NEW ELEMENTARY SCHOOL

REED SITE, ARLINGTON PUBLIC SCHOOLS USE PERMIT / PARK & RECREATION COMMISSION

OCTOBER 23 2018



PRC MEETING

PARK AND RECREATION COMMISSION (PRC)

- 1. Welcome/Opening Remarks
- 2. Process & Schedule
- 3. Proposed Design and Use Permit Application / Drawings
- 4. Construction Schedule
- 5. Ongoing Community Discussions
- 6. Questions





Process & Schedule

REED PARK AND RECREATION COMMISSION (PRC)

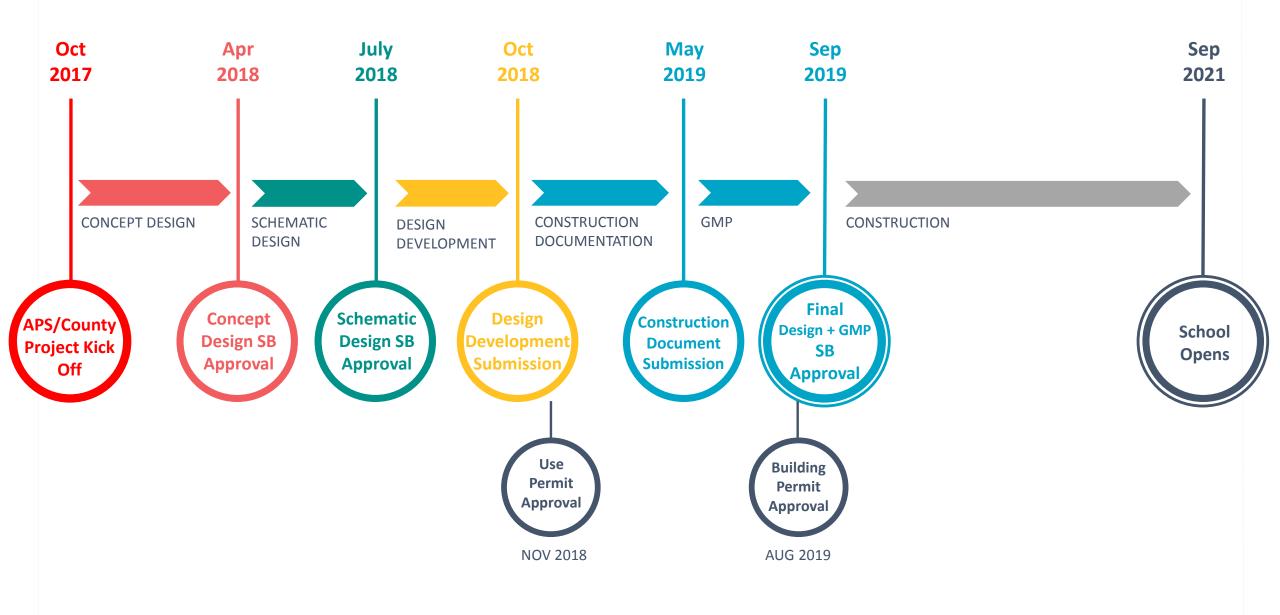


October 23, 2018

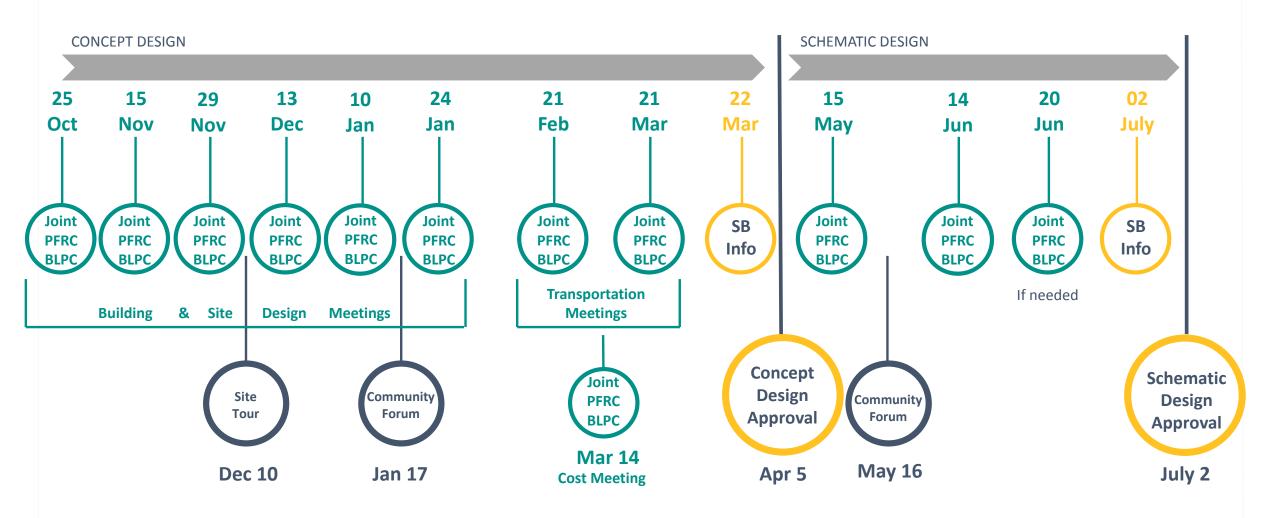


PROJECT PARAMETERS

- 1. Create a new neighborhood elementary school with an attendance zone
- Support APS Strategic Plan Goals, specifically Goal #4 Provide Optimal Learning Environments
- 3. Address capacity by providing at least 725 seats
- 4. Open by start of school 2021
- 5. Spend a maximum project cost of \$55 million, with strong direction to find opportunities to reduce costs.



VMDO OVERALL PROJECT TIMELINE



VMDO Concept / Schematic Design Timeline

10.22.2018 E2C2

October 22, 2018: Environment & Energy Conservation Commission (E2C2)

October 23, 2018: Park & Rec Commission

October 25, 2018: Urban Forestry Commission

November 1, 2018: Transportation Commission

November 5 or 7: Planning Commission

November 17 or 27: County Board

APS, its design team and County Staff are continually and collaboratively working together to meet the Use Permit Schedule noted above

E2C2

APS USE PERMIT CONDITIONS UPDATE

- County staff has utilized a baseline set of conditions for APS Use Permit projects since approximately 2007. These have evolved over time as processes have changed.
- The recent set of conditions included **64 individual conditions**, which tracks closely with conditions used for private development / 4.1 site plan projects.
- The recent set of conditions no longer accurately address the construction schedules for these types of facilities and have caused numerous conflicts resulting in construction delays and cost overruns.
- County staff and APS staff began a review of these baseline conditions in order to provide the appropriate mitigation for these projects, but also to accurately reflect construction schedules and processes for these facilities.
- County and APS staff are in the process of finalizing these revisions to the baseline set of APS Use Permit conditions, which will be utilized for the Reed project that is anticipated to be heard by the Planning Commission and County Board in November.

10 22 2018

E2C2

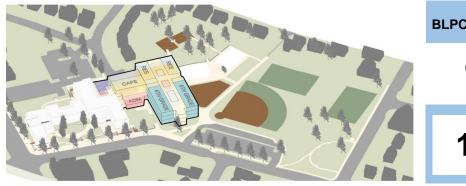
Proposed Design

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October 23, 2018

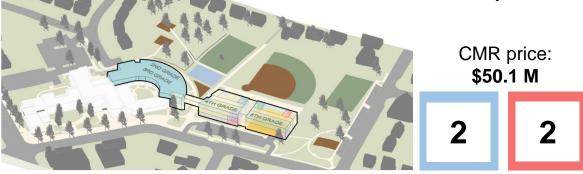




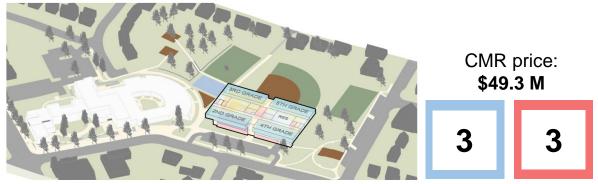


Integrated

4 story option 3 story: \$54.5



Bridge



Upper / Lower

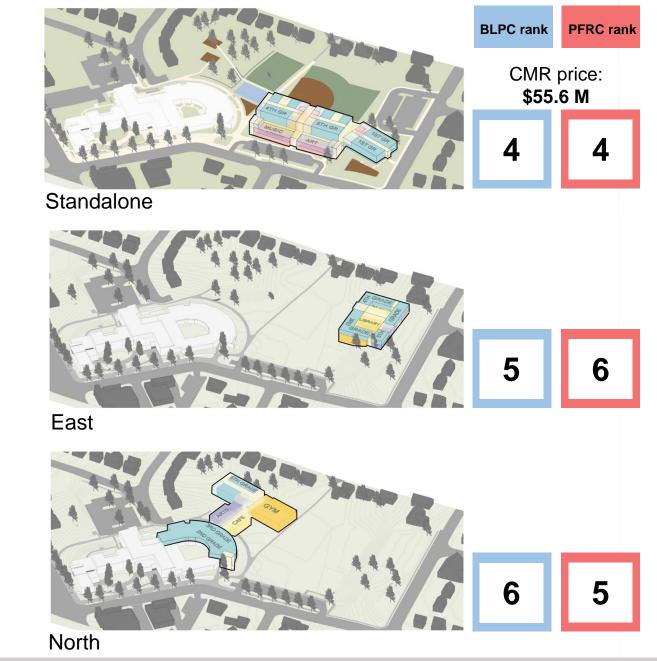
10.22.2018

E2C2

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Final estimates from Construction Manager at Risk



Site

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October 23, 2018





VMDO Existing Site Plan

10.22.2018 E2C2



VMDO Proposed Site Plan

10.22.2018 E2C2

Impervious Areas (sf)

Existing

Building:	52,744		
Play Courts:	16,272		
Other Paving:	46,741		
Parking:	26,476		
Total:	142,233		
% of site:	39%		

Proposed Design

Building:	58,875		
Play Courts:	8,574		
Other Paving:	50,165		
Parking:	46,982		
Total:	164,596		
% of site:	45%		

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Proposed Site Plan

10.22.2018 E2C2

PROPOSED DESIGN

On-site parking: 133 spaces (9 over min)

Space for 7 buses to load/unload at suggested location

Space for a total of 30 cars to queue on-site in two rows

Interior Class 1 bike storage with 2 showers

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Exterior bike racks



Proposed Site Plan

10.22.2018 E2C2

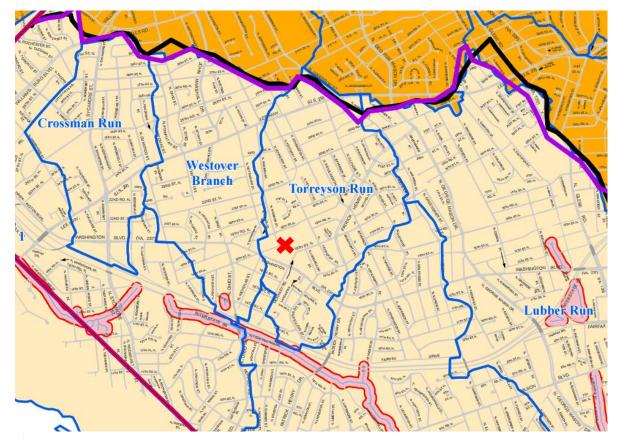
STORMWATER MANAGEMENT

Preservation of Existing Hydrology

•Protect Four Mile Run Watershed (Torreyson Run)

•Maintain On-Site Drainage Patterns

•Prevent degradation of downstream storm conveyance system



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Stormwater Management

10.22.2018 E2C2

STORMWATER MANAGEMENT

Quality

- •Virginia Runoff Reduction Method Re-Development Criteria
- Low-Cost & Low-Maintenance Preference
- •Recommended Compliance Strategy:

Bio-retention/Raingardens (Figure 1) Grass Channel / Dry Swale (Figure 2)

Manufactured Treatment Devices (MTD)

Quantity

10.22.2018

E2C2

•Stormwater discharges will meet the County requirements for channel and flood protection (i.e. Energy-Balance)



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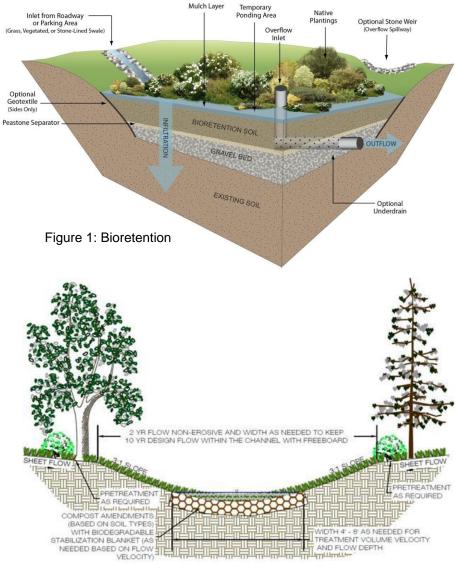
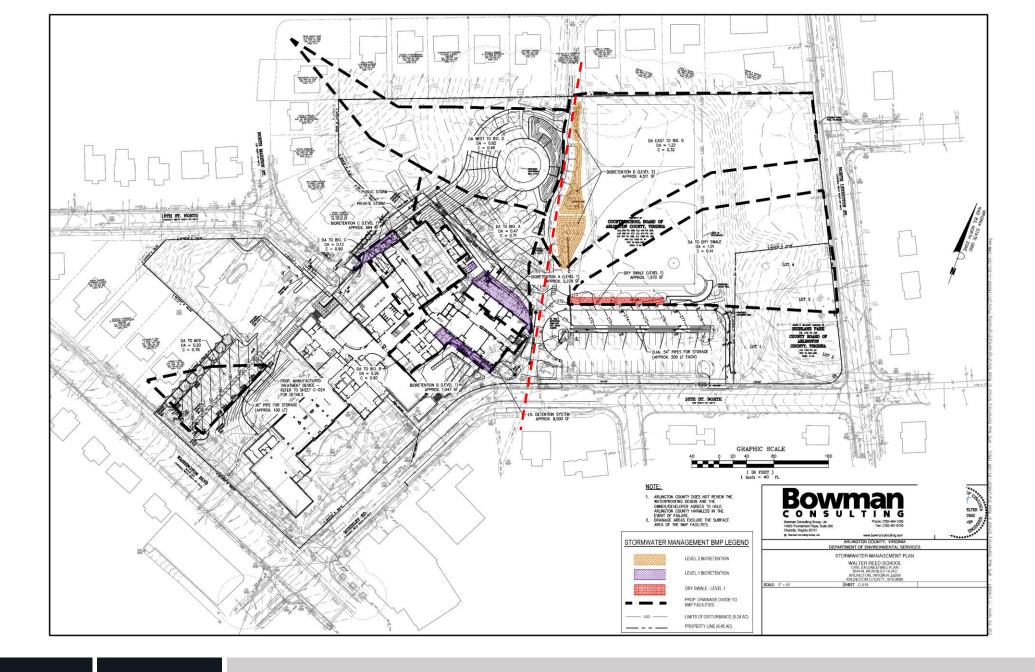


Figure 2: Grass Channel / Dry Swale

Stormwater Management



Stormwater Management

10.22.2018 E2C2

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The School will be Net Zero Energy ready. APS plans to add the school to the PPA agreements currently being negotiated by APS for other APS sites. Other high performance building targets and parameters:

- Integrate learning, design, sustainable design, and environmental stewardship so that it supports and enhances student learning and student success
- Deliver a balanced design that achieves Zero Energy status as defined by the United States Department of Energy
- Maximum Energy Use Intensity (EUI): 21
- On-site renewable energy generation that exceeds the EUI via a solar photovoltaic array (separate project)
- Overall minimum insulation R-values: 30-roof, 25- wall b
- Thermally broken windows with insulated glass
- Glazing percentage: 35-40%
- Airtightness: 0.15 cfm/sf
- HVAC System: ground source heat pump with dedicated outdoor air system
- Lighting System: all LED

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E2C2

- Provide building systems that are durable, straightforward to operate/control, and are easily maintained
- Consider Indoor Air Quality, Thermal / Acoustic / Visual Comfort, and Universal Design standards beyond the minimums
 required by building code

VMDO LEED / Net Zero Targets

LEED v4 for BD+C: Schools VMDO Project Checklist Project Name: Arlington NES at Reed 1236 Date: 8/17/18 Y??N 1 Credit Integrative Process 1 4 5 2 20 Location and Transportation 15 16 Credit LEED for Neighborhood Development Location 15 Sensitive Land Protection redit 2 Credit High Priority Site 2 2 1 Credit Surrounding Density and Diverse Uses 2 5 3 1 Credit Access to Quality Transit 4 Credit Bicycle Facilities 1 1 Credit Reduced Parking Footprint 1 1 Credit Green Vehicles 1 3 9 0 0 Sustainable Sites 12 Prereg Construction Activity Pollution Prevention Y Required Y Prereg Environmental Site Assessment Required 1 Credit Site Assessment Credit Site Development - Protect or Restore Habitat 1 1 2 Credit Open Space 3 Credit Rainwater Management 2 Heat Island Reduction Credit 1 Light Pollution Reduction Credit 1 redit Site Master Plan 1 Joint Use of Facilities Credit 5 3 2 2 Water Efficiency 12 Y Prereg Outdoor Water Use Reduction Required Y Preres Indoor Water Use Reduction Required Y Prereq Building-Level Water Metering Required 2 Credit Outdoor Water Use Reduction 2 Indoor Water Use Reduction 2 3 2 Credit 7 2 Credit Cooling Tower Water Use 2 Credit Water Metering 1 19 6 3 3 Energy and Atmosphere 31 Y Prerag Fundamental Commissioning and Verification Required Y Preres Minimum Energy Performance Required Y Prereg Building-Level Energy Metering Required Y Prereq Fundamental Refrigerant Management Required 5 1 Credit Enhanced Commissioning 6 13 3 Credit Optimize Energy Performance 16 Credit Advanced Energy Metering Gredit Demand Response 1 1 2 3 Credit Renewable Energy Production 3 1 Credit Enhanced Refrigerant Management 2 Credit Green Power and Carbon Offsets 4 1 6 2 Materials and Resources 13 Y Prereq Storage and Collection of Recyclables Required Y Prereq Construction and Demolition Waste Management Planning Required 5 Building Life-Cycle Impact Reduction Credit 5 building Product Disclosure and Optimization - Environmental Product Credit 1 Declaration 1 Credit Building Product Disclosure and Optimization - Sourcing of Raw Materials 2 1 Credit Building Product Disclosure and Optimization - Material Ingredients 1 1 Credit Construction and Demolition Waste Management

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E2C2

4 10 2 0 Indoor Environmental Quality 16 Y Prereg Minimum Indoor Air Quality Performance Required Y Prereg Environmental Tobacco Smoke Control Required Y Minimum Acoustic Performance Prereg Required 1 1 Enhanced Indoor Air Quality Strategies Credit 2 3 Low-Emitting Materials Credit Construction Indoor Air Quality Management Plan 1 Credit 1 1 Indoor Air Quality Assessment Credit 1 Credit Thermal Comfort 1 1 Credit Interior Lighting 3 Credit Daylight 11 Credit Quality Views 1 Credit Acoustic Performance 4 2 0 0 Innovation 6 EP: BPDO MR EPD 40 products from 5 manufacturers Credit 5 11 Credit EP: BPDO MR Material Ingredients 40 products from 5 manufacturers 1 Credit Innovation: Building as a Teaching Tool 1 MRpc103: Integrative Analysis of Building Materials Credit IPpc90: Social Equity, Option 2 (20% of Design Team) Credit 1 LEED Accredited Professional Credit

4	0	0	0	Regional Priority	4
1				Credit Optimize Energy Perform	ance 1
1				Credit Reduced Parking Footprin	nt 1
1				Credit Outdoor Water Use Redu	ction 1
1				Credit Access to Quality Transit	1
	-			Discusto Casallitan	

51 46 17 27 TOTALS

Possible Points: 110

Certified: 40 to 49 points, Silver: 50 to 59 points, Gold: 60 to 79 points, Platinum: 80 to 110

LEED / Net Zero Targets

RP

RP

RP

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RE

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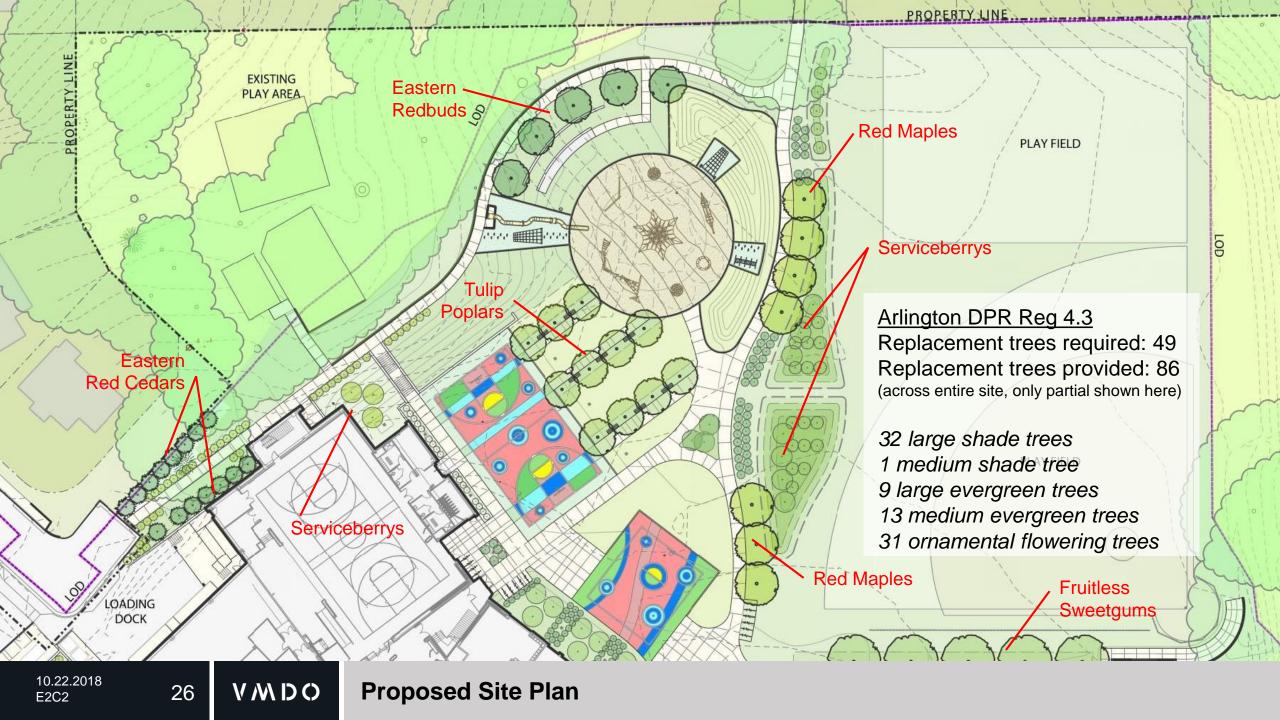








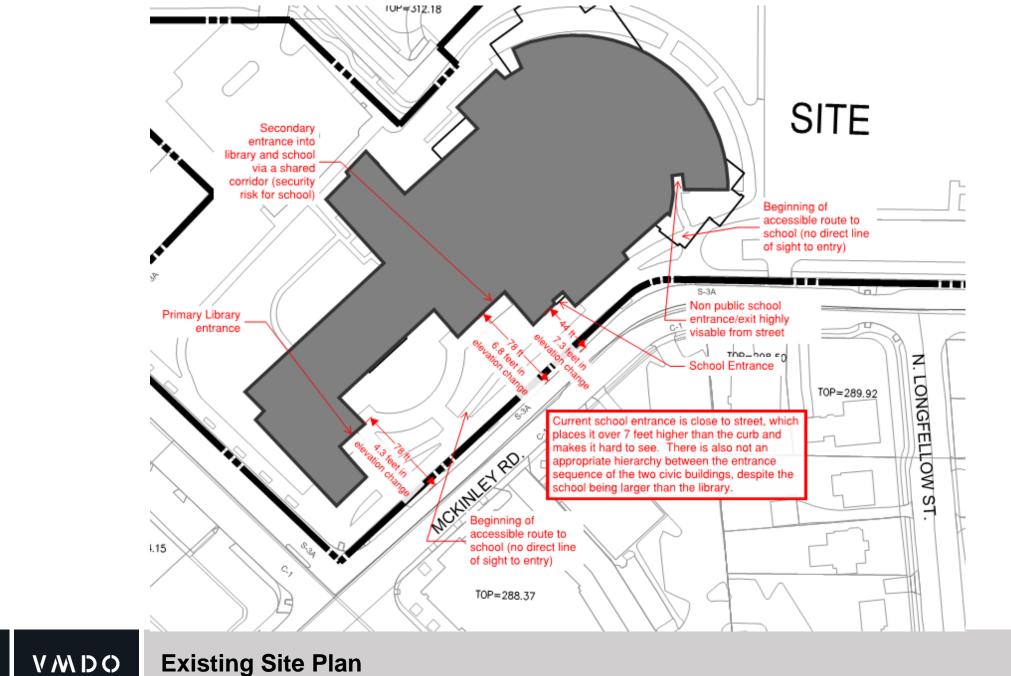




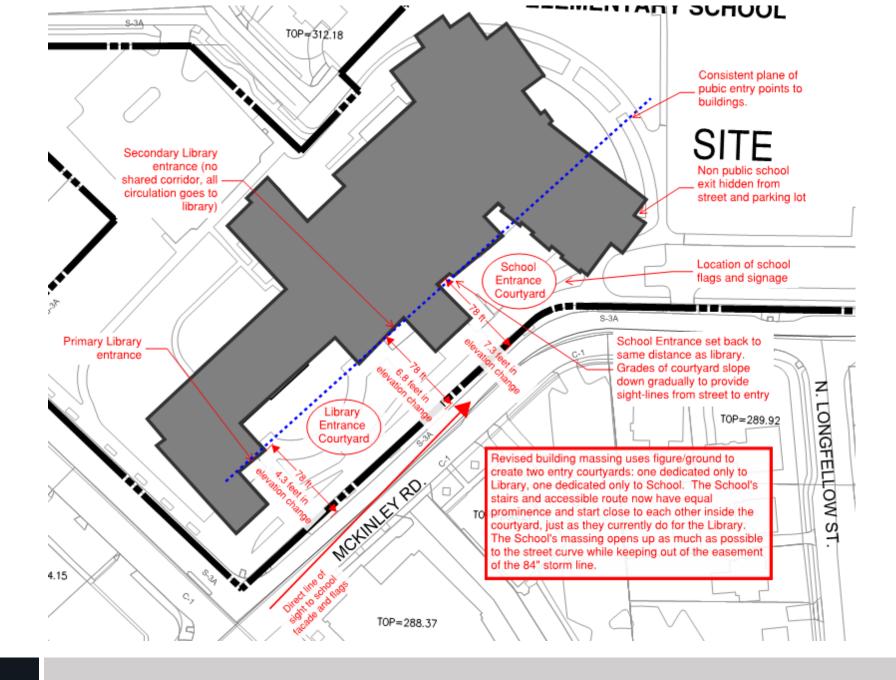








Existing Site Plan



VMDO Proposed Site Plan





Building REED PARK AND RECREATION COMMISSION (PRC)



October 23, 2018









VMDO Renderings 36



10.22.2018
E2C237VMDORenderings





10.22.2018 E2C2 39 VMDO Renderings



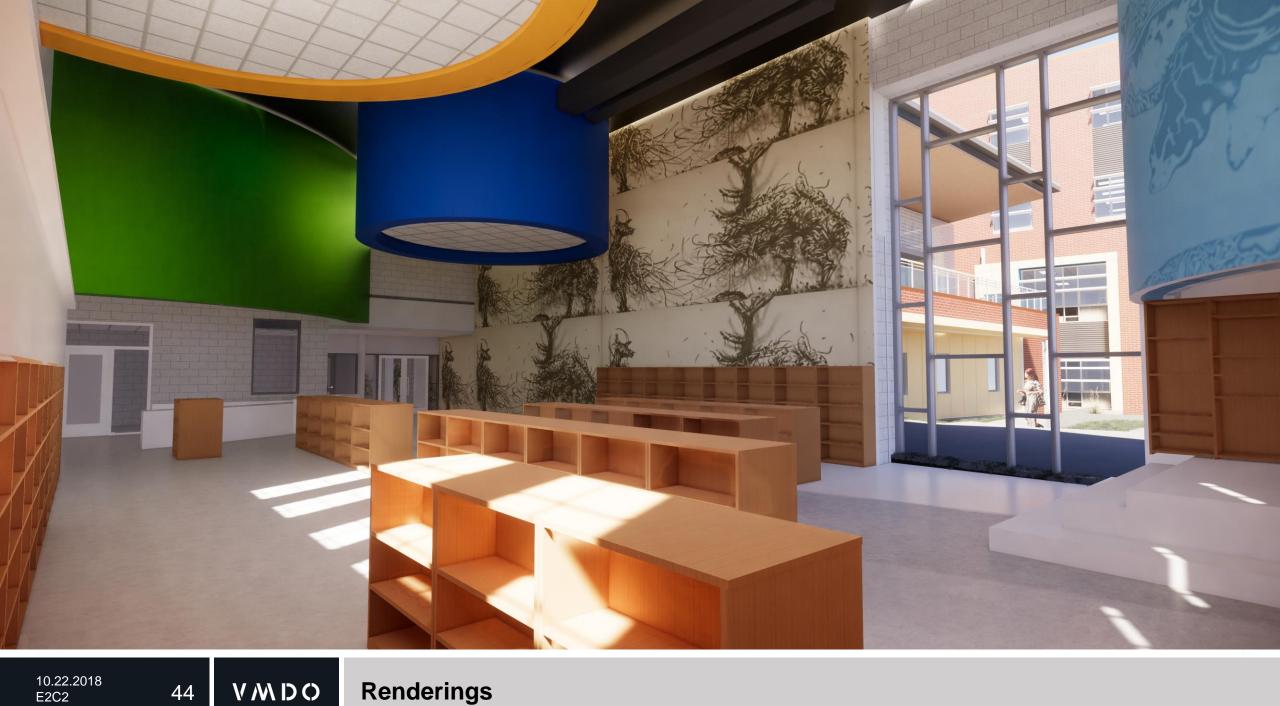














10.22.2018 E2C2



10.22.2018 VMDO Floor Plans – Level 1 46

E2C2



10.22.2018 VMDO Floor Plans – Level 2 47

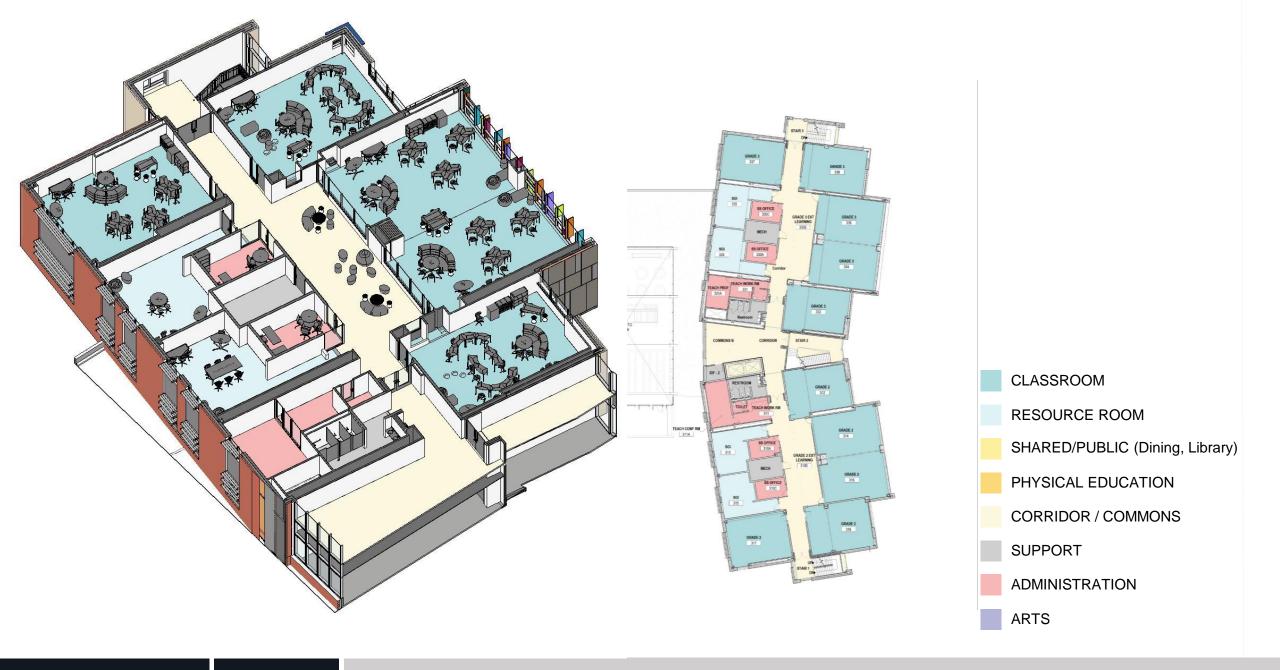
E2C2



Floor Plans – Levels 3 & 4

10.22.2018 E2C2

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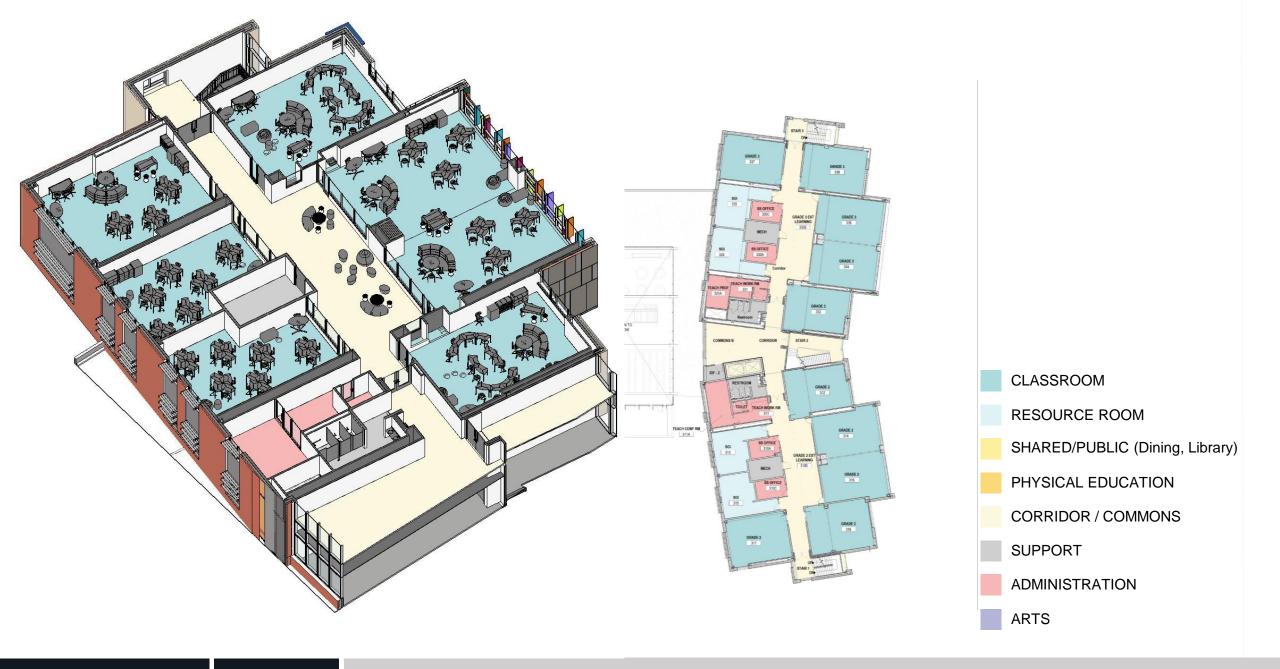


10.22.2018 E2C2

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Floor Plans – Levels 3 & 4. Grade level learning community: Agile Rooms



Adaptable design: 2 future classrooms

10.22.2018 E2C2

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Adaptable design: 5 enclosed classrooms with open collaboration space

10.22.2018 E2C2



Adaptable design: 3 enclosed classrooms and an open learning studio

10.22.2018 E2C2

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Construction

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October 23, 2018



CONSTRUCTION

September 2109:Consturction StartSeptember 2021:Construction Finish

The entire site will be unavailable from the start to the end of construction

Prior to the start of construction APS will have a joint BLPC / PFRC & Community meeting to provide further details on planned construction activities:

- Construction phasing
- Construction worker parking
- Construction hours

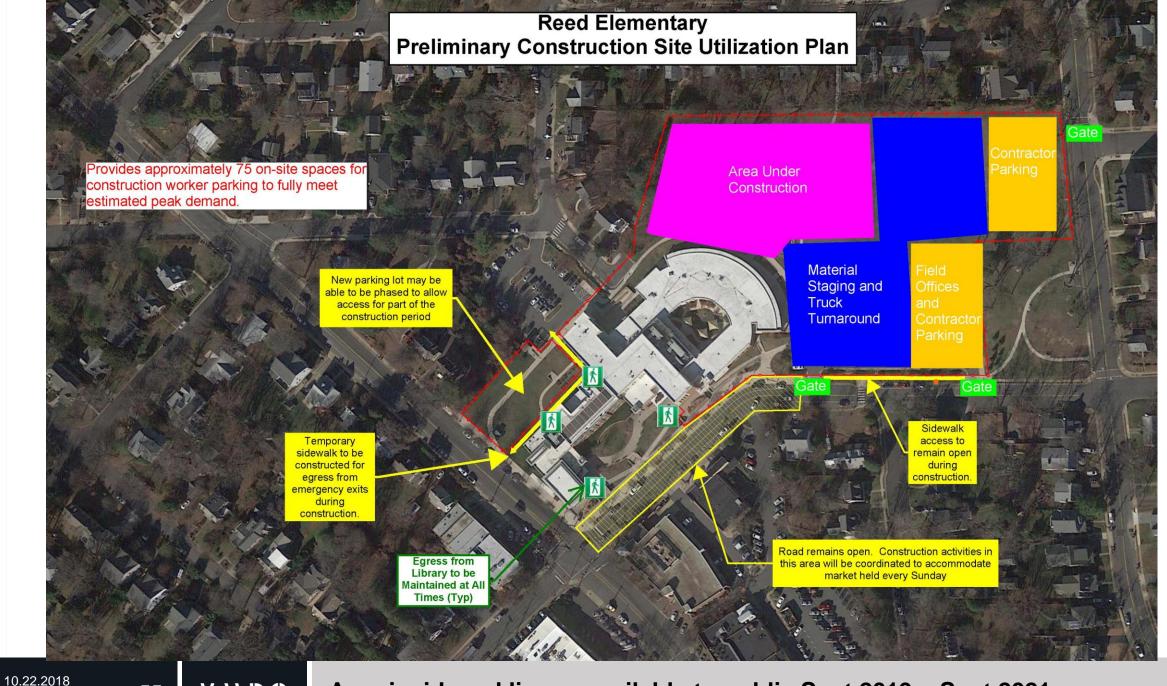
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• Other construction related issues

The library parking lot will remain open during construction for library patrons and the work in that area will be phased.

Work will be ongoing on the site for an immediate period of time past the construction finish date noted above for all punch list and other construction related items to be addressed.

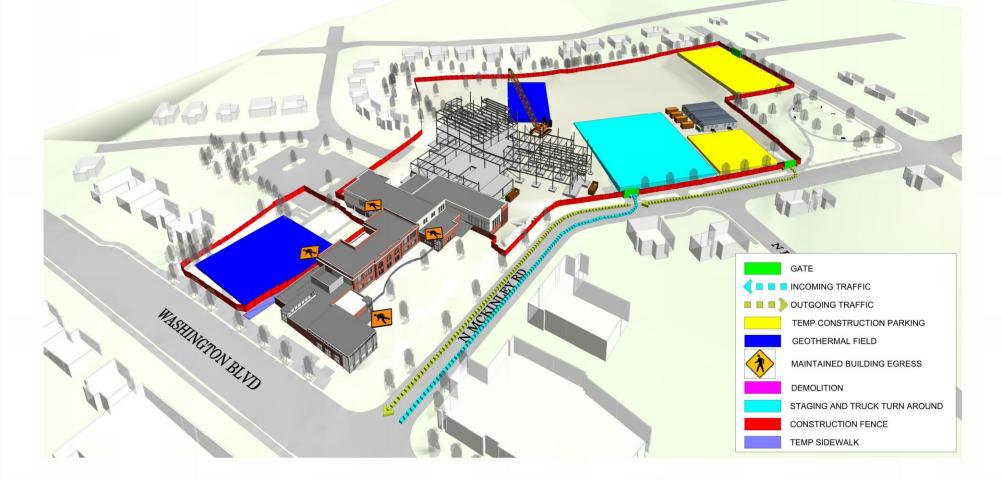
APS will provide the community with monthly construction updates during construction.



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E2C2

VMDO Area inside red line unavailable to public Sept 2019 – Sept 2021



New Construction November 2019 to August 2020

Geothermal work will begin in the field adjacent to the library in January 2020, with the field behind the school taking place in April 2020. When the geothermal work is completed, these areas will be used for construction staging and/or parking.



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Area inside red line unavailable to public Sept 2019 – Sept 2021

ONGOING COMMUNITY DISCUSSIONS

Discussions and revisions to the existing Library agreement

- Discussions and revisions to the existing Farmers Market agreement
- Discussions with Westover retail owners
- 18th street residents' concerns

10 22 2018

E2C2

Community / safety improvements beyond the immediate school site

CONTACTS

10.22.2018

E2C2

- Provide feedback to APS via project email: <u>reed.info@apsva.us</u>
- For further information, please contact:

APS Project ManagerCounty Project ManagerAjibola (Aji) Robinson PMPNicole Boling703-228-7738703-228-3945ajibola.robinson@apsva.usnboling@arlingtonva.us

- BLPC, PFRC, and Community Meeting dates are scheduled and posted on the APS project website: <u>https://www.apsva.us/design-and-construction/new-</u> <u>elementary-school-at-reed-building/</u>
- Provide feedback and comments to Arlington County: <u>https://commissions.arlingtonva.us/planning-commission/public-facilities-review-committee-pfrc/school-projects/walter-reed/</u>

Questions?

REED PARK AND RECREATION COMMISSION (PRC)



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