June 2, 2016

ECKINGTON YARDS

1611-1625 ECKINGTON PLACE + 1500 HARRY THOMAS WAY, NE WASHINGTON DC 20002 PUD | POST-HEARING SUBMISSION



"ECKINGTON YARDS WEST" 1611-1625 ECKINGTON PLACE, NE SQUARE: 3576 LOT: 0805 (2001-2008)

"ECKINGTON YARDS EAST" 1500 HARRY THOMAS WAY, NE SQUARE: 3576 LOTS: 0814

OWNER/APPLICANT:

JBG/Boundary 1500 Harry Thomas Way, LLC 🗂 JBG/Boundary Eckington Place, LLC Joint Ventures between The Boundary Companies

The JBG Companies

LAND USE COUNSEL: Goulston & Storrs PC

ARCHITECT:

Eric Colbert & Associates

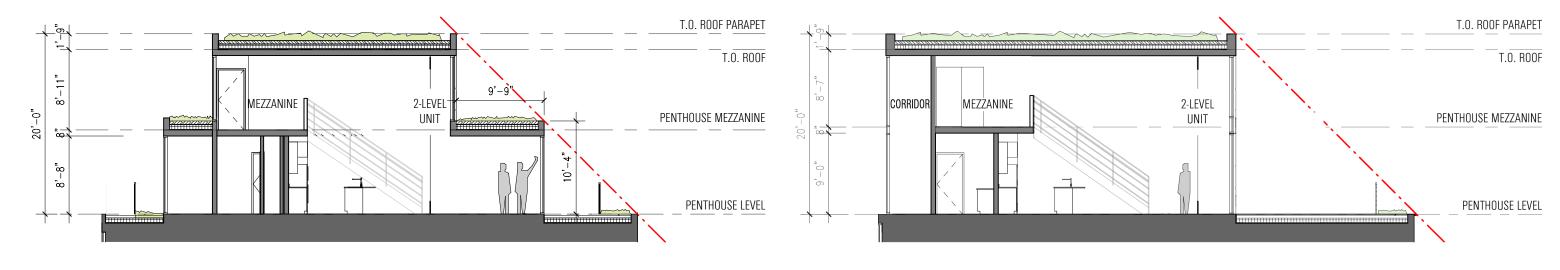
LANDSCAPE ARCHITECT: LandDesign

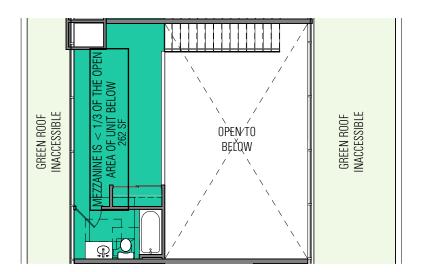
CIVIL ENGINEER: Bowman Consulting

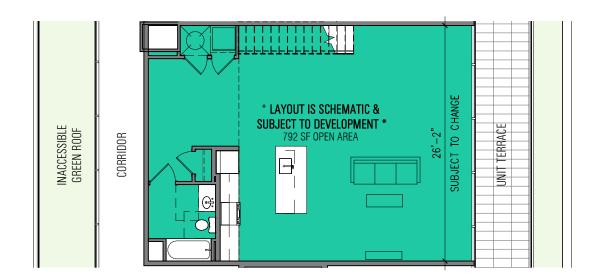
TRAFFIC CONSULTANT: Gorove/Slade Associates

LEED CONSULTANT: Sustainable Design Consulting

ZONING COMMISSION









<u>PENTHOUSE OPTION A:</u> LARGER SOUTH EXTENSION, SMALLER NORTH EXTENSION

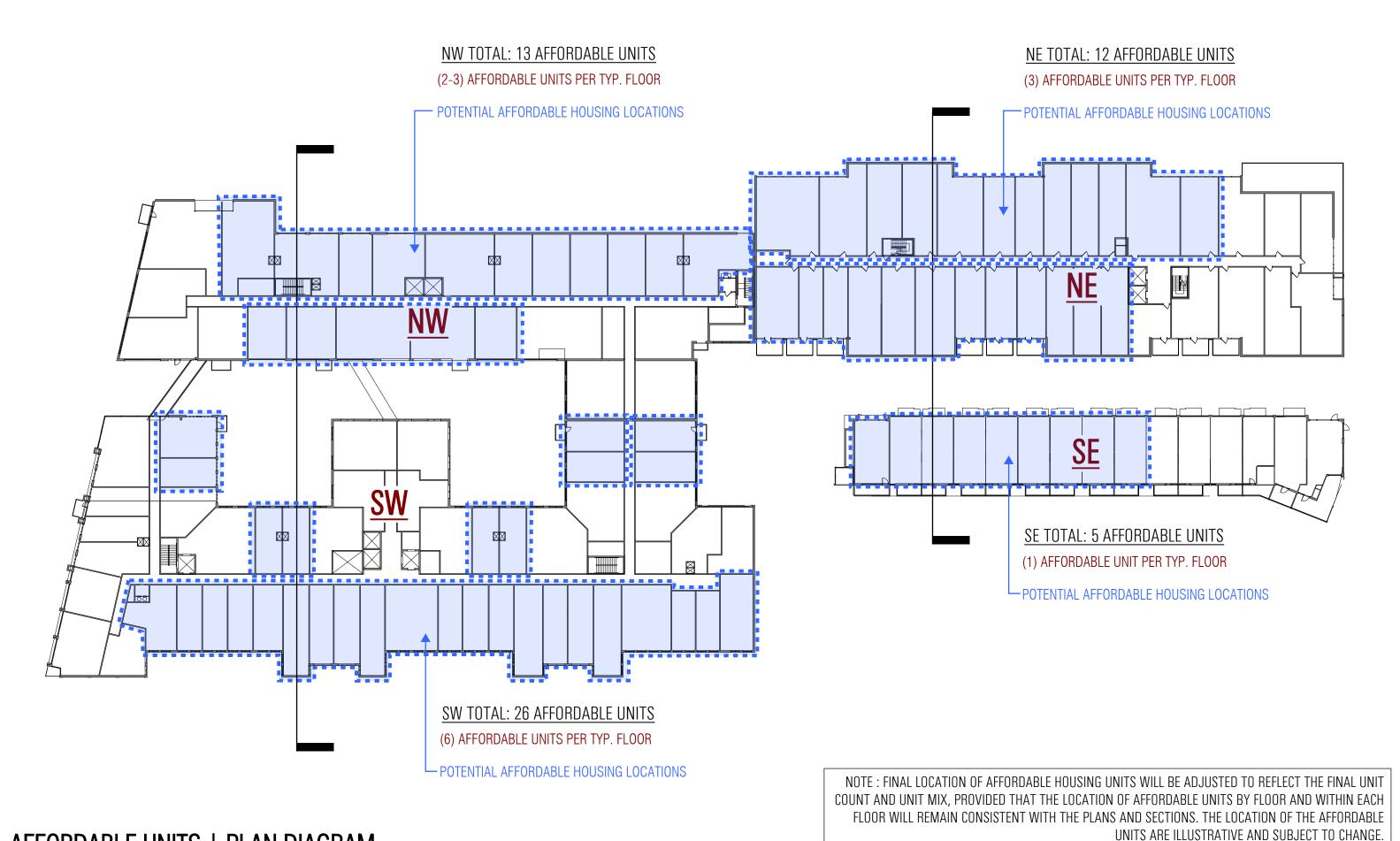
<u>PENTHOUSE OPTION B:</u> NO SOUTH EXTENSION, LARGER NORTH EXTENSION

te.

The exterior elevations, door & window sizes and locations, interior partition locations & layout, the number, size and location of residential units, stairs, outdoor spaces and balconies are shown for illustrative purposes and are subject to change.



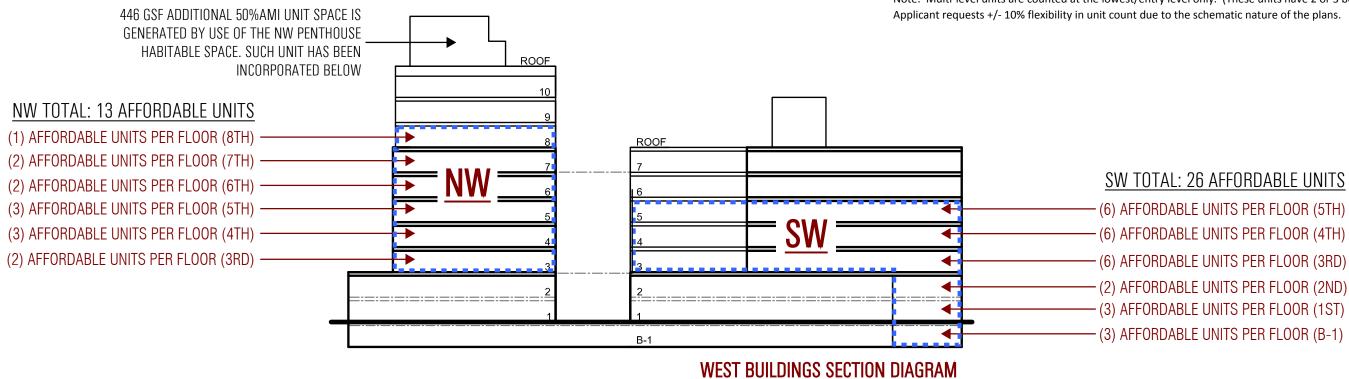
PENTHOUSE / MEZZANINE STUDIES

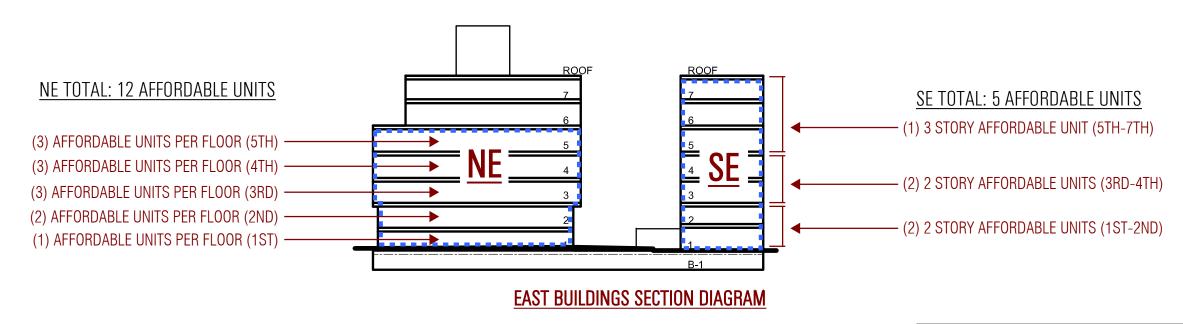


AFFORDABLE UNITS | PLAN DIAGRAM

	STUDIO	1-BR JR	1BR	2BR 1-BA	2BR 2-BA	3BR 2-BA	MULTI-LVL	TOTAL
TOTAL UNIT COUNT	48	136	231	111	69	24	76	695
% of Total	7%	20%	33%	16%	10%	3%	11%	
Afford. Units by Type	4	11	18	9	6	2	6	56
Afford. Types % of Total	7%	20%	33%	16%	10%	3%	11%	

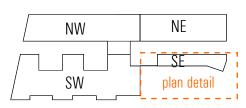
Note: Multi-level units are counted at the lowest/entry level only. (These units have 2 or 3 bedrooms.)



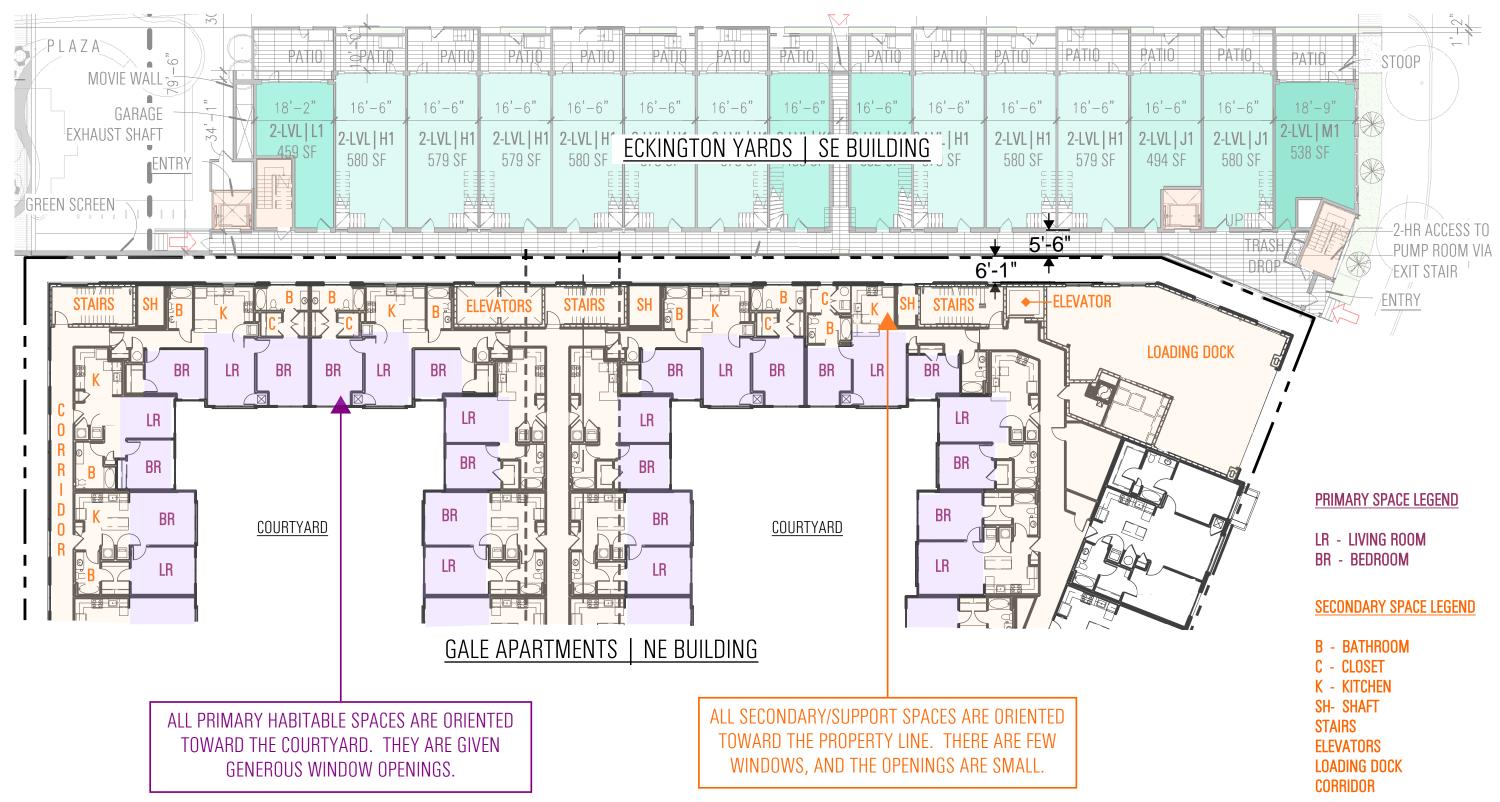


NOTE: FINAL LOCATION OF AFFORDABLE HOUSING UNITS WILL BE ADJUSTED TO REFLECT THE FINAL UNIT COUNT AND UNIT MIX, PROVIDED THAT THE LOCATION OF AFFORDABLE UNITS BY FLOOR AND WITHIN EACH FLOOR WILL REMAIN CONSISTENT WITH THE PLANS AND SECTIONS. THE LOCATION OF THE AFFORDABLE UNITS ARE ILLUSTRATIVE AND SUBJECT TO CHANGE.

AFFORDABLE UNITS | SECTION DIAGRAMS



THIS DIAGRAM MAKES IT CLEAR THAT THE ARCHITECTS OF THE TRILOGY/GALE APARTMENT COMPLEX PLANNED FOR THE FUTURE DEVELOPMENT OF THE ECKINGTON YARDS PROJECT SITE.

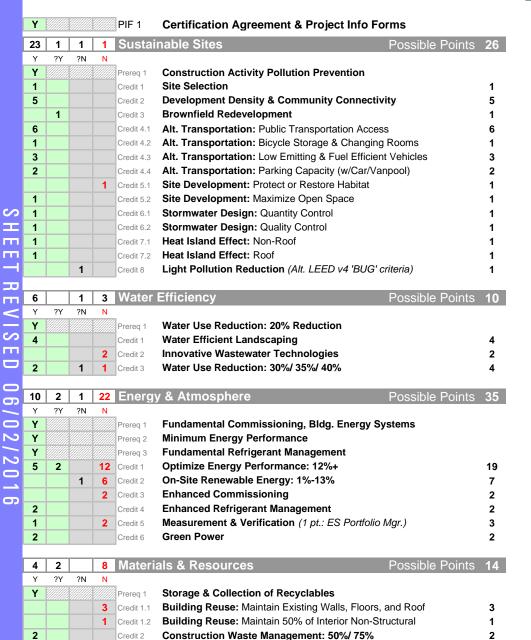


GALE APARTMENTS | UNIT PLAN DIAGRAM

LEED SCORECARD (WEST)

LEED® 2009 for New Construction and Major Renovation

Preliminary Project Checklist



SOC

2

56 8 4 42 Total

Eckington Yards - West

Eric Colbert & Associates

6/2/16

Materials & Resources, Cont. 1 1 Recycled Content: 10%/ 20% Regional Materials: 10%/ 20% Rapidly Renewable Materials: 2.5% Certified Wood: 50% 7 2 1 5 Indoor Environmental Quality Possible Points 15 **Minimum IAQ Performance** Environmental Tobacco Smoke (ETS) Control **Outdoor Air Delivery Monitoring** Increased Ventilation: 30% Construction IAQ Management Plan: During Construction Construction IAQ Management Plan: Before Occupancy Low-Emit'g. Materials: Adhesives, Sealants Low-Emit'g. Materials: Paints Low-Emit'g. Materials: Flooring Systems Credit 4.4 Low-Emit'g. Materials: Composite Wd./Agrifiber Indoor Chemical & Pollutant Source Control Controllability of Systems: Lighting Credit 6.2 Controllability of Systems: Thermal Comfort Credit 7.1 Thermal Comfort: Design Thermal Comfort: Verification (not avail. to Residential projects) Credit 8.1 Daylight & Views: Daylight 75% of Spaces Credit 8.2 Daylight & Views: Views for 90% of Spaces 5 | 1 | Innovation & Design Process Possible Points 6 Credit 1.1 Exemp. Performance SSc4.1 Public Transport. Credit 1.2 Exemp. Performance SSc5.2 Open Space Credit 1.3 Exemp. Performance SSc7.1 Avoid Heat Island Effect Water Reuse at Cooling Tower Low-emitting Walls & Ceilings LEED Accredited Professional 3 Regional Priority Credits Possible Points 4 1 Credit 1.1 SSc5.1, Habitat Credit 1.2 SSc6.1, SW Quantity control 1 Credit 1.3 WEc2, Innovative Wastewater 1 Credit 1.4 EAc1 (40%), EAc2, MRc1.1

SUSTAINABLE APPROACHES

LEED

The Eckington Yards project has been registered as two distinct LEED®v 2009 New Construction (NC) projects with USGBC. Fifty points are required for the targeted Silver certification level; the team will pursue additional points to demonstrate a commitment to delivering a high-performance mixed-use project. Credits are identified as achievable based on design feasibility and potential environmental benefits. Sustainable strategies being implemented include:

- Significantly reducing or eliminating storm water runoff / pollution
- Providing numerous bike storage spaces
- · Reducing heat island effect by employing emissive/reflective materials for hardscape and vegetated roof.
- Reducing potable water usage through irrigation design, use of water conserving fixtures, and reuse of rainwater for cooling tower make-up is proposed.
- Reducing energy consumption by adopting high efficiency HVAC systems
- Reducing impact of transportation and extraction of virgin material by the use of regional materials and those with significant recycled content.
- Improving productivity and occupant health by access to daylight and views
- Meeting ASHRAE 55 standards to ensure thermal comfort and providing thermal controls to ensure accommodation of the individual preferences of its occupants.
- Installing low-emitting paints, adhesives, sealants and flooring systems.
- Installing permanent monitoring systems to ensure adequate ventilation.

OTHER STRATEGIES

In keeping with The Applicant's vision that the projects address environmental issues "beyond" LEED, the Design Team is exploring several aspects of sustainable strategies. The goal is to go beyond obtaining a LEED plaque; it is to create buildings and spaces that support and nurture both inhabitants and neighbors. Several strategies, including Smart Growth and Biophilic Design, are under consideration to take advantage of the locale and enhance the project environment in keeping with The Applicant's goals.

Smart Growth will be achieved through the project's location, which is in line with urban planning and transportation goals of concentrating growth in walkable, bike-friendly and transit-oriented areas. Eckington Yards will also provide a unique sense of community and place and the innovative retail will enhance cultural resources.

The Eckington Yards project affords an opportunity to incorporate elements of Biophilic Design in an urban context by creating strong connections between nature and man-made environments.

- Numerous windows affording natural daylight to the interior of the buildings.
- Multiple-sensory stimulation will be experienced through the project's design scheme, where a variety of
 materials, as well as textures and patterns, will provide a more immersive experience.
- Providing information-rich views imparting a sense of openness (the pattern of "prospect") while
 imparting a sense of safety and control is fulfilled by the projects' orientation and provision of roof
 terraces with outdoor vistas from an elevated, safe place.
- Human preference for "refuge" is addressed in the partially enclosed space between the building components, where visual access into the refuge space from the street is limited, where the space can provide a sense of shelter with the ability to view surroundings and landscaping.
- An exhilarating space arousing attention and curiosity while the user is protected (called "risk/peril" pattern) is afforded by the bridges between the buildings.

Other strategies include:

- Shared parking between developments to reduce overall parking, construction materials, and excavation.
- Shared loading to reduce space, curb cuts, inefficiency.
- Building design that respects and acknowledges daylight impacts for neighbors.

The Team is beginning analysis of compliance with mandatory requirements ("prerequisites") of the LEED® for Neighborhood Development (LEED-ND) rating system. LEED-ND measures sustainability at a community level by evaluating where to build, what to build, and how to manage environmental impacts. If compliance with LEED-ND prerequisites is confirmed, then LEED-ND certification may also be feasible.

ECKINGTON YARDS WEST | LEED

Materials Reuse: 5%/ 10%

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

LEED SCORECARD (EAST)

LEED® 2009 for New Construction and Major Renovation

Preliminary Project Checklist



Eckington Yards - East

Eric Colbert & Associates

6/2/16

Y				PIF 1	Certification Agreement & Project Info Forms							
23	1	1	1	Sustai	nable Sites Possible Points	26						
Υ	?Y	?N	N									
Υ				Prereq 1	Construction Activity Pollution Prevention							
1				Credit 1	Site Selection	1						
5				Credit 2	Development Density & Community Connectivity	5						
	1			Credit 3	Brownfield Redevelopment	1						
6				Credit 4.1	Alt. Transportation: Public Transportation Access	6						
1				Credit 4.2	Alt. Transportation: Bicycle Storage & Changing Rooms	1						
3				Credit 4.3	Alt. Transportation: Low Emitting & Fuel Efficient Vehicles							
2				Credit 4.4	Alt. Transportation: Parking Capacity (w/Car/Vanpool)							
			1	Credit 5.1	Site Development: Protect or Restore Habitat	1						
1				Credit 5.2	Site Development: Maximize Open Space	1						
1				Credit 6.1	Stormwater Design: Quantity Control	1						
1				Credit 6.2	Stormwater Design: Quality Control	1						
1				Credit 7.1	Heat Island Effect: Non-Roof	1						
1				Credit 7.2	Heat Island Effect: Roof	1						
		1		Credit 8	Light Pollution Reduction (Alt.: LEED v4 BUG criteria)	1						
_	_		•	Water	Efficiency Describe Points	40						
7 Y	?Y	?N	3 N	water	Efficiency Possible Points	10						
Y	?Y	?N	N WWW	In	Water Use Reduction: 20% Reduction							
4				Prereq 1 Credit 1	Water Ose Reduction: 20% Reduction Water Efficient Landscaping	4						
4			2	Credit 2	Innovative Wastewater Technologies	4 2						
3			1	Credit 3	Water Use Reduction: 30%/ 35%/ 40%	4						
3			•	Credit 3	Water Use Reduction. 30/0/35/0/40/0	4						
9	2	1	23	Energ	y & Atmosphere Possible Points	35						
Y	?Y	?N	N	- 3								
Y				Prereq 1	Fundamental Commissioning, Bldg. Energy Systems							
Υ				Prereq 2	Minimum Energy Performance							
Υ				Prereq 3	Fundamental Refrigerant Management							
4	2		13	Credit 1	Optimize Energy Performance: 12%+	19						
		1	6	Credit 2	On-Site Renewable Energy: 1%-13%	7						
			2	Credit 3	Enhanced Commissioning	2						
2				Credit 4	Enhanced Refrigerant Management	2						
1			2	Credit 5	Measurement & Verification (1 pt.: ES Portfolio Mgr.)	3						
2				Credit 6	Green Power	2						
4	1	1	8	Materi	als & Resources Possible Points	14						
Y	?Y	?N	N	1	O							
Υ				Prereq 1	Storage & Collection of Recyclables	_						
			3	Credit 1.1	Building Reuse: Maintain Existing Walls, Floors, and Roof	3						
			1	Credit 1.2	Building Reuse: Maintain 50% Interior Non-Structural	1						
2				Credit 2	Construction Waste Management: 50%/ 75%	2						

Materials Reuse: 5%/ 10%

				Matoria	als & Resources, Cont.	
.,	0)/	011		Materia	als & Resources, Com.	
Y	?Y	?N	N	la ::	Pagualed Cantants 409/ / 209/	•
1	1			Credit 4	Recycled Content: 10%/ 20%	2
1		1		Credit 5	Regional Materials: 10%/ 20%	2
			1	Credit 6	Rapidly Renewable Materials: 2.5%	1
			1	Credit 7	Certified Wood: 50%	1
_						
8	1	1	5	Indoor	Environmental Quality Possible Points	15
Υ	?Y	?N	N	1		
Υ				Prereq 1	Minimum IAQ Performance	
Υ				Prereq 2	Environmental Tobacco Smoke (ETS) Control	
			1	Credit 1	Outdoor Air Delivery Monitoring	1
			1	Credit 2	Increased Ventilation: 30%	1
1				Credit 3.1	Construction IAQ Management Plan: During Construction	1
			1	Credit 3.2	Construction IAQ Management Plan: Before Occupancy	1
1				Credit 4.1	Low-Emit'g. Materials: Adhesives, Sealants	1
1				Credit 4.2	Low-Emit'g. Materials: Paints	1
1				Credit 4.3	Low-Emit'g. Materials: Flooring Systems	1
		1		Credit 4.4	Low-Emit'g. Materials: Composite Wd./Agrifiber	1
			1	Credit 5	Indoor Chemical & Pollutant Source Control	1
1				Credit 6.1	Controllability of Systems: Lighting	1
1				Credit 6.2	Controllability of Systems: Thermal Comfort	1
1				Credit 7.1	Thermal Comfort: Design	1
			1	Credit 7.2	Thermal Comfort: Verification (not avail. to Residential projects)	1
	1			Credit 8.1	Daylight & Views: Daylight 75% of Spaces	1
1				Credit 8.2	Daylight & Views: Views for 90% of Spaces	1
-					, - - , - -	
5		1		Innova	tion & Design Process Possible Points	6
Y	?Y	?N	N	mmova	1 000 bio 1 0 into	
1				Credit 1.1	Exemp. Performance SSc4.1 Public Transportation	1
1				Credit 1.2	Exemp. Performance SSc5.2 Open Space	1
1				Credit 1.3	Exemp. Performance SSc7.1 Avoid Heat Island Effect	1
1				Credit 1.3	Low-emitting Walls & Ceilings	1
		1		Credit 1.4	TBD: suggest Int. Pest Mgt.	1
1		•		Credit 1.5	LEED Accredited Professional	1
				Credit 2	LEED Accredited Professional	1
			_	Dogion	Describe Points	4
1	0)/		3	Region	al Priority Credits Possible Points	4
Y	?Y	?N	N	la 11.4.5	CC-E 4 Habitat	
			1	Credit 1.1	SSc5.1, Habitat	1
1				Credit 1.2	SSc6.1, SW Quantity control	1
			1	Credit 1.3	WEc2, Innovative Wastewater	1
			1	Credit 1.4	EAc1 (40%), EAc2, MRc1.1	1
_						
57	5	5	43	Total	Possible Points	110
Certif	ied 4	0 to 49) poin	ts Silver	50 to 59 points Gold 60 to 79 points Platinum 80 to 110 points	

DRAFT WATER COMPUTATIONS

		Sanitary		Domestic						
Turn of Chatrage	O			Each	Each		Total	Total	Total	Total
Type of Fixture	Quantity	Each	Total	cw	HW	Total	cw	HW	Combined	Combined
		DFU	DFU	SFU	SFU	SFU	SFU	SFU	SFU	GPM
Group (Tank) (1.6 gpf)	886	5	4430	2.7	1.5	3.6	2392.2	1329	3189.6	231
WC Tank (Private)		3		2.2		2.2				
WC Tank (Public)		4		5		5				
Group (Greater than 1.6 gpf)		6		6	3	8				
WC FV (Private)		4		6		6				
WC FV (Public)	7	6	42	10		10	70		70	35
Public UR (FV) (1 gpf or less)		2		5		5				
Public Lavatory	7	1	7	1.5	1.5	2	10.5	10.5	14	17
Public Lavatory/Bidet		1		0.5	0.5	0.7				
Public Bathtub		2		3	3	4				
Private Bathtub		2		1	1	1.4				
Public Shower	2	2		3	3	4				
Private Shower	187	2		1	1	1.4				
Mop Basin	6	5	30	2.25	2.25	3	13.5	13.5	18	6.5
Service Sink		5		2.25	2.25	3				
Public kitchen Sink	4	2	8	3	3	4	12	12	16	12.8
Private Kitchen Sin W/ DW	699	2	1398	1	1	2.8	699	699	1957.2	179
Drinking Fountain	8	0.5		0.25		0.25				
Washing Machine (Public)		3		3	3	4				
Washing Machine (Private)	699	2	1398	1	1	1.4	699	699	978.6	106
3" Floor Drain	12	5	60							
4" Floor Drain	8	6	48							
3"/4" FD (emerg)										
Bar Sink		2		1.5	1.5	2				
	Sub-Tot	al (DFU):	7421	Sub-Totals (SFU):		3896.2	2763	6243.4	390	
Additional Sanitary			Enter	Additional Domestic		CW	HW		Enter	
Drainage Demands:			Total	W	ater Deman	ds:	GPM	GPM		Total
			DFU				269	219		GMP
HVAC				Hose Bibbs						15
Kitchen				HVAC					24	
Laundry				Kitchen						
Pool / Fountain				Laundry						
				Pool / Four	I / Fountain					
				Irrigation						20
	Tot	al (DFU):	7421		To	tal (SFU):	5599.2	4416	9227.2	449

- Notes:

 1. Supply fixture unit (SFU) value based on the 2012 International Plumbing Code table E101B

 2. Drainage fixture unit (DFU) value based on the 2012 International Plumbing Code table 709.1

 3. Additional demands for HVAC make-up, pool, fountain, laundry, food service, etc.

 4. Add 5 GPM for each hose bibb up to a maximum of 15 GPM

ECKINGTON YARDS EAST | LEED