Education 911 Justice + ™ Plus = Positive Stories.

Plus = Positive Stories, Positive Impact



Conceptual Design Dossier for 2400 East Capitol Street (Center West Front), Washington, D.C.

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Mayra Troya-Nutt, M.D. Executive Chair UnitedUniversity.org

Compiled by U.S.–International Scholars Cesar E. Simborth, Master of Urban Design, and Jeffrey G. Nutt, J.D., Blind Para-Athlete NICEATech.org



nited University™ Institute Collaborative, Flagship Physical Campus/National HQ Schools Resource Center

Local Constituencies

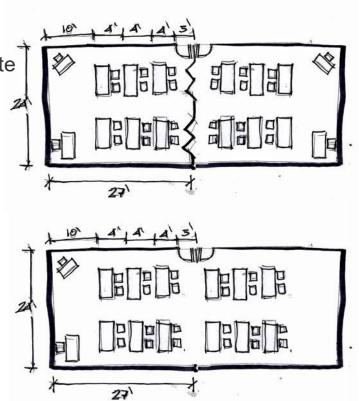
The Washington Metropolitan Area, also known as the **National Capitol** Region of the District of Columbia, Maryland, and Virginia

nited University™ Institute Collaborative, Flagship Physical Campus/National HQ Schools Resource Center

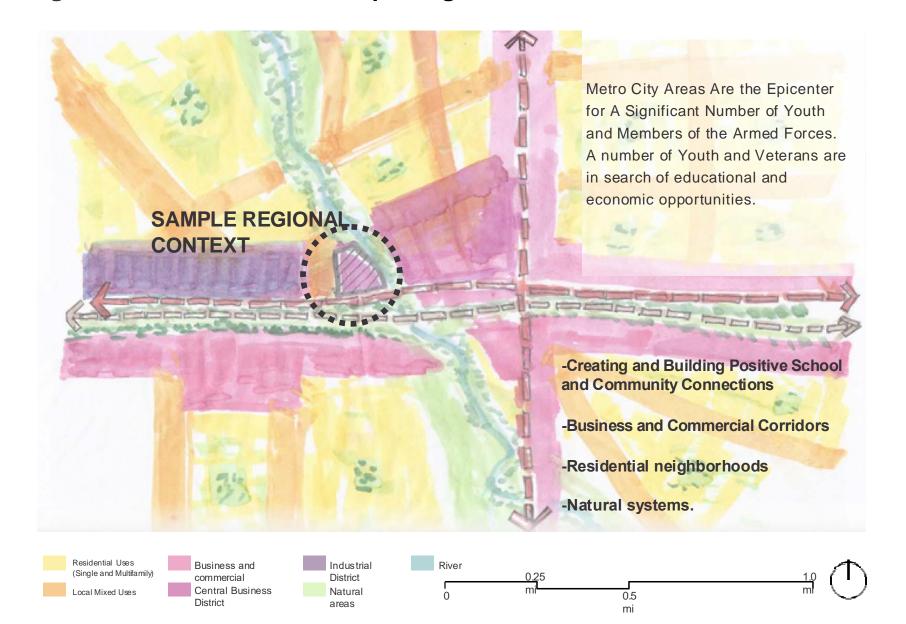
Strategy and Future Vision

United University Institute Project Strategies

- 1. **Integrated approach.** Conceive the project as part of a future city's plan and vision.
- 2. Take advantage of the site's **natural features**.
- 3. Create **collective open places**, as well as introduce water into the site to create collective amenities.
- 4. Increase **pedestrian connectivity** and provide multiple access points on the site. Locate parking facilities in the rear part of the site behind the buildings (pedestrian-friendly facades).
- **5. Phasing**. Conceptualize the project in phases.
- **6. Diversifying funding after** site control is obtained.
- **7.** Flexibility in the use of the facilities.



Conceptual Design Dossier 6.6 Acre Site, Sample Regional Context – Future Collaborative Vision



[Urban Context Future Vision --Site Aerial Map Page Intentionally Left Blank] [Phase Zero
Google Aerial
Map Page
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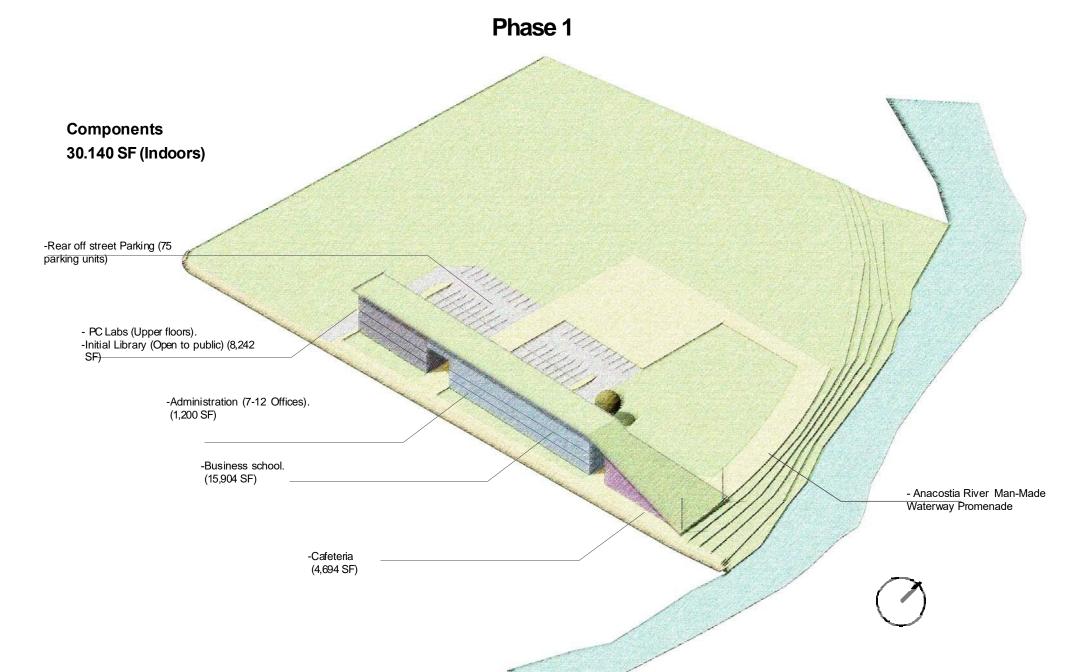
Students: 300

Faculty: 15

Components:

- -Business Department
- -Starting Library PC Lab
- -Administration (7-12 offices)
- -Parking (75 u)
- -Restaurant-Cafeteria

Construction + Operation: 1 to 2 Years



Students: 600

Faculty: 30

General Components:

-Energy, Environment, and Technology Departments

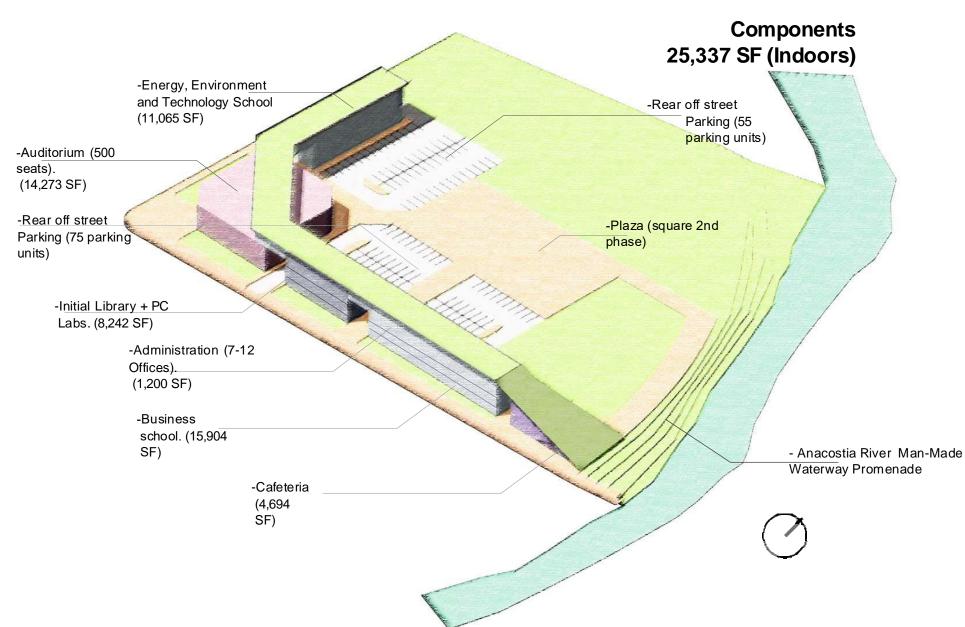
-Auditorium

-Parking, 2nd Phase (55 u)

-Plaza (2nd Phase)

Construction + Operation: 2 to 4 Years

Phase 2



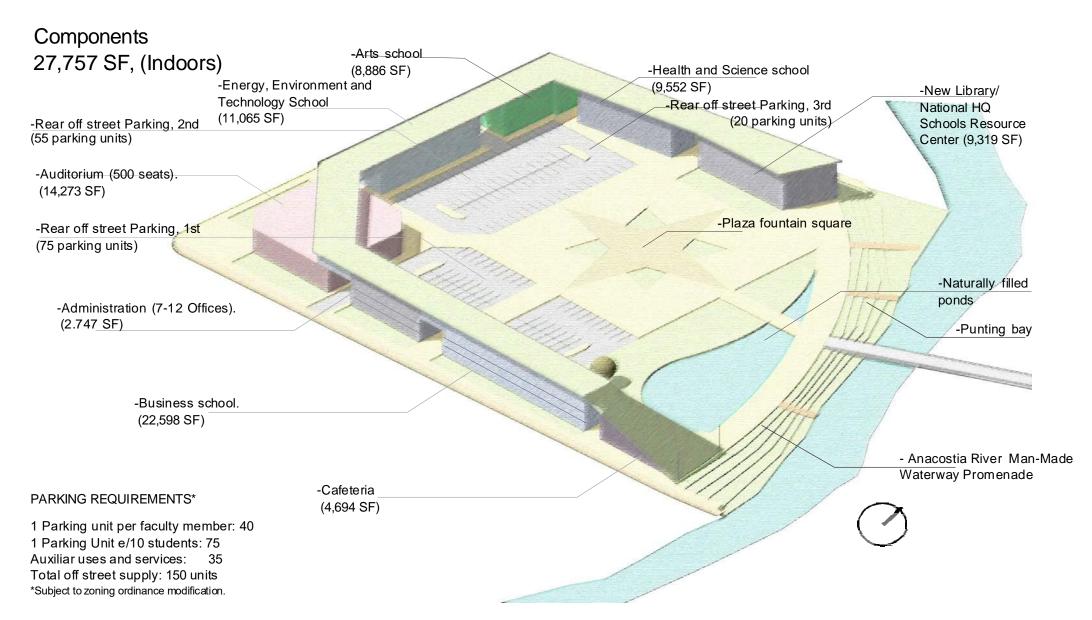
Students: 750 to 1,000

Faculty: 40

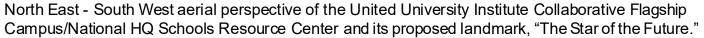
General Components:

- -Arts, Health, and Science Department
- -New Library/National HQ Schools Resource Center
- -Parking, 3rd Phase (20 u)

Construction + Operation: 3 to 6 Years











Pedestrian perspective of Man-Made Promenade Waterway, Pond, Fountain, and internal open spaces. The Health, Science Schools, and New Library/National HQ Schools Resource Center are in the back.



View of future active learning students punting.

ANNEX

Construction Costs

Property Location: Washington, D.C. Phase:

Approximate Parcel Size: 490' x 600' = 289,344 Square Feet / 6.6 Acres

Development Data (User Input)	Total Areas (S-F)	Number of Units	Development Description
Business School Class. (Low Rise 1 to 4 Stories)	15,904	17 CM*	Areas include interior spaces* + walls +windows+ circulation spaces
Energy, Engeenering and Technology School Class.(Low Rise 1 to 4 Stories)	0	0 CM*	Areas include interior spaces* + walls +windows+ circulation spaces
Arts School Class. (Low Rise 1 to 4 Stories)	0	0 CM*	Areas include interior spaces* + walls +windows+ circulation spaces
Health and Science School Class. (Low Rise 1 to 4 Stories)	0	0 CM*	Areas include interior spaces* + walls +windows+ circulation spaces
Administrative Offices (Low Rise 1 to 4 Stories)	1,200		Areas include interior spaces* + walls +windows+ circulation spaces
Auditorium (Minimum 30,000 SF)	0		Areas include interior spaces* + walls +windows+ circulation spaces
Initial Library + Computer Labs	8,242		Areas include interior spaces* + walls +windows+ circulation spaces
Retail Stores (Individual)			
Cafeteria	4,694		Areas include interior spaces* + walls +windows+ circulation spaces
Greenspace (Landscaping)	52,663		
Hard Scape (Landscaping)	39,887		
Parking Decks (Over 150,000 SF Total Area / Above Grade)	27,199		
Parking Decks (Over 150,000 SF Total Area / Below Grade)			
Total Development Area Floor Area Ratio	149,789 \$ 52%	SF	*CM: Classroom module for 10 to 12 students CM's are flexible and can be attached for larger Clasroom demands

Base Cost of Construction Estimate	Base Cost / SF	Base Cost	Upgrade % Applied	Total Base Cost	Cost / SF Dev. Type	Cost / SF <u>Total</u>
Business School Class. (Low Rise 1 to 4 Stories)	\$97.78	\$ 1,615,751	1.00	\$ 1,615,751	\$ 101.60	\$ 10.79
Energy, Engeenering and Technology School Class.(Low Rise 1 t	\$97.78	\$ -	1.00	\$ -	NA	\$ -
Arts School Class. (Low Rise 1 to 4 Stories)	\$97.78	\$ -	1.00	\$ -	NA	\$ -
Health and Science School Class. (Low Rise 1 to 4 Stories)	\$97.78	\$ -	1.00	\$ -	NA	\$ -
Administrative Offices (Low Rise 1 to 4 Stories)	\$97.78	\$ 121,916	1.00	\$ 121,916	\$ 101.60	\$ 0.81
Auditorium (Minimum 30,000 SF)	\$189.71	\$ -	1.00	\$ -	NA	\$ -
Initial Library + Computer Labs	\$97.78	\$ 837,379	1.00	\$ 837,379	\$ 101.60	\$ 5.59
Retail Stores (Individual)	\$88.45	\$ -	1.00	\$ -	NA	\$ -
Cafeteria	\$172.02	\$ 839,024	1.00	\$ 839,024	\$ 178.73	\$ 5.60
Greenspace (Landscaping)	\$3.23	\$ 176,901	1.00	\$ 176,901	\$ 3.36	\$ 1.18
Hard Scape (Landscaping)	\$9.09	\$ 376,667	1.00	\$ 376,667	\$ 9.44	\$ 2.51
Parking Decks (Over 150,000 SF Total Area / Above Grade)	\$49.41	\$ 1,396,325	1.00	\$ 1,396,325	\$ 51.34	\$ 9.32
Parking Decks (Over 150,000 SF Total Area / Below Grade)	\$63.01	\$ -	1.00	\$ -	NA	\$ -
Base Construction Cost Estimate		\$ 5,363,963		\$ 5,363,963		\$ 35.81

Final Cost of Construction Estimate				
Total Base Cost of Construction Estimate	\$	5,363,963	\$ 35.81	per SF Total
Demolition, Site Work and Underground Utility Work (\$8.35 / SF of Parcel)	\$	313,826	\$ 2.10	per SF Total
Retaining Wall Along East Side of Site Enter \$0 If Not Required By Development Type =========■	\$	-	\$ -	per SF Total
Floodplain Construction Cost Adjustment @ 4.5%	\$	241,378		
Subotal - Hard Construction Costs	\$	5,919,168	\$ 39.52	per SF Total
Construction Project Management Fees (2.75% of Total Construction Costs)	\$	162,777	\$ 1.09	per SF Total
Initial Site Survey	\$	7,500	\$ 0.05	per SF Total
Soil Boring / Foundation Analysis	\$	57,000	\$ 0.38	per SF Total
Architectural / Engineering Fees (7.5% of Total Construction Costs)	\$	443,938	\$ 2.96	per SF Total
Permit Fees (Subject to City Schedule Modification)	\$	36,246	\$ 0.24	per SF Total
Plan Review Fees (Subject to City Schedule Modification)	_\$	14,498	\$ 0.10	per SF Total
Subtotal - Soft Construction Costs	\$	721,959	\$ 4.82	per SF Total
Total Project Hard and Soft Construction Costs	\$	6,641,127	\$ 44.34	per SF Total
0.00%	\$	-	\$ -	per SF Total
Total Project Hard and Soft Construction Costs w/ Contingency	\$	6,641,127	\$ 44.34	per SF Total

Property Location: Washington, D.C. Phase: 2

Approximate Parcel Size: 490' x 600' = 289,344 Square Feet / 6.6 Acres

Development Data (User Input)	Total Areas (S-F)	Number of Units	Development Description
Business School Class. (Low Rise 1 to 4 Stories) Energy, Engeenering and Technology School Class. (Low Rise 1 to 4 Stories) Arts School Class. (Low Rise 1 to 4 Stories) Health and Science School Class. (Low Rise 1 to 4 Stories) Administrative Offices (Low Rise 1 to 4 Stories) Auditorium (Minimum 30,000 SF) Initial Library Retail Stores (Individual) Cafeteria	0 11,065 0 0 0 14,273 0	0 CM* 12 CM* 0 CM*	Areas include interior spaces* + walls +windows+ circulation spaces Areas include interior spaces* + walls +windows+ circulation spaces Areas include interior spaces* + walls +windows+ circulation spaces Areas include interior spaces* + walls +windows+ circulation spaces Areas include interior spaces* + walls +windows+ circulation spaces Areas include interior spaces* + walls +windows+ circulation spaces Areas include interior spaces* + walls +windows+ circulation spaces Areas include interior spaces* + walls +windows+ circulation spaces Areas include interior spaces* + walls +windows+ circulation spaces
Greenspace (Landscaping) Hard Scape (Landscaping) Parking Decks (Over 150,000 SF Total Area / Above Grade) Parking Decks (Over 150,000 SF Total Area / Below Grade) Total Development Area Floor Area Ratio	22,981 25,981 19,270 93,569 \$	SF	*CM: Classroom module for 10 to 12 students CM's are flexible and can be attached for larger Clasroom demands

Base Cost of Construction Estimate	Base Cost / SF	Base Cost	Upgrade % <u>Applied</u>	ļ	Total Base Cost		Cost / SF <u>Dev. Type</u>	Cost / SF <u>Total</u>
Business School Class. (Low Rise 1 to 4 Stories)	\$97.78	\$ _	1.00	\$	_		NA	\$ _
Energy, Engeenering and Technology School Class.(Low Rise 1 t	\$97.78	1,124,125	1.00	\$	1,124,125	\$	101.60	\$ 12.01
Arts School Class. (Low Rise 1 to 4 Stories)	\$97.78	\$ -	1.00	\$	-	·	NA	\$ _
Health and Science School Class. (Low Rise 1 to 4 Stories)	\$97.78	\$ -	1.00	\$	-		NA	\$ -
Administrative Offices (Low Rise 1 to 4 Stories)	\$97.78	\$ -	1.00	\$	-		NA	\$ -
Auditorium (Minimum 30,000 SF)	\$189.71	\$ 2,813,234	1.00	\$	2,813,234	\$	197.11	\$ 30.07
Initial Library	\$97.78	\$ -	1.00	\$	-		NA	\$ -
Retail Stores (Individual)	\$88.45	\$ -	1.00	\$	-		NA	\$ -
Cafeteria	\$172.02	\$ -	1.00	\$	-		NA	\$ -
Greenspace (Landscaping)	\$3.23	\$ 77,195	1.00	\$	77,195	\$	3.36	\$ 0.83
Hard Scape (Landscaping)	\$9.09	\$ 245,350	1.00	\$	245,350	\$	9.44	\$ 2.62
Parking Decks (Over 150,000 SF Total Area / Above Grade)	\$49.41	\$ 989,279	1.00	\$	989,279	\$	51.34	\$ 10.57
Parking Decks (Over 150,000 SF Total Area / Below Grade)	\$63.01	\$ -	1.00	\$	-		NA	\$ -
Base Construction Cost Estimate		\$ 5,249,183		\$	5,249,183			\$ 56.10

otal Project Hard and Soft Construction Costs 0.00%	\$ 6,443,380	\$ \$	68.86 -	per SF Total per SF Total
ubtotal - Soft Construction Costs	\$ 644,157	\$	6.88	per SF Total
an Review Fees (Subject to City Schedule Modification)	\$ 14,211	\$	0.15	per SF Total
ermit Fees (Subject to City Schedule Modification)	\$ 35,526	\$	0.38	per SF Total
rchitectural / Engineering Fees (7.5% of Total Construction Costs)	\$ 434,942	\$	4.65	per SF Total
oil Boring / Foundation Analysis	\$ -	\$	-	per SF Total
itial Site Survey	\$ -	\$	-	per SF Total
onstruction Project Management Fees (2.75% of Total Construction Costs)	\$ 159,479	\$	1.70	per SF Total
ubotal - Hard Construction Costs	\$ 5,799,223	\$	61.98	per SF Total
oodplain Construction Cost Adjustment @ 4.5%	\$ 236,213			
etaining Wall Along East Side of Site Enter \$0 If Not Required By Development Type ==========	\$ -	\$	-	per SF Total
emolition, Site Work and Underground Utility Work (\$8.35 / SF of Parcel)	\$ 313,826	\$	3.35	per SF Total
otal Base Cost of Construction Estimate	\$ 5,249,183	\$	56.10	per SF Total

Property Location: Washington, D.C. Phase: 3

Development Data (User Input)	Total Areas (S-F)	Number of Units	Development Description
Business School Class. (Low Rise 1 to 4 Stories)	0	0 CM*	Areas include interior spaces* + walls +windows+ circulation spaces
Energy, Engeenering and Technology School Class.(Low Rise 1 to 4 Stories)	0	0 CM*	Areas include interior spaces* + walls +windows+ circulation spaces
Arts School Class. (Low Rise 1 to 4 Stories)	8,886	6 CM*	Areas include interior spaces* + walls +windows+ circulation spaces
Health and Science School Class. (Low Rise 1 to 4 Stories)	9,552	9 CM*	Areas include interior spaces* + walls +windows+ circulation spaces
Administrative Offices (Low Rise 1 to 4 Stories)	0		Areas include interior spaces* + walls +windows+ circulation spaces
Auditorium (Minimum 30,000 SF)	0		Areas include interior spaces* + walls +windows+ circulation spaces
New Library	9,319		Areas include interior spaces* + walls +windows+ circulation spaces
Retail Stores (Individual)	0		
Cafeteria	0		Areas include interior spaces* + walls +windows+ circulation spaces
Greenspace (Landscaping)	55,269		
Hard Scape (Landscaping)	50,282		
Parking Decks (Over 150,000 SF Total Area / Above Grade)	6,814		
Parking Decks (Over 150,000 SF Total Area / Below Grade)	0		
Total Development Area	140,123	SF	*CM: Classroom module for 10 to 12 students
Floor Area Ratio	48%		CM's are flexible and can be attached for larger Clasroom demands

Base Cost of Construction Estimate	Base Cost / SF	Base Cost	Upgrade % Applied	Total sase Cost	Cost / SF Dev. Type	Cost / SF <u>Total</u>
Business School Class. (Low Rise 1 to 4 Stories)	\$97.78	\$ -	1.00	\$ -	NA	\$ _
Energy, Engeenering and Technology School Class.(Low Rise 1 t	\$97.78	1	1.00	\$ -	NA	\$ _
Arts School Class. (Low Rise 1 to 4 Stories)	\$97.78	\$ 902,787	1.00	\$ 902,787	\$ 101.60	\$ 6.44
Health and Science School Class. (Low Rise 1 to 4 Stories)	\$97.78	\$ 970,450	1.00	\$ 970,450	\$ 101.60	\$ 6.93
Administrative Offices (Low Rise 1 to 4 Stories)	\$97.78	\$ -	1.00	\$ S.	NA	\$ -
Auditorium (Minimum 30,000 SF)	\$189.71	\$ -	1.00	\$ -	NA	\$ ¥
New Library	\$97.78	\$ 946,807	1.00	\$ 946,807	\$ 101.60	\$ 6.76
Retail Stores (Individual)	\$88.45	\$ -	1.00	\$ -	NA	\$ -
Cafeteria	\$172.02	\$ -	1.00	\$ -	NA	\$ -
Greenspace (Landscaping)	\$3.23	\$ 185,654	1.00	\$ 185,654	\$ 3.36	\$ 1.32
Hard Scape (Landscaping)	\$9.09	\$ 474,839	1.00	\$ 474,839	\$ 9.44	\$ 3.39
Parking Decks (Over 150,000 SF Total Area / Above Grade)	\$49.41	\$ 349,821	1.00	\$ 349,821	\$ 51.34	\$ 2.50
Parking Decks (Over 150,000 SF Total Area / Below Grade)	\$63.01	\$ -	1.00	\$ -	NA	\$ -
Base Construction Cost Estimate		\$ 3,830,357		\$ 3,830,357		\$ 27.34

Final Cost of Construction Estimate			
Total Base Cost of Construction Estimate	\$ 3,830,357	\$ 27.34	per SF Total
Demolition, Site Work and Underground Utility Work (\$8.35 / SF of Parcel)	\$ 313,826	\$ 2.24	per SF Total
Retaining Wall Along East Side of Site Enter \$0 If Not Required By Development Type =========■	\$ -	\$ -	per SF Total
Floodplain Construction Cost Adjustment @ 4.5%	\$ 172,366		
Subotal - Hard Construction Costs	\$ 4,316,550	\$ 30.81	per SF Total
Construction Project Management Fees (2.75% of Total Construction Costs)	\$ 118,705	\$ 0.85	per SF Total
Initial Site Survey	\$ -	\$ -	per SF Total
Soil Boring / Foundation Analysis	\$ -	\$ -	per SF Total
Architectural / Engineering Fees (7.5% of Total Construction Costs)	\$ 323,741	\$ 2.31	per SF Total
Permit Fees (Subject to City Schedule Modification)	\$ 26,630	\$ 0.19	per SF Total
Plan Review Fees (Subject to City Schedule Modification)	\$ 10,652	\$ 0.08	per SF Total
Subtotal - Soft Construction Costs	\$ 479,729	\$ 3.42	per SF Total
Total Project Hard and Soft Construction Costs	\$ 4,796,278	\$ 34.23	per SF Total
0.00%	\$ -	\$ -	per SF Total
Total Project Hard and Soft Construction Costs w/ Contingency	\$ 4,796,278	\$ 34.23	per SF Total

Property Location: Washington, D.C. Phase 1,2,3

Approximate Parcel Size: 490' x 600' = 289,344 Square Feet / 6.6 Acres

Development Data (User Input)	Total Areas (S-F)	Number of Units/ School	Development Description
Business School Class. (Low Rise 1 to 4 Stories)	22,598	24 CM*	Areas include interior spaces* + walls +windows+ circulation spaces
Energy, Engeenering and Technology School Class.(Low Rise 1 to 4 Stories)	11,065	12 CM*	Areas include interior spaces* + walls +windows+ circulation spaces
Arts School Class. (Low Rise 1 to 4 Stories)	8,886	6 CM*	Areas include interior spaces* + walls +windows+ circulation spaces
Health and Science School Class. (Low Rise 1 to 4 Stories)	9,552	9 CM*	Areas include interior spaces* + walls +windows+ circulation spaces
Administrative Offices (Low Rise 1 to 4 Stories)	2,747		Areas include interior spaces* + walls +windows+ circulation spaces
Audirorium (Minimum 30,000 SF)	14,273		Areas include interior spaces* + walls +windows+ circulation spaces
New Library	9,319		Areas include interior spaces* + walls +windows+ circulation spaces
Retail Stores (Individual)			
Cafeteria	4,694		Areas include interior spaces* + walls +windows+ circulation spaces
Greenspace (Landscaping)	130,914		
Hard Scape (Landscaping)	116,150		
Parking Decks (Over 150,000 SF Total Area / Above Grade)	53,284		
Parking Decks (Over 150,000 SF Total Area / Below Grade)			
Total Development Area Floor Area Ratio	383,482 S 133%	SF	*CM: Classroom module for 10 to 12 students CM's are flexible and can be attached for larger Clasroom demands

			Upgrade %		Total		Cost / SF	Cost / SF	
Base Cost of Construction Estimate			Base Cost	<u>Applied</u>		Base Cost		<u>Dev. Type</u>	<u>Total</u>
Business School Class. (Low Rise 1 to 4 Stories)	\$97.78	\$	2,295,919	1.00	\$	2,295,919	\$	101.60	\$ 5.99
Energy, Engeenering and Technology School Class.(Low Rise 1 t	\$97.78	\$	1,124,125	1.00	\$	1,124,125	\$	101.60	\$ 2.93
Arts School Class. (Low Rise 1 to 4 Stories)	\$97.78	\$	902,787	1.00	\$	902,787	\$	101.60	\$ 2.35
Health and Science School Class. (Low Rise 1 to 4 Stories)	\$97.78	\$	970,450	1.00	\$	970,450	\$	101.60	\$ 2.53
Administrative Offices (Low Rise 1 to 4 Stories)	\$97.78	\$	279,126	1.00	\$	279,126	\$	101.60	\$ 0.73
Audirorium (Minimum 30,000 SF)	\$189.71	\$	2,813,234	1.00	\$	2,813,234	\$	197.11	\$ 7.34
New Library	\$97.78	\$	946,807	1.00	\$	946,807	\$	101.60	\$ 2.47
Retail Stores (Individual)	\$88.45	\$	-	1.00	\$	-		NA	\$ -
Cafeteria	\$172.02	\$	839,024	1.00	\$	839,024	\$	178.73	\$ 2.19
Greenspace (Landscaping)	\$3.23	\$	439,750	1.00	\$	439,750	\$	3.36	\$ 1.15
Hard Scape (Landscaping)	\$9.09	\$	1,096,856	1.00	\$	1,096,856	\$	9.44	\$ 2.86
Parking Decks (Over 150,000 SF Total Area / Above Grade)	\$49.41	\$	2,735,431	1.00	\$	2,735,431	\$	51.34	\$ 7.13
Parking Decks (Over 150,000 SF Total Area / Below Grade)	\$63.01	\$	-	1.00	\$	-		NA	\$ -
Base Construction Cost Estimate		\$	14,443,509		\$	14,443,509			\$ 37.66

Final Cost of Construction Estimate				
Total Base Cost of Construction Estimate	\$	14,443,509	\$ 37.66	per SF Total
Demolition, Site Work and Underground Utility Work (\$8.35 / SF of Parcel)	\$	313,826	\$ 0.82	per SF Total
Retaining Wall Along East Side of Site Enter \$0 If Not Required By Development Type ==========■	\$	-	\$ -	per SF Total
Floodplain Construction Cost Adjustment @ 4.5%	_\$	649,958		
Subotal - Hard Construction Costs	\$	15,407,293	\$ 40.18	per SF Total
Construction Project Management Fees (2.75% of Total Construction Costs)	\$	423,701	\$ 1.10	per SF Total
nitial Site Survey	\$	7,500	\$ 0.02	per SF Total
Soil Boring / Foundation Analysis	\$	57,000	\$ 0.15	per SF Total
Architectural / Engineering Fees (7.5% of Total Construction Costs)	\$	1,155,547	\$ 3.01	per SF Total
Permit Fees (According to the city's Schedule)	\$	93,175	\$ 0.24	per SF Total
Plan Review Fees (Subject to City Schedule Modification)	_\$	37,270	\$ 0.10	per SF Total
Subtotal - Soft Construction Costs	\$	1,774,192	\$ 4.63	per SF Total
Total Project Hard and Soft Construction Costs	\$	17,181,486	\$ 44.80	per SF Total
0.00%	\$	-	\$ -	per SF Total
Total Project Hard and Soft Construction Costs w/ Contingency	\$	17,181,486	\$ 44.80	per SF Total