

**CITY OF YORBA LINDA**  
P.O. BOX 87014 CALIFORNIA 92885-8714

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**BUILDING DIVISION (714) 961-7120**

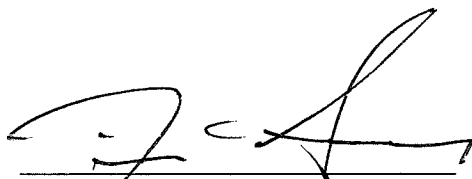
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**Procedure No. 013**

**Procedure Subject:** Procedure for Substituting the Requirement for a Soils Report  
**Effective Date:** 08/09/2018

For residential additions and patio covers or accessory structures 500 SF to 1,000 SF, the following prescriptive procedure may be used as a substitute for a soils report. The square footage shall be an aggregate number per each separate structure and permit application.

1. There shall be a California licensed architect or civil/structural engineer in responsible charge of preparing the plans and structural calculations.
2. For one story addition the foundation shall be minimum 12" wide by 24" deep and for two story 18" wide by 24" deep into natural grade with 2-#4 at top and 2-#4 at bottom. The concrete slab on grade shall be minimum 4.5" thick with #4 at 16" O.C. both ways at middle of the slab. The slab shall be placed over 10 mil visqueen over 2" sand over compacted grade. Concrete to be Type "V,"  $f_c = 4500$  psi with maximum  $w/cm = 0.45$  or provide sulfate report to justify alternate mix design (T-19.3.2.1 ACI 318-14). The grade shall be saturated prior to placement of sand.
3. For one story patio covers the foundation shall be minimum 12" wide by 24" deep into natural grade with 2-#4 at top and 2-#4 at bottom. The concrete slab on grade shall be minimum 4.5" thick with #4 at 16" O.C. both ways at the middle of the slab. The slab shall be placed over compacted grade. Spread footings as required for columns shall be a minimum of 24" deep with 2-#4 each way at bottom of footing. Concrete to be Type "V,"  $f_c = 4500$  psi with maximum  $w/cm = 0.45$ , or provide a sulfate report to justify alternate mix design (T-19.3.2.1 ACI 318-14). The grade shall be saturated prior to placement of concrete.
4. The architect/engineer of record shall make site visits to verify the following requirements and report in writing to the City Building Official:
  - a. All foundations are founded into natural grade or certified fill material.
  - b. The existing building and adjacent ground don't show any cracks or any settlement to exhibit the existence of expansive soil at the job site.
  - c. The foundations are far away from any descending/ascending slopes and comply with CBC Sec. 1808.7.



Jim Sowers, CBO, Building Official