

Final Soil Report Requirements

The Grading Inspector is to verify that the grading permit number, job address, and/or tract number, and lot numbers, are all included and agree with the grading permit.

All recommendations in previous reports must be addressed. Recommendation was either implemented or determined NO longer necessary.

A. Utility line backfill and retaining walls.

1. Indicate the purpose for which the fill was placed.
2. Footing specifications and building presaturation should be addressed.
3. Driveway and flat work subgrade should be addressed per the recommendations in the previous reports (compaction or presaturation).
4. Indicate the dates when the grading and/or backfill were performed.
5. Indicate the method of placement of the backfill; include thickness of lifts, addition of moisture, mixing and similar procedures.
6. Describe the soil types; include classification description, optimum moisture and maximum dry density for each type of soil.
7. Indicate the type of equipment used to place the backfill and equipment used to compact or jet the material.
8. Indicate test standards for the laboratory and field tests.
9. For each test taken indicate the date of the test, type of test, depth/elevation, location, soil type, field moisture, field dry density, maximum dry density, optimum moisture, % relative compaction. Failing tests must include retest results.
10. On an appropriate plot plan indicate all test locations, the type and location of all utility lines, drain lines, retaining walls backfill, and limits of the report.
11. Indicate the maximum depth of backfill for each type of utility trench and behind retaining wall.

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12. Describe backfill materials; include the depth of shading above the pipe. If all of the backfill is self-compacting material it should be indicated.
13. Indicate that the tests performed were adequate to determine that the backfill is uniformly compacted and unsuitable soil or bridging is not present.
14. On tracts where all of the main or lateral trenches are not tested, indicate that the trenches that do not indicate test data were inspected, probed and found to be compacted similarly to the passing tests.
15. Indicate that that all fill is suitable for the intended use.
16. Indicate that at final all slopes are grossly and surficially stable.
 - a. If there was severe erosion of the slopes during construction a report for their repair should be referenced in a final report or submitted for approval.
 - b. When utility lines cross natural or manufactured slopes the soil engineer should indicate that the backfill is surficially stable.
 - c. Backfill on slopes must be tested.
17. Indicate that the grading was performed in accordance with the approved geotechnical reports and approved grading plans, and compliance with the Orange County Excavation and Grading Code.
18. Swimming pool and spa supply line backfills are to be addressed.
19. Discuss retaining wall subdrain placement and if properly outletted.

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B. Review for Reports on AC Paving

1. Subgrade

- a. Indicate the method of preparation of the subgrade. Include equipment.
- b. Indicate that the subgrade is suitable for its intended use.
- c. On an appropriate plot plan indicate the subgrade, base and A. C. areas tested and test locations.
- d. Curb & Gutter subgrade should also be addressed.

2. Base

- a. Indicate the type of equipment used to place the base.
- b. Indicate thickness of base.
- c. Indicate that the base is suitable for its intended use.
- d. Provide random load tickets.
- e. Gradation & SE result should be included.

3. A. C. Paving

- a. Indicate when the paving was performed.
- b. Indicate the type of equipment used to place the A. C. paving. Include the tonnage of the roller.
- c. Indicate the maximum & minimum temperature of the A. C.
- d. Indicate A. C. Mix design.
- e. Indicate the thickness of the A. C.
- f. Provide random load tickets.
- g. Indicate the A. C. paving is suitable for the intended use.
- h. Indicate that the paving was performed in accordance with the approved geotechnical reports and approved grading plans.