COMPREHENSIVE GEOTECHNICAL ANALYSIS FOR SAFE DEVELOPMENT

ADVANCED TESTING AND DATA COLLECTION ENSURE A SAFE, STRONG FOUNDATION FOR FUTURE DEVELOPMENT.

To initiate the design process, we have completed comprehensive geotechnical investigations to evaluate the subsurface conditions of the site. By utilizing advanced techniques, including sonic drilling and gravimetric surveying, we have gathered precise geological data. This data is being analyzed thoroughly, and the findings will guide the selection of appropriate soil improvement methods, site preparation procedures, and foundation design, all tailored to the site's unique conditions.

KEY INSIGHTS

46 SOIL BORINGS

For direct observation, testing, and lab analysis up to 200+ feet

200+ FT

OVER 10,000 LINEAR FEET

Of geophysical testing data collected

10K+

ADVANCED BEST PRACTICES

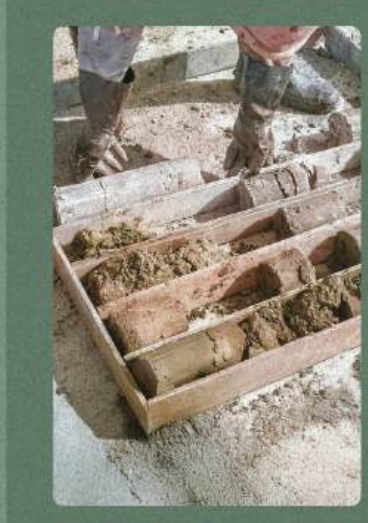
Utilizing the most sophisticated tools and equipment for data collection

BORING LOCATION MAP

METHODS

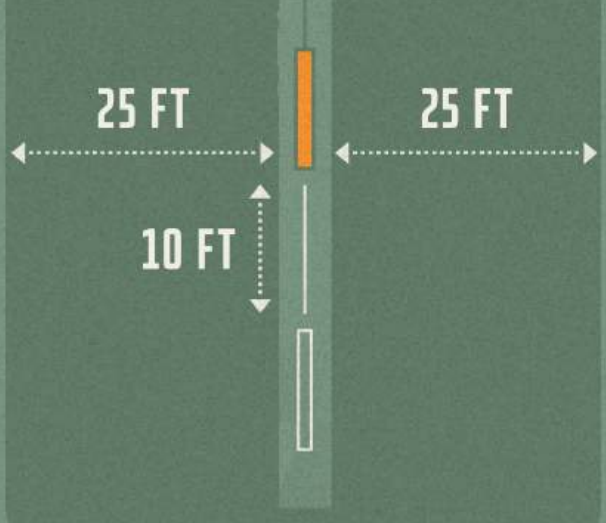
SONIC DRILLING & BORINGS

A sonic drilling rig with a hollow stem bores a 6-10 inch wide hole 200+ feet deep, reaching native soils, and allowing samples to be collected for site and lab analysis. The data is reviewed and used by the project's engineering teams to inform the design process.

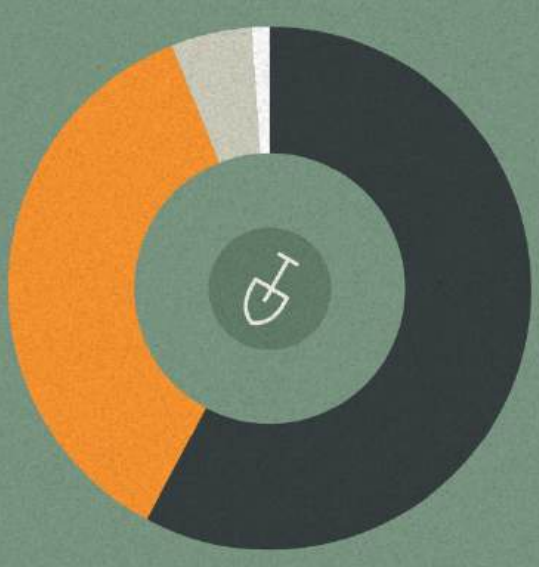


GRAVIMETRIC SURVEY

After drilling, a gravity measuring probe was lowered into each borehole to survey gravity in 10-foot increments to the bottom of the borehole. The gravity data is used to compute the bulk density of the surrounding 50 feet of material.



Subgrade Characterization



- 58% Soil
- 36% Rubble
- <5% Tires
- <1% Trash

Environmental Safety

Soil samples were collected for thorough field and laboratory analysis.

9
Probes

9 multi-nested soil vapor probes are installed at borehole locations across the site to detect and monitor subsurface gasses.

27
Locations

Soil vapor samples are collected periodically for 27 locations across the site and tested to ensure site safety.