Precision - Execution - Quality

UCSD – City SD Fire Station

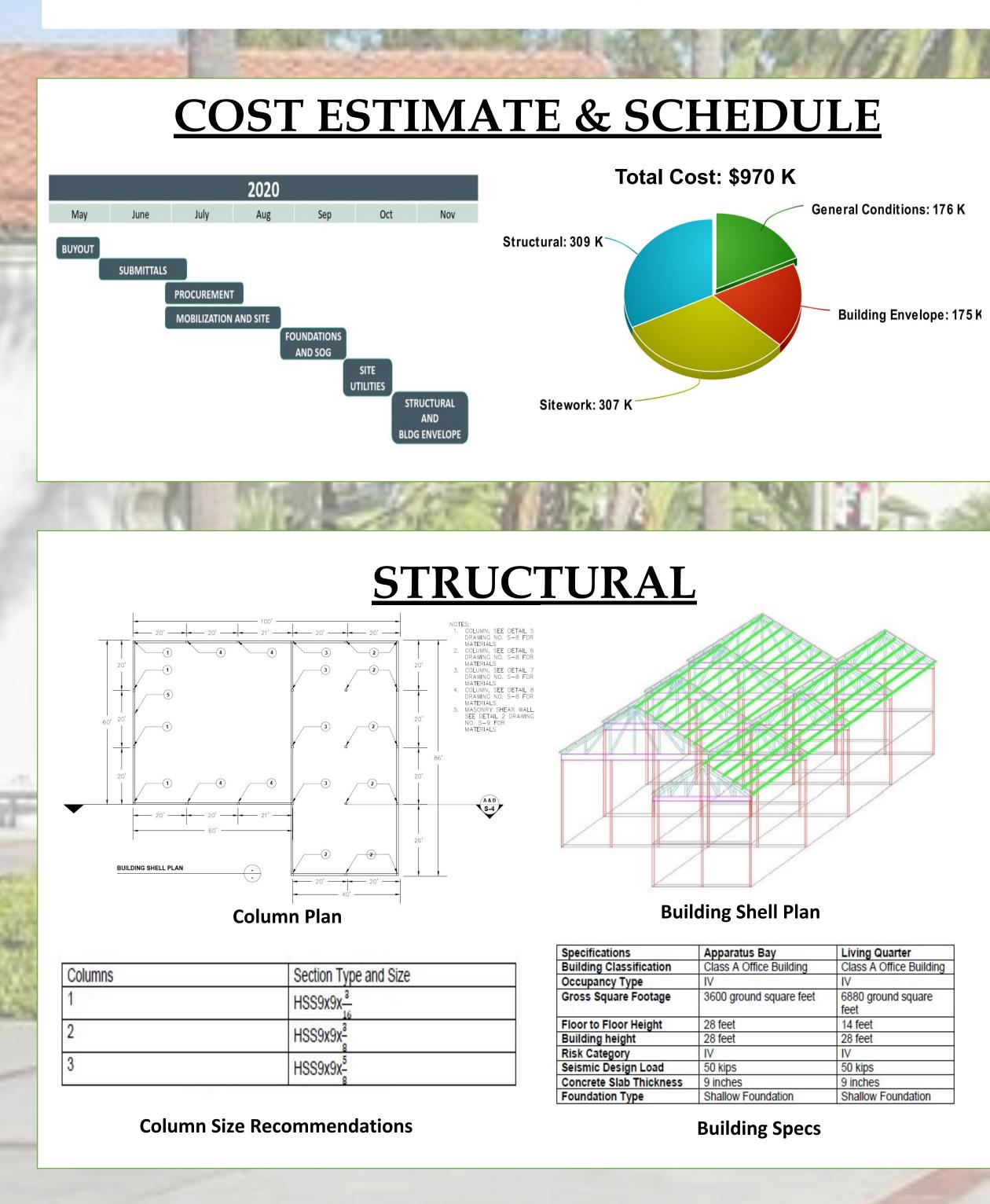




Top: Michael Bailey, Aryobimo Wibowoputro, Hugo Mora **Bottom:** Andres Perez, Ryan Dinh, Joseph Horsey (PM)

Project Description

The UCSD - City SD Fire Station is a design-build project that includes the construction of a fire station of approximately 10,500 square feet to accommodate 3 fire apparatus and 9 to 11 emergency personnel.



VICINITY MAP

The proposed project site is located east of North Torrey Pines Road between its intersections with Genesee Avenue and North Point Drive at the northern end of the West Campus. The project site is located within the North Campus Neighborhood, which includes an interface between athletic uses and academic uses.



Vicinity Map of project location





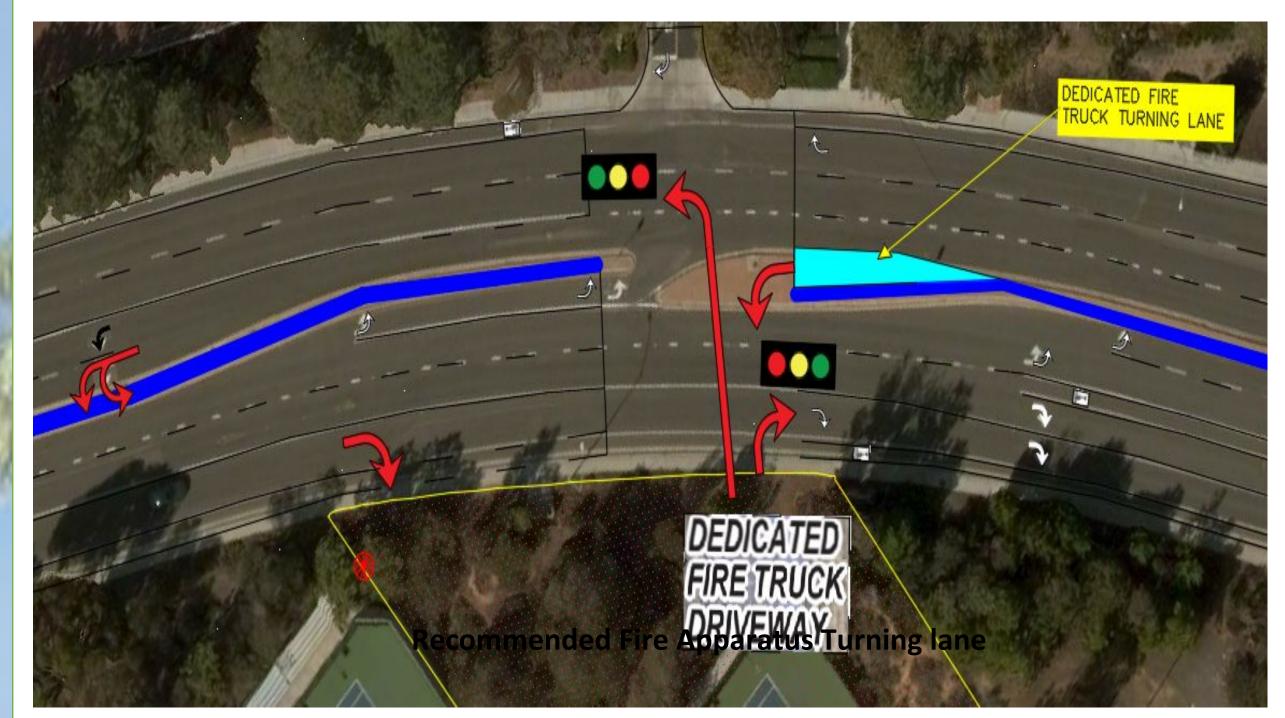
Extension Sewer Line











Recommendations:

- Signalize fire station driveway as well as North and Southbound traffic at site
- Provide a southbound left turn lane for emergency services only
- Modify N. Torrey Pines Rd/ UCSD Northpoint southbound left turn lane to allow for U-turns



Foundation Recommendations:

Shallow Square Foundations - Most cost efficient	Load Case	Base (ft)	Width (ft)	Thickness (ft)	Volume (yd ³)
Cone Penetration Test (CPT) - 110 ft •Non- liquefiable •Multiple layers of dense sand •No water table	1 (400 Kips)	13.5	<mark>13.</mark> 5	4.5	30.40
	2 (150 Kips)	10	10	3.5	12.96
	3 (250 Kips)	11.5	11.5	4.0	19.60

Load Case 1

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Foundation Plan

