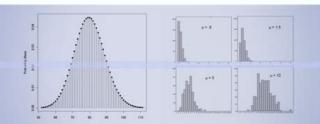
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Figure 3.4 3D Tower (Arabtech jardaneh architectural Design & Soil Report)









Each boring and test pit should be identified and labeled, along with its depth and purpose. Provide a sentence referencing the laboratory test results in the appendix. Estimate earthwork shrink/swell factors to allow for computation of earthwork quantities. IN SITU TESTS RESULTS Details of any in situ testing (other than SPT) and corresponding test data and results are typically presented in Appendix D. 16. LABORATORY ANALYSES List the types of tests performed and summarize the results, leaving the details in the appendix. The main figures should include: Topographic site plan, usually with a vicinity map Boring location map Geologic mapping Supporting photographs of site conditions Geologic cross-sections and typical sections along the alignment, if approved by the Principal Geotechnical Engineer Recommended design details 14. A list of tables and figures should be included. A vicinity map is useful to show the general location of the projects, a Summary Table with borings listed in numerical order and their corresponding stationing locations may be included to allow the reader to find boring locations and numbers readily. Where there is a potential impact on existing buildings in the surrounding area, include the structure's address, type of construction, the estimated vibration level that may cause damage, the usage (storage building, hospital, etc.), what the potential problem may be and what actions should be taken to minimize the impact in the report. LABORATORY TESTS RESULTS A Summary Table of laboratory test results and detailed graphs of results of tests such as consolidation, shear strength, triaxial, and gradation are typically presented in Appendix C. Describe the effect of roadway construction (vibratory rollers, utility excavations, settlements, etc.) on surrounding structures and any possible impacts they may have on the use of the structures during construction. Provide detailed recommendations for preferred foundation types. The results of the monitoring program are typically included. INTRODUCTION This section introduces the scope of work as it relates to the general project description (a more detailed project description is provided in the next report section). The potential for rock fall should be described and any recommended mitigations should be detailed. For shallow foundations, provide the recommended elevations of bottom of footings and the allowable soil pressures based on settlements and bearing capacities. When addressing stability, describe the factor of safety criteria and the level achieved with the recommended approach. Separate pile analyses for recommended pile sizes are to be performed for each boring. This might require splitting the discussion into sections along the alignment. The primary clients that use the report are roadway designers, Bridge Engineers, construction personnel, and contractors. The sampling methods should be briefly described. When applicable, analyses for alternate foundations including spread footings, driven piles and drilled shafts should be provided for all structures. Provide recommendations for geotechnical testing, observations, and/or instrumentation, depending on the needs of the project and the relative complexity or criticality of the work to be performed. TITLE PAGE The title page should include the formal name of the project, the project identification number, the county, the date the report was finalized, and the names with titles of report preparers and their signatures (which include the author, the reviewer, and approval by the overseeing engineer). Provide a description of width, composition, and condition of existing roadway. When more than one boring is drilled at a pile group location or when it is appropriate to generalize the soil strata, one design analysis is performed for each pile size. Provide an overview of the geotechnical engineering analyses, and provide the assumptions used, the corresponding results, and impact on the project. ANALYSIS & CALCULATIONS A complete set of the analysis computations should be adequately documented and saved in a separate file or report. Describe the benefit of performing the testing and instrumentation, and the possible consequences if they are not performed or if the instruments are accidentally damaged. Identify potentially difficult or problematic conditions. Describe both natural and man-made features that are of construction importance or need to be protected. 15. Provide a description of significant geologic and topographic features of the site. When Consultant's recommendations must be reviewed, documented and retained by the Geotechnical Engineer assigned to the project. SUBSURFACE EXPLORATIONS DATA The details of the exploration methods are in the main body of the Geotechnical Report and do not need to be repeated in the appendices. Describe any potential geologic hazards, such as unstable slopes and rock fall hazards. Include any requirements for tiebacks, geo-textiles, reinforcing materials, etc. RECOMMENDATIONS The Geotechnical Engineer must provide recommendations for all earthwork, rock slopes, retaining walls, foundations back to the Consultants to be incorporated into the calculations. EXECUTIVE SUMMARY The Executive Summary may be desirable for larger reports to help provide the most important findings and recommendations in a short and simple manner. A corresponding pile capacity curve for each analysis should be provided. Provide the estimated depths of scour used (typically determined by the Hydraulics Engineer), if applicable. 17. Provide recommendations for embankment construction, including methods to ensure slope stability and manage settlement. If groundwater or seepage could impact the project, describe any recommended drainage systems and their locations. Depth of scour should be accounted for on each plot. When warranted, recommended drainage systems and their locations, and their locations. underpinning, and monitoring need to be provided to reduce the damaging effects of the construction. Subsurface exploration data including Boring Logs, Test Pit Logs, and/or Geophysical plots are typically presented in Appendix B. Describe any precedent information such as past slope performance or instabilities and ground settlement evidence. FIGURES Figures are typically presented in Appendix A. Evaluate possible treatment alternatives if the factor of safety is too low. The Geotechnical Report contains factual data, interpretations, engineering studies and analyses, and recommendations for design and construction. Provide detailed recommendations for design of the preferred wall type(s). All final reports, calculations, boring logs, details, etc. Provide a sentence referencing the exploration logs, in situ test results, and instrumentation results in the appendices. Plots should be developed indicating both Davisson's curve and ultimate soil resistance versus elevation, and should show end bearing and skin friction as well as total resistance. All calculations by Consultants are reviewed by the Geotechnical Engineer. Include pertinent geologic mapping. 13. Recommendations for piles include: Lateral capacity Vertical (axial) capa settlement or pile group settlement Effects of scour, down drag, and lateral squeeze, if applicable. The groundwater regimes throughout the project should be identified. 4. Details should be included in an appendix, if necessary. Estimate the magnitude and rate of settlement. TABLE OF CONTENTS The table of contents should list the report sections and subsections, followed by appendices. Provide rock slope recommendations including the design of slopes (appropriate cut slope angles) and fallout area dimensions. Structures in close proximity to construction activities must be evaluated for potential damages caused by these activities. Foundation recommendations should be provided for all structures including bridges, sound walls, earth retaining walls, channels, box culverts and poles. GEOLOGIC CONDITIONS AND SEISMICITY This section describes the known and published geology of the site and vicinity, as well as the regional and local seismicity. The principal geologic formations are described, along with their soil and rock characteristics. The format and contents of the Department on Compact Disks (CD) in addition to paper copies. Landslide mitigation measures require detailed design recommendations. A key to Boring Logs needs to be included. The excavated materials must be described in terms of their behavior and its suitability for use as Borrow material. A table of contents is not necessary for a short report or technical memorandum. 11. A description of the analyses performed and an explanation of why specific foundation alternatives were eliminated should be included. The report serves as the permanent record of all geotechnical data known to be pertinent to the project and is referred to throughout the design, construction, and service life of the project. Describe suitable pile types and reasons for design selections and exclusions. 6. Information presented here should include geologic reconnaissance work, the method of subsurface exploration and findings must be compiled in a standard report format. Consultants remain responsible for the accuracy and completeness of all deliverables. Address the use of both shallow and deep foundations and describe advantages for each. Address how the materials satisfy Department standards for Borrow materials. FIELD INVESTIGATIONS This section presents an overview of the exploration program. Reinforced slopes, if to be used, should be detailed for design. The intent of the Geotechnical Report is to present the data collected in a clear manner, to draw conclusions from the data, and to make recommendations for the geotechnical aspects of the project. List the tests and instruments to be used and their planned locations. Unsuitable materials must be addressed and their locations identified. INSTRUMENTATION RESULTS Details of the instrumentation installations and the monitoring program are typically presented in Appendix E. A list of previous reports and investigations that are relevant to the current project and site should be identified in this introductory section. An Executive Summary is not necessary for a short report or technical memorandum. The report should be formation using a standardized approach, so that users are able to locate information readily and consistently. 9. Briefly describe key findings from the laboratory tests. 2. 3. The Geotechnical Report is a professional document, and must be prepared under the direction of a registered professional engineer. Provide a list of project information that was received during the course of the investigation (alignment, foundation layout, 30% plans, scour estimate, etc.). The general outline for a Geotechnical Report is as follows: Title Page Table of Contents Executive Summary (optional) Introduction General Scope Other reports and investigations Project Description Geologic Conditions and Seismicity Local Geology Faulting and Seismicity Field Investigations (summary, with details in Appendix A) Anticipated Subsurface Conditions (soil, rock, groundwater) Geologic Hazards General Site Evaluation Summary of Engineering Analyses and Calculations (typically a summary will suffice in a main section of the Geotechnical Report.) Recommendations Site Grading and Earthwork Use of Materials Embankments Cut Slopes Organization, rock fall mitigation, ro Site Location Map Soil Boring Location Map Geologic Mapping Supporting Photographs of Site Conditions Interpreted Geologic Cross-Sections Recommended Design Details Appendix C: Laboratory Test Results Test Result Summary Sheets Particle Size Distribution Report Sheets (gradation curves) Consolidation Test Report Sheets and/or Summary Table Chemical Analysis Results Sheets and/or Summary Table Direct Sheets and/or Summary Table Chemical Analysis Results Sheets and/or Summary Table Direct Sheets and/or Summary Table Chemical Analysis Results Sheets and/or Summary Table Direct Sheets and Direct She PROJECT DESCRIPTION This section describes the elements of the project and the geotechnical related items. Pile cap depths or elevations Maximum driving resistance to be encountered in reaching the estimated bearing elevations of test piles and pile installation criteria for dynamic monitoring Selection of load test types, locations and depths, where applicable Recommend which retaining wall types are appropriate for the project. 12. Design loads and seismic criteria should be addressed. Provide recommendations for any ground improvement. Describe the engineering characteristics and anticipated behavior of each soil and rock unit. Identify the closest relevant faults and areas of seismic activity, along with the published expected peak horizontal ground acceleration (as stated in reliable geologic publications). The general thicknesses (and contact elevations) of the principal geologic units should be described based on available information. 7. Evaluate possible alternatives if magnitude or time required for settlement is excessive, and recommend treatment based on economic analysis, time and environmental constraints. DISCUSSION The subsurface conditions should be described along the route of the project. 10. REFERENCES Cite the references used in the geotechnical evaluations and analyses. The data and recommendations are typically compiled in a Geotechnical Report. 5.

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