

CITY OF AUSTIN
DAVENPORT RANCH FIRE/EMS STATION

DESIGN COMMISSION | OCTOBER 25, 2021



PREVIOUS COA FIRE/EMS STATIONS

DEL VALLE FIRE/EMS STATION

- 12,700 square feet
- Single story structure
- 4 pull-through apparatus bays
- Completed July 2020



TRAVIS COUNTRY FIRE/EMS STATION

- 15,000 square feet
- 2 story structure due to site size
- 4 back-in apparatus bays
- Completed July 2021



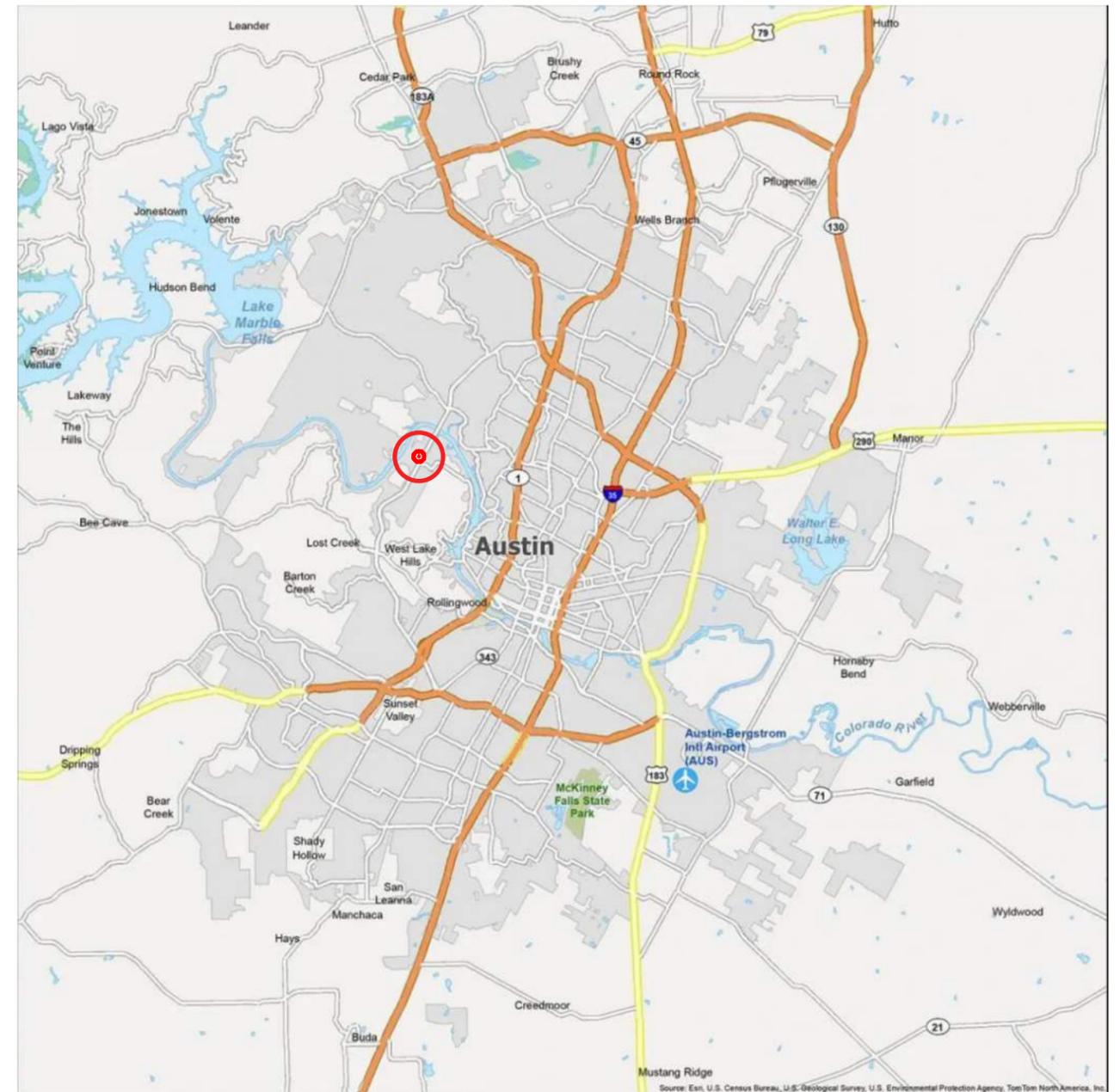
DAVENPORT RANCH FIRE/EMS STATION

GOAL:

PROVIDE EMERGENCY RESPONSE SERVICES TO DAVENPORT RANCH AREA

PROJECT ELEMENTS:

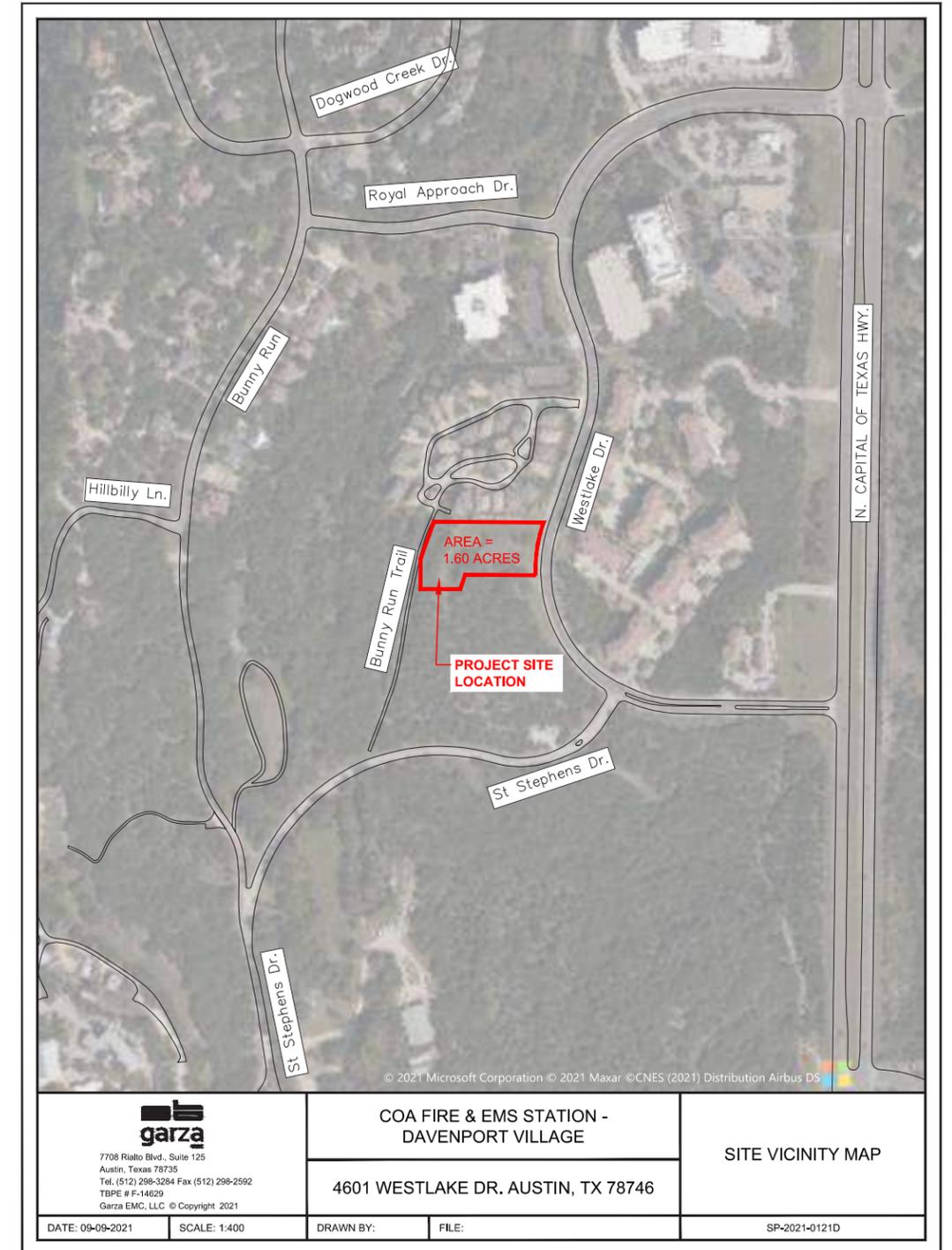
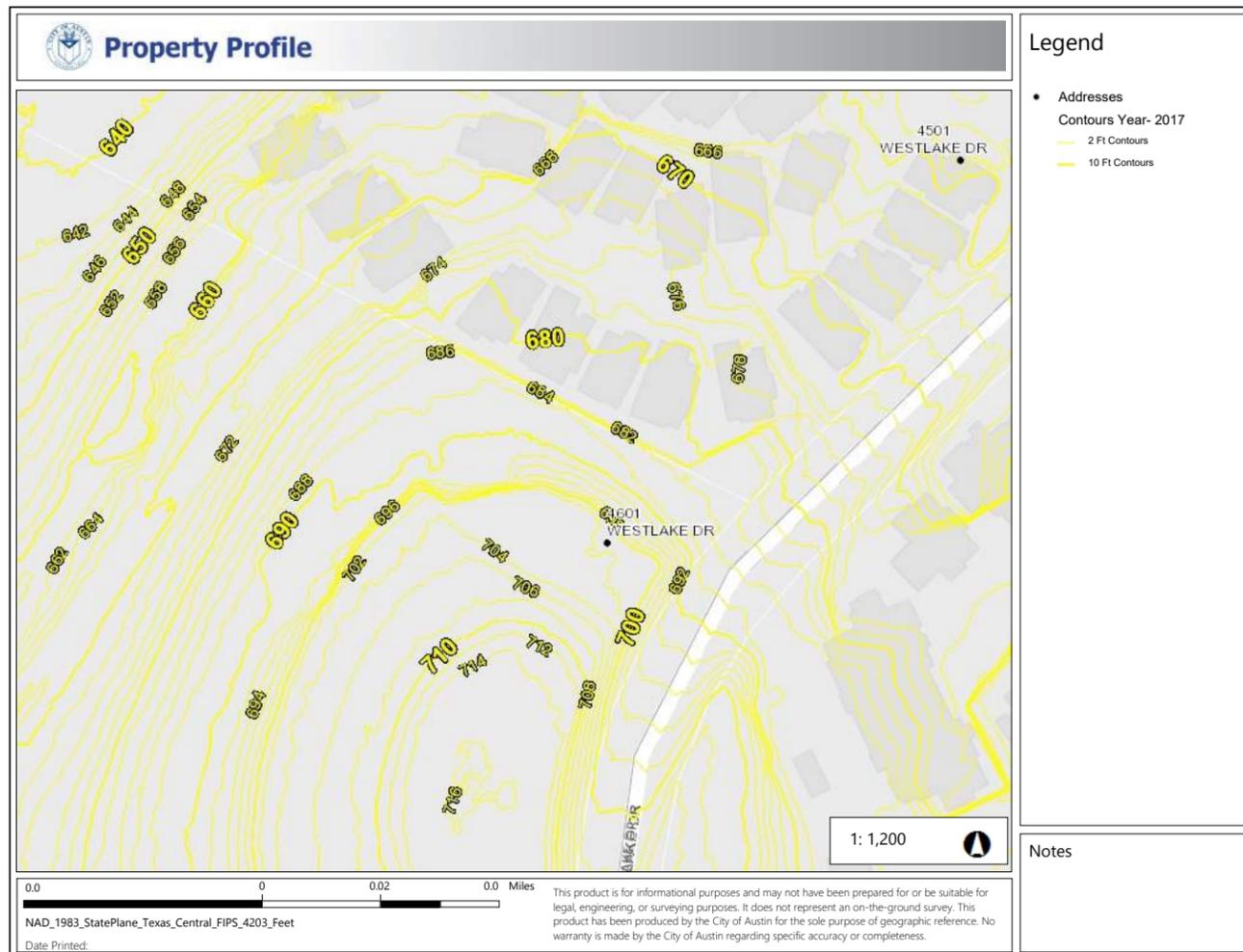
- 13,500 square feet; 4 apparatus bays
- 24 staff parking
- 2 visitor parking
- Compact design due to site limitation
- Water treatment pond
- Site retaining wall
- Staff exterior space (accessible from Day Room)
- Day Room, Kitchen, Gym, gear storage rooms, 14 sleep rooms



DAVENPORT RANCH FIRE/EMS STATION

SITE & CONTEXT:

- On St. Stephen's property
- No public transport within 1/4 mile
- Located in the ETJ
- Site has steep, rocky terrain





SITE BIRDSEYE VIEW



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SITE PHOTOS: WESTLAKE DRIVE





SITE PHOTO: FUTURE DRIVE LOCATION





SITE PHOTO: LOOKING NORTH



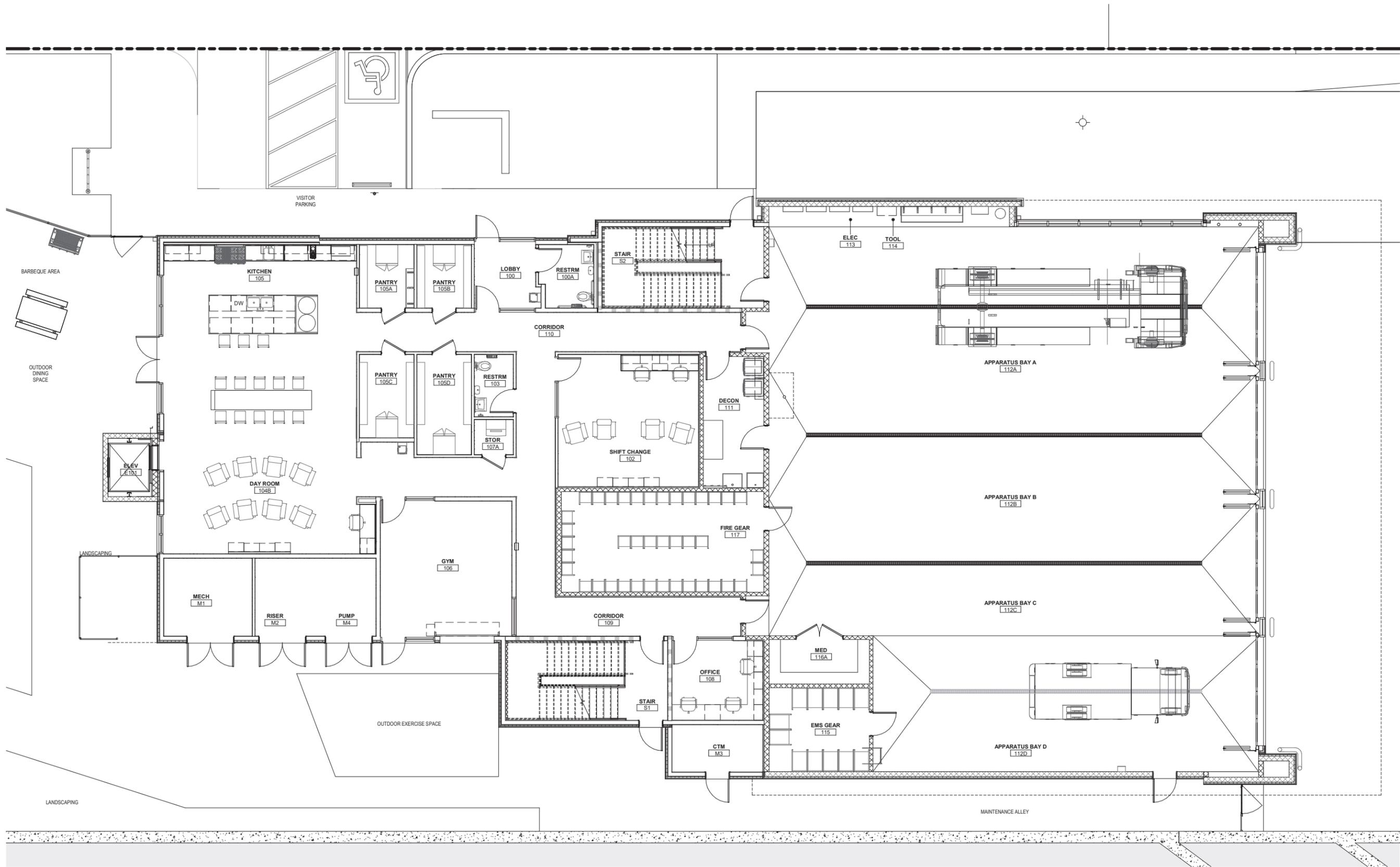
ARCHITECTURAL CONTEXT

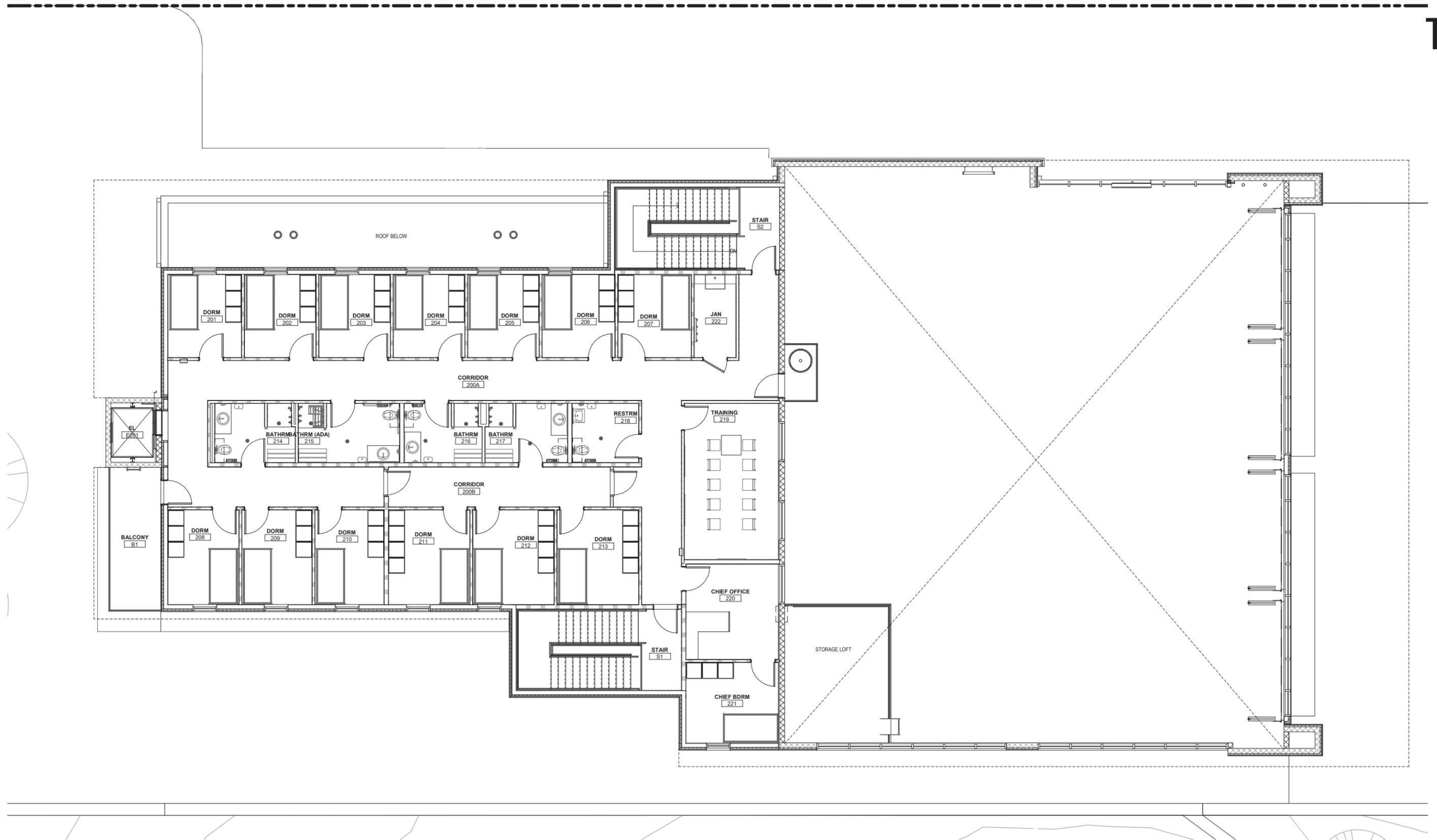
ST. STEPHEN'S EXISTING ARCHITECTURE:

- Natural Stone
- Metal low-slope roofing
- Large architectural overhangs
- Large glazing units











AERIAL RENDERING



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RENDERING: VIEW FROM DRIVEWAY



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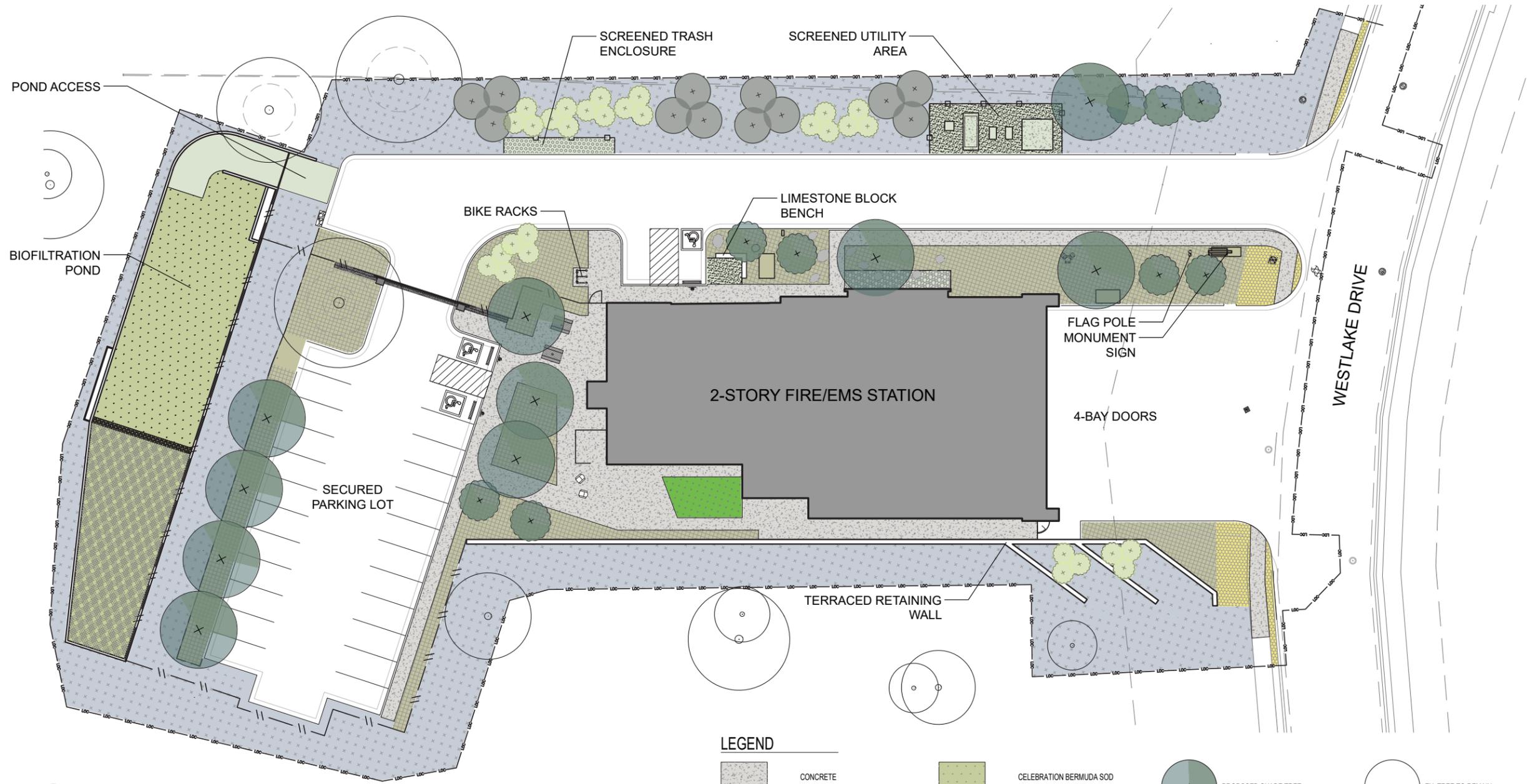
RENDERING: VIEW FROM PROPERTY LINE



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1 OVERALL LANDSCAPE PLAN
SCALE: 1/16" = 1'

LEGEND

	CONCRETE		CELEBRATION BERMUDA SOD		PROPOSED SHADE TREE
	ARTIFICIAL TURF		NON-IRRIGATED XERIC ROW PLANTING		PROPOSED UNDERSTORY TREE
	1/4 - 1/2 WASHED GRANITE GRAVEL		NATIVE SEEDING		SHADE TREE SEEDLINGS
	1-2.5" CALICO DRAINAGE GRAVEL		SITE-SALVAGED BOULDERS		UNDERSTORY TREE SEEDLINGS
	1/4" MINUS CRUSHED LIMESTONE IN GEOGRID		PROPERTY LINE		EX. TREE TO REMAIN
	NATIVE & ADAPTED PLANTING		LIMITS OF CONSTRUCTION		
	BIOFILTRATION POND PLANTING		FIRELANE		
			1/2" RAW MILD STEEL EDGING		
			SECURITY FENCING		
			PRIVACY FENCING		



RENDERING: PLANTING MATERIALS



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RENDERING: PLANTING MATERIALS



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SUSTAINABILITY OVERVIEW

Certification Goal:

LEED 4.0 Silver

Location and Transportation: site location challenging for credits. 10 of 16 credits are NO.

Sustainable Sites: concrete pavement key for Heat Island reduction.

Water Efficiency: water use reduction & additional metering

Energy and Atmosphere: enhanced commissioning, photovoltaic panels, and increased energy performance through envelope design

Materials and Resources: building product disclosures and waste management

Indoor Environmental Quality: low-emitting materials & indoor air quality management

Innovation: IPM, Green Housekeeping, education outreach, Pilot

Regional Priority: Additional points for using photovoltaic panels



LEED v4 for BD+C: New Construction and Major Renovation
Project Checklist

Project Name: Davenport Ranch Fire EMS Station
Date: 08.02.2021

Y	?	N			
1			Credit	Integrative Process	1
6	0	0	10	Location and Transportation	16
			Credit	LEED for Neighborhood Development Location	16
1			Credit	Sensitive Land Protection	1
1		1	Credit	High Priority Site - project does not qualify	2
2		3	Credit	Surrounding Density and Diverse Uses	5
		5	Credit	Access to Quality Transit	5
1			Credit	Bicycle Facilities	1
		1	Credit	Reduced Parking Footprint - zoning requirements? 40% reduction required	1
1			Credit	Green Vehicles - v4.1 allow 6% infrastructure	1
4	2	2	5	Materials and Resources	13
			Prereq	Storage and Collection of Recyclables	Required
			Prereq	Construction and Demolition Waste Management Planning	Required
			Credit	Building Life-Cycle Impact Reduction	5
			Credit	Building Product Disclosure Optimization - Environmental Product Declarations	2
			Credit	Building Product Disclosure and Optimization - Sourcing of Raw Materials	2
			Credit	Building Product Disclosure and Optimization - Material Ingredients	2
			Credit	Construction and Demolition Waste Management	2
6	2	3	5	Indoor Environmental Quality	16
			Prereq	Minimum Indoor Air Quality Performance	Required
			Prereq	Environmental Tobacco Smoke Control	Required
			Credit	Enhanced Indoor Air Quality Strategies	2
			Credit	Low-Emitting Materials	3
			Credit	Construction Indoor Air Quality Management Plan	1
			Credit	Indoor Air Quality Assessment - flushout or testing	2
			Credit	Thermal Comfort - controllability	1
			Credit	Interior Lighting - 90% individual occupant spaces - 3 levels	2
			Credit	Daylight	3
			Credit	Quality Views	1
			Credit	Acoustic Performance	1
5	3	2	0	Sustainable Sites	10
			Prereq	Construction Activity Pollution Prevention	Required
1			Credit	Site Assessment	1
			Credit	Site Development - Protect or Restore Habitat	2
1			Credit	Open Space	1
			Credit	Rainwater Management	3
2			Credit	Heat Island Reduction	2
1			Credit	Light Pollution Reduction - BUG	1
4	0	0	7	Water Efficiency	11
			Prereq	Outdoor Water Use Reduction	Required
			Prereq	Indoor Water Use Reduction	Required
			Prereq	Building-Level Water Metering	Required
1			Credit	Outdoor Water Use Reduction	2
2			Credit	Indoor Water Use Reduction	6
			Credit	Cooling Tower Water Use	2
1			Credit	Water Metering	1
5	1	0	0	Innovation	6
			Credit	Innovation - LED Lighting, Innovation, Pilot, Educational, EP, Composting	5
			Credit	LEED Accredited Professional	1
2	0	1	3	Regional Priority	4
			Credit	Regional Priority: Renewable Energy Production	1
			Credit	Regional Priority: Outdoor Water Use Reduction	1
			Credit	Regional Priority: Rainwater Management	1
			Credit	Regional Priority: Optimize Energy Performance	1
56	8	9	39	TOTALS	Possible Points: 110
Certified: 40 to 49 points, Silver: 50 to 59 points, Gold: 60 to 79 points, Platinum: 80 to 110					

