Ocean View School District

Golden View HVAC System

(Heating, Ventilation, and Air Conditioning)

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Summary



- Golden View Heating Ventilation and Air Conditioning (HVAC) System Overview
- Golden View HVAC Replacement Process
- Staff Recommendation and Board Direction

Golden View HVAC Overview

September 11, 2024,
<u>Special Board Meeting</u>



- Initiate process to replace Golden View HVAC
- Provide an update and staff recommendation
- Replace HVAC system summer 2025

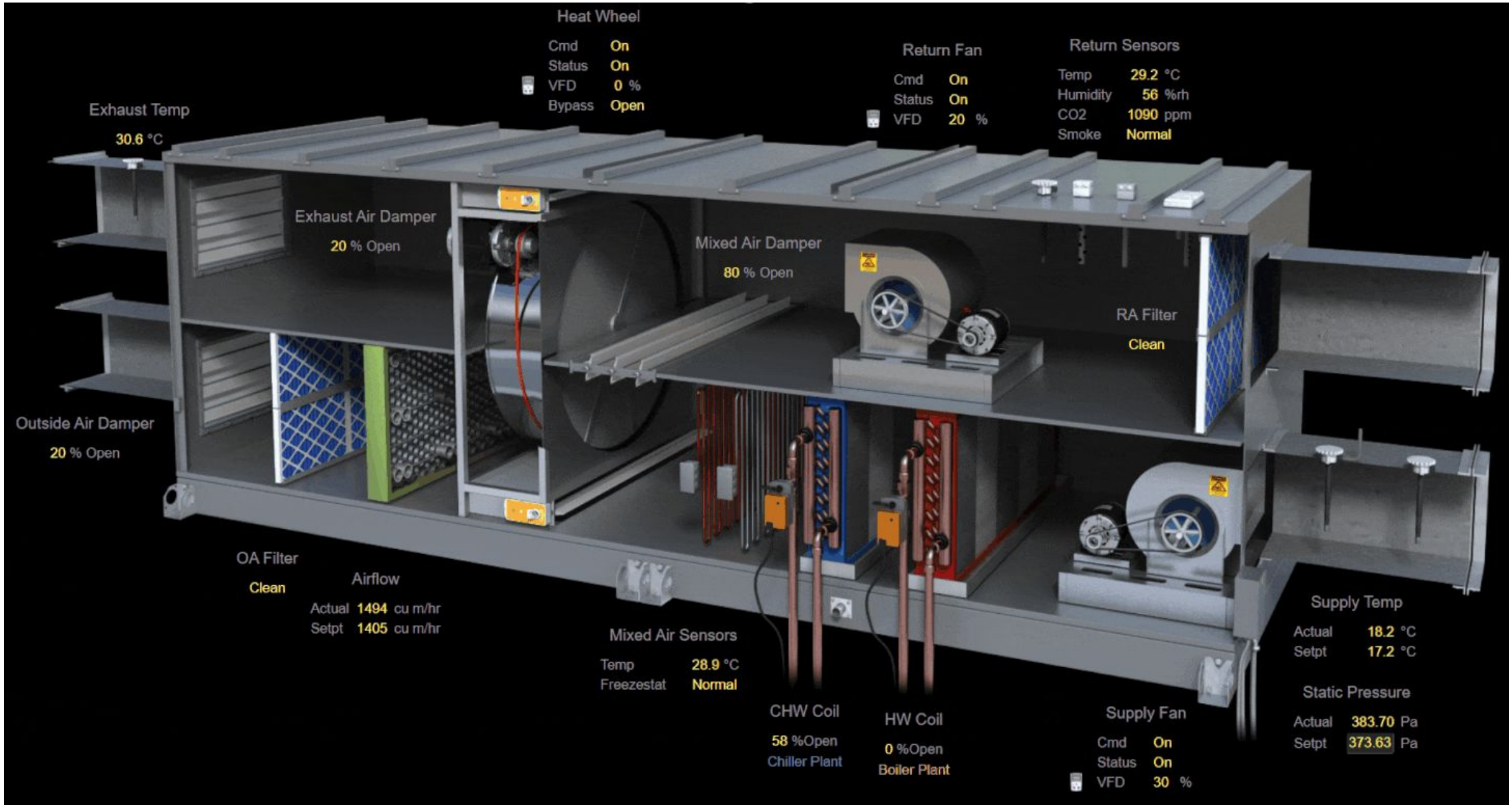
Golden View HVAC Replacement Process

- HVAC analyzed by three teams with Architects, Structural Engineers, Mechanical Engineers, and vendors
- Each team performed multiple site visits, inspections, reviews, and systems analysis
- Process yielded five options
- Options were reviewed and compared with recent HVAC installations

Staff Recommendation | Single Zone VAV Units

Key Selection Factors

- Minimal structural accommodations because replacement units match performance and footprint
- Most cost-effective solution to replace rooftop units
- Equipment lead time is around 16 weeks
- New units are efficient, serviceable, and include extended warranties
- Department of State Architecture (DSA) involvement is minimal
- Procurement through an existing California Multiple Awards Schedule (CMAS) contract eliminates the public bidding process


Heat Wheel
Cmd On
Status On
VFD 0 %
Bypass Open
Return Fan
Cmd On
Status On
VFD 20 %
Return Sensors
Temp 29.2 °C
Humidity 56 %rh
CO2 1090 ppm
Smoke Normal
Exhaust Temp
30.6 °C
Exhaust Air Damper
20 % Open
Mixed Air Damper
80 % Open
RA Filter
Clean
Outside Air Damper
20 % Open
OA Filter
Clean
Airflow
Actual 1494 cu m/hr
Setpt 1405 cu m/hr
Mixed Air Sensors
Temp 28.9 °C
Freezestat Normal
CHW Coil
58 %Open
Chiller Plant
HW Coil
0 %Open
Boiler Plant
Supply Fan
Cmd On
Status On
VFD 30 %
Supply Temp
Actual 18.2 °C
Setpt 17.2 °C
Static Pressure
Actual 383.70 Pa
Setpt 373.63 Pa



Questions?