

IVINS CITY

GEOTECHNICAL REPORT CHECK LIST

SUBMIT WITH PRELIMINARY PLAN

Overview:

The geotechnical report is to be submitted with the preliminary plan. It is to be prepared by and stamped by a licensed geotechnical engineer. The purpose of the report is to evaluate the existing soil conditions of the project site prior to new development

Required Extent of Exploration:

Size of Area	Minimum Number of Explorations
Less than 3 acres	2
Less than 5 acres	3
Less than 20 acres	3 plus 1 for each 3 acres more than 5 acres
Greater than 20 acres	8 plus 1 for each 5 acres more than 20 acres

Required Depth of Exploration:

- Minimum 25 feet depth for basement foundations
- Minimum 20 feet depth for slab on grade foundations, at least one test hole must be 25 feet depth for every 5 acres.
- If explorations determine that a portion of the site has expansive soils then the geotechnical firm must make additional explorations on each proposed lot between location with expansive soils and any location without until the geotechnical firm can precisely determine which lots are impacted.

Required Minimum Testing:

Test	Frequency
Sieve Analysis, Atterberg Limits, and Soil Classification in Unified and AASHTO systems	Each Soil Type
Modified Soil Proctor identifying Maximum Dry Density and Optimum Water Moisture Content	Each Soil Type
Natural Dry Density and Water Moisture Content	Each Stratum in Each Hole
“R” Value or “CBR” Value	Each Soil Proctor
Swell and Consolidation Tests	As recommended by geotechnical engineer to provide adequate representation of each soil type.

Site Area: _____ acres Expansive Soils Present? _____yes _____no

Groundwater present? _____yes _____no

No. of holes with 20’ min depth: _____ No. of holes with 25’ min depth: _____

Report should include the following:

Descriptions of:

- Generalized site conditions
- Surface and subsurface conditions

Recommendations for:

- Site preparation
- Excavation (Identify suitability of native material for trench backfill)
- Grading
- Structural fill
- Foundation design
- Seismic considerations
- Pavement design for all categories of roads using the Traffic Index as given below:

Classification	Traffic Index	Classification	Traffic Index
Residential Standard	5	Minor Arterial	7
Residential Collector	5	Major Arterial	8
Minor Collector	5.5	Commercial Local	10
Major Collector	6	Industrial Local	10

- Soil moisture control

Exhibits and appendices showing:

- Vicinity map
- Site plan showing boring locations
- Boring logs
- Test results