

14390 Chantilly Crossing Lane in Chantilly

Sully District Council Land Use and Transportation Committee October 17, 2022



Accelerating success.

• Location Map



Existing Site Aerial

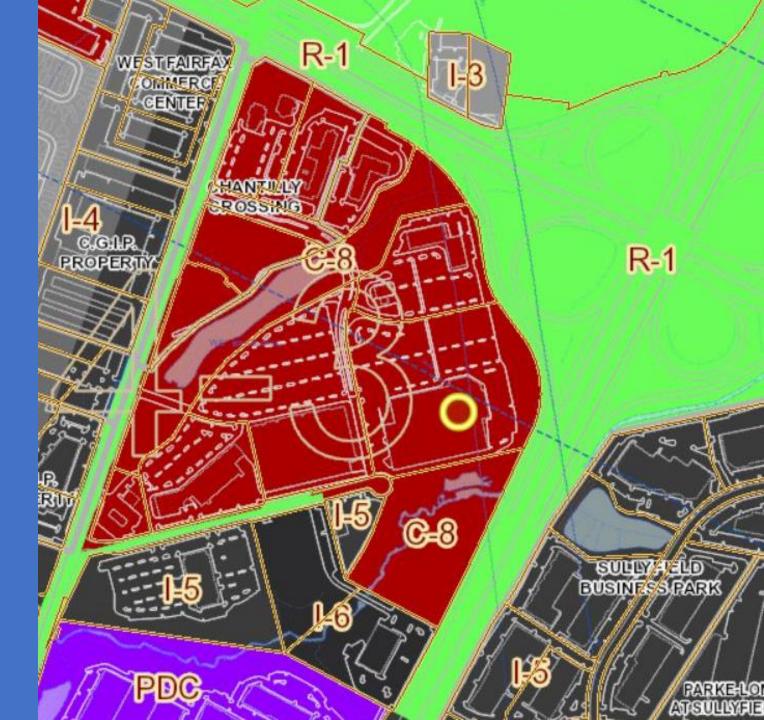
- 13.39 Acre site
- 0.37 Acre project area
- 1 Deed Parcel
 - Tax Map #0343 01 0041B



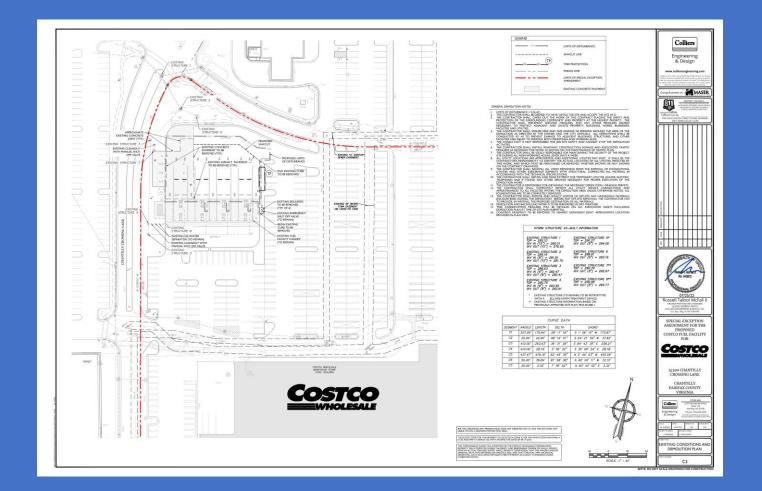
Current Zoning

• Zoned as C-8

- Highway Commercial District
- Surrounding area is C-8



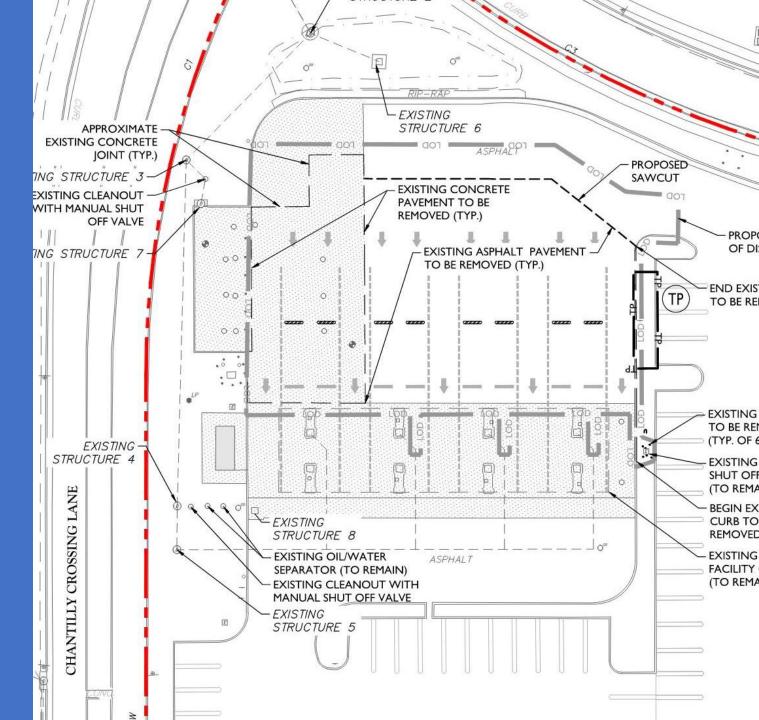
Existing Condition Plan



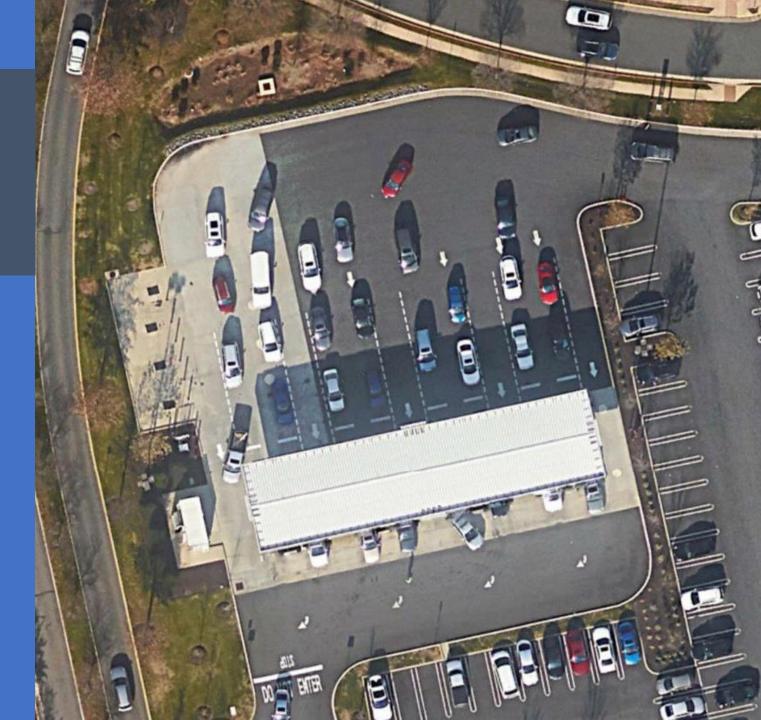
Add additional information here

Existing Fuel Facility

- 2 rows of 4 fuel islands
- 8 fuel islands
- 16 total fuel positions
- USTs
- Controller enclosure
- SWM facility (Bio-Retention)



• Existing Fuel Facility Aerial



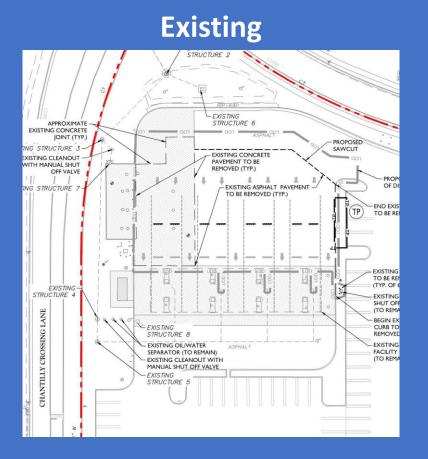
Existing SWM Facility

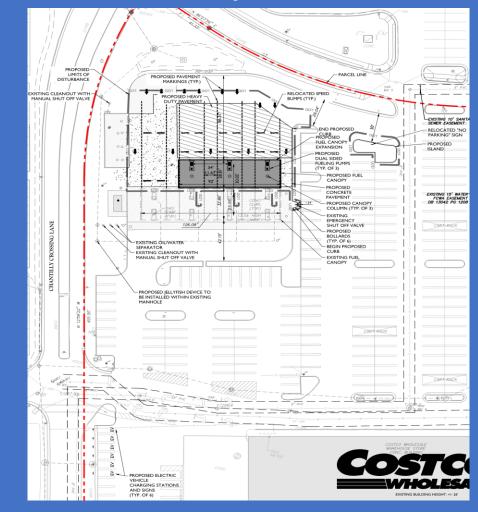
- Bio-Retention facility
- Treats an estimated 0.61 acres of surface runoff



Fuel Facility Expansion

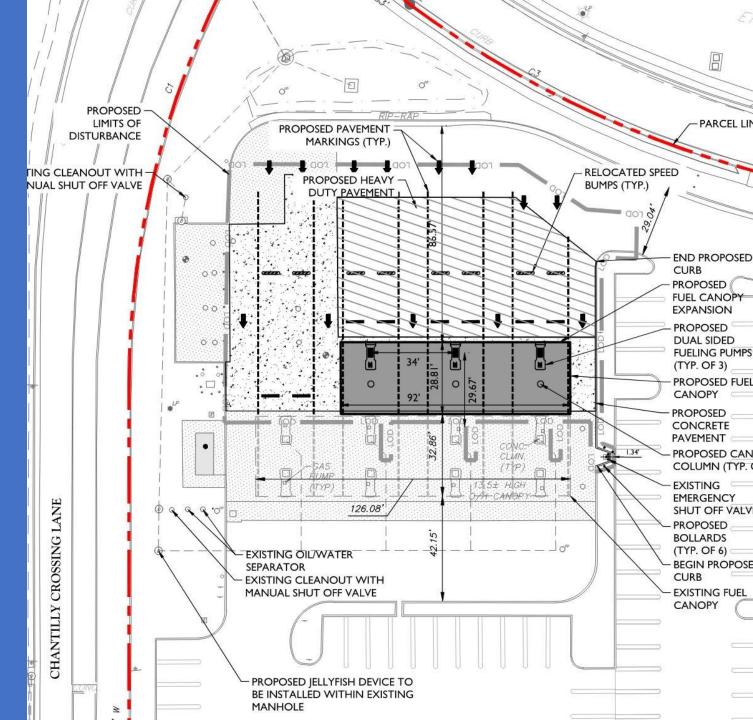
Proposed





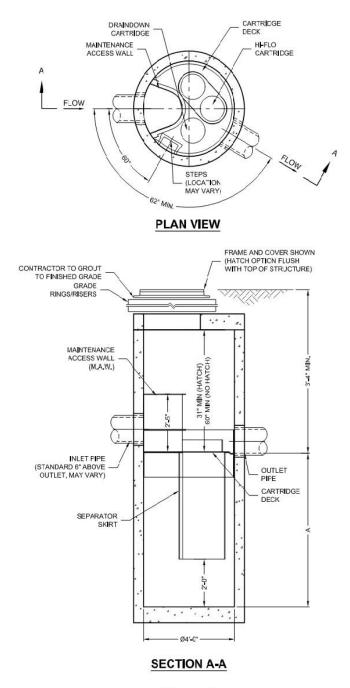
Fuel Facility Expansion

- 2 rows of 4 fuel islands
- 1 row of 3 fuel islands
- 22 total fuel positions
- Jellyfish device to assist in filtering of stormwater runoff
- USTs remain undisturbed
- Controller enclosure remains undisturbed
- ADA access to emergency shut off valve



Proposed Jellyfish Device

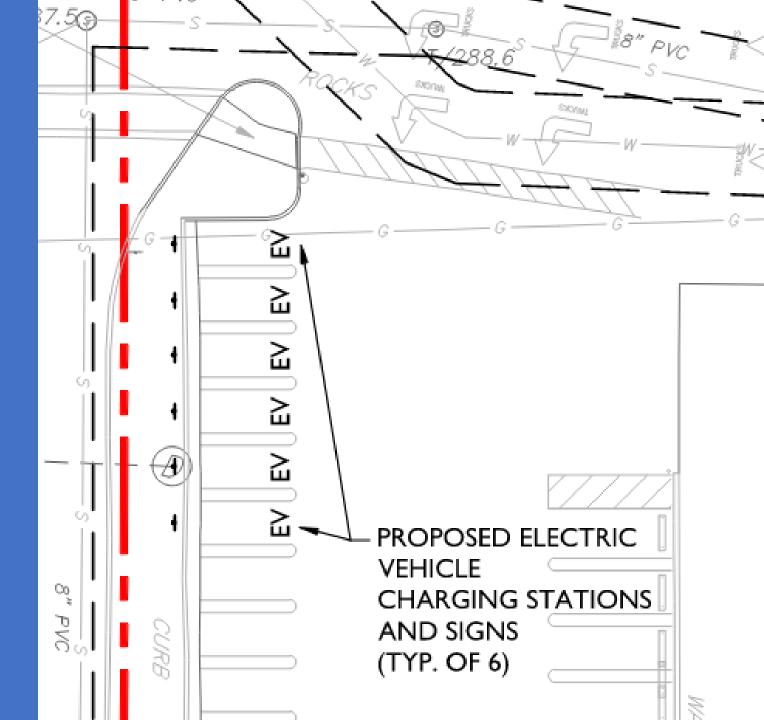
- Typically size of a manhole
- High flow rate membrane filtration
- High surface area rinseable/reusable membrane cartridges
- Treating 0.16 acres of stormwater runoff from the expanded canopy



Jellyfish⁵ Filter THIS PRODUCT MAY BE PROTECTED BY ONE OR MORE OF THE FOLLOWING U.S. FATENT NO. 8, 287, 288 & 227, 88 & U.S. 4, 23, 393; OTHER INTERNATIONAL PATENTS PENDING

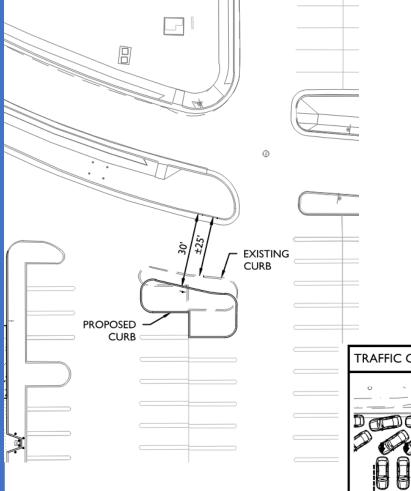
EV Charging Stations

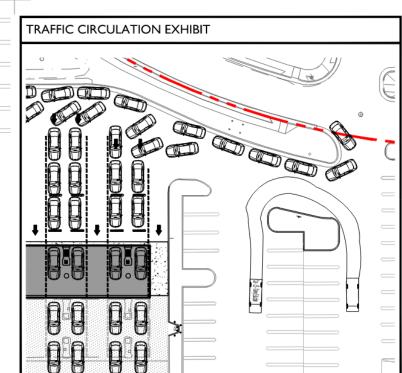
- 6 electric vehicle charging stations
- Accommodate Costco shoppers who have made the transition to EV



Larger Drive Aisle

- Increasing the width of the drive aisle approaching the facility from approximately 25 feet to 30 feet
- Improve two-way traffic in the aisle
- Improve navigation of parking lot without getting stuck in fuel facility traffic
- Accommodate Costco customers driving passenger vehicles with larger turning radii

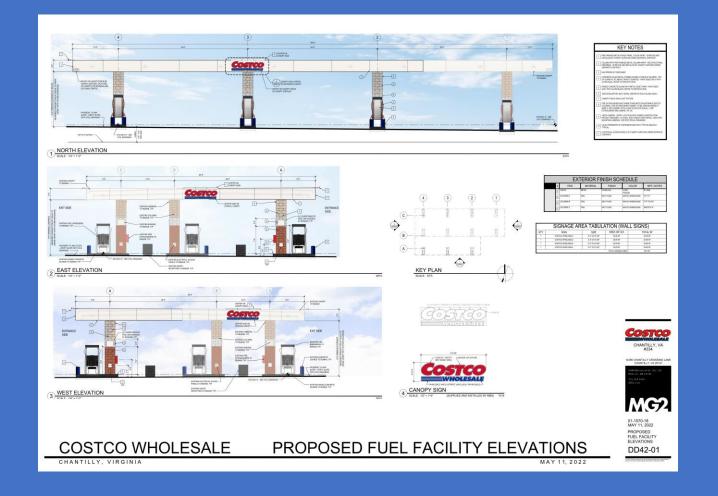




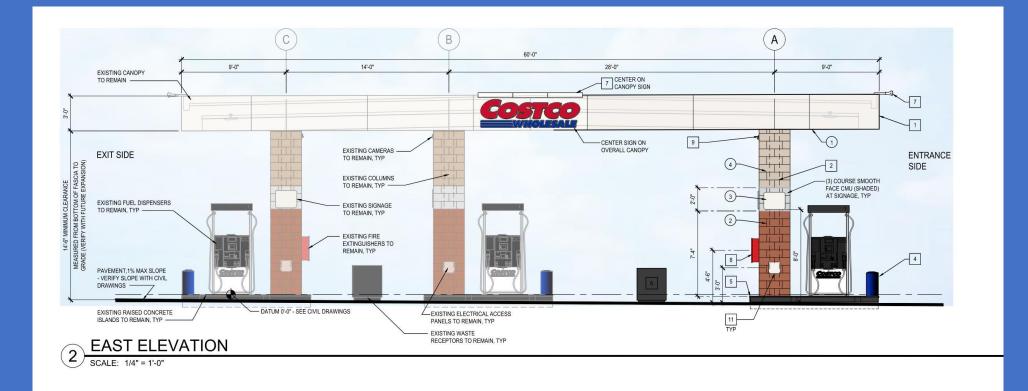
Proposed Rendering



Proposed Elevations



Proposed Elevations



Process

- 1 Expansion of fuel facility
- 2 C-8 Zone Fuel facility is a special exception. §4102.5.NN
- 3 Property is 13.39 acres, project site is only 0.37 acres (minimal impact)
- 4 Implementation of Jellyfish device (second SWM device for site)
- 5 ADA access to emergency shut off valve

- 6 No impact to existing USTs, controller enclosure or SWM facility
- 7 Deduction of surface runoff to SWM facility by expanding canopy
- 8 Addition of 6 EV charging stations

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Improving drive aisle access for fuel facility