Ward 8 Senior

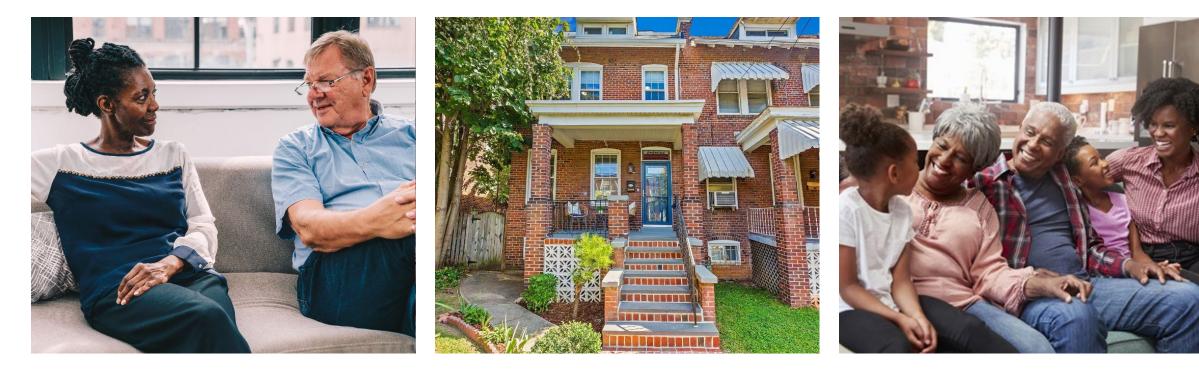
Wellness Center

SEPTEMBER 15, 2022 - CFA CONCEPT PRESENTATION #CFA-2613 PERKINS EASTMAN DC DESIGNING THE DISTRICT



DESIGN PRINCIPLES

DESIGN PRINCIPLES



SENIOR WELLNESS CENTER FOR ALL 8 WARDS

COMMUNITY CONTEXT

MULTIGENERATIONAL APPRAOCH

DESIGN PRINCIPLES

DESIGN PRINCIPLES

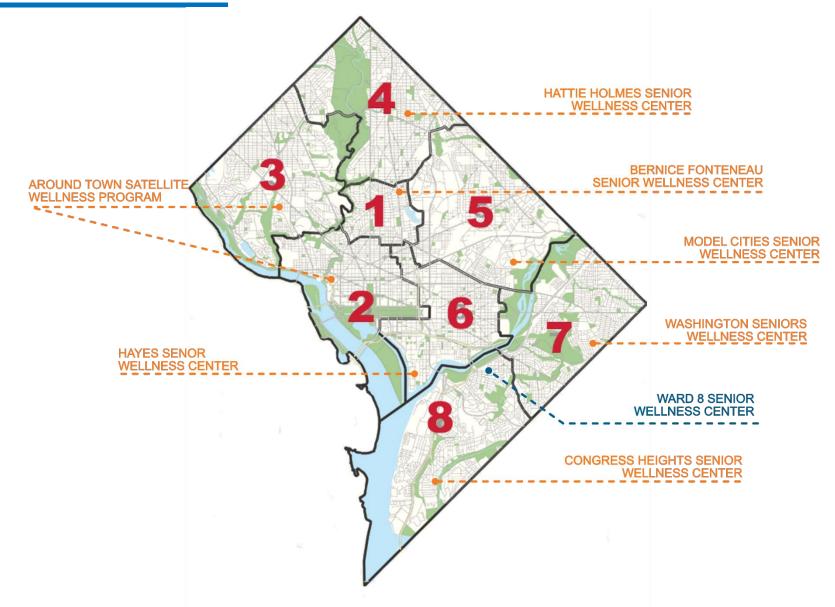


NUTRITION FOCUSED

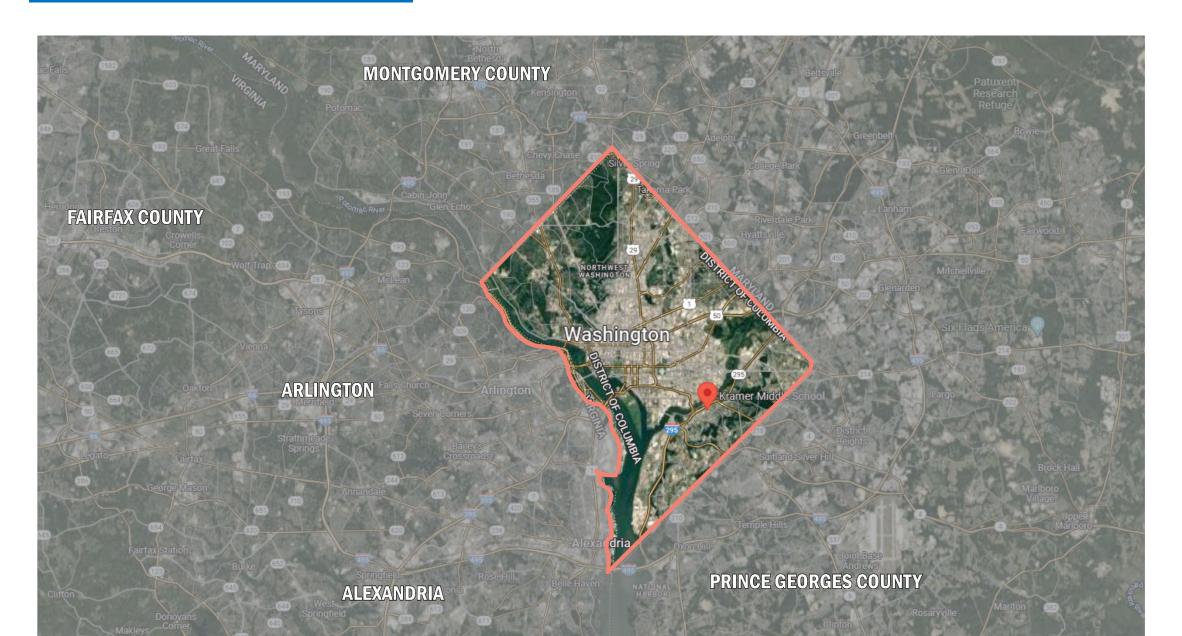
SEAMLESS INDOOR-OUTDOOR CONNECTION

PASSIVELY SUSTAINABLE

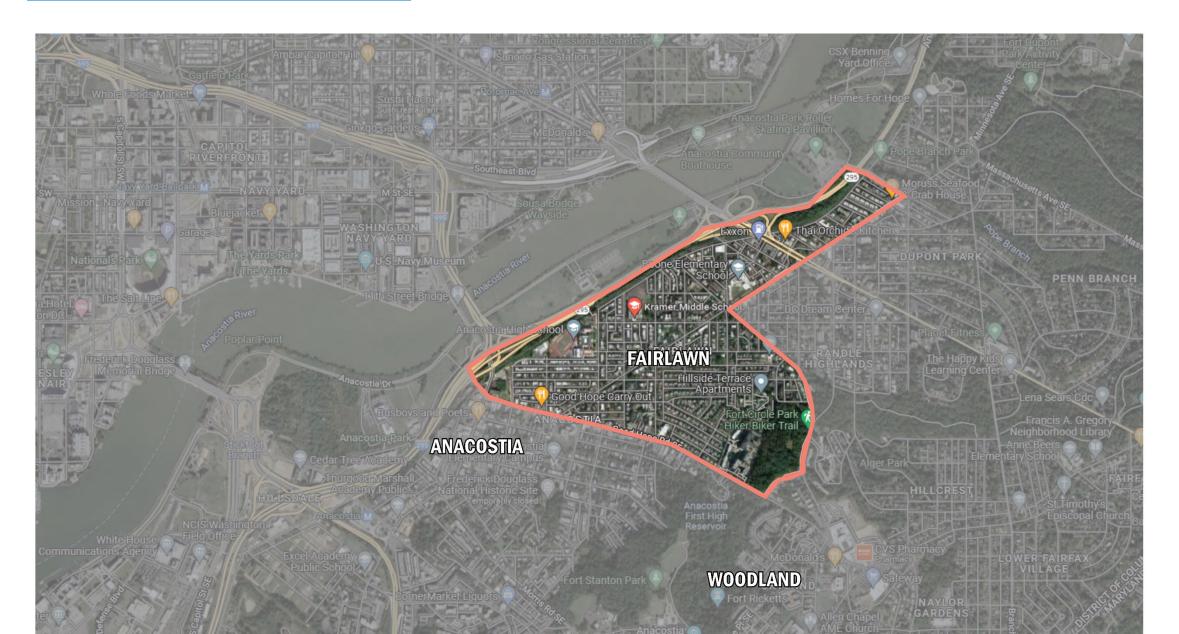
WASHINGTON, DC WELLNESS CENTERS



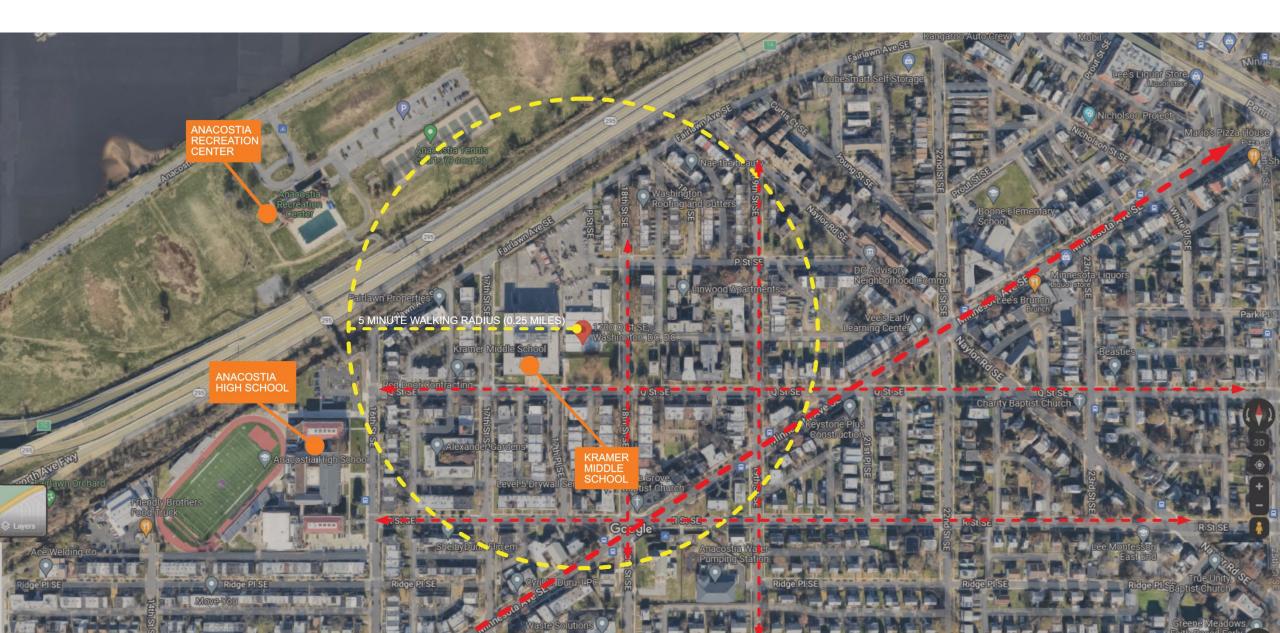
SITE – REGIONAL



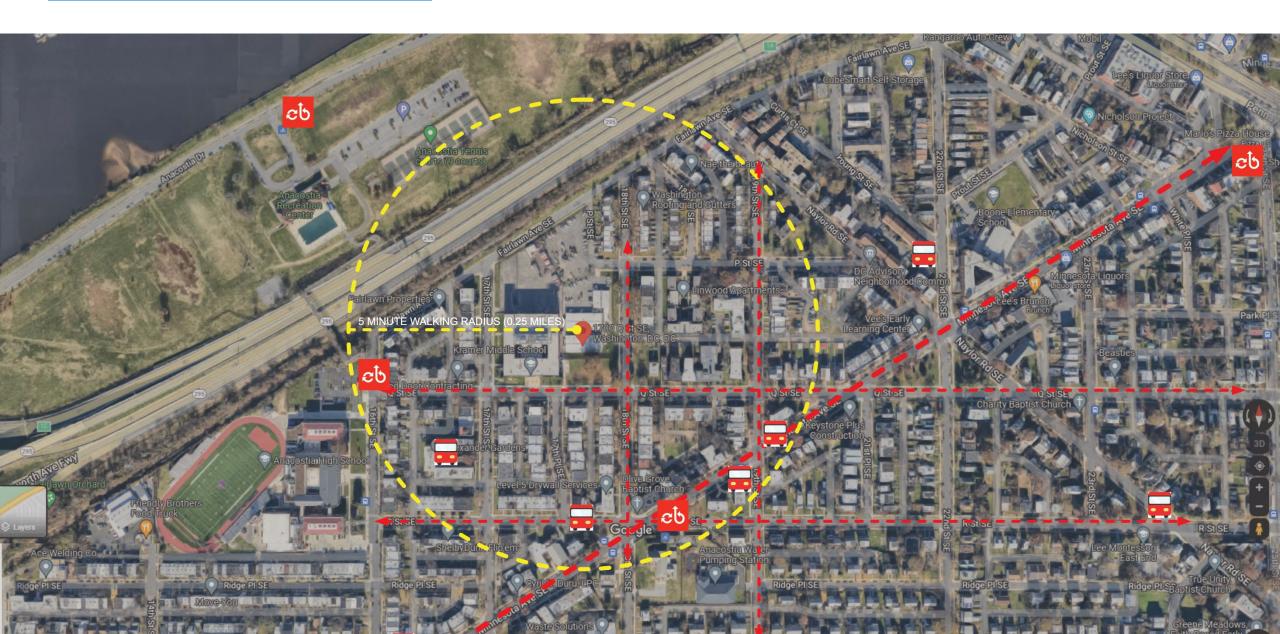
SITE – NEIGHBORHOOD



SITE – FAIRLAWN



SITE - TRANSPORTATION

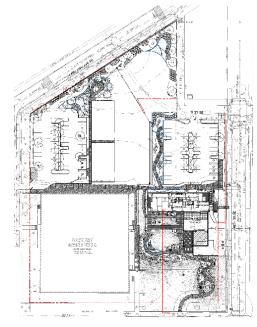


SITE – KEY ORGANIZATIONAL FEATURES



TOPOGRAPHY







PROPOSED

SITE ACCESS & ENTRIES



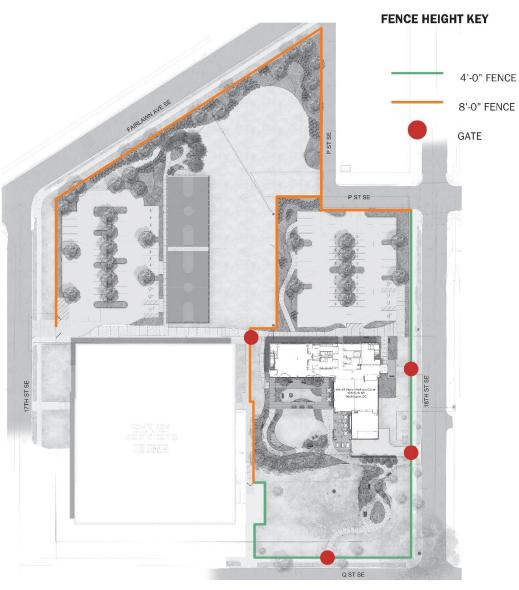
SITE PLAN – EXTENTS OF FENCING



Existing Low Fence to Remain



Existing High Fence to Remain



SITE SIGNAGE

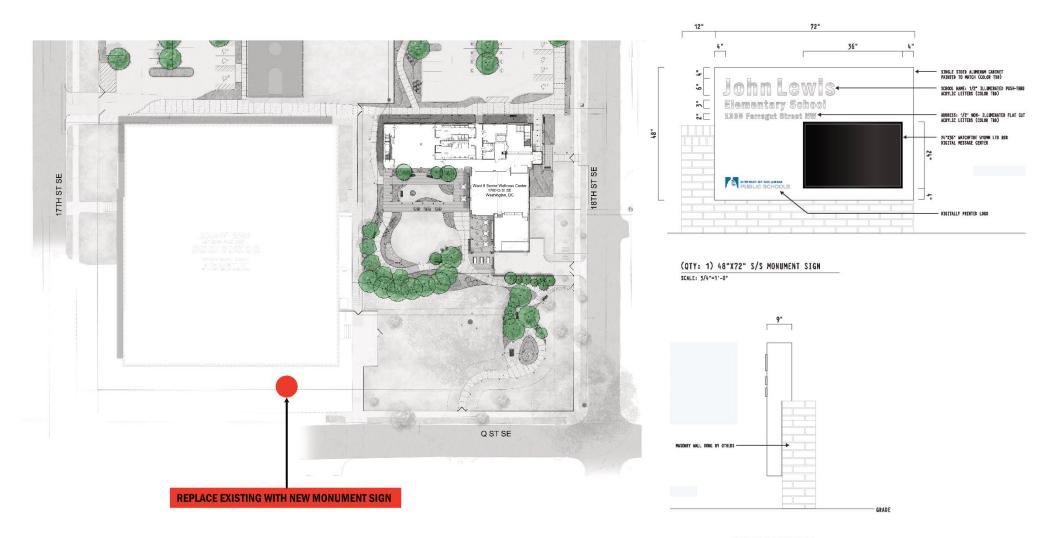
PRECEDENT IMAGE



SITE SIGNAGE

MONUMENT SIGN REPLACEMENT FOR KRAMER

MONUMENT SIGN PRECEDENT

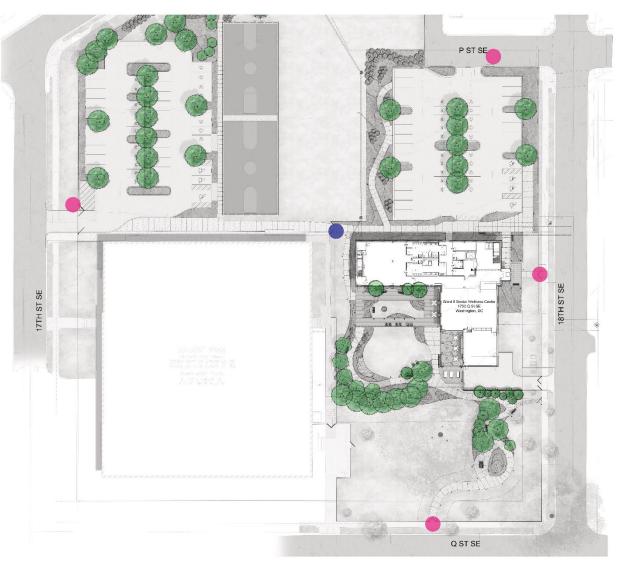


SIDE VIEW @ MONUMENT SCALE: 3/4"=1'-0"

PERKINS EASTMAN DC | SALVI CFA CONCEPT PRESENTATION

SITE SIGNAGE

GATE AND WAYFINDING



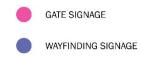
WAYFINDING SIGNAGE



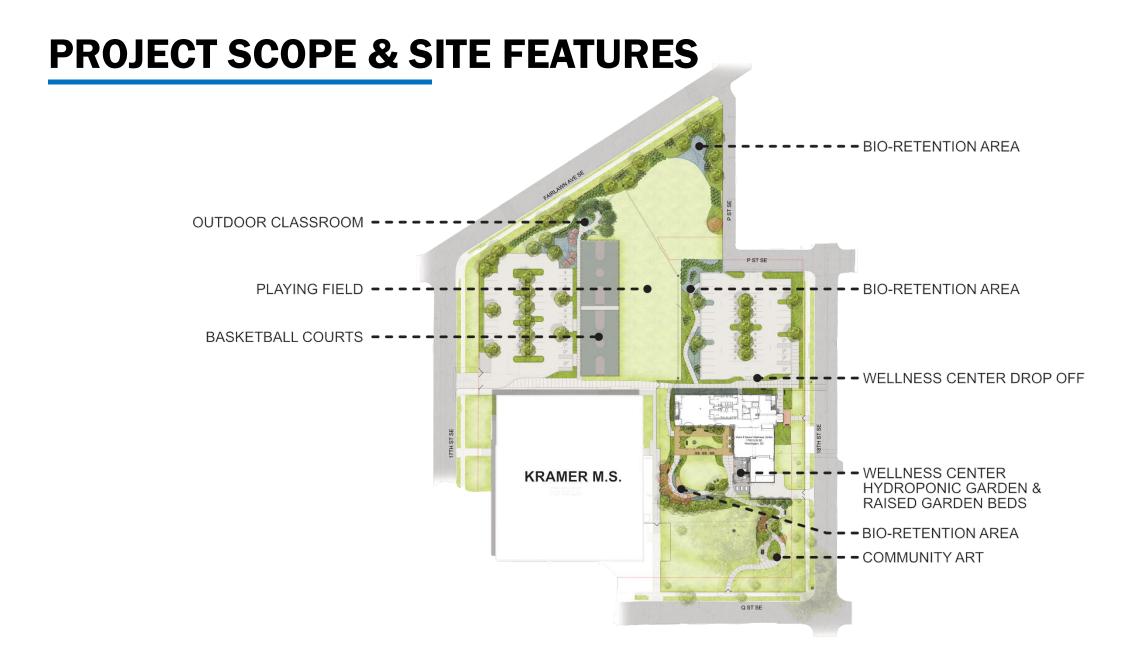
GATE SIGNAGE



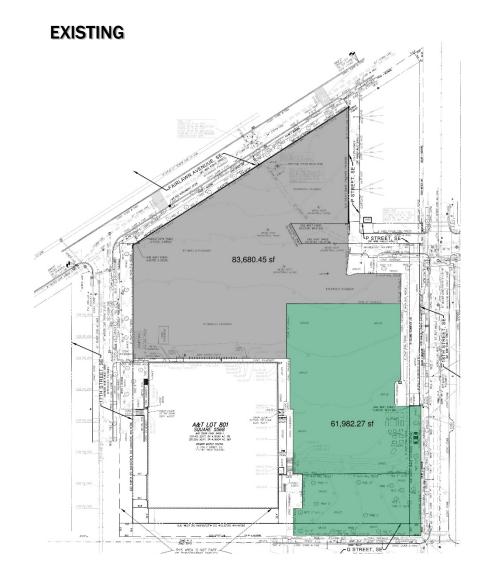
SIGNAGE KEY

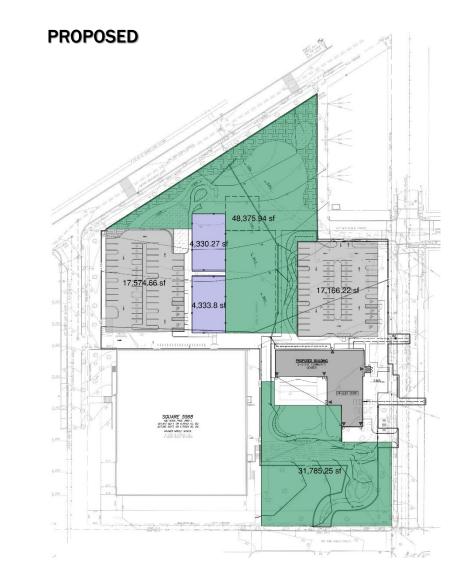


PERKINS EASTMAN DC | SALVI CFA CONCEPT PRESENTATION



SITE PLAN – PAVED VS UNPAVED





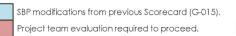
LEED SCORECARD



LEED v4 for BD+C New Construction

DGS Ward 8 Wellness Center

Design Development Review - July 8, 2022





Possible Points: 13

ossible Points: 16

ossible Points:

Possible Points:

ossible Points: 110

80

Platinum

Required Required

5

2

2

2

2

Required

Required 2

3

2

2

3

	Description description of the	/ F A Maladala and Bassana
1 0 0 Integrative Process Y 2 N	Possible Points: 1	6 5 2 Materials and Resources Possibl
1 Credit 1 Integrative Process	1	Y Prereg 1 Storage and Collection of Recyclables
Cledit i Integrative Hocess	,	Y Prereq 2 Construction and Demolition Waste Management Planning
11 0 5 Location and Transportation	Possible Points: 16	1 2 2 Credit 1 Building Life-Cycle Impact Reduction (v4.1)
		1 1 Credit 2 Product Disclosure & Optimization - EPDs (v4.1)
16 Credit 1 LEED for Neighborhood Development PATH 1	16	1 1 Credit 3 Product Disclosure & Optimization - Sourcing of Raw Materials (v4.1)
1 Credit 2 Sensitive Land Protection PATH 2	1	1 1 Credit 4 Product Disclosure & Optimization - Material Ingredients (v4.1)
1 Credit 3 High Priority Site	2	2 Credit 5 Construction and Demolition Waste Management (v4.1)
3 2 Credit 4 Surrounding Density & Diverse Uses (v4.1)	5	
4 1 Credit 5 Access to Quality Transit	5	9 6 1 Indoor Environmental Quality Possible
1 Credit 6 Bicycle Facilities (v4.1)	1	Y ? N
1 Credit 7 Reduced Parking Footprint (v4.1)	1	Y Prereg 1 Minimum Indoor Air Quality Performance
1 Credit 8 Electric Vehicles (v4.1)	1	Y Prereg 2 Environmental Tobacco Smoke Control (v4.1)
Credit of Electric Verticles (V4.1)		1 1 Credit 1 Enhanced Indoor Air Quality Strategies
6 1 3 Sustainable Sites	Possible Points: 10	2 1 Credit 2 Low-Emitting Materials (v4.1)
X S N	TOSSIBLE FORMS. TO	1 Credit 3 Construction Indoor Air Quality Management Plan
Y Prereg 1 Construction Activity Pollution Prevention	Required	2 Credit 4 Indoor Air Quality Assessment (v4.1)
1 Credit 1 Site Assessment	Required	1 Credit 5 Thermal Comfort
1 1 Credit 2 Site Development - Protect or Restore Habitat (v4.1)	2	1 1 Credit 6 Interior Lighting
1 Credit 3 Open Space	2	2 1 Credit 7 Daylight (v4.1)
3 Credit 4 Rainwater Management (v4.1)	3	1 Credit 8 Quality Views
2 Credit 5 Heat Island Reduction	2	1 Credit 9 Acoustic Performance (v4.1)
1 Credit 6 Light Pollution Reduction	1	
		6 0 O Innovation Possible
6 1 4 Water Efficiency	Possible Points: 11	Y Ş N
Y ? N		1 Credit 1.1 Exemplary Performance: BPDO: EPDs
Y Prereq 1 Outdoor Water Use Reduction	Required	Credit 1.2 Innovation Credit: Green Education
Y Prereq 2 Indoor Water Use Reduction	Required	Credit 1.3 Innovation Credit: Low-Mercury Lamps
Y Prereq 3 Building-Level Water Metering	Required	Credit 1.4 Pilot Credit: Social Equity / Passive Survivability / Local Food Production
2 Credit 1 Outdoor Water Use Reduction	2	Credit 1.5 Pilot Credit: Integrative Analysis of Building Materials
3 1 2 Credit 2 Indoor Water Use Reduction	6	1 Credit 2 LEED Accredited Professional
2 Credit 3 Cooling Tower Water Use (v4.1)	2	and the second state and the second state of t
1 Credit 4 Water Metering	1	3 1 0 Regional Priority Credits Possible
		Y & N
14 10 9 Energy and Almosphere Y 2 N	Possible Points: 33	Credit 1 Regional Priority: Access to Quality Transit (Threshold: 4 pts) Credit 2 Regional Priority: Green Vehicles (Threshold: 1 pt)
Y Prereg 1 Fundamental Commissioning and Verification	Required	Credit 2 Regional Priority: Rainwater Management (Threshold: 3 pts)
Y Prereq 2 Minimum Energy Performance	Required	1 Credit 4 Regional Priority: Optimize Energy Performance (Threshold: 10 pts)
Y Prereq 3 Building-Level Energy Metering	Required	
Y Prereg 4 Fundamental Refrigerant Management	Required	62 24 24 Possible
3 3 Credit 1 Enhanced Commissioning	6	1033.04
8 7 3 Credit 2 Optimize Energy Performance	18	
1 Credit 3 Advanced Energy Metering	1	24
1 Credit 4 Demand Response (v4.1)	0	60 62
	2	
4 1 Credit 5 Renewable Energy (v4.1)	2 5	40 50 62

Certified

Silver

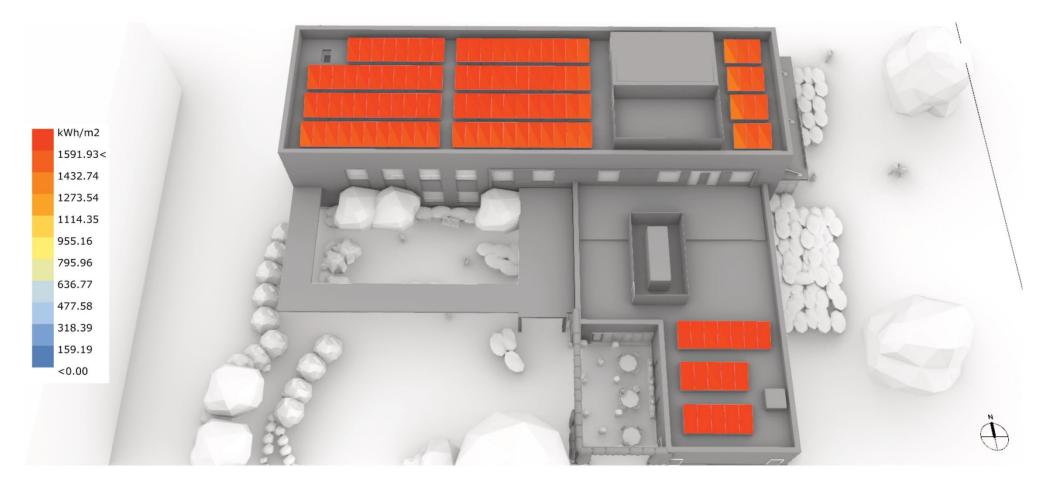
Gold

Ward 8 SWC

1

1 Credit 6 Enhanced Refrigerant Management

SOLAR ENERGY GENERATION ANALYSIS



- TOTAL SOLAR RADIATION ON SOLAR PANELS: 392,398 KWH
- AC ENERGY GENERATION: 75,400 KWH

SOLAR ORIENTATION



SUMMER

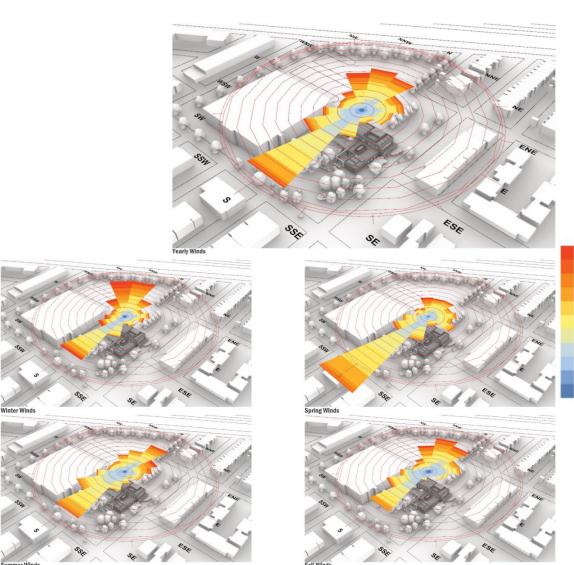
Perkins Eastman DC & Salvi Associates LLC

WIND PATTERN

In the Washington, DC region, prevailing winds shift by season.

Cold winter winds tend to come from the northwest with relatively high velocity, making outdoor areas that face north relatively inhospitable.

During the rest of the year, winds come from the south primarily, especially in the summer months. These breezes are more welcome for ventilation to extend comfort.

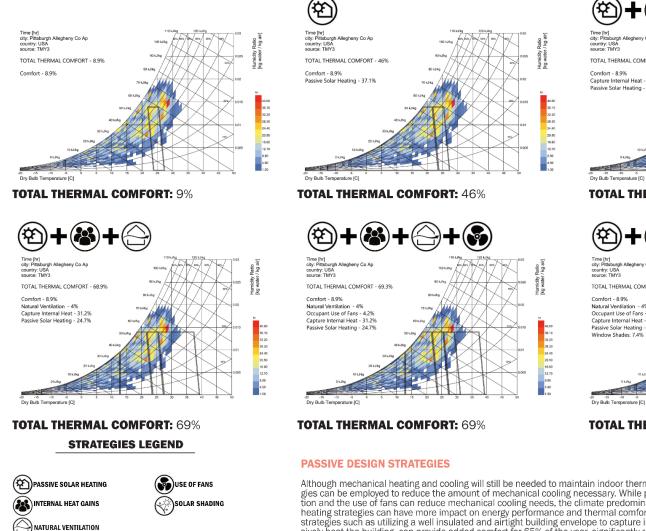


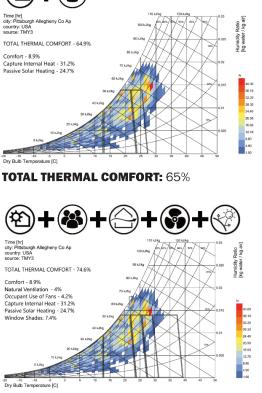
20.00< 18.00 16.00 14.00 12.00 10.00 8.00 6.00 4.00 2.00

< 0.00

mph

PASSIVE DESIGN

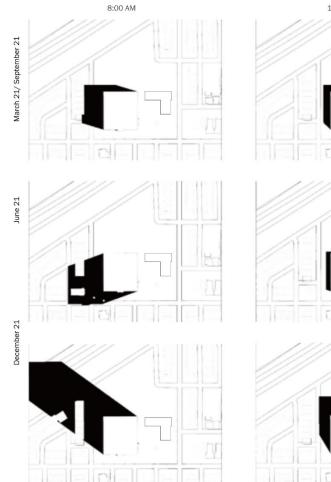




TOTAL THERMAL COMFORT: 75%

Although mechanical heating and cooling will still be needed to maintain indoor thermal comfort in this climate, passive design strategies can be employed to reduce the amount of mechanical cooling necessary. While passive cooling strategies such as natural ventila-tion and the use of fans can reduce mechanical cooling needs, the climate predominantly requires heating, so focusing on passive heating strategies can have more impact on energy performance and thermal comfort. With the current climate, passive heating strategies such as utilizing a well insulated and airtight building envelope to capture internal heat gains and utilizing the sun to passively heat the building, can provide added comfort for 65% of the year, significantly reducing the need for mechanical heating.

SHADOWS CREATED BY KRAMER MS



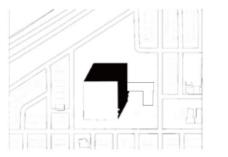


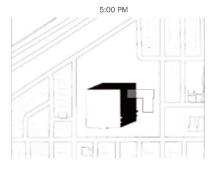




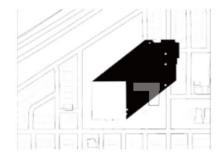










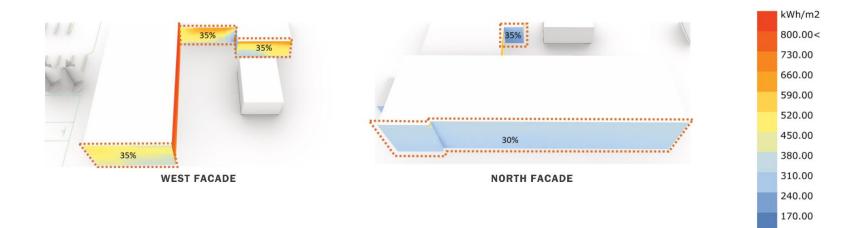


WINDOW/ WALL RATIO



SOUTH FACADE

EAST FACADE



<100.00

SUSTAINABLE ANALYSIS

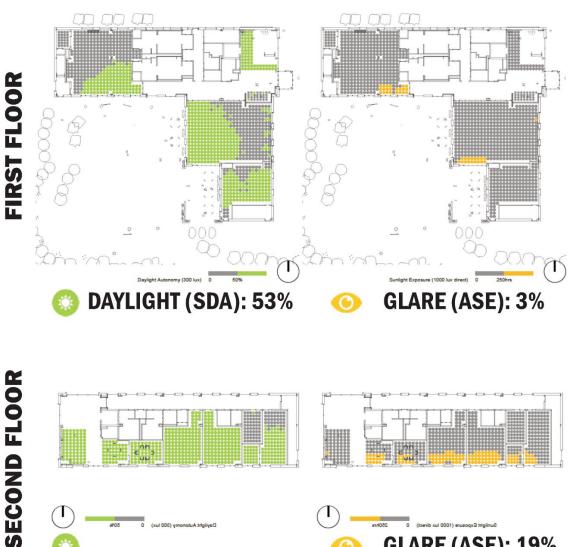
DAYLIGHT AND GLARE ANALYSIS

The daylight study indicates that there is 19% glare in the second floor flex rooms and administrative spaces. The maximum percentage of glare recommended for comfort is 10%. The design team will be exploring solutions to reduce the glare including exterior shading devices and alternative glass.

TOTAL RESULTS DAYLIGHT (SDA): 65%

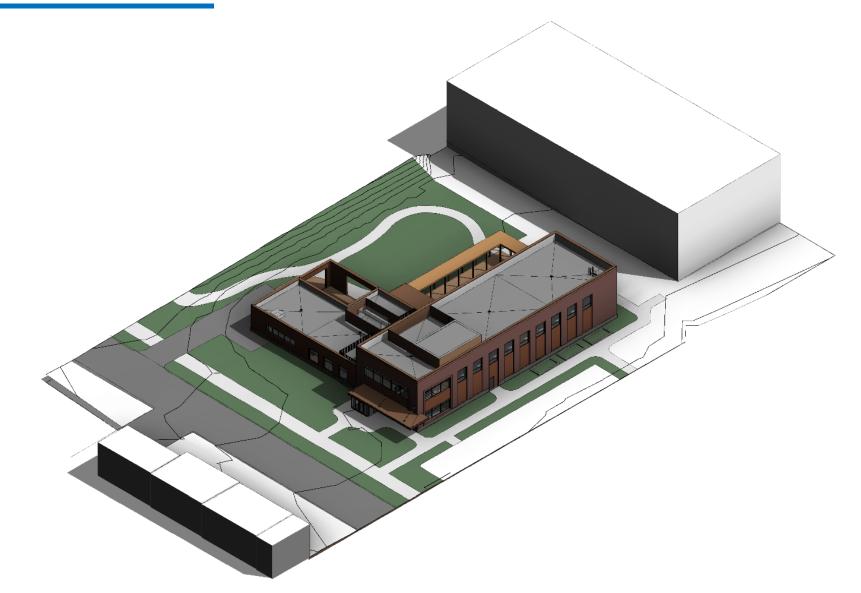
IDEAL: >55%





Daylight Autonomy (300 lux)

BUILDING MASSING

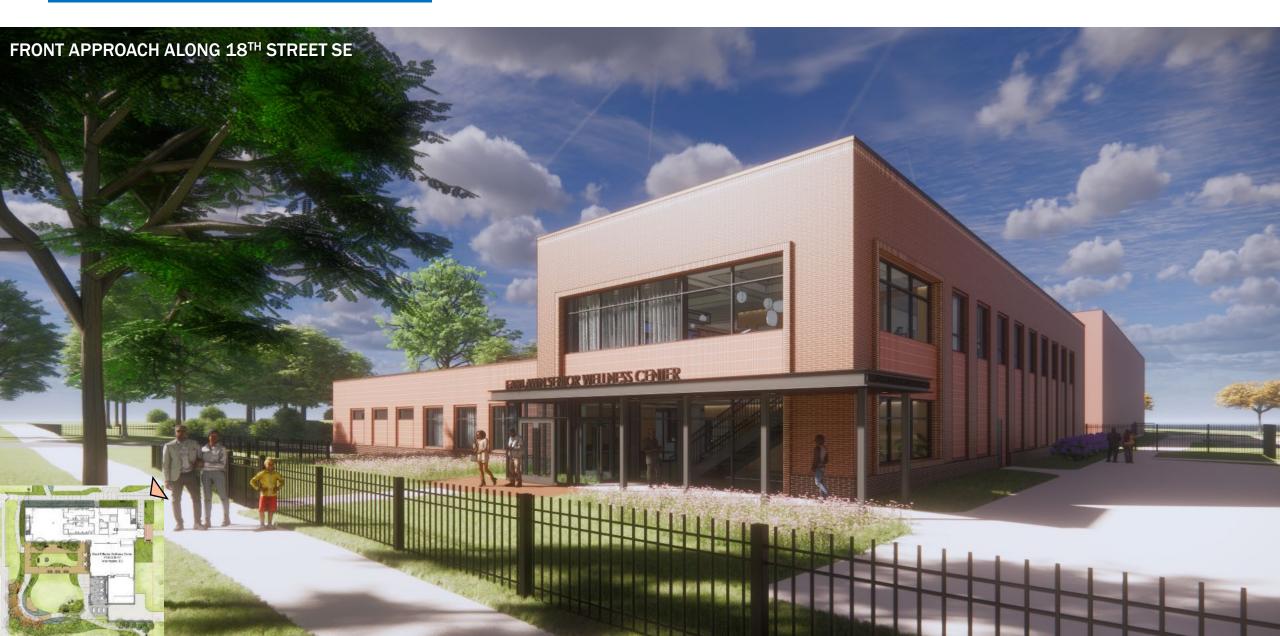


NEIGHBORHOOD FACADES, SCALE, & MATERIALITY

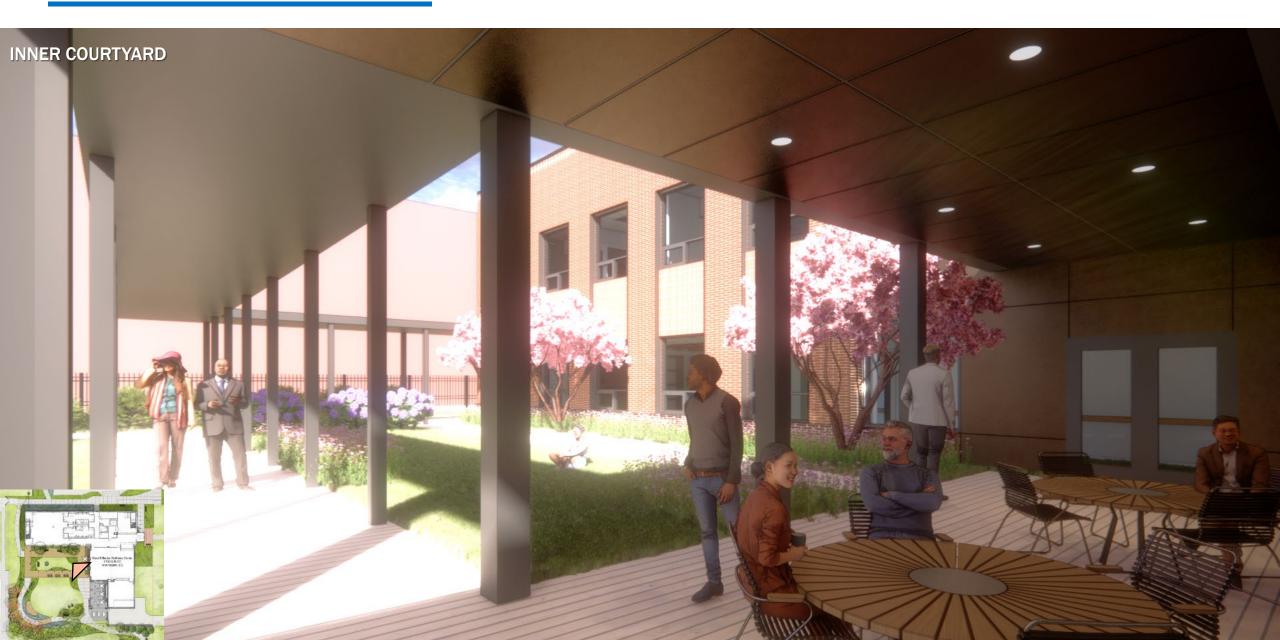
RESPECT ADJACENT URBAN FABRIC



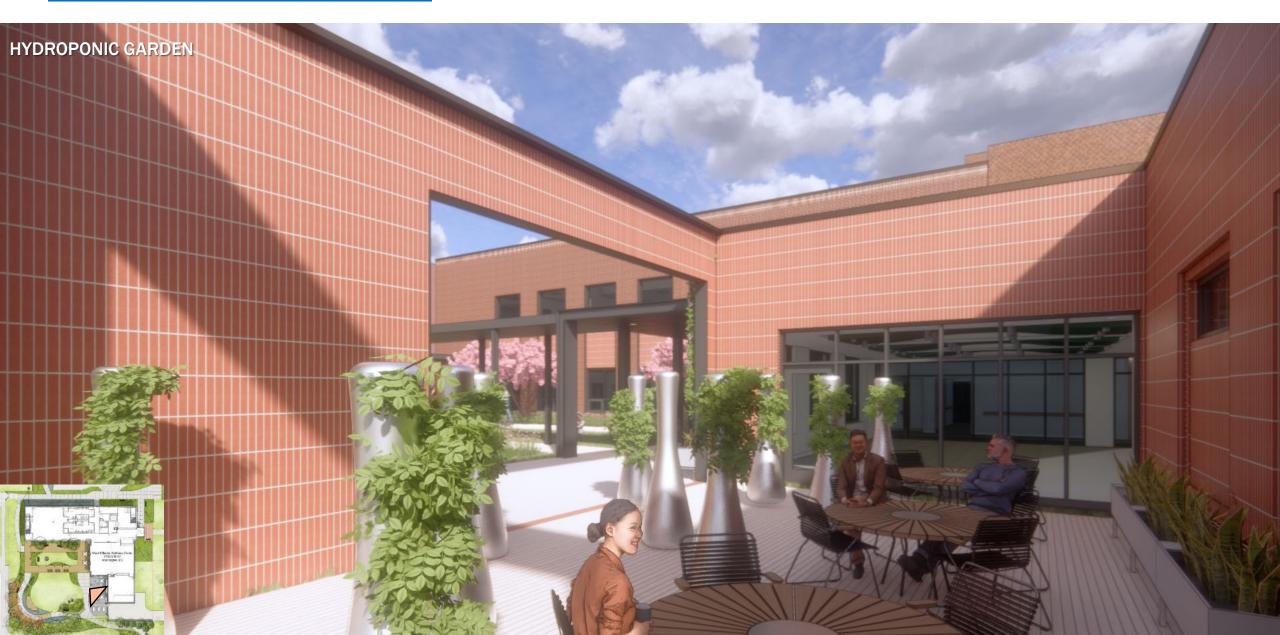


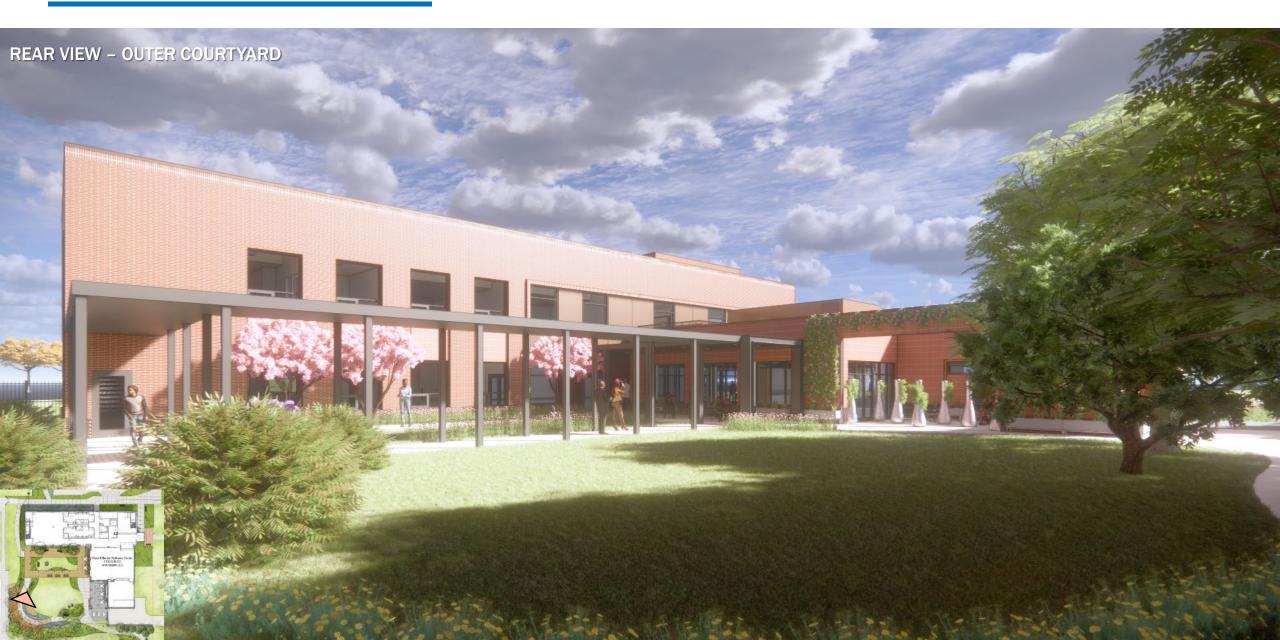




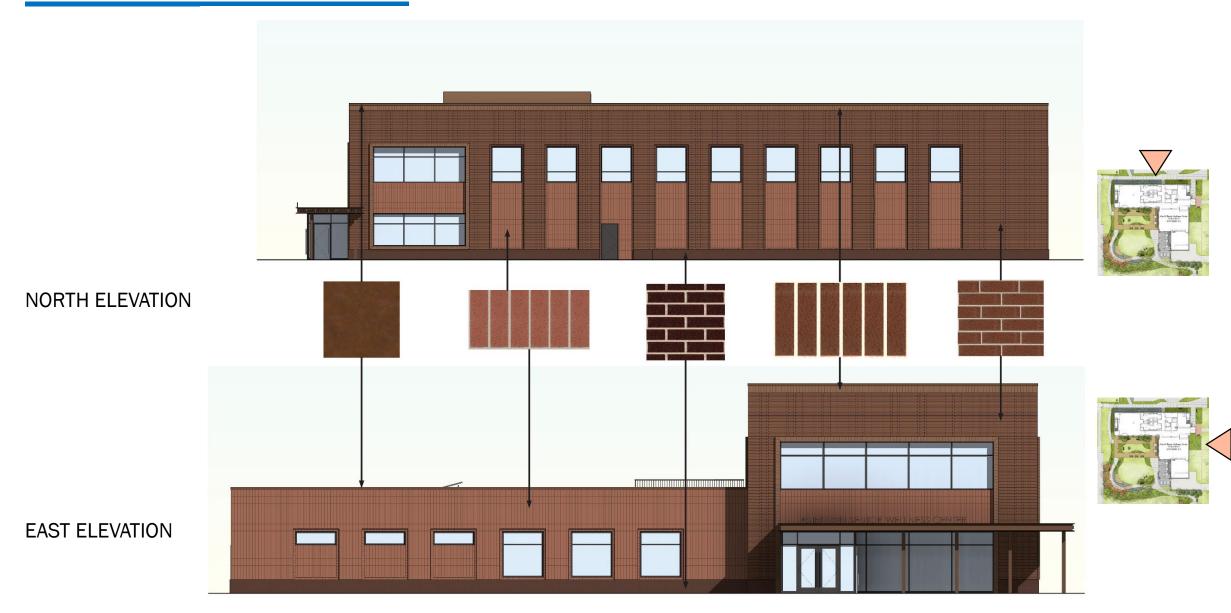








BUILDING ELEVATIONS



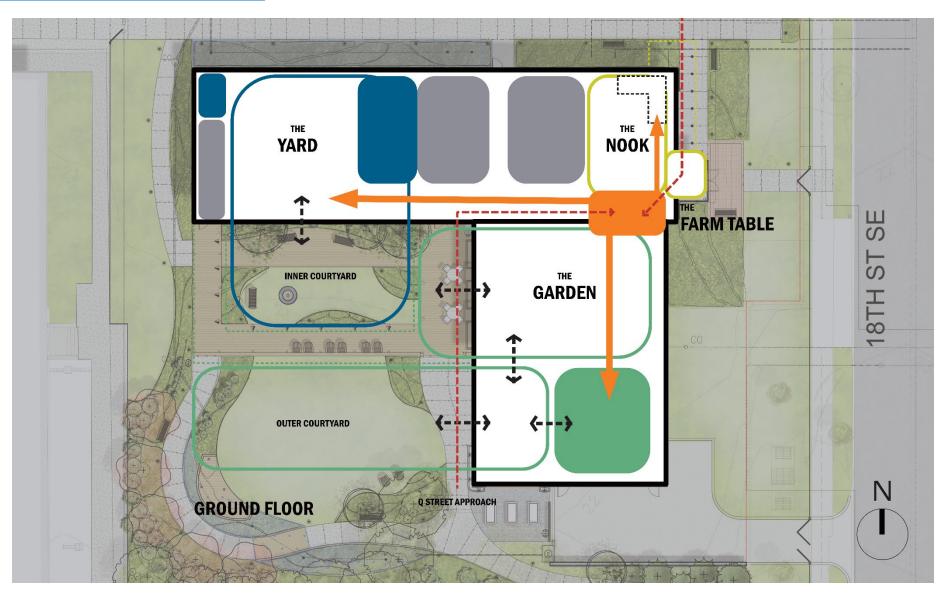
BUILDING ELEVATIONS



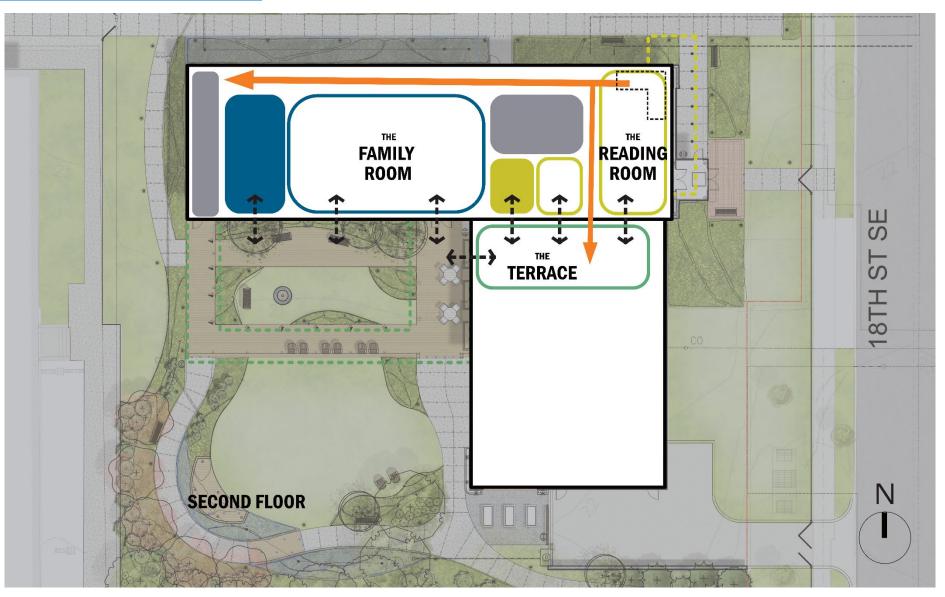
WEST ELEVATION

SOUTH ELEVATION

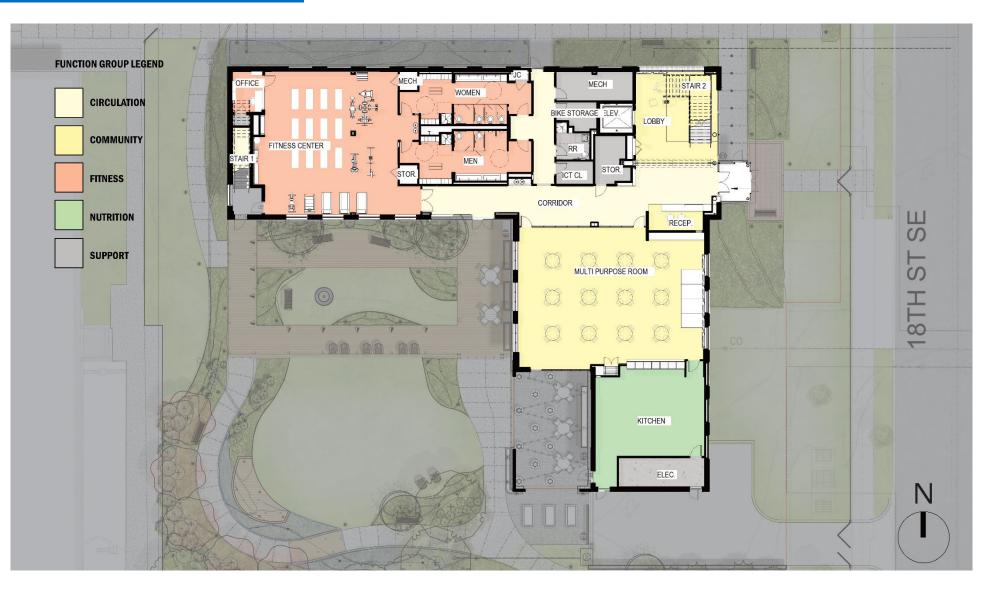
CONNECTED PLACES



CONNECTED PLACES



1ST FLOOR PLAN



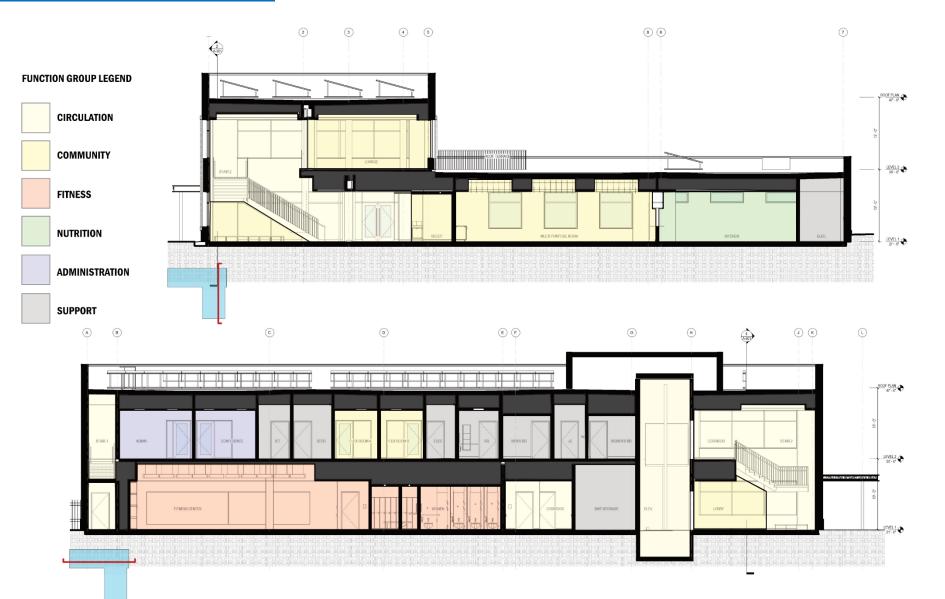
2ND FLOOR PLAN



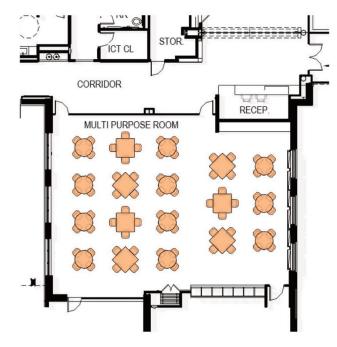
ROOF FLOOR PLAN

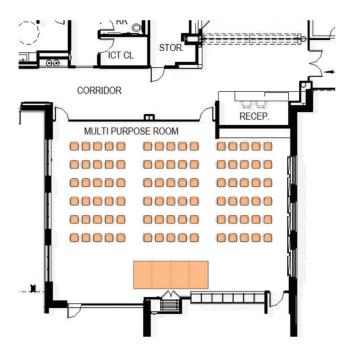


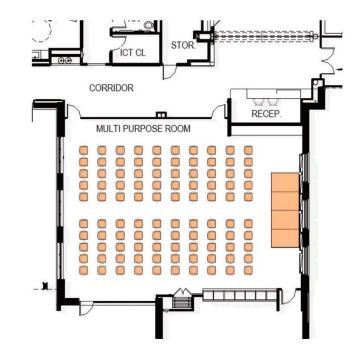
BUILDING SECTION



MULTIPURPOSE PROGRAM





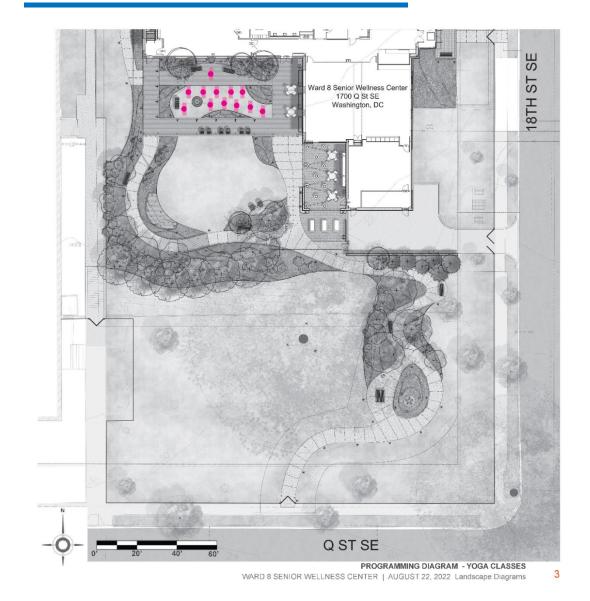


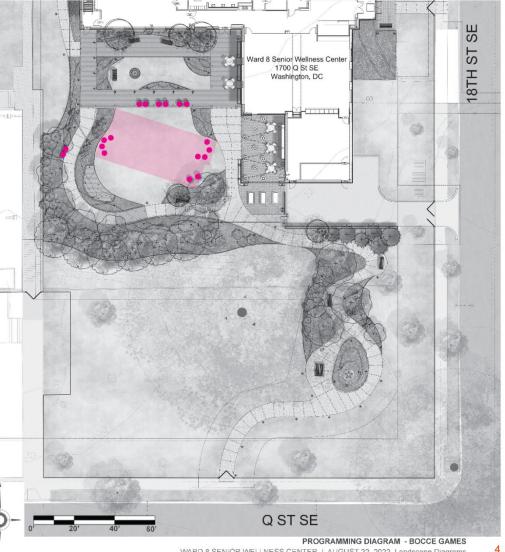
PRIMARY DINING: SEATS 72 PEOPLE

PERFORMANCE E/W: SEATS 90 PEOPLE

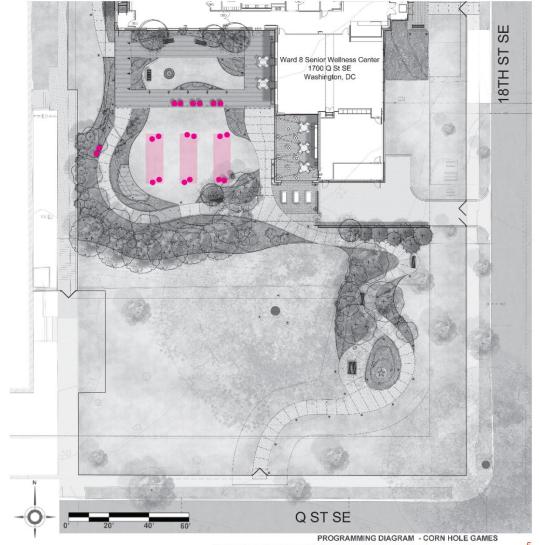
PERFORMANCE N/S: SEATS 100 PEOPLE

LANDSCAPE PLAN - PROGRAM

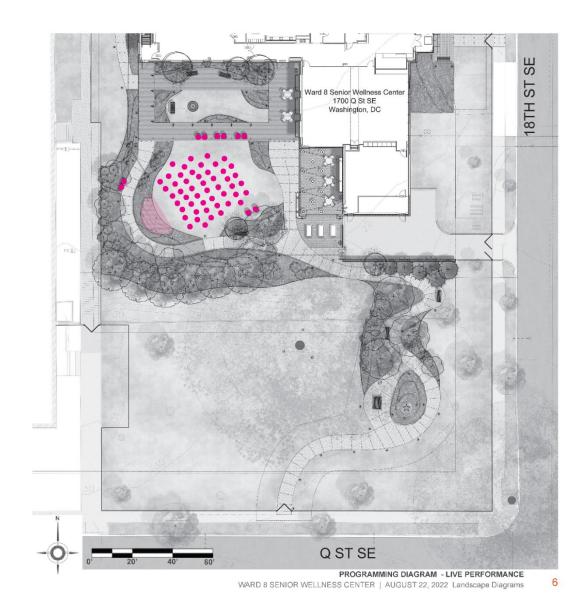




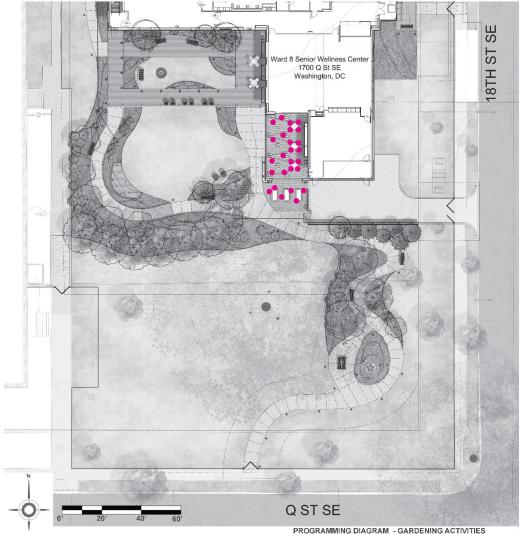
LANDSCAPE PLAN - PROGRAM



WARD 8 SENIOR WELLNESS CENTER | AUGUST 22, 2022 Landscape Diagrams 5



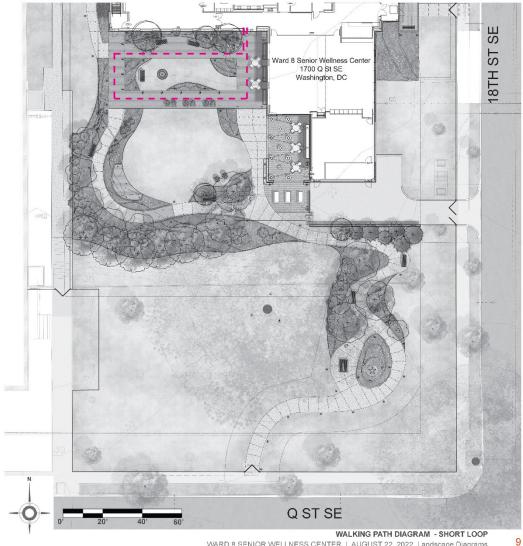
LANDSCAPE PLAN - PROGRAM



WARD 8 SENIOR WELLNESS CENTER | AUGUST 22, 2022 Landscape Diagrams



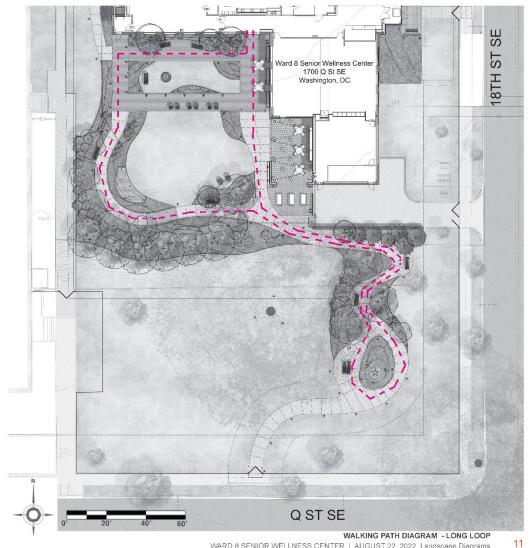
LANDSCAPE PLAN – PROGRAM



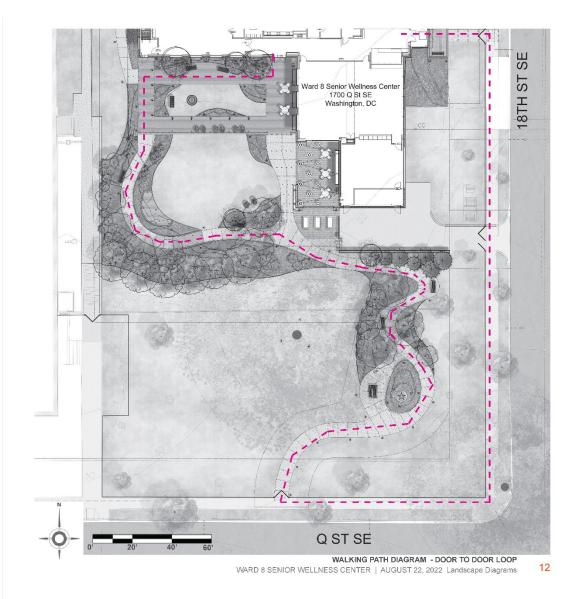
WARD 8 SENIOR WELLNESS CENTER | AUGUST 22, 2022 Landscape Diagrams



LANDSCAPE PLAN – PROGRAM



WARD 8 SENIOR WELLNESS CENTER | AUGUST 22, 2022 Landscape Diagrams



PERKINS EASTMAN DC DESIGNING THE DISTRICT