



1. ALL WORK TO BE DONE IN ACCORDANCE WITH 2016 INTERNATIONAL BUILDING CODE & ALL LOCAL, CITY & STATE CODES.
2. ALL PERIMETER FOOTINGS AND GRADE BEAMS SHALL BEAR A MINIMUM OF 3" BELOW FINISHED GRADE AND A MINIMUM OF 18" INTO UNDISTURBED SOIL OR PLACED ON 8% ST. PROCTOR COMPACTED FILL, WHERE PLACED ON COMPACTED FILL, FTGS. SHALL BE PLACED AT LEAST 12" BELOW THE COMPACTED SURFACE AND SURFACE ANCHORING TESTS. LABORATORY SHALL PERFORM SOIL COMPACTION TESTS AND SUBMIT WRITTEN REPORTS TO THE ARCHITECT PRIOR TO THE CONTRACTORS PLACING FTGS. ON COMPACTED FILL. UNDER NO CIRCUMSTANCES SHALL THE FTGS. BE LESS THAN 3" BELOW FINISH GRADE.
3. NO FOOTING TRENCH SHALL BE OPENED WITHOUT HAVING REINFORCING AND CONCRETE READY TO BE PLACED WITHIN THAT WORKING DAY. ANY VARIATION FROM THIS PROCEDURE REQUIRES THE APPROVAL OF THE ENGINEER. ALL FOOTINGS SHALL BE CENTERED UNDER WALLS UNLESS NOTED OTHERWISE.
4. BEARING SURFACES AT THE BOTTOM OF EXCAVATIONS SHALL BE PROTECTED FROM EITHER INUNDATION OR DRYING OUT DURING THE EXCAVATION PROCESS. CONTRACTOR SHALL PROVIDE POSITIVE SURFACE DRAINAGE DURING CONSTRUCTION.
5. ALL CONCRETE SHALL BE MADE FROM TYPE II CEMENT WITH A 28 DAY COMPRESSIVE STRENGTH AS NOTED BELOW.

	28 DAY PSI	SUMP	MAX. AGGR.
FOOTINGS	3000	4"-6"	1 1/2"
SLAB ON GRADE	4000	2"-4"	1"
FOUNDATION WALL	3500	4"-6"	1 1/2"
STAIRS & STEPS	3500	1"-4"	1"
SIDEWALKS & DRIVES	3500	2"-4"	1"

LOCATION	26 DAY PSI	SLUMP	MAX. AGGR.
FOOTINGS	3000	4-6"	1 1/2"
SLAB ON GRADE	4000	2-4"	1"
FOUNDATION WALL	3500	4-8"	1 1/2"
STAIRS & STEPS	3500	1-4"	1"
SIDEWALKS & DRIVES	3500	2-4"	1"

1. CONCRETE MIX SHALL CONFORM TO ASTM C94. AGGREGATES SHALL CONFORM TO ASTM C33. ALL CONCRETE WITH EXTERIOR EXPOSURE SHALL HAVE AIR ENTRAINMENT AS PER ASTM C260.
2. UNLESS OTHERWISE NOTED, CLEAR CONCRETE COVER OVER REINFORCEMENT SHALL CONFORM TO THE MINIMUM REQUIREMENTS OF THE CURRENT EDITION OF ACI CODE 318 AS FOLLOWS: CONCRETE MUST ADHERE TO ALL REINFORCING BARS EXPOSED TO EARTH.
3. CONCRETE EXPOSED TO WEATH OR WEATHER FORMED TO WITHSTAND A MINIMUM OF 117°.
4. THE USE OF ADMIXTURES, INCLUDING CALCIUM CHLORIDE, IS NOT PERMITTED WITHOUT THE CONSENT OF THE ENGINEER.
5. REINFORCING BARS SHALL BE NEW BILLET STEEL. ASTM #15, GRADE #6 AND ABOVE, GRADE #4 AND SMALLER, PROVIDE CONTINUOUS BARS AT FOOTING STEPS & 90 DEGREE BEND TIES AT JOINTS. UNLESS OTHERWISE NOTED, LAP SPICES & EMBEDMENT LENGTH SHALL CONFORM TO THE CURRENT ACI CODE #18.
6. PROVIDE CORNER BARS EQUAL TO ADJACENT BAR SIZE, OR BEND LONGITUDINAL BARS.
7. ADJACENT BAR SPICES IN WALLS AND FOOTINGS SHALL ALTERNATE.
8. WELDED WIRE FABRIC SHALL CONFORM TO THE CURRENT ASTM SPECIFICATION FOR GOLD DRAWN STEEL REINFORCEMENT WITH A MINIMUM OF 1/4" END AND EDGES A MINIMUM OF #4.
9. REINFORCEMENT DETAILING AND PLACEMENT SHALL CONFORM TO CURRENT ACI CODE #318 EXCEPT WHERE OTHERWISE INDICATED.
10. ALL REINFORCING IS TO BE FABRICATED AND PLACED IN STRICT ACCORDANCE WITH THE ACI DETAILING MANUAL, LATEST EDITION.
11. TYPICAL CONCRETE SLAB THICKNESS SHALL BE 8" SLAB W/ 6"X8 - W2.1 X W2.1 WWF OVER 6 MIL POLY VAPOR BARRIER OVER 3" COMPACTED BASE ROCK OR AS NOTED BY ENGINEER.
12. ALL EXTERIOR OR EXPOSED CONCRETE SHALL BE CONSOLIDATED BY INTERNAL VIBRATION IN ACCORDANCE WITH A.C.I. 308 "RECOMMENDED PRACTICE FOR CONSOLIDATION OF CONCRETE".
13. ALL REINFORCING SHALL BE FREE OF RUST, DIRT, AND MILL SCALE PRIOR TO PLACEMENT OF CONCRETE.
14. ASSUMED SOIL BEARING CAPACITY OF 2000 PSF USED IN DESIGN OF THIS STRUCTURE. FIELD VERIFY CONDITIONS & IF WEAKER SOILS ARE ENCOUNTERED CONTACT ENGINEER FOR REDESIGN.
15. THE BASE OF THE FOOTING EXCAVATIONS MUST BE COMPACTED WITH MECHANICAL TAMPERS PRIOR TO PLACING REINFORCING STEEL.
16. IN THE EVENT ORGANIC SOIL IS FOUND BELOW FOOTINGS OR FLOOR SLABS, IT SHALL BE REMOVED AND REPLACED WITH FILL, COMPACTED IN 8" LIFTS AND COMPACTED TO AT LEAST 90 PERCENT OF MAXIMUM DENSITY AS DETERMINED BY STANDARD PROCTOR PROCEDURES (ASTM D 690).
17. FOOTING EXCAVATIONS MUST BE INSPECTED BY THE GEO-TECH ENGINEER TO VERIFY THAT FOOTINGS BEAR ON SUITABLE SOILS PRIOR TO PLACING REINFORCING STEEL.
18. FIBERMESH IN CONCRETE NOT ACCEPTABLE IN LIEU OF WOVEN WIRE MESH.
19. 2" MIN. DASHED OR SHAVED CLOSURE AT JOINTS AND EDGES.
20. ALL EXPOSED CONCRETE EDGES AND CORNERS SHALL BE CHAMFERED 3/4".
21. INTERIOR SLABS SHALL BE SMOOTH TROWELED. EXTERIOR SLABS SHALL HAVE A LIGHT BROOM FINISH, UNLESS OTHERWISE NOTED. ALL SLABS SHALL HAVE A CURING COMPOUND APPLIED TO THE SURFACE, COMPLYING WITH ASTM C690, UNLESS CURING COMPOUNDS ARE NOT COMPATIBLE WITH REQUIRED FINISHES OR FINISHES.
22. THE ELEVATIONS GIVEN WITH REFERENCE TO FINISH FLOOR DATUM 100'-0".
23. VERIFY ALL DIMENSIONS, SLOPES, DEPRESSIONS, EMBEDMENT, ETC BEFORE PLACING CONCRETE.
24. FOOTING ELEVATIONS NOTED ON THE FOUNDATION MAY BE LOWERED AS NECESSARY TO OBTAIN THE SPECIFIED BEARING CAPACITY AND/OR COVER.
25. LAP ALL UNDER SLAB VAPOR BARRIER SHEETS A MINIMUM OF 6" AT ALL SPICES.
26. PROVIDE SLAB JOINTS AT JOINTS. JOINT CUT DEPTH SHALL BE APPROX. 1/3 OF THE SLAB DEPTH AND SHALL BE SAW CUT AS SOON AS POSSIBLE (WITHIN 12 HOURS OF POUR).



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