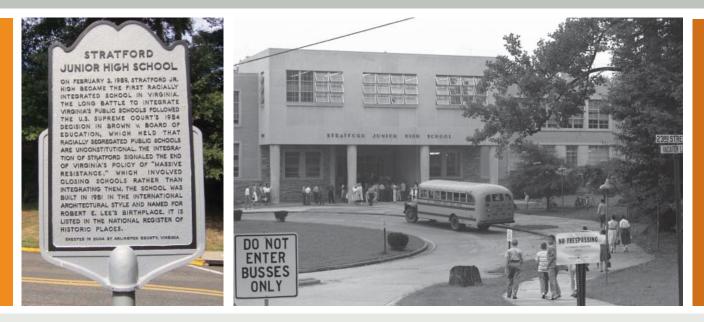
STRATFORD MIDDLE SCHOOL RENOVATION AND ADDITION ARLINGTON PUBLIC SCHOOLS

PFRC/BLPC JULY 21, 2016





PROJECT UPDATE AND SCHEDULE

PROJECT UPDATES

- Arlington County heard discussions regarding the driveway and indicated support of the driveway (4-1)
- APS School Board approved Schematic Design on June 2, 2016
- Arlington County Board and School Board approved local historic district designation
- Arlington County and VDOT approved the TIA for the proposed signal at intersection of Stratford driveway and Old Dominion Drive



APPROVED SCHEMATIC DESIGN ESTIMATE

PROJECT COST (\$ MILLIONS) ¹	
SITE WORK	\$ 8.15
ADDITION	\$ 20.14
RENOVATION	\$ 7.12
APS STAFF	\$ 0.55
EXPAND SCOPE OF LIGHTING REPLACEMENT ²	\$ 0.34
SUBTOTAL PROJECT COST ³	\$ 36.30
HISTORIC COMMEMORATION ALLOWANCE	\$ 0.25
TOTAL PROJECT COST	\$ 36.55

NOTES:

- 1. Based on two independent professional cost estimates.
- 2. Recommended to enhance Universal Design, improve the quality of the instructional environment, and reduce energy.
- 3. Matches maximum approved by the School Board at Concept Design.



PROJECT SCHEDULE

	2016	2016 2017		2018			2019						
USE PERMIT	1/201	17											
CERT. OF APPROP.	1/20 ⁻	17											
DESIGN DEV.													
CONST. DOCS.													
BUILDING PERMIT				9/2017									
CONSTRUCTION								T	BD				
SCHOOL OPEN													



USE PERMIT

- 1st Submission: 9/1/2016
- 2nd Submission: 10/2016
- Presenting to Commissions: (Fall/Winter 2016)
 - E2C2
 - HALRB
 - Parks and Recreation
 - Planning
 - Transportation
 - Urban Forestry
- County Board: 1/2017



BUILDING DESIGN UPDATE 2

VIEW FROM OLD DOMINION



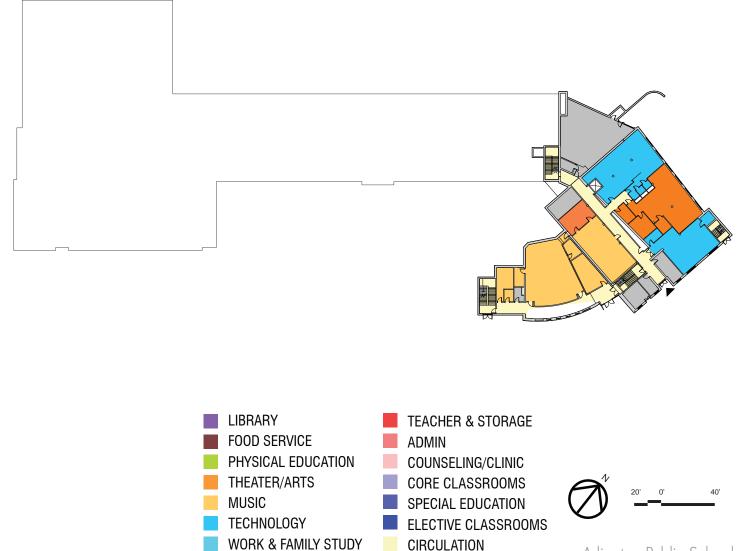


VIEW FROM EAST









▲ ENTRANCE

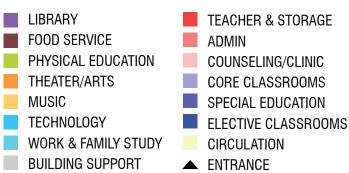
BUILDING SUPPORT



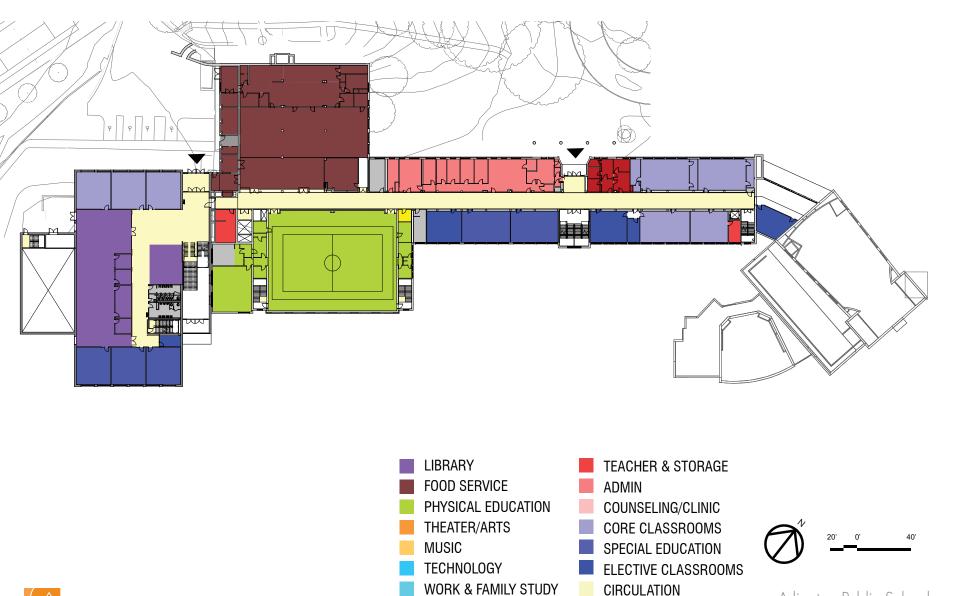
FIRST FLOOR PLAN







SECOND FLOOR PLAN



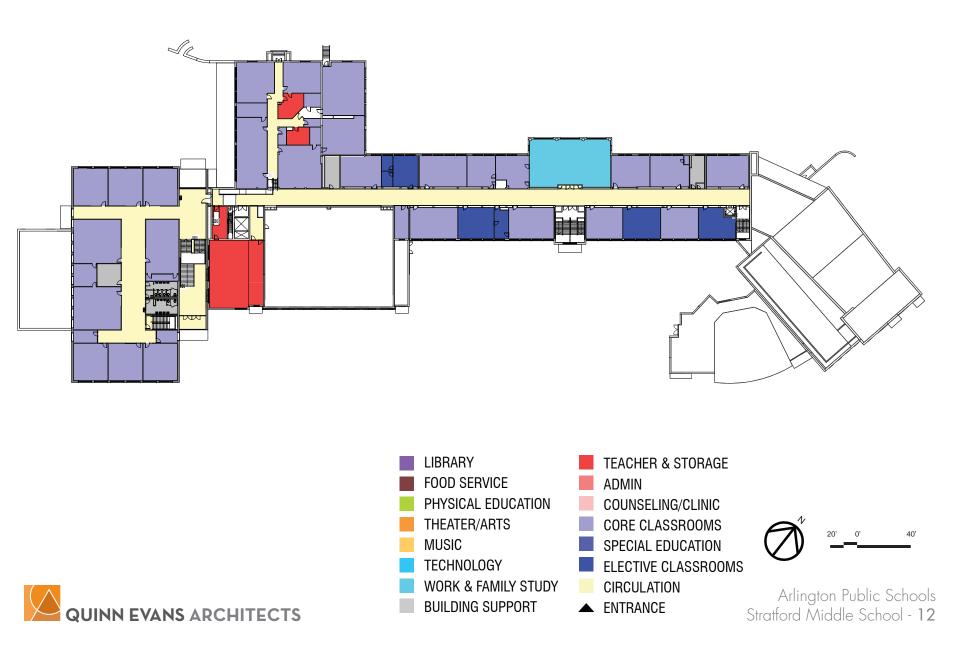
BUILDING SUPPORT

▲ ENTRANCE



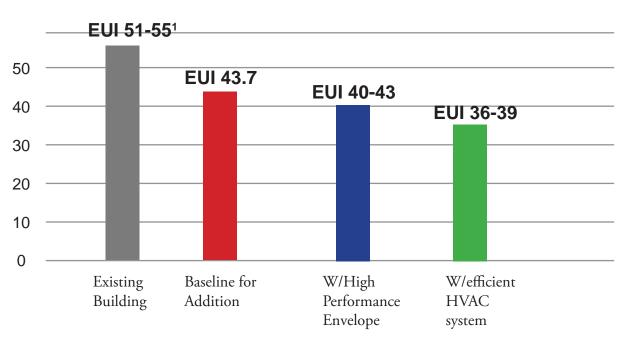


THIRD FLOOR PLAN



ENERGY TARGETS

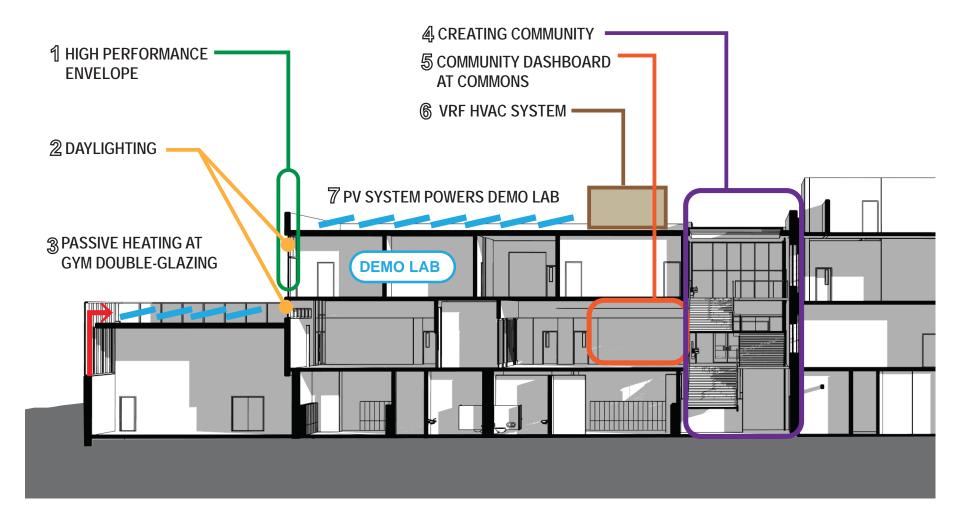
- EUI (energy use intensity) = total energy consumed / total gross square footage
- Metric that expresses a building's energy use a function of size and other characteristics



¹Existing metrics from APS Energy Report Cards 2013/2014/2015

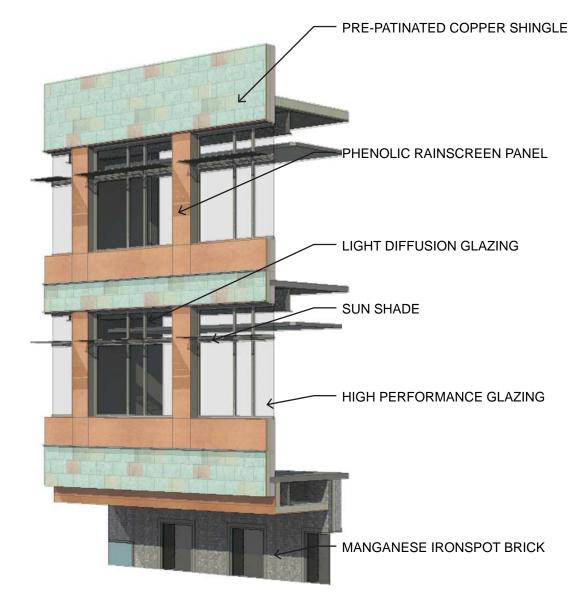


SUSTAINABLE OPPORTUNITIES





BUILDING ENVELOPE





BUILDING ENVELOPE





SOUTH ELEVATION





RENOVATION

- New elevator at east end of building
- Renovated cafeteria
- New teacher collaboration spaces
- Conversion of existing Library to Work and Family Life space
- Renovating select rooms to meet Neighborhood MS program needs
- Replacing ceiling and lighting (to LED) in core classroom as funding allows
- Moderate renovations to existing toilet rooms



RENOVATION



QUINN EVANS ARCHITECTS

SITE DESIGN UPDATE 3

PARKING CALCULATIONS ARLINGTON COUNTY ZONING

Q: How many spaces are required?

EMPLOYEES	134	1 staff parking space per 7.5 students			
VISITORS	25	1 visitor parking space per 40 students			
PARK USERS	10	Agreement with County Staff to use DPR feedback for park users			
TOTAL	169				

Q: Where are the spaces located?

A: According to zoning, all parking to be provided on-site



PARKING CALCULATIONS DATA-BASED TDM ASSUMPTIONS

Q:	How	many	spaces	are	required?
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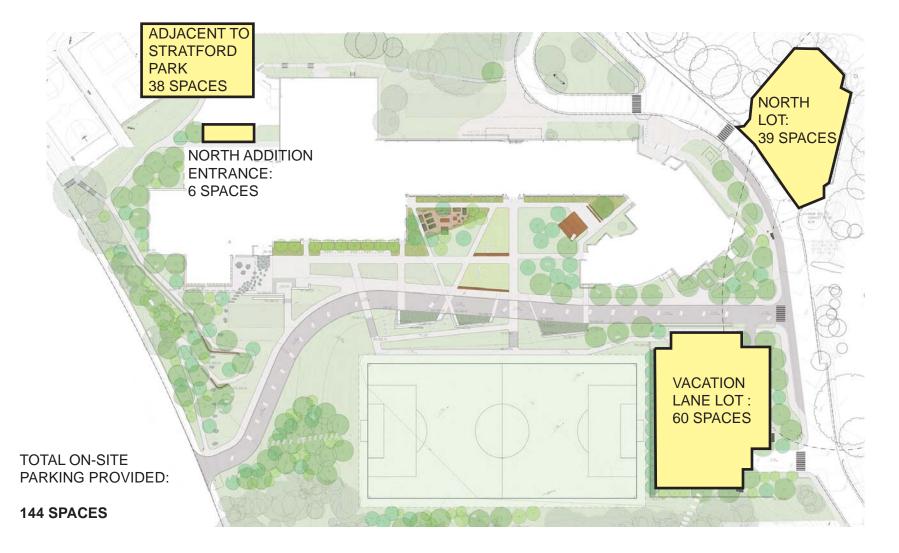
EMPLOYEES	134	Total estimated employees = 153 (124 F/T + 29 P/T based on existing MS staffing levels Average MS staff drive rate from 2013 survey = 92% (141) Additional 5% reduction for TDM = 134					
VISITORS	14	ased on maximum number of visitors recorded at Swanson MS at any hour rring 2015 APS Neighborhood MS Visitor Survey. Swanson provided most liable data set of the survey					
PARK USERS	10	Based on feedback from DPR.					

Q: Where are the spaces located?

OFF-SITE	14	To reduce parking on-site, TDG surveyed available on-street parking during school hours and recommended that 14 of total required spaces be accommodated through on-street parking on Vacation Lane and 23rd Street.				
ON-SITE	144	Total to be provided on-site				



PARKING CALCULATIONS PARKING LOCATIONS

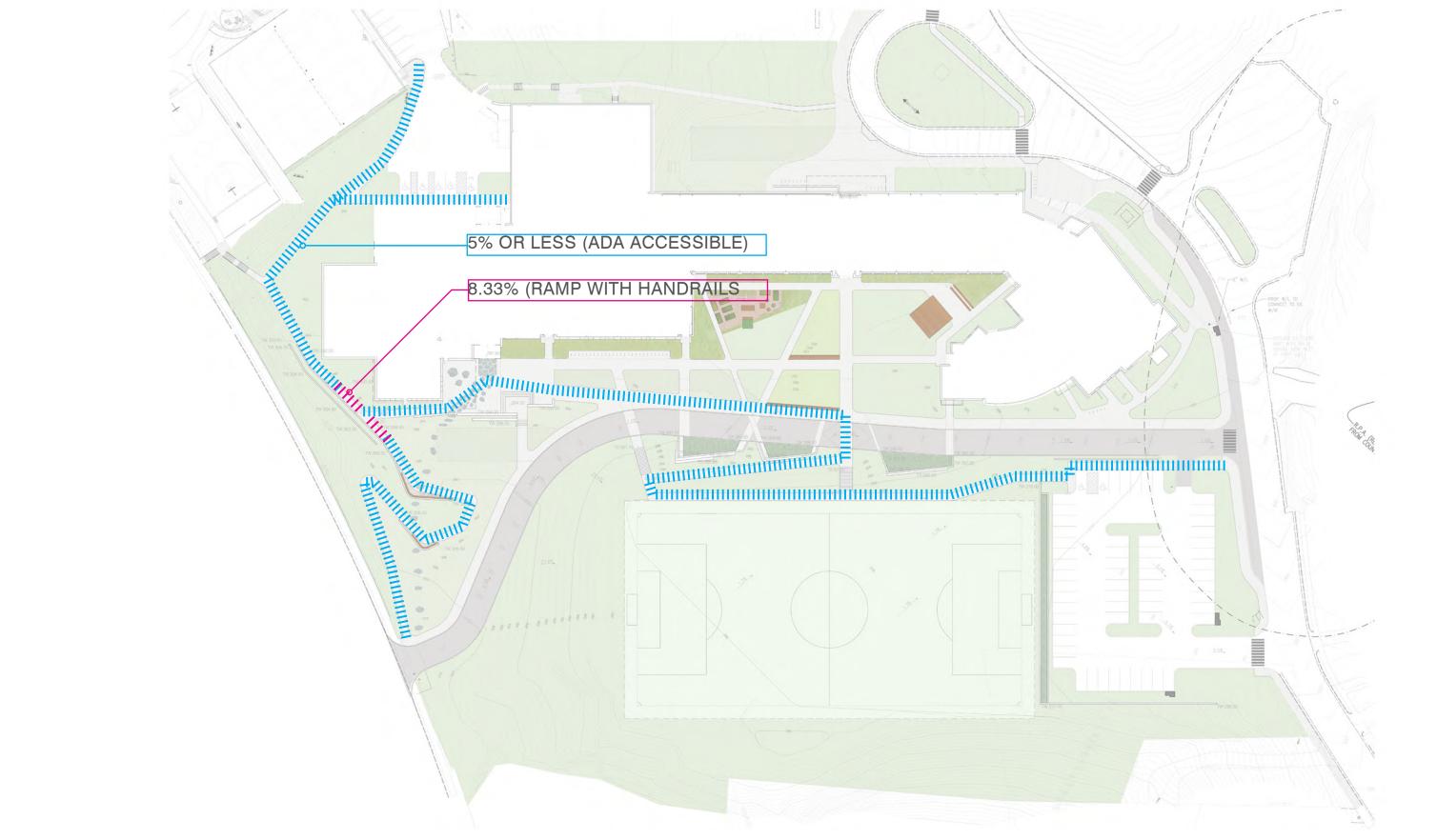




I × - - -2) N 28 2 (3) 2 1 27.8% 120-1 . **** SITE PLAN + PROGRAM

OCULUS





ADA ACCESSIBILITY

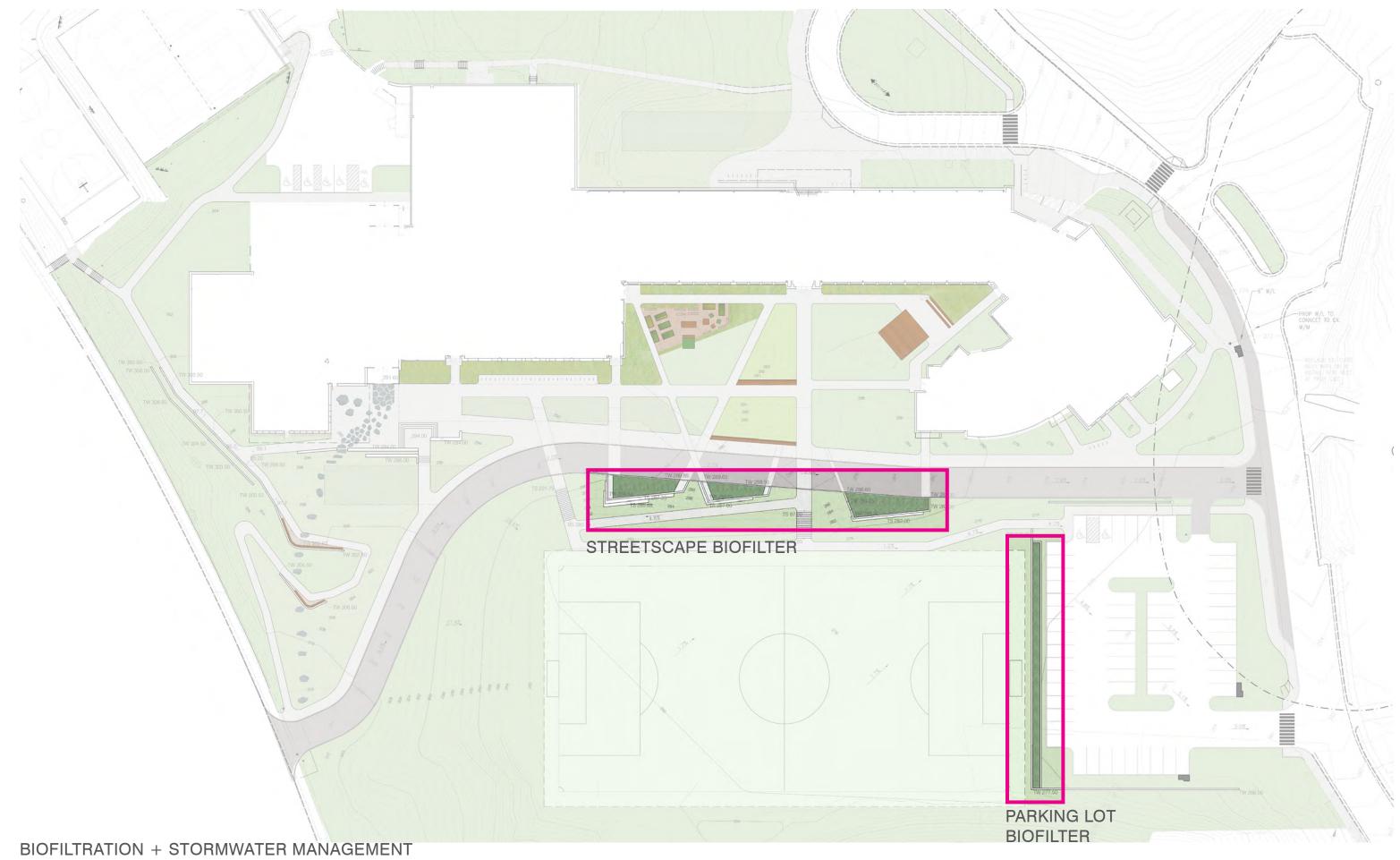


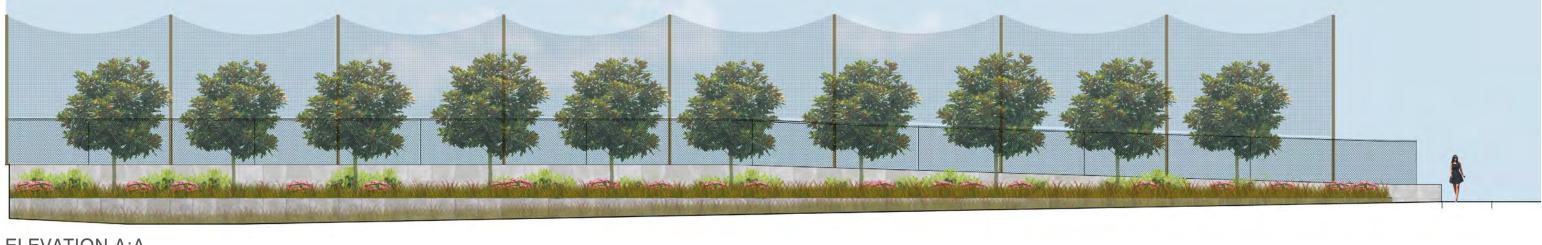
ADA ACCESSIBILITY











ELEVATION A:A

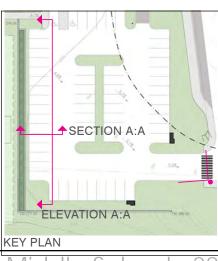


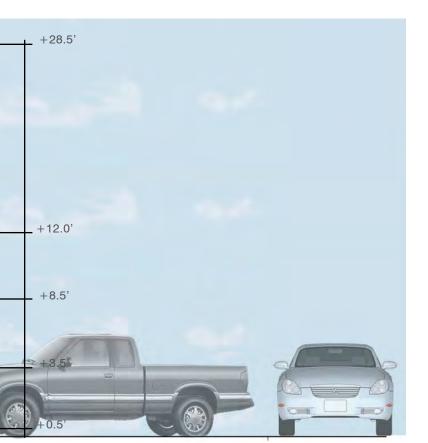
DISCOVERY SCHOOL BACKSTOP NET

SECTION A:A

PARKING LOT BIOFILTER - DETAILS











PARKING LOT BIOFILTER - PERSPECTIVES

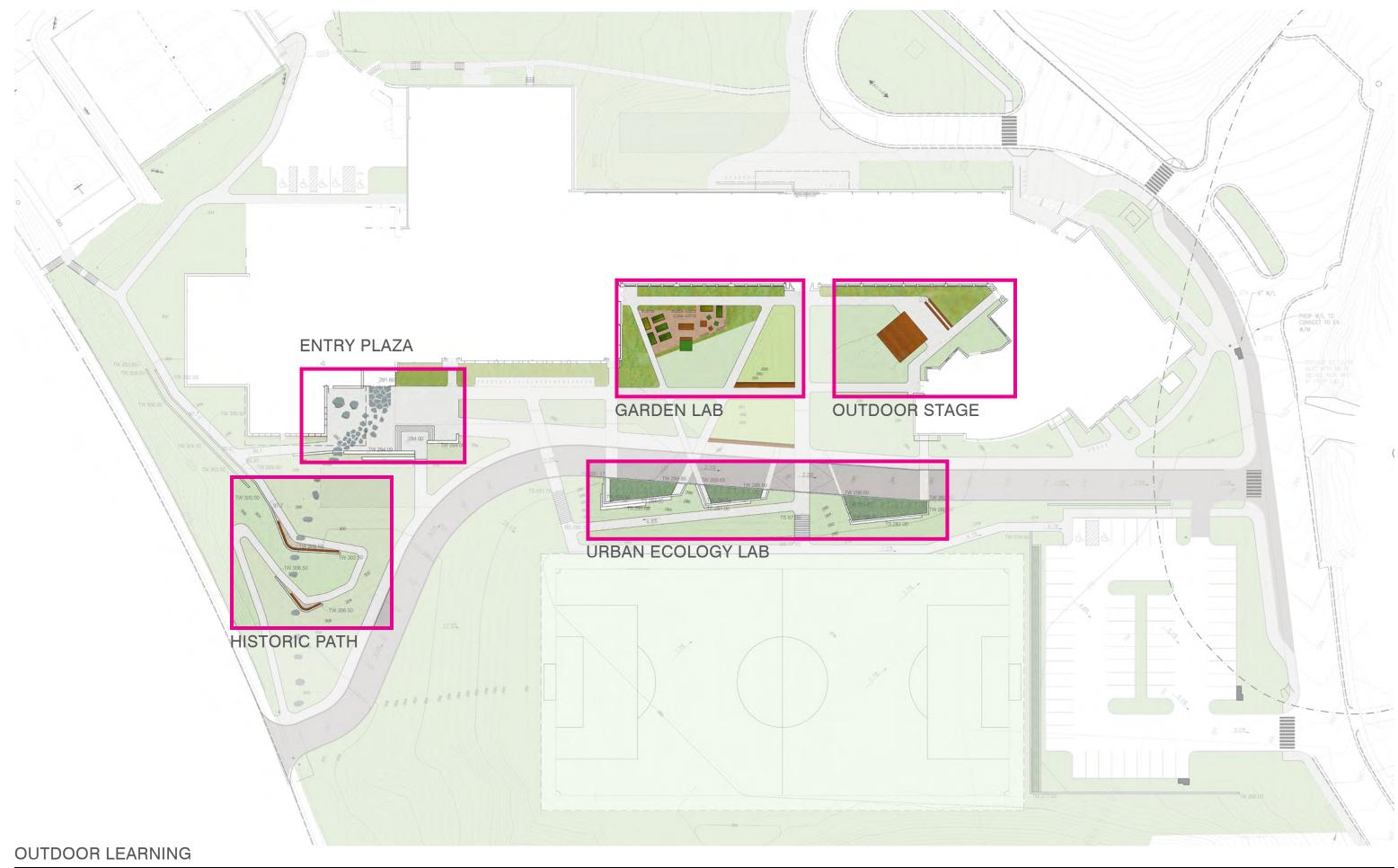




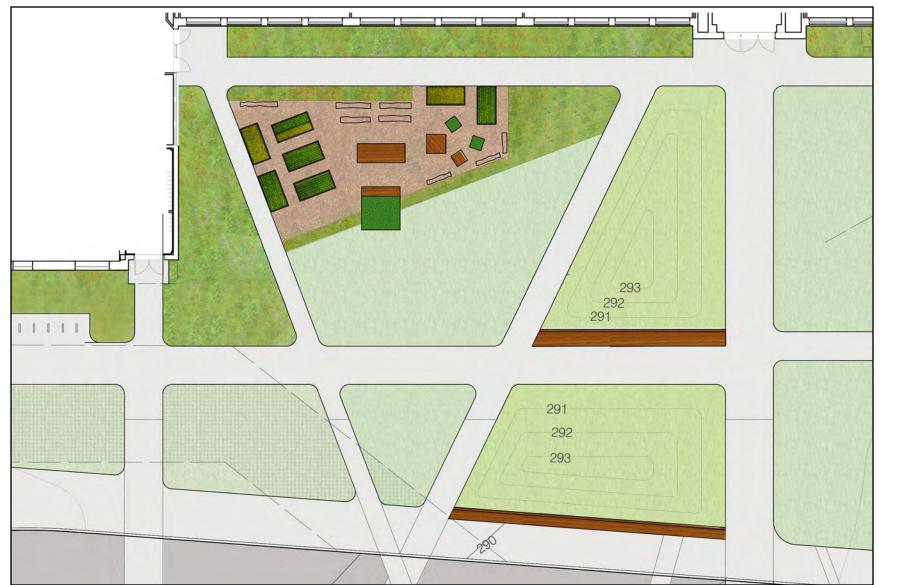
STREETSCAPE BIOFILTRATION

APS Stratford Middle School - 30

KEY PLAN



OCULUS







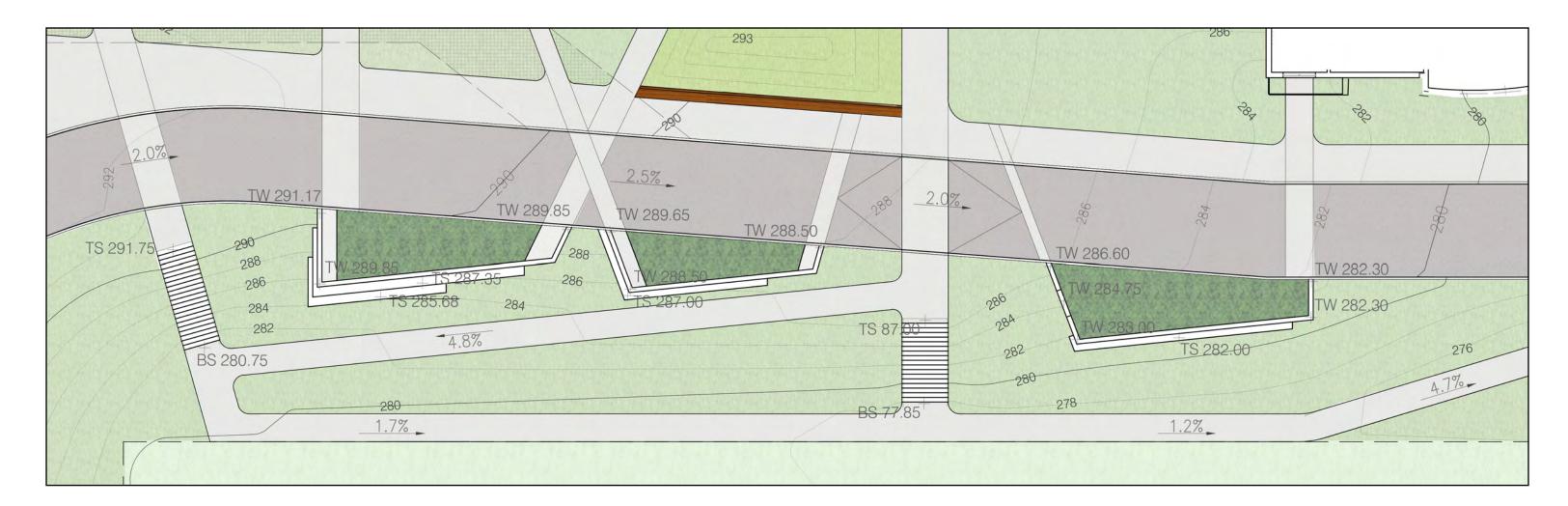


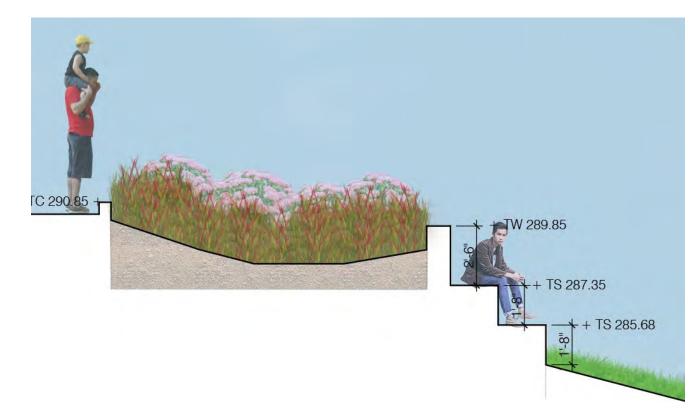




OUTDOOR LEARNING - GARDEN

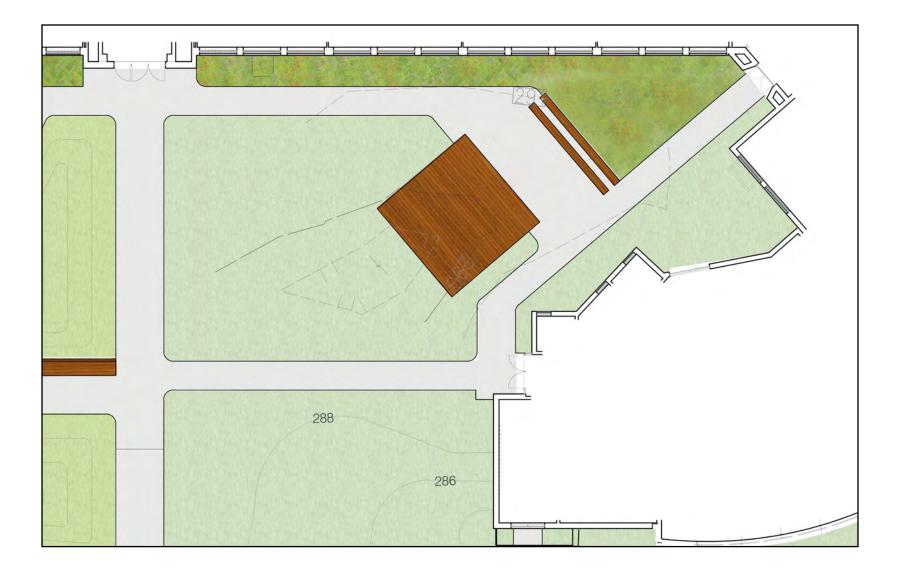


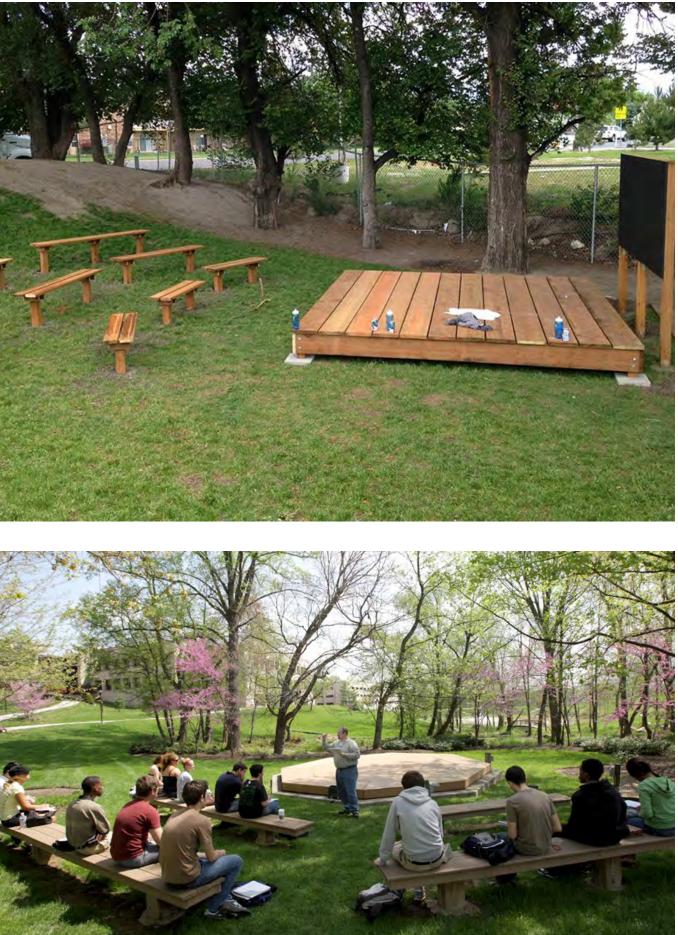






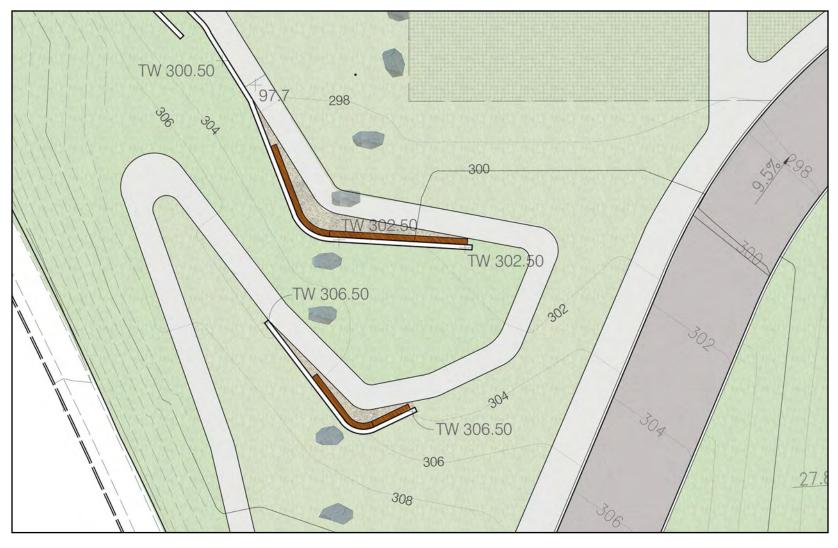
OUTDOOR LEARNING - URBAN ECOLOGY LAB







OUTDOOR LEARNING - STAGE







OUTDOOR LEARNING - HISTORIC WALK

OCULUS

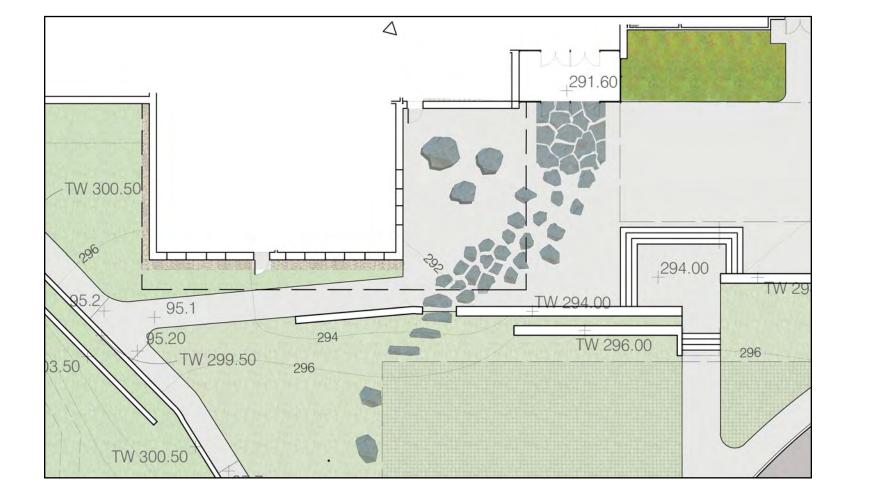




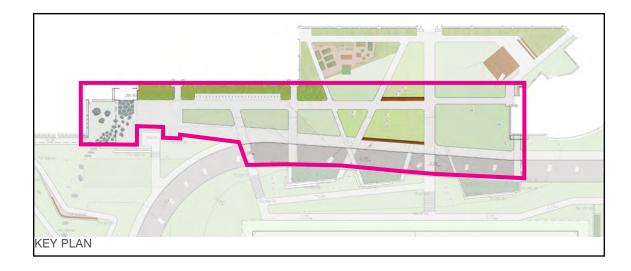
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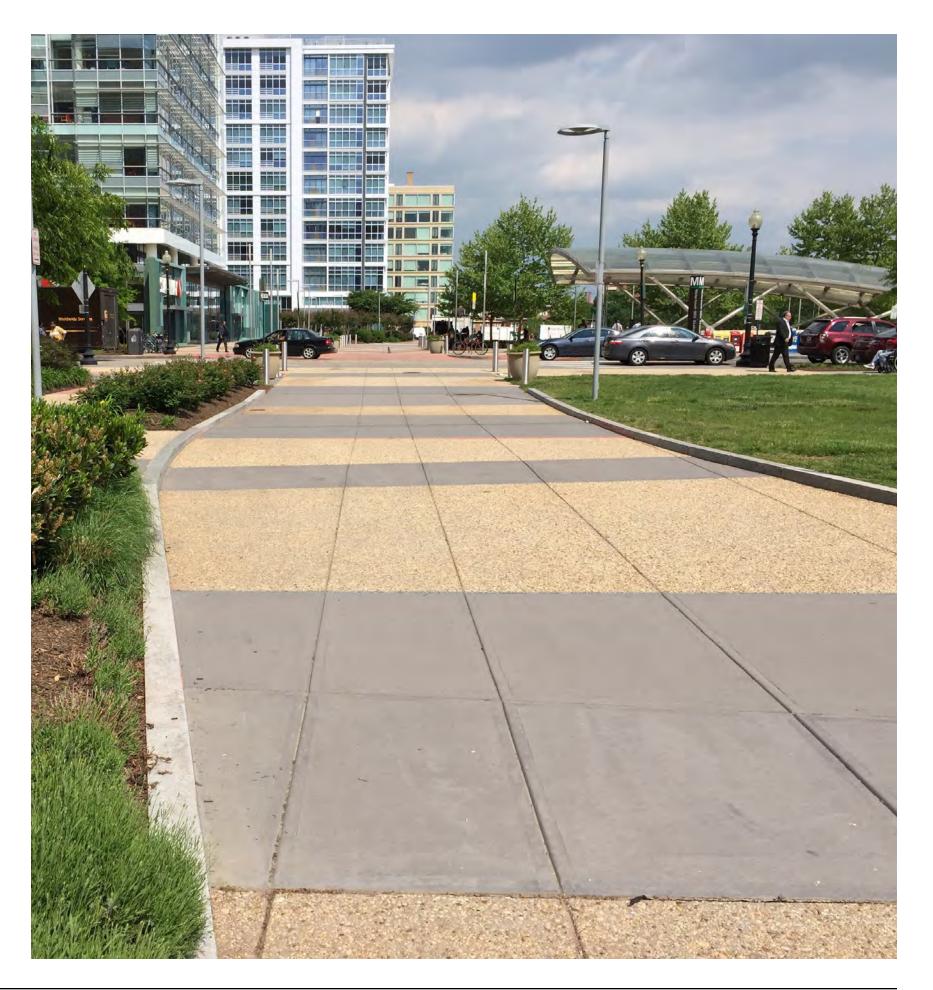




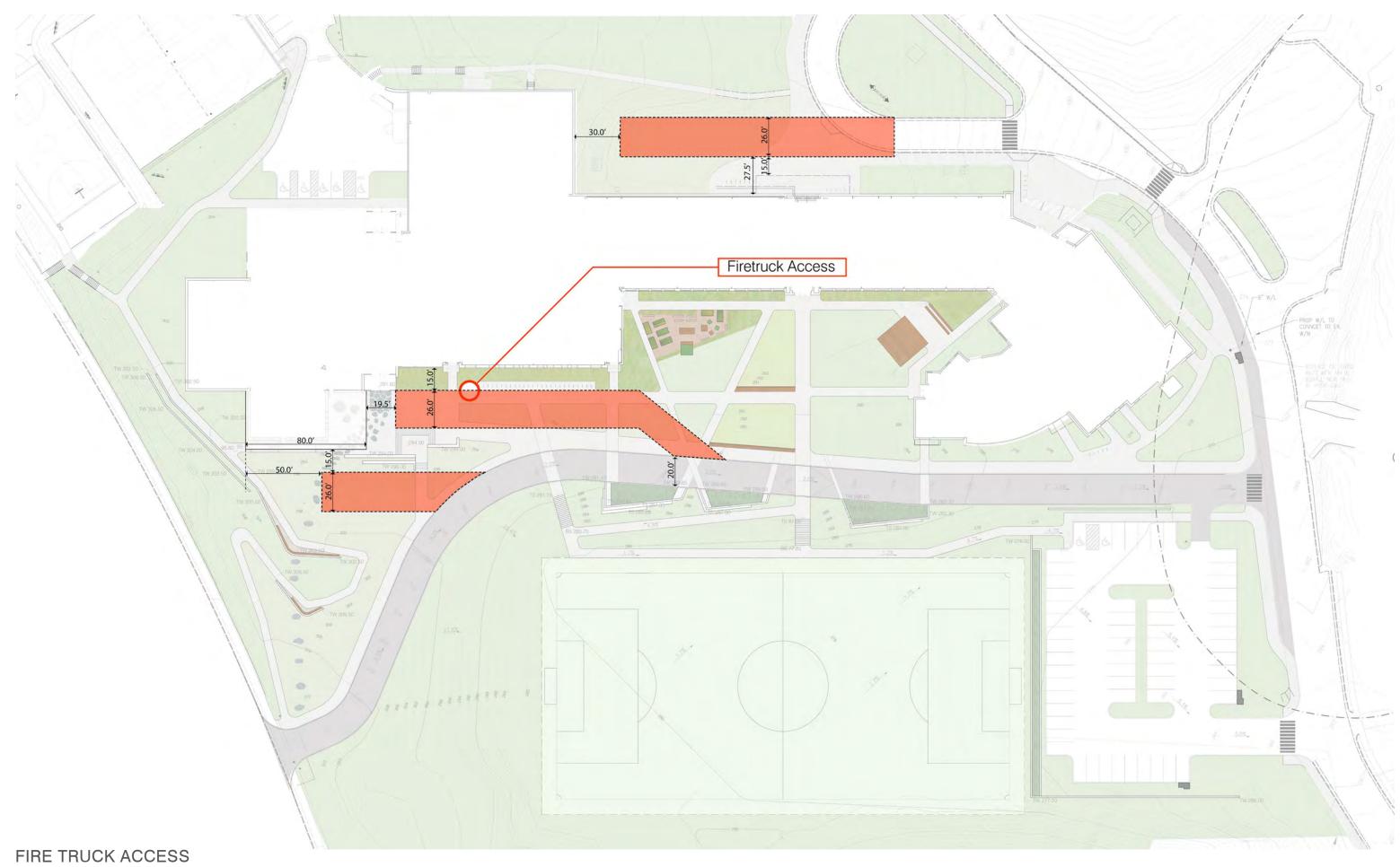








SPECIAL PAVING





OCULUS



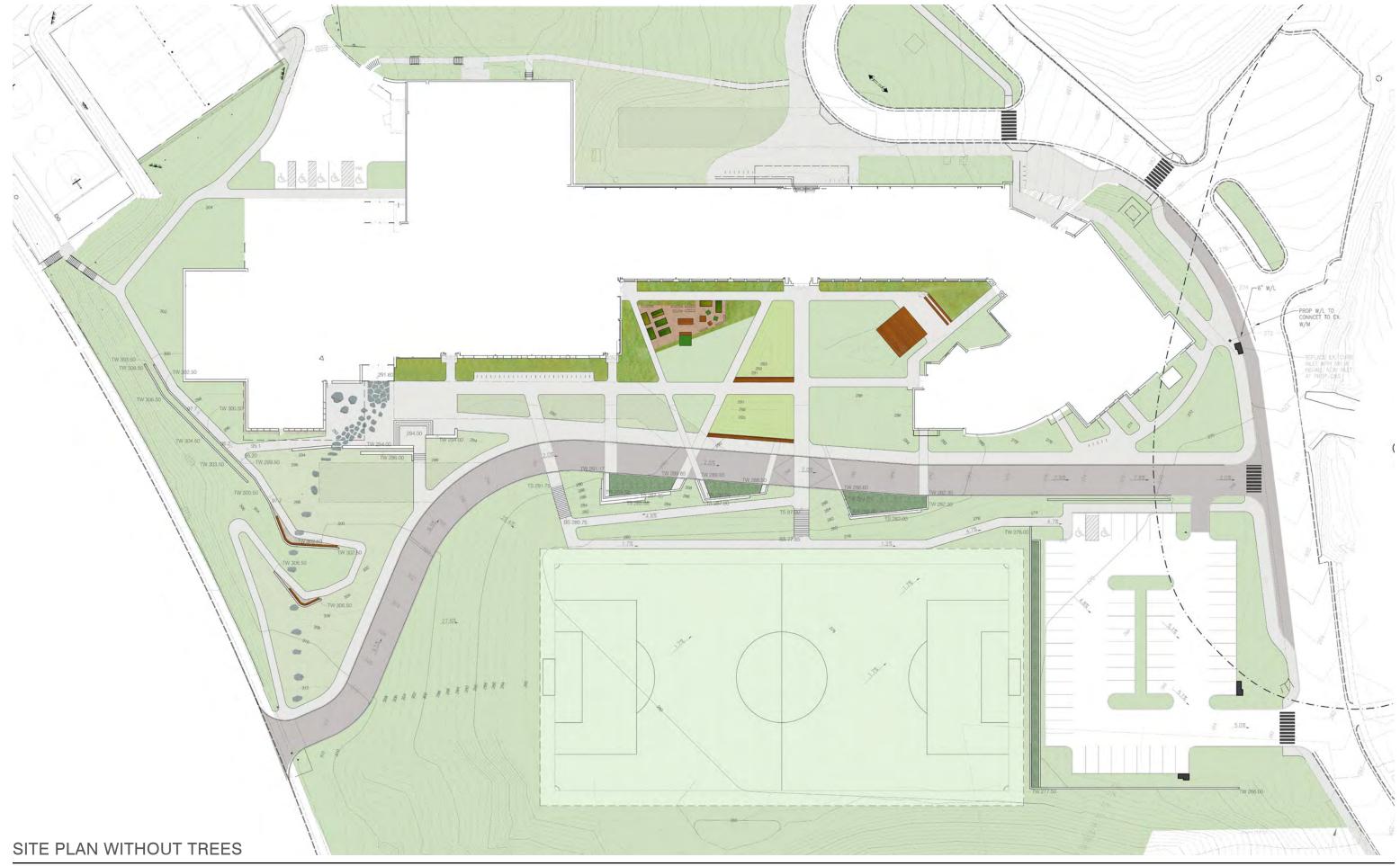
OCULUS





SITE PLAN WITH TREES

OCULUS



OCULUS

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