

LEED Matrix

Certified 40-49 Silver 50-59 Gold 60-79 Platinum 80 +

Yes	?	No	Sustainable Sites		26 Points	Strategy/Comment
10	0	0				
Y			SS Prereq 1	Construction Activity Pollution Prevention	Required	Erosion & sedimentation control practices will be provided during construction for disturbed site areas
Y			SS Prereq 2	Environmental Site Assessment	Required	Environmental Assessment has been done
1			SS Credit 1	Site Selection	1	This is an existing site, therefore selection has no additional impact
			SS Credit 2	*** Development Density & Community Connectivity	5	The site does not meet Urban Density requirements
			SS Credit 3	Brownfield Redevelopment	1	Site is not a brownfield or environmentally damaged site
			SS Credit 4.1 (72703)	*** Alternative Transportation, Public Transportation Access	6	A mass transit system does not service VHSO regularly
1			SS Credit 4.2	*** Alternative Transportation, Bicycle Storage & Changing Rooms	1	Bike rack & shower & changing room provided
3			SS Credit 4.3	*** Alternative Transportation, Low-Emitting & Fuel-Efficient Vehicles	3	5% of parking will be identified as Low-E & Fuel Efficient
2			Credit 4.4	*** Alternative Transportation, Parking Capacity	2	Parking on present site is being reduced
1			Credit 5.1	*** Site Development, Protect or Restore Habitat	1	Since construction will have little impact to existing habitat and existing trees may protected it is believed this credit may be achieved to protect 50% of undisturbed area
			Credit 5.2	*** Site Development, Maximize Open Space	1	Believe this credit may be possible if open space is equal to building area. Further confirmation required.
			SS Credit 6.1 (72703)	*** Stormwater Design, Quantity Control	1	No detention planned, infiltration needed to get point or 25% of impervious surfacing removed
			SS Credit 6.2	*** Stormwater Design, Quality Control	1	At present not sure that storm water quality control is required since it is an existing site and none is planned
			SS Credit 7.1	*** Heat Island Effect, Non-Roof	1	No open celled parking provided, not enough trees planned
1			SS Credit 7.2	*** Heat Island Effect, Roof	1	Color of Roof meets SRI Rating
1			SS Credit 8	Light Pollution Reduction	1	The lighting design for the building and site will conform to the local and LEED light pollution requirements.

Yes	?	No	Water Efficiency		10 Points	
5	0	0				
Y			WE Prereq 1	Water Use Reduction, 20% Reduction	Required	The design team is researching the availability of low flow fixtures that meet the VA specified requirements for the fixtures to be used in this facility. It is believed at this time that 20% reduction is possible.
2			WE Credit 1	Water Efficient Landscaping	2 to 4	The design will provide for a 50% reduction in potable water for landscaping by use of drip irrigation for shrubs and trees as well as temporary irrigation for sodded areas
				2		
				0		
				No Potable Use or Irrigation	4	
			WE Credit 2	*** Innovative Wastewater Technologies	2	Reducing potable water use for the building sewage conveyance by 50% by using composting toilets or waterless urinals or treating the waste water to tertiary standards is not practical for this facility.
3			WE Credit 3	*** Water Use Reduction	2 to 4	The design team is using low flow fixtures that meet the VA specified requirements for the fixtures to be used in this facility. 3
				30% Reduction	2	
				35% Reduction	3	Design provides a 37% reduction
				40% Reduction	4	
			WEc3 40%(72703)	3		

Via			No			Energy & Atmosphere			35 Points / Strategy			
11	2	0										
Y			EA Prereq 1	Fundamental Commissioning of the Building Energy Systems								
			EA Prereq 2	Minimum Energy Performance								
Y			EA Prereq 3	Fundamental Refrigerant Management								
<small>*Note for EAc1: All LEED for New Construction projects registered after June 26th, 2007 are required to achieve at least two (2) points under EAc1.</small>												
6			EA Credit 1	*** Optimize Energy Performance								
						8% Existing Buildings						
						10% Existing Buildings						
						12% Existing Buildings						
						14% Existing Buildings						
						16% Existing Buildings						
						18% Existing Buildings						

	2		EA Credit 3
2			EA Credit 4
3			EA Credit 5
			EA Credit 6

- *** Enhanced Commissioning
- Enhanced Refrigerant Management
- Measurement & Verification
- *** Green Power

- The services of a commissioning agent will be required to be specified for the project. Additional expense and involvement by a commissioning agent would be required to obtain these points.
- The proposed air-cooled chiller will contain refrigerants; however, these points may be obtainable if the specified equipment meets the outlined criteria.
- Utility metering will be provided on the electrical panel to monitor the individual building systems as required to meet the LEED point.
- Green power has not been considered for this project due to the cost implications. This point could be obtained if the Owner decided the additional expense is justified.

Yes	?	No
8	1	0

Materials & Resources

14 Points

Synergy / Strategy

Y			MR Prereq 1
1			MR Credit 1.1

MR Prereq 1

Storage & Collection of Recyclables

- *** Building Reuse, Maintain Existing Walls, Floors & Roof

1	55% Building Reuse
1	75% Building Reuse
	95% Building Reuse

			MR Credit 1.2
2			MR Credit 2

MR Credit 1.2

- *** Building Reuse, Maintain Interior Non-Structural Elements

- *** Construction Waste Management

1	50% Recycled or Salvaged
1	75% Recycled or Salvaged

2			MR Credit 3
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MR Credit 3

- *** Materials Reuse

1	5% Reused Materials
	10% Reused Materials

1	1		MR Credit 4
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MR Credit 4

- *** Recycled Content

1	10% Recycled Content
	20% Recycled Content

1			MR Credit 5
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MR Credit 5

- *** Regional Materials

1	10% Regional Materials
	20% Regional Materials

		0	MR Credit 6
1		0	MR Credit 7

MR Credit 6

- *** Rapidly Renewable Materials

- *** Certified Wood

Required

The VHSO Fayetteville currently has a recycling program for it's facility mandated by the Medical Center Memorandum for Waste Recycling, Number 06-00-45, dated May 18, 2006

1 to 3

1 Approximately two thirds of the existing building envelope will be maintained as well as the existing slab for the remaining third

2

3

1

Not achievable as the majority of existing interior non-structural elements are be removed

1 to 2

1 This project includes goals for the Contractor to divert construction demolition materials from land fills and incinerators, and all material that can be recycled locally will be done

2

Are recycling or using material for fill

1 to 2

1 Since the brick from a third of the building will be removed as part of demolition may be used for fill as allowed by Geotech. Eng.

2

Sinc the concrete from a third of building will be removed as part of demolition may be used for fill as allowed by Geotech. Eng.

1 to 2

1 Products with recycled content will be specified where appropriate

2

Further verification of percentages may reflect higher percentage of recycled content

1 to 2

1 Products extracted and Manufactured within 500 mile radius of the project will be specified when feasible

2

1

This increased level of performance is not planned but is possible if additional LEED credits are preferred

1

Certified wood products will be specified

Yes	No
14	0

Indoor Environmental Quality

15 Points

Y		IEQ Prereq 1	Minimum IAQ Performance
Y		IEQ Prereq 2	Environmental Tobacco Smoke (ETS) Control
1		IEQ Credit 1	Outdoor Air Delivery Monitoring
	0	IEQ Credit 2	Increased Ventilation
1		IEQ Credit 3.1	*** Construction IAQ Management Plan, During Construction
1		IEQ Credit 3.2	*** Construction IAQ Management Plan, Before Occupancy
1		IEQ Credit 4.1	Low-Emitting Materials, Adhesives & Sealants
1		IEQ Credit 4.2	Low-Emitting Materials, Paints & Coatings
1		IEQ Credit 4.3	Low-Emitting Materials, Flooring Systems
1		IEQ Credit 4.4	Low-Emitting Materials, Composite Wood & Agrifiber Products
1		IEQ Credit 5	Indoor Chemical & Pollutant Source Control
1		IEQ Credit 6.1	Controllability of Systems, Lighting
1		IEQ Credit 6.2	Controllability of Systems, Thermal Comfort
1		IEQ Credit 7.1 (72703)	Thermal Comfort, Design
1		IEQ Credit 7.2	Thermal Comfort, Verification
1		IEQ Credit 8.1	*** Daylight & Views, Daylight 75% of Spaces
1		IEQ Credit 8.2	*** Daylight & Views, Views for 90% of Spaces

Required	The HVAC systems will be designed to meet the minimum ventilation requirements of ASHRAE Standard 62.1-2007
Required	Campus is Tobacco Smoke Controlled
1	Airflow measurement equipment and CO2 sensors will be integrated into the design of the HVAC systems to trigger corrective action or notify building operators if the ventilation rate falls below the design value.
1	Increased ventilation has not been considered for this project due to the resultant increase in first cost and operating cost to condition the higher quantity of ventilation air.
1	The Contractor should implement the control measures recommended in SMACNA IAQ Guidelines for Occupied Buildings Under Construction and minimum MERV 8 filters should be used on any air handler used during construction with the media being replaced prior to occupancy.
1	A building Flush-Out Plan or Air Testing should be performed to ensure proper indoor air quality before building occupancy.
1	These items will be specified to receive this credit
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1	These items will be specified to receive this credit
1	A permanent entryway system will be specified to capture dirt and particles, all areas to be exhausted where hazardous gasses or chemicals are used, and building filtration provided with minimum MERV of 13
1	Lighting controls will be provided in the project. The lighting controls will consist of a control panel, local control switches, and occupancy sensors. Daylight harvesting may be used if it is applicable.
1	Individual comfort controls will be provided for at least 50% of the building occupants. All shared multi-occupant spaces will also have comfort controls.
1	The goal for the design of the HVAC systems will be to meet the requirements of ASHRAE Standard 55-2004.
1	The Owner will need to agree to conduct a thermal comfort survey of building occupants within 6 to 18 months after occupancy and agree to develop a plan for corrective action if the survey results indicate that 20% of occupants are dissatisfied with thermal comfort in the building.
1	Daylighting of 75% of habitable spaces is provided
1	Daylighting of 90% of habitble spaces is provided

Yes	?	No			Synergy / Strategy
5	0	0	Innovation & Design Process		6 Points
1			ID Credit 1	Innovation in Design - Restorative Environment	1 to 5 Research shows that restorative environments in healing spaces can significantly contribute to the quality of the patients stay and length of stay in medical environments. The project includes a courtyard as well as outdoor terrace near the existing wooded site and park next to the property. The Green Guide for Health Care (GGHC) addresses restorative environments. Using the GGHC as precedent the A/E is proposing an innovation and design credit for designing a restorative environment.
2			ID Credit 2	Innovation in Design - Connection to the Natural World	1 to 5 This Credit is base on SS9.1 and 9.2 from GGHC. Since the patients will have a view to a natural wooded area in close proximity to the outdoor terrace it is believed that 2 credits may be possible.
1				Or	Hazardous Material Removal
			*** Exemplary Performance Path		1 to 3
1			ID Credit 2	LEED® Accredited Professional	1 The A/E has a LEED AP on staff
Regional Priority					
		Regional Priority		4 Points	1 to 4
53	3	0	TOTAL POSSIBLE POINTS		43 Points

(50 Points are required for LEED Silver therefore 5 additional points will be required to accomplish this rating)