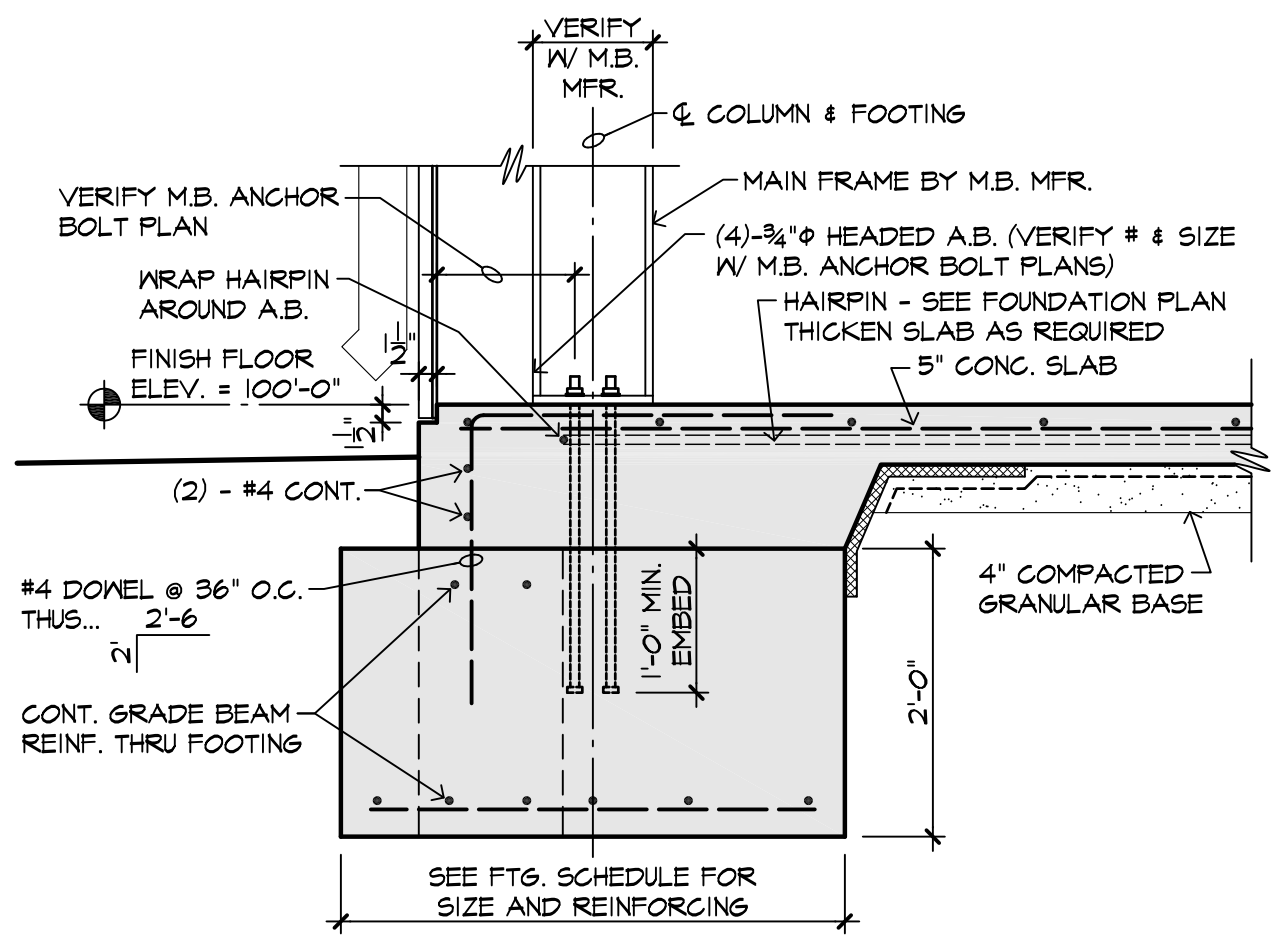
2 TYP. SLAB CONTROL JOINTS
 NOT TO SCALE



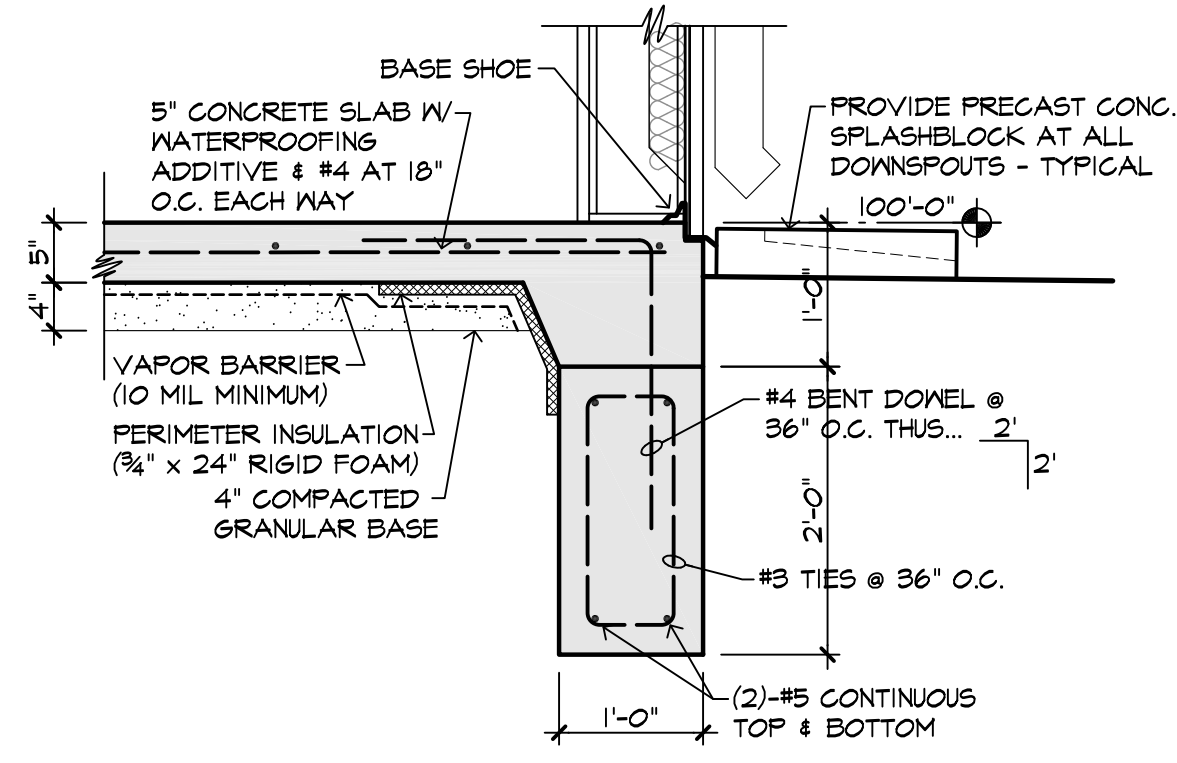
5 SECTION AT O.H. DOORS
 3/4" = 1'-0"

- FOUNDATIONS**
FOUNDATION DESIGN
- ASSUMED ALLOWABLE SOIL BEARING PRESSURE:
 COLUMN SPREAD FOOTINGS = 1,500 PSF
 CONTINUOUS WALL FOOTINGS = 1,500 PSF
 ENGINEERED FILL = 1,500 PSF
 - FOOTINGS SHALL BEAR A MINIMUM OF 2'-0" BELOW FINISHED EXTERIOR GRADE.
 - PROTECT BOTTOMS OF EXCAVATION AGAINST FROST AND KEEP FREE OF WATER, DEBRIS AND LOOSE MATERIAL. SOIL BECOMING UNSUITABLE FOR BEARING MUST BE REMOVED.
 - EXCESS EXCAVATION BELOW FOOTINGS SHALL BE FILLED WITH LEAN CONCRETE.
 - PRIOR TO THE PLACEMENT OF FILL, THE EXISTING SUBGRADE SHALL BE:
 STRIPPED OF ALL VEGETATION, TOPSOIL, AND ANY OTHER DELETERIOUS MATERIALS. PROOF-ROLL INCLUDING REMOVING AND REPLACING ANY SOFT MATERIAL WHICH EXHIBITS PERMANENT SUBGRADE DEFORMATION EXCEEDING 0.5 INCHES WHEN TRAVERSED BY A LOADED TRUCK WITH A REAR AXLE LOAD OF APPROXIMATELY 16,000 LBS. SCARIFIED TO A DEPTH OF (8) INCHES, AND MOISTURE CONDITIONED (-2% TO +4% OF OPTIMUM) AND COMPACTED TO 95 PERCENT OR MORE OF STANDARD PROCTOR MAXIMUM DRY DENSITY.
 - ALL FILL AND NATURAL GRADES (FOR THE CASE WHERE NO FILL IS USED) IN THE BUILDING AREA AND UNDER PARKING, DRIVES, AND WALKS SHALL BE:
 COMPACTED TO AT LEAST 95 PERCENT OF STANDARD PROCTOR MAXIMUM DRY DENSITY (ASTM D698) AT A MOISTURE CONTENT AT OR SLIGHTLY IN EXCESS OF THE OPTIMUM (i.e. -2% TO +4% OF OPTIMUM). PLACED IN LIFTS NOT TO EXCEED (8) INCHES IN COMPACTED THICKNESS. TESTED FOR FIELD DENSITY EVERY 3,000 S.F. PER LIFT OF FILL UNDER STRUCTURE. COMPACTION SHALL BE EXTENDED TO 5 FT. BEYOND THE BUILDING FOOTPRINT.
 - INERT FILL REQUIREMENTS:
 AMOUNT FINER THAN 2-INCH SIEVE = 100%
 AMOUNT FINER THAN NO. 200 SIEVE = 12% MINIMUM, AND IF P.I. < 7, 60% MAXIMUM.
 LIQUID LIMIT = 40 MAXIMUM.
 PLASTICITY INDEX (P.I.) = 5 TO 15
 MAINTAIN THE MINIMUM RECOMMENDED MOISTURE CONTENT IN THE BUILDING PAD UNTIL THE FLOOR SLAB IS CONSTRUCTED. PROVIDE POSITIVE DRAINAGE AWAY FROM THE BUILDING TO PREVENT PONDING ALONG THE PERIMETER. TESTED FOR FIELD DENSITY EVERY 3,000 S.F. PER LIFT OF FILL UNDER STRUCTURE.
 - THREE (3) INCHES OR MORE OF GRANULAR BASE, MEETING THE FOLLOWING REQUIREMENTS, SHALL BE PLACED OVER THE SUBGRADE:
 PASSING THE 1.5 INCHES SIEVE = 100%
 PASSING THE #200 SIEVE = 15% OR LESS
 PLASTICITY INDEX (P.I.) = 6 OR LESS
 - THE CONTRACTOR SHALL CONTRACT WITH A QUALIFIED SOILS ENGINEER TO PERFORM TESTING, INSPECT THE FOOTING EXCAVATIONS, PROOF-ROLLING, AND COMPACTION TO VERIFY THE BEARING MATERIAL AND IDENTIFY SOFT AND YIELDING AREAS ON THE SITE.

- CAST-IN-PLACE CONCRETE**
ALLOWABLE STRESSES USED IN DESIGN:
- ALL CONCRETE SHALL BE MADE WITH STONE AGGREGATE AND SHALL DEVELOP AT THE FOLLOWING MINIMUM COMPRESSIVE STRENGTH (F_c) IN 28 DAYS:
 FOOTINGS & GRADE BEAMS: F_c = 3,000 PSI
 SLAB ON GRADE: F_c = 3,500 PSI
 - ADDITION OF ANY ADMIXTURES SHALL BE APPROVED BY THE PROJECT STRUCTURAL ENGINEER.
 - REINFORCING BARS SHALL CONFORM TO THE ASTM A615 GRADE 60, EXCEPT TIES, STIRRUPS, AND EMBEDDED PLATE ANCHORS, WHICH SHALL CONFORM TO ASTM A615 GRADE 40. DO NOT WELD OR REBEND ANY BARS WITH A YIELD POINT GREATER THAN 40,000 PSI. REINFORCING BAR WELDING SHALL CONFORM TO THE LATEST EDITION OF AWS D1.4.
- REINFORCEMENT PROTECTION:**
- CONCRETE POURED AGAINST EARTH = 3"
 - CONCRETE POURED IN FORMS BUT EXPOSED TO WEATHER OR EARTH:
 • IF BARS ARE LARGER THAN #5 = 2"
 • IF BARS ARE #5 OR SMALLER = 1 1/2"
 - INTERIOR WALLS AND SLABS = 3/4"
 - ALL BAR LENGTHS TO SCALE UNLESS NOTED OTHERWISE. SPLICES ARE 48 BAR DIAMETERS WITH A MINIMUM LAP OF 1'-6". PROVIDE CORNER BARS AT WALL FOOTING AND GRADE BEAM CORNERS, AND INTERSECTIONS. SIZE AND SPACING SHALL MATCH HORIZONTAL BARS.
 - PROVIDE ALL ACCESSORIES NECESSARY TO SUPPORT REINFORCING AT POSITIONS SHOWN ON THE PLANS IN ACCORDANCE WITH THE LATEST ACI DETAILING MANUAL.
 - WIRE MESH REINFORCEMENT SHALL CONFORM TO ASTM A185. LAP ONE FULL MESH AT SIDE AND END LAPS AND WIRE TOGETHER. PLACE MESH AT MID-DEPTH OF SLAB.
 - PROVIDE SLEEVES FOR ALL PIPES PLACED THROUGH CONCRETE WALLS OR SLABS. NO OPENINGS OTHER THAN THOSE SHOWN ON THE STRUCTURAL DRAWINGS WILL BE PERMITTED, UNLESS ARCHITECT/ENGINEER'S APPROVAL IS SECURED PRIOR TO PLACEMENT OF REINFORCING STEEL.
 - VERTICAL CONSTRUCTION JOINTS IN FOOTINGS AND GRADE BEAMS SHALL BE LOCATED WHERE APPROVED BY ARCHITECT/ENGINEER.



3 TYP. RIGID FRAME FOOTING
 3/4" = 1'-0"



4 TYPICAL PERIMETER FOOTING
 3/4" = 1'-0"