Geotechnical

Recommendations:
- Removal of vegetation, and other unsuitable Materials
- Removal of existing utilities
- Soil nail retaining walls
- Minimum footing width and depth of 24".

Hydrology Study

- City of San Diego (Drainage Design Manual)
- Rational method
- Pipe size 24"
- Pipe depth can be 15-25 ft

Recommendations:
- Use RCP pipes instead of PVC.
- Installing trash collector within drainage inlet to prevent clogging.

Civil Site Development Plan

Project Overview

- A 200,000 GSF 4-story science facility
- The new and improved building will provide more space for research labs and teaching space.
- Existing conditions include:
  - Steep slope
  - Traffic along Aztec Circle Dr.
  - Overhead utilities

Structural

Sewer and Water Study

Meet the Team

Cost Estimate

Total Cost Approximately $164M

*This cost estimate is based on the assumption of multiple competitive bids and a stable bidding marker.

Our sewer and water study will dictate whether the current system can accept the sewer and provide the water necessary to not only service the development, but to provide enough flow for a potential fire event.

Average Day Water Demand: ADD = 10,000 L/day
Maximum Day Water Demand: MDD = 1.4 x ADD = 14,000 L/day
Peak Hour Water Demand: PHD = 2 x ADD = 23,000 L/day