EXHIBIT E-1

LEGAL DESCRIPTION OF SOUTHERN AREA K-8 SCHOOL LAND

[Please see the Title Report provided in <u>Exhibit E-3</u> for the Legal Description]

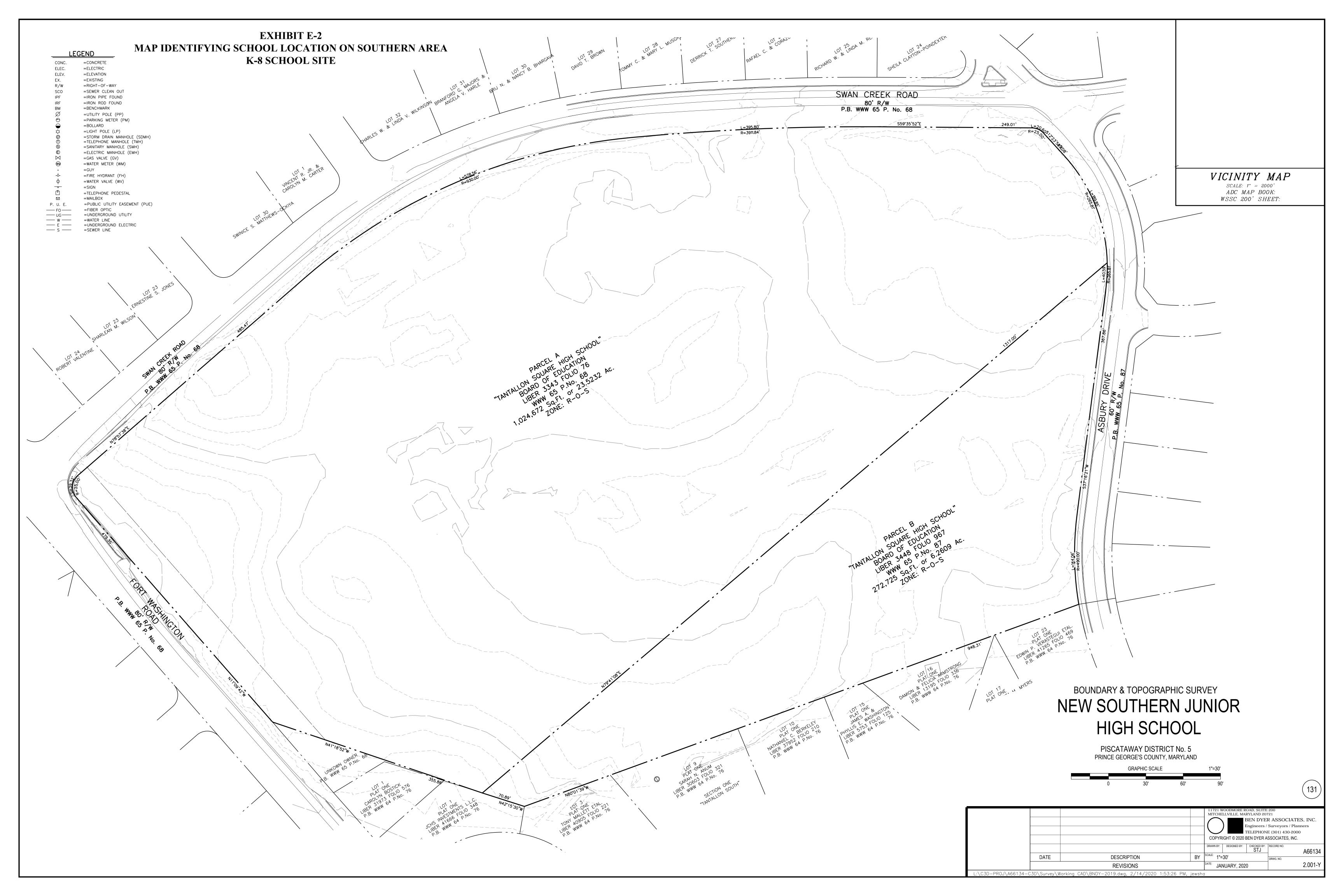


EXHIBIT E-3

TITLE REPORT FOR SOUTHERN AREA K-8 SCHOOL LAND

Property: 05-0281360 Southern

Title Vested In: Board of Education of Prince George's County, Maryland

Records Searched Thru: 10/31/2019

- 1) NUMBER OF TITLE ISSUES THAT NEED TO BE ADDRESSED: NONE
- 2) Liens: NONE

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3) Right of Ways/Easements: State of Maryland 390/52

Minimum Building Restriction Line as shown on Plat

4) Taxes for the period ending June 30, 2020, in the amount of \$0.00, are Paid.

14760 Main Street, Suite 101 • Upper Marthoro, MD 20 Main: P.O. Box 1616 • Upper Marthoro, MD 2073 Main: P.O. Box 1616 • Upper Marthoro, MD 2073 Client C.U. Title: Triss Agency Case No. PGCPS TRA Case No. 78, 18 I. Property Trist-Ray Content of the Subdivision known as, Taxtallon, 58, 08 I. Property Trist-Ray Content of the Subdivision known as, Taxtallon, 58, 08 Mew Southern Area of 2 Recorded among the Land Records of Prince George's County, Maryland. of 76 III. Subject To Truste Turust-Mortgage-PS from (Fee_) - C(ear- 10 Truste Amount \$ Securing Dated Recorded Liber Truste Amount \$ Securing Dated Re		y the second second second second	•••	·
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V. Tax Identification # 05-028/360 Abstracted By BHQ Public Records abstracted as properly indexed by the Clerk of the Court through Io/31/19				hQ

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Inis report is for the sole benefit of the above named client and is not assignable without the written consent of Title Research Associates, Inc.

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Monday, September 30, 2019

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REFUND DATE REFUND AMOUNT	0,00

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http://taxinquiry.princegeorgescountymd.gov/taxdetail.aspx

Real Property Data Search

You may experience issues today as SDAT works to restore all services. SDAT apologizes for any inconvenience the last few days, and asks for patience as we continue to work to make the site better.

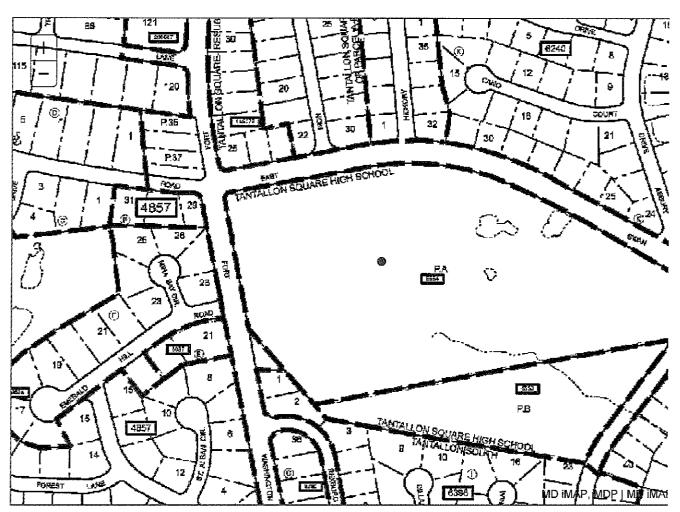
Search Result for PRINCE GEORGE'S COUNTY

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Prince George's County

New Search (https://sdat.dat.maryland.gov/RealProperty)

District: 05 Account Number: 0281360



The information shown on this map has been compiled from deed descriptions and plats and is not a property survey. The map should not be used for legal descriptions. Users noting errors are urged to notify the Maryland Department of Planning Mapping, 301 W. Preston Street, Baltimore MD 21201.

If a plat for a property is needed, contact the local Land Records office where the property is located. Plats are also available online through the Maryland State Archives at <u>www.plats.net (http://www.plats.net)</u>.

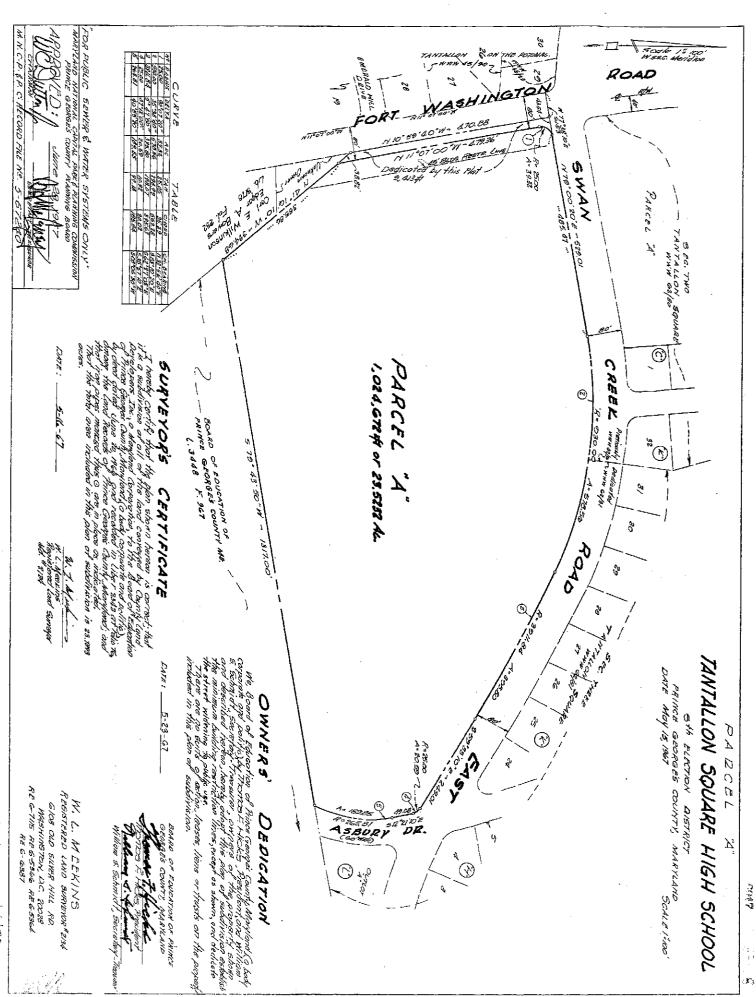
Property maps provided courtesy of the Maryland Department of Planning.

For more information on electronic mapping applications, visit the Maryland Department of Planning web site at http://planning.maryland.gov/Pages/OurProducts/OurProducts.aspx (http://planning.maryland.gov/Pages/OurProducts.aspx).

3343 76 3118-J Corporation deed in fee THIS DEED 20-Made this day of ine in the year 1966, by and between COUNTY LAND DEVELOPERS, INC., a Maryland corporation party of the first part, and BOARD OF EDUCATION OF PRINCE GEORGE'S COUNTY, MARYLAND (a body corporate and politic) party of the second part: PRINCE GEORGE'S COUNTY CIRCUIT COURT (Land Records) WWW 3343, p. 0076; MSA_CE64_3424, Data available 05/16/2008; Printed 11/14/2019. WITNESSETH, that in consideration of the sum of Ten Dollars (\$10.007 And other good and valuable considerations, the receipt of which is hereby acknowledged, the said party of the first part does grant and convey unit party of the second part, its successors and assigns, in fee simple, the second part following described land and premises, with the improvements, easements, and appurtenances thereunto belonging, situate, lying and being in Prince George's County, State of Maryland, namely: All that piece or parcel of land situate, lying and being in the Fifth Election District, Prince George's County, Maryland, and being more particularly described as follows: Being part of the land of County Land Developers, Inc., as described in a MIN conveyance recorded among the Land Records of Prince George's County, Maryland (5th Election District) in Liber 3244 at folio 187, and being more particularly ò described as follows: 0 BEGINNING for the same at an iron pipe on the division line between the land of County Land Developers, Inc. (Liber 3244, Folio 187) and the land of Carl E. Wilkinson and Edgar A. Bowers (Liber 3178, Folio 232), said iron pipe lying South 80 degrees 08 minutes 40 seconds West, 531.00 feet from a stone at the southeast corner of County Land Developers, Inc., and running thence with said division line, South 80 degrees 08 minutes 40 seconds West, 1317,00 feet 6 to an iron pipe, passing in transit a stone 766.26 feet from the end of said course, thence with the outline of County Land Developers, Inc., North 40 $\langle r_{i} \rangle$ degrees 51 minutes 20 seconds West, 394.68 feet to an iron pipe, thence with th easterly right of way line of Fort Washington Road, North 10 degrees 34 minutes 50 seconds West, 470.88 feet to an iron pipe, thence through the land of County Land Developers, Inc., North 79 degrees 25 minutes 10 seconds East, 529.01 feet to an iron pipe at a point of curvature, thence 578.56 feet along the arc of a curve to the right, having a radius of 930.00 feet and a long chord bearing and distance of South 82 degrees 45 minutes 30 seconds East, 569.28 feet to an iron pipe at a point of compound curvature, thence 395.80 feet along the arc of a curve to the right, having a radius of 3911.84 feet and a long chord bearing and distance of South 62 degrees 02 minutes 15 seconds East, 395.63 feet to an iron pipe at a point of tangency, thence South 59 degrees 08 minutes 20 seconds East, 249.01 feet to an iron pipe at a point of curvature, thence 20.59 feet along the arc of a curve to the right, having a radius of 25.00 feet and a long chord bearing and distance of South 35 degrees 32 minutes 20 seconds East, 20.02 feet to an iron pipe at a point of tangency, thence South 11 degrees 56 minutes 20 seconds East, 49.08 feet to an iron pipe at a point of curvature, thence 189.85 feet along the arc of a curve to the right, having a radius of

3343 - 2 -265.81 feet and a long chord bearing and diatance of South 08 degrees 31 minutes 20 seconds West, 185.84 feet to the point of beginning; Containing 1,034,085 square feet or 23,7393 acres. As per description made by W. L. Meekins, Registered Land Surveyor, April 5, 1966. AND the said party of the first part covenants that it will warrant specially the property hereby conveyed; and that it will execute such further assurances of said land as may be requisite. IN TESTIMONY WHEREOF, the said County Land Developers, Inc., a Maryland corporation, hath on the 20 day of <u>Jun</u>, A.D. 1966, caused these presents to be signed by <u>LESTER</u> <u>C. HAVE</u> its <u>Margland</u> presents to be signed by <u>lester</u> attested by <u>MLADO</u> (Promasra NCE GEORGE'S COUNTY CIRCUIT COURT (Land Records) WWW 3943, p. 0077, MSA, CEB4_3424. Date available 05/16/2006; Printed 11/14/2019. corporate seal to be hereunto affixed; and doth hereby appoint lesses City its Secret and its its true and lawful attorney in fact to acknowledge and deliver hese presents as its act and deed. COUNTY LAND DEVELOPERS, INC. in and the second (corpor Deve President. C. HALE CA ALL 0072 14 T. Secretary. 29 W LADD PROHASTA 65 signed, sealed and delibered in the presence of-PAL LAUL WE WUSSING 1074ADD* ROH \sim OGA. Ι. Secretary ASKA of County Land Developers, Inc., a Maryland corporation, do hereby certify that the aforegoing deed was executed in strict conformity with a resolution of the Board of Directors of the said corporation organized under the laws of Maryland passed at a duly passed at a duly called meeting of said corporation, held Well Secretary. N. LAND PASITASKA STATE OF MARYLAND COUNTY OF undersigned officer, personally appeared 2 0-day of On this the person appointed in the aforegoing instrument as attorney in fact, and as a attorney in fact and by virtue of the authority vested inhim by said instru acknowledged the same to be the act of the grantor therein for the purpose therein contained. In witness whereof I hereunto set my hand and official sealing PAR I MISS Notary Public My commission expires: July 1, 1967

3343 TRANSFERRED 78 IN 211366 The on trive had on record BY Ange Loon 1975 Mark mail to: Grantee County Land Developers, Inc., a Maryland corporation Board of Education of Prince George's County, Maryland (a body corporate and politic); REICHELT. NUSSBAUM & BROWN ١, CORPORATION DEED ρ ġ ATTORNEYS.AT.LAW 5122 UALTEMORE AVENUE HYATTSVILLE, MARYLAND 779-9000 Upper Marlboro, Md. \sim 50 C8 191 PRINCE GEORGE'S COUNTY DIRCUIT COURT (Land Records) WWW 3343, p. 0078, MSA_CE64_3424. Date available 05/16/2006. Prihted 11/14/2019. Received for record on the Day of____ Ď. -Å. 19 and the same day recorded in Liber. -3343_zi Folio, 76 No_ ..__&c one of the Land Récords of Prince George's County, Maryland W. Waverly Wicht Clerk of the Circuit Court

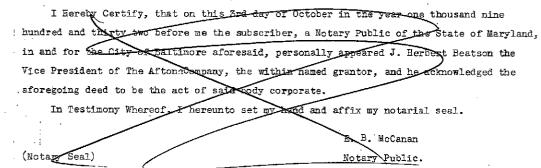


86. MSA_51250014450, Date alphable, Printed 2/1/4/2019.

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390.52

State of Maryland, City of Baltimore, to wit:



Enrolled October 6, 1932 at 1:45 P. M.

Edmund H. Graham & John Alden, Trs. Reese B. Gillespie Henrietta V. Gillespie James B. Gillespie Adolphaina H. VanderWater Jas. O. Holmes Continental Life Ins. Co.

52

to State of Md, etc. WHEREAS, the State Roads Commission of Maryland, acting for the State of Maryland, proposes to acquire the land shown on the State Roads Commission of Maryland's Plat No. 187 which is duly recorded or intended to be recorded among the Land Records of Prince George County in the State of Maryland, in order to lay out and construct, under its Contract No. P-221-811, a road, together with the appurtenances thereto belonging, as a part of the Maryland

State Roads System, and

WHEREAS the laying out of said road in addition to being required for public convenience, necessity and safety, is a material benefit to the undersigned-

NOW, THEREFORE, in consideration of the above premises, One Dollar (\$1.00) and other good valuable considerations, the receipt whereof is hereby acknowledged, we, for ourselves our heirs, successors, executors, administrators and assigns, do hereby grant and convey unto the State of Maryland, to the use of the State Roads Commission of Maryland, its successors and assigns, forever in fee simple, all our right, title and interest, free and clear of all liens and encumbrances, in and to all that land, together with the appurtenances thereto belonging or in any wise appertaining lying between the extreme outlines of the said proposed road as shown on the aforesaid plat, all of which is made a part hereof; and we, for ourselves, our heirs, successors, executors, administrators and assigns do further hold the State of Maryland and the State Roads Commission of Maryland, their members, officers, agents and employees harmless and from molestation for any purpose, matter or thing whatsoever, arising out of the taking or use as aforesaid, by the said Commission, including any change of grade or drainage!

IN WITNESS WHEREOF we have hereunto set out hands and seals this 29th day of September, in the year 1932.

John Alden, Witness as to signature of James O. Holmes W. E. Howard, Witness as to signature of James B. Gillespie (Corporate Seal)

Attest: R. E. Ankers Secy.

PRINCE GEORGES COUNTY CIRCUIT COURT (Land Records) 390, p. 0052, MSA_CE64_476. Date available 07/30/2004. Printed 11/14/2019.

Witness as to signatures of

Edmund E. Graham and John Alden, Trustees.

W. E. Howard

Rees B. Gillespie (SEAL) Henrictta C. Gillespie (SEAL) Adolphemie H. VanderWater (SEAL) James C. Holmes (SEAL) James B. Gillespie (SEAL) Continental Life Insurance Company, Inc. By H. B. Bartholomew Pres. Edmund E. Graham (SEAL)

John Alden Trustees. District of Columbia, ss:

Subscribed and sworn to before me this 23rd day of September 1932 by Rees B. Gillespie and Henrietta V. Gillespie and Adolphemie H. Vander Water.

> A. Lillian Montegue Notary Public.

53

(Notary Seal)

My Commission Expires Dec. 13, 1935.

District of Columbia, ss:

Before me, a Notary Public of the District aforesaid, personally appeared H. A. Bart_olomew, Pres. of the Continental Life Insurance Company, Inc. the above named grantor and he did acknowledged the aforegoing deed and release to be its act.

WITNESS my hand and Notarial Seal this 26th day of September in the year 1932.

(Notary Seal)

Thomas V. Lake Notary Public D. C.

My Commission expires March 15, 1937.

James C. Holmes James B. Gillespie

District of Columbia, ss:

Subscribed and sworn to before me this 26th day of September 1932.

(Notary Seal)

Edmund H. Graham Notary Public, D. C.

My Commission Expires July 18, 1934.

DISTRICT OF COLUMBIA, CITY OF WASHINGTON, TO WIT:

I HEREBY CERTIFY that before me the subscriber, a Notary Public of the District of Columbia in and for the City aforesaid personally appeared Henrietta V. Gillespie and Adolphania H. Vander Water and they acknowledged the aforegoing deed to be their deed and act.

WITNESS my hand and Notarial Seal this 29th day of September A. D. 1932.

W. Ledry Koontz Notary Public.

DISTRICT OF COLUMBIA, CITY OF WASHINGTON, TO WIT:

I HEREBY CERTIFY that before me the subscriber a Notary Public of the District of Columbia in and for the City aforesaid personally appeared James Gillespie and he acknowledged the aforegoing deed to be his deed and act.

WITNESS my hand and Notarial Seal this 29th day of September A. D. 1932.

(Notary Seal)

(Notary Seal)

PRINCE GEORGE'S COUNTY CIRCUIT COURT (Land Records) 390, p. 0053, MSA_CE64 _476. Date available 07(30/2004. Printed 11/14/2019.

W. Ledru Koontz Notary Public. DISTRICT OF COLUMBIA, CITY OF WASHINGTON, TO WIT:

I HEREEY CERTIFY that before me the subscriber a Notary Public of the District of Columbia in and for the City aforesaid personally appeared Rees B. Gillespie and he acknowledged the aforegoing deed to be his deed and act.

WITNESS my hand and Notarial Seal this 29th day of September A. D. 1932.

(Notary Seal)

W. Ledru Koontz Notary Public.

DISTRICT OF COLUMBIA, CITY OF WASHINGTON, TO WIT:

I HEREBY CERTIFY that before me the subscriber a Notary Public of the District of Columbia in and the City aforesaid personally appeared James C. Holmes and he acknowledged the aforegoing deed to be his deed and act.

WITNESS my hand and Notarial Seal this 29th day of September 1932.

: (Notary Segl)

(Notary Seal)

Salvador J. Cosimano Notary Public, D. C.

DISTRICT OF COLUMBIA, CITY OF WASHINGTON, TO WIT:

Before me, a Notary Public of the State and County aforesaid personally appeared EDMUND H. GRAHAM AND JOHN ALDEN, TRUSTEES, the above named grantors and they jointly and severally acknowledged the aforegoing deed and release to be their act.

WIINESS my hand and Notarial Seal this 29th day of ____ in the year 1932.

Salvadory. Cosimano Notary Public, D. C.

My Commission expires Aug. 31, 1937.

Enrolled October 6, 1932

Henrietta V. Gillespie Adolphania H. VanderWater Continental Life-Ins. Co Gillespie hes B State of Mc

PRINCE GEORGE'S COUNTY CIRCUIT COURT (Land Release) Sold Dor Martice CERENTION. Date available 07/30/2004. Printed 11/14/2019.

· 1032

WHEREAS the State Roads Commission of Maryland, acting for the State of Maryland, proposes to acquire the land Shown on the State Roads Commission of Maryland's Plat No. 188 which is duly recorded or intended to be recorded among the Land decords of Prince George County in the State of Maryland, in order to lay out and construct, under its

Contract No. P-221-811, a road, together with the appurtementes thereto belonging, as a part of the Maryland State Roads System, and

WHEREAS the laying out of said road in addition to being required for public convenience, necessity and safety, is a material benefit to the undersigned-

NOW, THEREFORE, in consideration of the above premises, One Pollar (\$1.00) and other good valuable considerations, the receipt whereof is hereby accowledged, iwe, for ourselves our heirs, successors, executors, administrators and assigns, do hereby grant and convey unto the State of Maryland, to the use of the State Roads Commission of Maryland, its specessors and assigns, forever in fee simple, all our right, title and interest, Free and clear of all liens and encumbrances, in and to all that land, together with the acourtenances thereto belonging or in any wise appertaining lying between the extreme outlines of the said proposed road as shown on the aforesaid plat, all of which is made a

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Title Research Associates

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Property: 05-0281766 Southern

Title Vested In: Board of Education of Prince George's County, Maryland

Records Searched Thru: 10/31/2019

- 1) NUMBER OF TITLE ISSUES THAT NEED TO BE ADDRESSED: NONE
- 2) Liens: NONE

•

3) Right of Ways/Easements:

WSSC 2784/343, 3421/698

Minimum Building Restriction Line as shown on Plat

4) Taxes for the period ending June 30, 2020, in the amount of \$0.00, are Paid.

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3. Trust-Mortgage-	FS from (Fee)				
to						, Trustees
Dated	Recorded	Libe	er	Fo	lio	
4. Equity Suits, Jud	lgements, Liens	Not RUN				
0	um Building Restr Building Ro E 3703-748	iction Line establishe				
6. Rights of Way/E	asements WISC	2784-343	. 34:	21-698		
			•	-		
·				• 	·····	
7. Covenants	None-			<u>.</u>	_	
					۹ 	· .
			<u> </u>	•	· · · · · · · · · · · · · · · · · · ·	
V. Remarks		<u> </u>				· · · · · · · · · · · · · · · · · · · ·
						· · · · · · · · · · · · · · · · · · ·
V. Tax Identificat	ion # 0.5-0	281766		A hater	ad D.	740
	I	by the Clerk of the Cour	rt throwal	Abstrac: 10[31]	ted By <u>/2</u> / 9	- DUCK
This report is for the					<u>, , , , , , , , , , , , , , , , , , , </u>	······

s report is for the sole benefit of the above named client and is not assignable without the written consent of Title Research Associates, Inc.

Sunday, September 29, 2019

Property Tax Inquiry

PRINCE GEORGE'S COUNTY REAL PROPERTY TAX INFORMATION FOR FY 20 TAX PERIOD 07/01/19 - 06/30/20 MEETS REQUIREMENTS FOR REAL PROPERTY SECTION 14-125

ACCOUNT NUMBER	R: 0281766	DISTRICT:	05	DATA A	S OF:	09/29/19 at 12:13:56	New Search
OWNER:			CARE	DF:			Help
BOARD OF EDUCA	FION						Payment History
PROPERTY ADDRE	SS:		MAILIN	G ADDRESS	;;		
000000 ASBURY DF	ł		14201 S	CHOOL LN			
FORT WASHINGTO	N MD 20744-0000		UPPER	MARLBORC	, MD 2077	72-2866	
MORTGAGE:			UNKNO				
PROPERTY DESCR	IPTION:		PARCE				
CONDO:PLAT				PHASE	BLDG	UNIT	
SUBNAME:	TANTALLON SQU	JARE H				LIBER/FOLIO:	03448/967
SECTION:						LATEST DEED:	ZZJZZZZZ
LOT:						LAND:	37,500.00
BLOCK:						IMPS:	0.00
ACREAGE:	6.260 A					ASSESSMENT:	37,500.00
OCCUPANCY:	NOT PRINCIPAL I	RESIDENCE					TANGUADOD
TAX DESCRIPTION							TAX/CHARGE:
COUNTY PROPERT	Y TAX - SUPPLEMEN		T				0.00 0.00
STATE OF MARYLA		TAL EDUCATION					0.00
PARK & PLANNING							0.00
	ESAPEAKE BAY WAT						0.00
	URBAN TRANSIT CO						0.00
TOWN LEVY							0.00
OTHER MUNICIPAL	CHARGES						0.00
FRONT FOOT	OTHICOLO						0.00
SOLID WASTE SER	VICE CHARGE						0.00
CLEAN WATER ACT							0.00
SPECIAL AREA							0.00
LIENS							0.00
OTHER TAXES/FEE	S						0.00
LESS HOMEOWNER	RS TAX CREDIT						0.00
LESS HOMESTEAD	TAX CREDIT						0.00
LESS DISCOUNT C	REDIT						0.00
TOTAL							0.00
PAYMENT RECEIVE	D					INT/PEN	0.00 0.00
REFUND DATE						REFUND AMOUNT	0.00
Account No:	0281766	FY20					

2013© Prince George's County, Maryland. All Rights Reserved.

http://taxinquiry.princegeorgescountymd.gov/taxdetail.aspx

Real Property Data Search

You may experience issues today as SDAT works to restore all services. SDAT apologizes for any inconvenience the last few days, and asks for patience as we continue to work to make the site better.

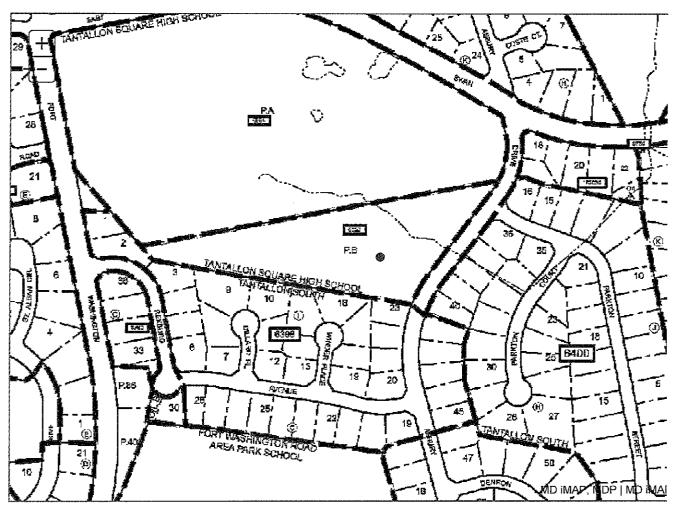
Search Result for PRINCE GEORGE'S COUNTY

View Map			View GroundRent Redemption				View GroundRent Registration					
Tax Exempt: None			Special Tax Recapt									
Exemp	t Class:	None										
Account	Identifie	er:		District -	05 Account	Numb	er - 028176	6				
							ormation	-				
Owner N				BOARD OF EDUCATION				Use: Principal Residence: Deed Reference:			EXEMPT NO	
Mailing A	\ddress:	:	14201 SCHOOL LN UPPER MARLBORO MD 20772-2866				772-2866				/03448/ 00967	
						& Struc	ture Informa					
Premises	s Addres	5S:	ASBURY DR FORT WASHINGTON 20744-0000			-0000	Legal Description:			PARCEL B		
Мар:	Grid:	Parcel:	-	jhborhood:	Subdivisi	ion:	Section:	Block:	Lot:	Assessmen Year:	t Plat No:	A-6553
0131	00F3	0000	5019	9115.17	9115					2019	Plat Ref:	
Specia	l Tax Are	eas: None					Town	-			None	
				Ad V				alorem:			None	
							Tax C	lass:	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		8	
Primaŋ	y Structi	ure Built	Abo	ve Grade Liv	ing Area	Finis	hed Basen	nent Area	-	perty Land Ar 800 AC	ea Co 901	unty Use
Stories	Base	ement	Туре	Exterior /	Quality	Full/	Half Bath	Garage	Last	Notice of Maj	or Improv	ements
				1	Va	Ine Infr	ormation					
				Base Valu		Valu		PI	1ase-in	Assessments		
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						01/0	1/2019		7/01/201		07/01/2020)
Land:				37,500		37,5	000					
Total:	ements			0 37,500		0 37,5	500	-00	7,500		37,500	
	ntial Lar	nd:		0 0		57,5	00	57	,000		}	
				•	Tran	isfer In	formation					
Seller:					Date:			•	Pr	rice:		
Type:					Deed					ed2:		
Seller:					Date:				Pr	ice:		
Туре:					Deed					eed2:		
Seller:					Date:				Pr	ice:		
Туре:					Deed					ed2:		
					Exem	nption I	nformation			· · ·		
	cempt As	ssessmer	its:	Class				07/01/20			07/01/202	
County:				440				37,500.0			37,500.00	
State:				440				37,500.0			37,500.00	
Municipa				440			P	0.00 0.00	J		0.00 0.00	
	empt: No t Class: I				Sp		ax Recapt	ure: None				
Homest-	od Ann ¹	iontia - St	nture N-		Homeste a d	Applic	ation Inform	nation				
nomeste	ao Appil	cation Sta	atus: No	Application	owners' Tax	O and 12	Application	Inform-1"-				

Prince George's County

New Search (https://sdat.dat.maryland.gov/RealProperty)



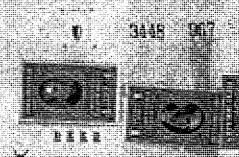


The information shown on this map has been compiled from deed descriptions and plats and is not a property survey. The map should not be used for legal descriptions. Users noting errors are urged to notify the Maryland Department of Planning Mapping, 301 W. Preston Street, Baltimore MD 21201.

If a plat for a property is needed, contact the local Land Records office where the property is located. Plats are also available online through the Maryland State Archives at <u>www.plats.net (http://www.plats.net)</u>.

Property maps provided courtesy of the Maryland Department of Planning.

For more information on electronic mapping applications, visit the Maryland Department of Planning web site at http://planning.maryland.gov/Pages/OurProducts/OurProducts.aspx (http://planning.maryland.gov/Pages/OurProducts/OurProducts.aspx).



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Apartina Angerinan distriction Asia a Maari dia ang Asiapanginan Isla it. I. Asiapanginan Isla it. I.

Made this 22⁻⁴ day of Pebruary, 1967, by and between GAW. S. WILKINGON and EDIAL A. MANERS, JOINT TRAINTS WITH RIGHT OF NUMPITORSHIP, Training for Yilong Land Joint Tepture, Paralesof the First Park, and

MITALNEET, that is then identices of the sum of the bolism (\$10.00) and other good and valuable canelestations, the receipt of which is hereby acknowledged, the said Farties of the First Fart do grant and convey units the Furty of the Second Fart, its subtransfer and needens, in far simple, the following described land and providents, with the improvements, essenties and apportenences thereasts belonging, situate, tying and bring is Frints Heurge's Gauger, Nucle of Maryland manaly:-

All that place or percel of land situate, lying and being in the Fiscatarry Elstrick, Frince Secrets & County, Maryland, and being more particularly described as follows:-

Billis a part of Parcel was of the lands occrayed by else thr., to Carl E. Vilstness and Eigar I. Henry. Joint Femants. by deed dated July 19, 1965 and recorded buly 25, 1965 assoc the Land Records of Frikes Gaurge's Nemmer, Maryland, Le sider 1175 at Follo Dis and being more particularly insertion as fellows.

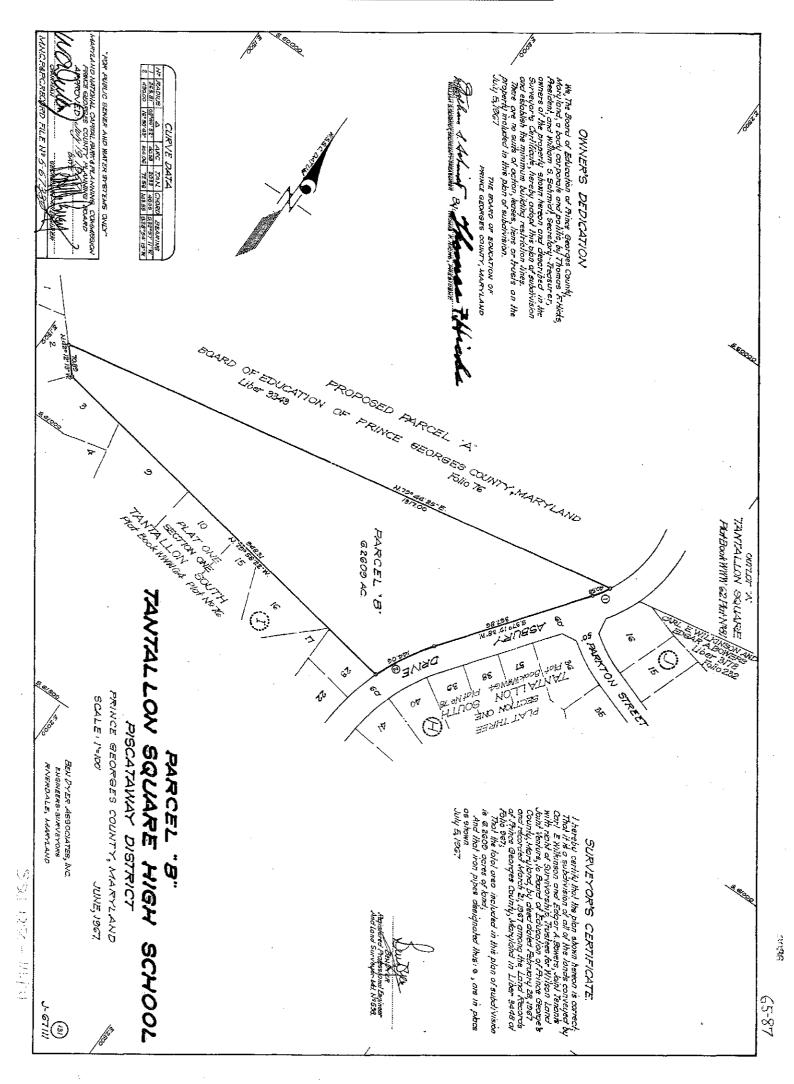
Shiirring for the same at an irac bar (found) marking the the end of the find of forth at ingress 12 minutes 11 monoid Mart if- of fast that at the effermal f Ferrer dow, and rathing then with pers of the bits or Borth to degrees the endities at meaning part of the bits or Borth to degrees the endities at meaning part of the first line of said furth, one

A. Maria Tradetroom is minutes Tradetroom is and SIT of feet to a paint in the westary lies with the provise feet of the start with westary westarily line slong the site of a curve definition to the right whit purch invite a curve definition to the right whit purch invite a curve definition to the right whit purch invite a curve definition to the right whit purch invite a curve definition to the right whit purch invite a curve definition to the right white purch invite a curve definition to the right of the curve invite the result of the line of the right of the curve is the right of the right to the right of the curve is the right of the right of the right of degrees 170 with the line rule has the right.

3448968 An arc distance of 40.58 feet to a point of tangency; thence continuing with said westerly 2. line 5. South 37 degrees 19 minutes 38 seconds West 367.86 feet to a point of curvature; and along the arc of a curve deflecting to the left, said curve having a radius of 490.00 feet and a long chord bearing and distance of South 28 degrees 54 minutes 15 seconds West 143.55 feet. 4. An arc distance of 144.06 feet to a point: thence leaving said proposed westerly line and crossing the lands of Carl E. Wilkinson and Edgar A. Bowers. PRINCE GEORGE'S COUNTY CIRCUIT COURT (Land Records) WWW 3448, p. 0968, MSA_CE84_3529, Date available 05/16/2006, Printed 11/14/2019. 5. North 79 degrees 58 minutes 22 seconds West 948.31 feet to a point; and 6. North 42 degrees 12 minutes 13 seconds West 70,89 feet to the place of beginning, containing 272,727 square feet or 6.2609 acres of land. AND the said Parties of the First Part covenant that they will warrant specially the property hereby conveyed; and that they will execute such further assurances of said land as may be requisite. WITNESS, their Hands and Seals the day and year first hereinbefore written. WITNESS :-Margaret S. (as inat Seal Edgar/ Rover STATE OF MARYLAND COUNTY OF PRINCE GEORGE'S 88, . . I, Margaret S. Owens, a Notary Public in and for the State and County aforesaid, do hereby certify that Carl E. Wilkinson and Edgar A. Bowers, Parties to a certain Deed bear-ing date on the 28⁻² day of February, 1967, and herete annexed, personally appeared before me in said State and County, the said Parties being personally well known to me (or satisfactor-ily proven) to be the persons who executed the said Deed and acknowledged the same to be their act and dewd. DE BLASIS & KAHLER GIVEN under my Hand and Seal this the star of February, 3731 BRANCH AVE. . . 1967. A SUITE SOL SOUTHERN MARYLAND BANK & TRUST CO. BLDG Notars Bonble My Constarion Expires: 7-1-67 Margarel Sullevens WASHINGTON 23, D. C. 423-7100 2

្ស 3448 969 Mail to: Grantee and the complex recorded in Liber 10^{-3} / $\frac{3}{2}$ at 1 allo, $\frac{96}{2}$ as of Prince George's County, Maryland one of the LAND Records Cay of the same Proceived for record on the BOARD OF EDUCATION OF PRINCE GEORGE'S COUNTY, MARYLAND, (a body corporate and politic) VENTURE CARL E. WILKINSON AND EDGAR A. BOWERS, JOINT TENANTS WITH RIGHT OF SURVIVOR-SHIP, TRUSTEES FOR WILSON LAND JOINT W. Wanderly Wille REICHELT, NUSSBAUM & BROWN Clerk of the Cheak Court Upper Marlboro, Maryland 5122 BALTIMORE AVENUE HVATTSVILLE, MARYLAND 779-9000 Ĵ. ATTORNEYS-AT-LAW TO pracy___A. D. - 1967 -200 50 50 PRINCE GEORGE'S COUNTY-CIRCUIT COURT (Land Records) WWW 3448, p. 0966, MSA_CE64_3529. Date available 05/16/2006: Printed 14/14/2019. . ر بر میں 9 Jaxes levied and on record as of this date TRANSFERRED MAR 21, 1967 have been paid St.) CHARLES E. CALLOW, Trees. MAR 21 1967 EX 2484. TRANSE OFFICE 10

CE GEORGE'S COUNTY CIRCUIT COURT



- LINER 2784 PAGE 343 This Right of Way

Made this S 23rd of our Lord one thousand nine hundred and

of the Country of WASHINGTON

PRINCE GEORGE'S COUNTY CIRCUIT COURT (Land Records) WWW 2764, p. 0343, MSA_CE64_2673. Date available 09/07/2005. Printed 11/14/2019.

day of January

sixty-three

in the year

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en Co

, by and between

IRVING S. LICHTMAN, ALBERT D. MISLER AND XMARKEN XX KEN XXXX

Joint Tenants,

DISTRICT OF

COLUMBIA , part ies in the State of of the first part, and the WASHINGTON SUBURBAN SANITARY COMMISSION, a public corporation of the State of Maryland, organized and existing under the laws of said State, party of the second part.

Witnesseth: That in consideration of the sum of One Dollar (\$1.00) to them in hand paid by the party of the second part, the receipt of which is hereby acknowledged, the said part ies of the first part do hereby grant and convey unto the said party of the second part, its successors and assigns, the easement and right of way hereinafter described for the installation, construction, reconstruction, maintenance, repair, operation and inspection of a fire hydrant and appurtenances _____

----- within said easement and right of way, together with the right of ingress and egress along and over said right of way, for any and all of such purposes; the said right of way and easement being described as follows:

Being a strip or parcel of land six (6) feet wide, hereinafter described, in, through, over and across the property of the first parties hereto, obtained from The Old Fort Co. by deed dated March 9, 1960 and recorded among the Land Records of Prince George's County, Maryland, in Liber 2448 at Folio 222.

The said six (6) feet wide strip or parcel of land lying north of and adjacent, contiguous and parallel to the north line of Old Fort Road, thirty (30) feet wide as now laid out and existing, and extending from a point 165.00 feet west of the sixteenth or South 13° 45' 34" East, 27.37 foot line of the aforesaid deed westerly a distance of 12.00 feet, containing 72.00 square feet or 0.0017 acres.

line Line **3**0. ró ÷. 33 Wach. Sut. San. Com Hor7 Xlamillo Ich. 19.1963

USER 2784 MEE 344

To Have and to Hold said easement and right of way for a fire hydrant and appurtenances ______ above described or mentioned and hereby intended to be granted and conveyed, together with the rights, privileges, appurtenances and advantages thereto belonging or appertaining, unto and to the only proper use, benefit and behoof forever of the said Washington Suburban Sanitary Commission, its successors and assigns.

And the parties of the first part, for themselves, their heirs and assigns, covenant and agree with the party of the second part, its successors and assigns, as follows: FIRST: that they will obtain the consent of the Commission before they erect or permit to be erected any building or structure, or before they fill or excavate within the above described easement and right of way. SECOND: that the party of the second part, its successors and assigns, shall at all

times have right of ingress and egress over said easement and right of way for the purpose of installing, constructing, reconstructing, maintaining, repairing, operating and inspecting the fire hydrant and appurtenances -----Mill Mill ----- within said easement and right of way, said ingress and egress to be along the line herein designated and along such other lines as the 1010 parties of the first part may designate. THIRD: that they will warrant specially said easement and right of way and will execute such further assurances thereof as may be requisite. Witness THEIR HANDS AND SEALS the day and year first hereinabove written. Attest: EAL . Wood (SEAL) bath (SEAL) (SEAL) SEAL) (SEAL) COLUMBIA RIGT 23es JANMARY On this the day of , 19 63, before me, CAROL BRADLEY the undersigned officer, personally appeared IRVING S. LICHTMAN, ALBERT D. MISLER MELINANYON AVAILANTON known to me (or satisfactorily proven) to be the persons whose names are subscribed to the within instrument and acknowledged that they have executed the same for the purposed therein contained. In Muness Whereof, I hereunto set my hand and official seal. Votary Public prires (feril 14, 1963 Commi STATE OF SS COUNTY OF On this the , 19 day of , before me. , the undersigned officer, personally appeared known to me (or satisfactorily proven) to be the person whose name subscribed to the within instrument and acknowledged that executed the same for the purposes therein contained. In Witness Whereof, I hereunto set my hand and official seal. Notary Public My Commission expires

PRINCE GEORGE'S COUNTY CIRCUIT COURT (Land Records) WWW 2784, p. 0345, MSA_CE64_2873. Date available 09/07/2006. Printed 11/14/2019.

	7.50	Dec 15 1 14 PH '66	
	füll	3421 698	
	(1) fall	This Right of Way	2 - 1 - 1 - 1
	.G.D.	Made this Stoth day of Cotaber in the second	· · ·
	0.K.0T.P.5.0.	of our Lord one thousand nine hundred and sixty-six , by and between	
	ы Сі Сі	CARL E. WILKINSON and EDGAR A. BOWERS, Joint Tenants	
	1 1 1 1		2
	ALDE-15-56 PAID	of the County of neucon Decrys in the State of Manyfand , part ies of the first part, and the WASHINGTON SUBURBAN SANITARY COMMISSION. a public corporation of the State of Maryland, organized and existing under the laws of said State, party of the second part.	
4/2019.	ST-JJJ	Wilnesseth: That in consideration of the sum of One Dollar (§1.00) to them in hand paid by the party of the second part, the receipt of which is hereby acknowledged, the said part ies of the first part do hereby grant and convey unto the said party of the second part, its successors and assigns, the easement and right of way hereinafter described for the installation, construction, reconstruction, maintenance, repair, operation and inspection of one or more sanitary sewers and appurtenances thereto, including service connections	
tied 11/1		and right of way, together with the right of ingress and egress along and over said right of way, for any and all of such purposes; the said right of way and easement being described as follows:	
3502. Date available 05/16/2006. Printed 11/14/2019.		Being three (3) strips or parcels of land, one (1) strip or parcel of land forty-five (45) feet wide, fifteen (15) feet east of, and thirty (30) feet west of the base line hereinafter described in PART I, one (1) strip or parcel of Land forty (40) feet wide, twenty-five (25) feet east of, and fifteen (15) feet west of the base line hereinafter described in PART II, and one (1) strip or parcel of land hereinafter described in PART III, in, through, over and across the property of the parties of the first part acquired from Disc, Inc., by deed dated July 10, 1965 and recorded among the Land Records of Prince George's County, Maryland in Liber 3178 at Folio 232.	
2. Daté		PART I:	See 2
	- 1	Beginning for the said base line of the said forty-five (45) foot wide strip or parcel of land at a point on the thirty-second or North 72° 48' 24" East, 1551.22 foot line of the aforesaid deed, said point being 54.43 feet northeasterly from a monument found at the beginning thereof, and running thence	
PRINCE GEORGE'S COUNTY CIRCUIT COURT (Land Records) WWW 3421, p. 0698, MSA_CE63		 47.42 feet along the arc of a curve to the right having a radius of 215.00 feet and a long chord bearing and distance of South 09° 10' 15" West, true, 47.42 feet to a point of tangency, thence South 15° 30' 09" West, true, 205.42 feet to a point of curvature, thence 99.69 feet along the arc of a curve to the left having a radius of 215.00 feet and a long chord bearing and distance of South 02° 13' 09" West, true, 98.80 feet to a point of tangency, thence South 11° 03' 51" East, true, 835.11 feet to a point of curvature, thence 52.10 feet along the arc of a curve to the right having a radius of 435.00 feet and a long chord bearing and distance of South 07° 38' 00", East true, 52.07 feet to a point of tangency, thence South 04° 12' 08" East, true, 510.37 feet to a point of curvature, thence 45.92 feet along the arc of a curve to the right having a radius of 215.00 feet and a long chord bearing and distance of South 01° 55' 00" West, true, 45.84 feet to a point of tangency, thence South 08° 02' 09" West, true, 911.22 feet to a point; containing 121,826.25 sq. feet or 2.7967 acres. 	
ultroc		PART II: Beginning for the said base line of the said forty (40) feet wide strip	
NTY CIRC		or parcel of land at a point on the thirteenth or South 74° 11' 50" West, 268.48 foot line of the aforesaid deed, said point being 15.01 feet easterly from the end thereof, and running thence	
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North 12° 02' 35" West, true, 333.21 feet to a point, thence North 15° 25' 35" West, true, 65.87 feet to a point; containing 15,963.20 square feet or 0.3665.acres.

PART III:

PRINCE GEORGE'S COUNTY CIRCUIT COURT (Land Records) WWW 3421, p. 0699, MSA_CE64_3502. Date available 05/16/2006. Printed 11/14/2019.

Beginning for the said strip or parcel of land at a point at the northwesterly corner of the forty (40) feet wide strip or parcel of land described above in PART II, said point being 64.94 feet southeasterly from the end of the fifteenth or North 15° 27' 25" West, 130.30 foot line of the aforesaid deed, thence with and along said fifteenth deed line North 15° 25' 35" West, true, 54.94 feet to the end thereof, thence running with and along the sixteenth or North 39° 26' 35" East, 109.00 foot deed line North 39° 28' 25" East, true, 109.00 feet to the end thereof, thence running with and along the seventeenth or North 15° 21' 35" East, 74.50 foot deed line North 15° 23' 25" East, true, 74.60 feet to the end thereof, thence running with and along the eighteenth or North 05° 45' 25" West, 172.10 foot deed line North 05° 44' 35" West, true, 172.10 feet to the end thereof, thence running with and along the nineteenth or North 11° 13' 25" West, 140.50 foot deed line North 11° 11' 35" West, true, 140.50 feet to the end thereof, thence running with and along the twentieth or North 09° 33' 55" East, 3.67 foot deed line North 09° 35' 45" East, true, 3.57 feet to a stone found at the end thereof, thence running with and along a portion of the twenty-first or North 57° 18' 10" West, 3776.91 foot deed line North 57° 16" 20" West, true, 1359.56 feet to a point, thence running through said property North 24° 16' 20" West, true, 36.69 feet to a point, thence North 08° 02' 09" East, true, 18.69 feet to a point at the southwest end of the forty-five (45) feet wide strip or parcel of land described above in PART I, and running thence with and along the southerly end of said forty-five (45) feet wide right of way forty-five (45) feet wide right of way South 81° 57' 51" East, true, 45.00 feet to the end thereof, thence leaving South 03' 02' 09" West, true, 5.66 feet to a point, thence South 24° 16' 20" East, true, 19.51 feet to a point, thence South 57° 16' 20" East, true, 1330.85 feet to a point of curvature, thence 125.85 feet along the arc of a curve to the right having a radius of 135.00 feet and a long chord bearing and distance of South 30° 34' 00" East, true, 121.34 feet to a point of tangency, thence South 03° 51' 41" East, true, 199.08 feet to a point of curvature, thence 185.30 feet along the arc of a curve to the right having a radius of 245.00 feet and a long chord bearing and distance of South 17° 48' 22" West, true, 180.92 feet to a point of tangency, thence
South 39° 28' 25" West, true, 7.97 feet to a point of curvature, thence 81.45 feet along the arc of a curve to the left having a radius of 85.00 feet and a long chord bearing and distance of South 12° D1' 25" West true, 78.37 feet to a point at the northeasterly corner of the aforesaid forty (40) feet wide strip or parcel of land described above in PART II, and running thence with and along the northerly end of said forty (40) feet wide right of way South 74° 34* 25" West, true, 40.00 feet to the point of beginning; containing 84,133.71 square feet or 1.9314 acres. To Have and to Hold said easement and right of way for one or more sanitary / connections sewers and appurtenances thereto, including service above described or mentioned and hereby intended to be granted and conveyed, together with the rights, privileges, appurtenances and advantages thereto belonging or appertaining, unto and to the only proper use, benefit and behoof forever of the said Washington Suburban Sanitary Commission, its successors and assigns.

And the part ies of the first part, for themselves, their heirs and assigns, covenant and agree with the party of the second part, its successors and assigns, as follows: FIRST: that they will obtain the written consent of the Commission before

3421 700 or permit to be erected any building or structure, or before they erect they fill within the above described easement and right of way. SECOND: that the party of the excavate second part, its successors and assigns, shall at all times have right of ingress and egress over said easement and right of way for the purpose of installing, constructing, reconstructing, maintaining, repairing, operating and inspecting the one or more sanitary sewers and appurtenances . thereto, including service connections ------------within said easement and right of way, said ingress and egress to be along the line herein designated and along such other lines as the part ies of the first part may designate. THIRD: that other lines as the part 10s of the first part may designate. THIRD: that they will warrant specially said easement and right of way and will execute such further assurances thereof as may be requisite. **Witness** THEIR HANDS AND SEALS the day and year first hereinabove written. Witness SEAL) (SEAL) Wilson Bowers (SEAL) -----(SEAL) __(SEAL) (SEAL) ____(\$EAL) (SEAL) STATE OF Ma COUNTY OF THE Geo 001 On this the day of , 19 💪 , before me, , the undersigned officer, personally appeared CARL E. WILKINSON and EDGAR A. BOWERS, Joint Tenants known to me (or satisfactorily proven) to be the person s whose name s are subscribed to the within executed the same for the purposes therein instrument and acknowledged that they have contained. In Witness Whereof, I hereunto set my hand and official seal. Robert T. Wilson Notary Public My Commission expires 7-1-67 STATE OF COUNTY OF : 55 On this the day of , 19 before me, , the undersigned officer, personally appeared known to me (or satisfactorily proven) to be the person whose name subscribed to the within instrument and acknowledged that executed the same for the purposes therein contained. In Witness Whereof, I hereuntn set my hand and official seal. Notary Public My Commission expires

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ECS Mid-Atlantic, LLC

Preliminary Geotechnical Engineering Report

PGCPS New Southern Area K-8

Plat A05-6553 & A05-6554 Swan Creek Rd E and Fort Washington Rd Fort Washington, Prince George's County, Maryland 20744

ECS Project Number 01:29586-E

December 18, 2019



"Setting the Standard for Service"



Geotechnical • Construction Materials • Environmental • Facilities

December 18, 2019

Ms. Cassia Sookhoo Vice President JLL Public Institutions 2020 K Street, NW, #1100 Washington, DC 20006

ECS Project No. 01:29586-E

Reference: Preliminary Geotechnical Engineering Report **PGCPS – New Southern Area K-8** Plat A05-6553 & A05-6554 Intersection Swan Creek Rd E and Fort Washington Fort Washington, Prince George's County, Maryland 20744

Dear Ms. Sookhoo:

ECS Mid-Atlantic, LLC (ECS) has completed the preliminary subsurface exploration, laboratory testing, and geotechnical engineering analyses for the above-referenced project. Our services were performed in general accordance with our Proposal No. 01:60361-GPR, dated September 9, 2019. This preliminary report presents our understanding of the geotechnical aspects of the project along with the results of the field exploration and laboratory testing conducted, and our preliminary design and construction recommendations. We understand that the information herein will be provided as part of a bid package for selection of the development team.

It has been our pleasure to be of service to Jones Lang LaSalle (JLL) and Prince George's County Public Schools (PGCPS) during the bid phase of this project. We would appreciate the opportunity to remain involved during the continuation of the design phase as well to verify the assumptions of subsurface conditions made for this preliminary report. Should you have any questions concerning the information contained in this report, or if we can be of further assistance to you, please contact us.

Respectfully submitted,

ECS Mid-Atlantic, LLC

Femi Akinola Project Engineer

Paul D. Agutter, PE Principal Engineer



Professional Certification. I hereby certify that these documents were prepared or approved by me and that I am a duly licensed professional engineer under the laws of the State of Maryland

License No 52446 Expiration Date 3 25 2020

Carol L. Hawk, PE Geotechnical Department Manager

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APPENDICES

Appendix A – Drawings & Reports

- Site Location Diagram
- Boring Location Diagram

Appendix B – Field Operations

- Reference Notes for Boring Logs
- Boring Logs B-1 through B-4

Appendix C – Laboratory Testing

- Laboratory Test Results Summary
- Plasticity Chart
- Grain Size Analysis
- CBR Test Result

Appendix D – Supplemental Report Documents

- Zone of Influence Diagram
- French Drain Installation Procedure

EXECUTIVE SUMMARY

The following summarizes the main findings of the preliminary subsurface exploration, particularly those that may have a cost impact on the planned development. Further, our preliminary foundation recommendations are summarized and could potentially be used as a data report for final geotechnical design. ECS understands that the selected development team will perform additional subsurface explorations as necessary for completing final design. Information gleaned from the executive summary should not be utilized in lieu of reading the entire geotechnical report.

The preliminary geotechnical exploration consisted of four soil borings drilled to depths of 30 feet below existing ground surface (fbgs). The surface material generally consisted of up to 2 feet of topsoil. Beneath the surface material, one basic soil stratum – Stratum I was encountered within the borings. The subsurface conditions consisted of Terrace Deposits consistent with the local geology characterized by loose to medium dense SILTY SAND, SAND WITH CLAY, CLAYEY SAND, and firm to hard SANDY LEAN CLAY, LEAN CLAY, LEAN CLAY WITH SAND, and LEAN CLAY WITH SILT AND SAND.

Based on the encountered soils, the proposed two to four story school building can be supported by conventional shallow foundations consisting of column or strip footings bearing on natural soils with a net allowable bearing capacity of 4,000 psf. Details of the assumed foundation subgrade elevations and loads are contained in the body of the report. The foundations may also be supported on engineered fill that is placed and compacted in accordance with the recommendations provided in this report; allowable bearing pressure for engineered fill is 4,000 psf. The natural materials found are generally suitable for the support of the proposed construction. The natural Stratum I soils encountered during the preliminary subsurface exploration are generally considered suitable for re-use as Structural Fill.

Lastly, we recommend that if there are any changes to the project characteristics as outlined in this preliminary report, ECS is to be retained to review the plans and determine if modifications to the recommendations or if additional geotechnical recommendations are necessary for the proposed development.

1.0 INTRODUCTION

1.1 GENERAL

The purpose of this study was to provide an oversight of general subsurface conditions and preliminary geotechnical information for the design of a new school building at the subject site. The final configuration, location, and size of the building and associated site features will be determined by the development team during final design. ECS understands in general that the school will have between 2 to 4 above-grade stories, no below grade levels, and associated parking, driveways, and playing fields.

The preliminary recommendations developed for this report are based on project information supplied by JLL and PGCPS. This report contains the results of our subsurface explorations and laboratory testing programs, site characterization, engineering analyses, and preliminary recommendations for the design and construction of the proposed structures. Additional subsurface exploration and engineering analyses will be required for final design.

1.2 SCOPE OF SERVICES

To obtain the necessary geotechnical information required for preliminary design of the new school, four soil test borings were performed at locations selected by ECS and approved by PGCPS. These borings were located in accessible areas of the subject site within general areas available for development. A laboratory-testing program was also implemented to characterize the physical and engineering properties of the encountered subsurface soils.

This report discusses our exploratory and testing procedures, presents our findings and evaluations and includes the following.

- A brief review and description of our field and laboratory test procedures and the results of testing conducted.
- A review of surface topographical features and site conditions.
- A review of area and site geologic conditions.
- Final copies of our soil boring logs.
- A review of subsurface conditions and suitability of the encountered soils to support foundations, slabs on grade, and pavements. Suitability of the soil to be re-used as Structural Fill.
- Recommended preliminary allowable bearing capacity for shallow foundations.
- Results of California Bearing Ratio value (CBR) test and other geotechnical parameters required for preliminary design of pavements by others.
- Guideline recommendations for temporary and long-term groundwater control, if necessary.
- Seismic site classification.
- Subgrade preparation and backfill compaction.

1.3 AUTHORIZATION

Our services were provided in accordance with our revised proposal dated September 9, 2019, as authorized by JLL in accordance with Purchase Order 700561 dated October 31, 2019 and Modification #1 dated November 13, 2019.

2.0 PROJECT INFORMATION

2.1 PROJECT LOCATION

The overall project site is located to the southeast corner of the intersection between Swan Creek East and Fort Washington Road. The site is bound to the north by Swan Creek Road East, to the west by Fort Washington Road, to the east by Asbury Drive, and to the south by residential homes and Rexburg Avenue.



Figure 2.1.1 Site Location

2.2 CURRENT SITE CONDITIONS

The site is currently wooded consisting of mature trees. It appears there are shallow "wetlands" at the northeast and southeast sides of the site; however, the wetland and natural resources delineation mapping had not yet been completed at the time this report was prepared, and notes of wetland areas are based on basic preliminary site observations. A wetland and natural resources survey is underway and results will be reported under separate cover. A stream also cuts across from the southeast side, along Asbury Drive back to the middle of the site. From our review of online aerials, the site has remained undeveloped as far back as 1957.

Based on publicly available topographic maps and existing site drawings provided by PGCPS, the existing ground surface across the site varies generally from a high of EL +58 ft down to a low elevation of EL +39 ft. The ground surface elevation is generally undulating.

2.3 PROPOSED CONSTRUCTION

ECS understands that PGCPS is establishing a public/private partnership to design, construct and maintain new school buildings to replace or expand existing school capacity. PGCPS has provided guidance as to the anticipated school enrollment, estimated square footage, and required programming for each school. This information plus this preliminary geotechnical report will be used by the solicited development teams for the development of three alternative conceptual site plans per site. At the time this report was written, detailed information on the proposed building materials, foundation loads, building footprint, and construction methods were not available.

Depending on the proposed footprint of the new building, the school structures will have a minimum of 2 and a maximum of 4 above grade stories. No basement or below grade levels are anticipated at this stage. The preliminary estimated square footage is approximately 242,000 sf depending on school programming needs for a combined elementary and middle school facility with shared custodial, health, and media spaces. Preliminary building loads were not provided at this time; however we have made assumptions based on experience of similar type and size building.

2.3.1 Site Civil Features

Details regarding proposed site features were not available at the time that this preliminary report was prepared. However, ECS anticipates that the following will be included in the final design at a minimum:

- Access drives, parking lots, and paved walkways;
- Athletic fields and/or play areas;
- Stormwater management features;
- Cuts and fills on the order of 5 feet or less; and,
- Utilities.

2.3.2 Structural Information/Loads

The following table provides a summary of our understanding of the proposed structures and preliminary anticipated maximum foundation loads:

SUBJECT	DESIGN INFORMATION / EXPECTATIONS		
Building Footprint	Approximately 242,000 square feet in plan view		
# of Stories	2 - 4 stories above grade; no basement levels		
Column Loads	800 kips maximum (Full Dead and Factored Live)		
Wall Loads	8 kips per linear foot (klf) maximum		

Table 2.3.2.1 Design Values

3.0 FIELD EXPLORATION

3.1 FIELD EXPLORATION PROGRAM

The field exploration was planned with the objective of characterizing the project site in general geotechnical and geological terms to assist in the development of preliminary site plans and future subsurface exploration needs.

3.1.1 Test Borings

The subsurface conditions were explored by drilling four soil test borings. Depending on boring location accessibility, a track-mounted drill rig was utilized to drill the soil test borings. Borings were generally advanced to depths of 30 feet below the current ground surface. Subsurface explorations were completed under the general supervision of an ECS geotechnical engineer or geologist.

Boring locations were identified in the field by ECS personnel using GPS techniques prior to mobilization of our drilling equipment. A representative of PGCPS accompanied ECS to lay out the borings and select final drilling locations. The approximate as-drilled boring locations are shown on the Boring Location Diagram in Appendix A. Ground surface elevations are interpolated from online aerials and are to be considered accurate to the nearest foot.

Standard penetration tests (SPTs) were conducted in the borings at regular intervals in general accordance with ASTM D 1586. Small representative samples were obtained during these tests and were used to classify the soils encountered. The standard penetration resistances obtained provide a general indication of soil shear strength and compressibility. Bulk samples taken from the upper 0 to 5 feet of subsurface soils at two boring locations were obtained for subsequent laboratory testing.

3.2 REGIONAL/SITE GEOLOGY

The proposed site is located in the Atlantic Coastal Plains Physiographic Province of Maryland. This Coastal Plain Province is characterized by a series of south-easterly dipping layers of relatively consolidated sandy clay deposits, with lesser amounts of gravel. These Coastal Plain deposits are estimated to be approximately 250 feet thick and are underlain by the eastward continuation of the crystalline rock of the Piedmont Physiographic Province.

Locally, the higher elevations of the general site area have often retained few remnants of the Quaternary Age River Terrace deposits. These river deposits are typified by bedded to inter-bedded accumulations of gravel, sand, silt and clay that often pinch and lens rapidly in both the vertical and horizontal plain. These Quaternary Age Deposits are typically underlain, by the Potomac Group sediments of the older Cretaceous Age.

Cretaceous Age Potomac Group deposits generally consist of inter-bedded, discontinuous, sand and clay layers that generally slope to the southeast at roughly 50 to 80 feet per mile or approximately 0.5 to 0.8 degrees. The sand layers generally consist of bedded fine to medium sand with variable amounts of clay and silt making up portions of the overall soil matrix. In isolated areas, gravel can

also be encountered. The clay layers of the Potomac Group are commonly referred to as "marine clay", although it is generally believed that they were deposited in a deltaic environment. These very stiff to hard clays are often moderately to highly over consolidated and have a blocky structure.

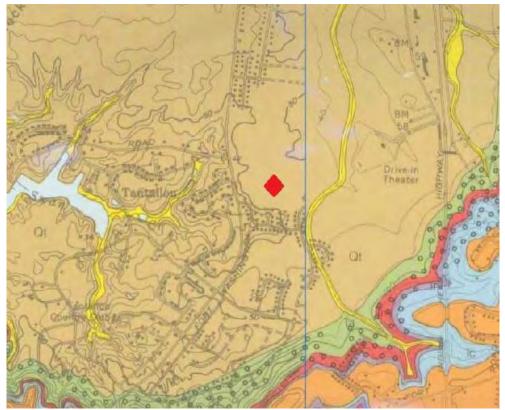


Figure 3.2.1 Geologic map for Figure 3.2.1 obtained from the U.S. Geologic Service website, <u>https://ngmdb.usgs.gov/mapview/</u>

3.3 SUBSURFACE CHARACTERIZATION

The subsurface conditions encountered were generally consistent with published geological mapping. Up to 0 ft to 2 ft of topsoil was encountered across the site. The following sections provide generalized characterizations of the soil and rock strata encountered during our subsurface exploration. For subsurface information at a specific location, refer to the Boring Logs in Appendix B.

Approximate	Elevation	Stratum	Description	Ranges of
Depth Range (ft)	(ft)			SPT ⁽¹⁾ N-values (bpf)
0-2 ft	EL +51 - 49	Topsoil	Topsoil thickness of 2 feet was generally observed.	3 - 14
(Surface cover)			(Boring B-1 through B-4)	
2 -30	EL +51 - 17	I– Terrace	Loose to medium dense SILTY SAND, SAND WITH	5 to 37
		Deposits	CLAY, CLAYEY SAND, and firm to hard SANDY LEAN	
			CLAY, LEAN CLAY, LEAN CLAY WITH SAND, LEAN CLAY	
			WITH SILT AND SAND	
			(Boring B-1 through B-4)	

Table 3.3.1 Subsurface Stratigraphy

Notes: (1) Standard Penetration Test

3.4 GROUNDWATER OBSERVATIONS

Water levels were measured in our borings as noted on the soil boring logs in Appendix B. Groundwater depths measured at the time of drilling ranged from 20 to 28 feet below ground surface, between EL +23 to EL +28 ft. In boring B-2, the measured water level after the auger casing was removed was EL +40 ft (10.5 fbgs). This higher elevation may indicate some perched water tables. We also observed borehole caving at depths of 24 ft to 26 ft, which may be an indicator of groundwater presence.

Variations in the long-term water table of up to 5 ft may occur as a result of changes in precipitation, evaporation, surface water runoff, construction activities, and other factors. Based upon our interpretation of the boring data, we recommend a design groundwater level of approximately EL +28 ft. Long-term groundwater levels should be evaluated during the final geotechnical exploration.

4.0 LABORATORY TESTING

The laboratory testing performed by ECS for this project consisted of selected tests performed on samples obtained during our field exploration operations. The following paragraphs briefly discuss the results of the completed laboratory testing program. Classification and index property tests were performed on representative soil samples obtained from the test borings in order to aid in classifying soils according to the Unified Soil Classification System and to quantify and correlate engineering properties. California Bearing Ratio (CBR) tests were conducted to evaluate properties for pavement design.

An experienced geotechnical engineer/engineering geologist visually classified each soil sample from the test borings on the basis of texture and plasticity in accordance with the Unified Soil Classification System (USCS) and ASTM D-2488 (Description and Identification of Soils-Visual/Manual Procedures). After classification, the geotechnical engineer/engineering geologist grouped the various soil types into the major zones noted on the boring logs in Appendix B. The group symbols for each soil type are indicated in parentheses following the soil descriptions on the boring logs. The stratification lines designating the interfaces between earth materials on the boring logs are approximate; in situ, the transitions may be gradual.

5.0 PRELIMINARY DESIGN RECOMMENDATIONS

5.1 BUILDING DESIGN

ECS understands that the existing greenfield site will be developed to support a combined elementary and middle school with shared custodial, health, and media spaces. The new structure will have an estimated footprint of 242,000 sf. depending on the arrangement of shared spaces. At the time this report was prepared, specific information regarding site layout, building footprint, foundation loads, and location of key site features was not available.

Based on our experience of similar public school structures, ECS has assumed maximum column loads of 800 kips and continuous wall loads of 8 kpf. We understand that the new structures are not expected to have basements. We have therefore assumed that the finished floor level for the lowest floor will be similar to existing ground surface elevations and the bearing elevation for new foundations will be within 5 ft. of existing grades.

Site Challenges: As stated in Section 2.2, there is an existing stream in the southeast portion of the site and some areas in the east half of the site that may potentially be designated as wetlands. Wetland and natural resource mapping is currently underway; results will be provided under separate cover. Site layout and grading plans may need to accommodate designated wetland and natural resource areas.

The following sections provide recommendations for ground improvement, shallow foundation design, slabs on grade, seismic design parameters, and long-term groundwater control, if necessary.

5.1.1 Shallow Foundations

Based on the subsurface conditions encountered during the preliminary exploration, ECS recommends the following parameters for the design of shallow foundations:

Table 5.1.1.1 Foundation Design			
Column Footing	Wall Footing		
4,000 psf	4,000 psf		
Stratum II (N > 10 bpf)	Stratum II (N > 10 bpf)		
or Structural Fill	or Structural Fill		
24 inches	18 inches		
30 inches	30 inches		
1 inch	1 inch		
Less than 0.75 inches	Less than 0.5 inches over		
between columns	50 feet		
	Column Footing 4,000 psf Stratum II (N > 10 bpf) or Structural Fill 24 inches 30 inches 1 inch Less than 0.75 inches		

Table	5.1.1.1	Foundation	Design
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1. Net allowable bearing pressure is the applied pressure in excess of the surrounding overburden soils above the base of the foundation.

Assuming a foundation bearing elevation within the top 5 ft. of existing grades, the natural Stratum II soils are anticipated to be suitable for support of the proposed structure. If soft or unsuitable soils are observed at the footing bearing elevations, the unsuitable soils should be undercut and

removed. Any undercut should be backfilled up to the original design bottom of footing elevation with Structural Fill placed and compacted in accordance with the recommendations in Section 6.2, or with lean concrete ($f'_c \ge 1,000$ psi at 28 days).

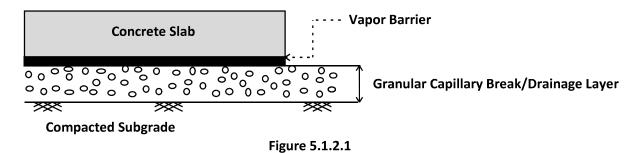
We recommend that adjacent foundations be at the same bearing elevation. If stepped foundations are required, adjacent foundations at different elevations should be located outside of a 1H: 1V zone of influence to avoid overstressing. Refer to the zone of influence diagram provided in Appendix D for a schematic depiction.

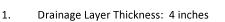
5.1.2 Floor Slabs

The lowest floor slabs may be constructed as conventional slabs on grade. We recommend that slabs on grade be underlain by a drainage layer that will act as a capillary break consisting of a minimum of 4 inches of granular material with a maximum aggregate size of 1.5 inches and no more than 2% passing the #200 sieve. This granular layer will facilitate the fine grading of the subgrade and help prevent the rise of water through the floor slab.

Prior to placing the granular material, the slab subgrade should be properly compacted, proofrolled, and free of standing water, mud, and frozen soil. Before the placement of concrete, a vapor barrier may be placed on top of the granular material to provide additional moisture protection. Special attention should be given to the surface curing of the slab in order to reduce uneven drying of the slab and associated cracking.

The following graphic depicts our slab on grade recommendations:





- 2. Drainage Layer Material: GRAVEL (GP, GW), SAND (SP, SW)
- 3. Subgrade compacted to **95%** maximum dry density per ASTM D698

Subgrade Modulus: Provided the placement of Structural Fill and Granular Drainage Layer per the recommendations discussed herein, the slab may be designed assuming a modulus of subgrade reaction, k_1 of 200 pci (lbs/cu. inch). The modulus of subgrade reaction value is based on a 1 ft by 1 ft plate load test basis.

Slab Isolation: Ground-supported slabs should be isolated from the foundations and foundationsupported elements of the structure so that differential movement between the foundations and slab will not induce excessive shear and bending stresses in the floor slab.

5.1.3 Seismic Design Considerations

Seismic Site Classification: The International Building Code (IBC) requires site classification for seismic design based on the upper 100 feet of a soil profile. Three methods are utilized in classifying sites, namely the shear wave velocity (v_s) method; the unconfined compressive strength (s_u) method; and the Standard Penetration Resistance (N-value) method. The third method (SPT N-value) was used in classifying this site.

The seismic site class definitions for the weighted average of shear wave velocity or SPT N-value in the upper 100 feet of the soil profile are shown in the following table:

Site Class	Soil Profile Name Shear Wave Velocity, Vs, (ft./s)		N value (bpf)	
A	Hard Rock	Vs > 5,000 fps	N/A	
В	Rock	2,500 < Vs ≤ 5,000 fps	N/A	
С	Very dense soil and soft rock	1,200 < Vs ≤ 2,500 fps	>50	
D	Stiff Soil Profile	600 ≤ Vs ≤ 1,200 fps	15 to 60	
E	Soft Soil Profile	Vs < 600 fps	<15	

Using the SPT N-values collected from the subsurface exploration and data on regional geology, the site falls in the range of Seismic Site Classification **D** as shown in the preceding table.

5.1.4 Long-Term Groundwater Control

Based a recommended design groundwater elevation of EL + 28 ft. and a finished lowest floor elevation similar to existing grades, we do not anticipate that long-term groundwater control will be necessary. We do recommend the installation of an exterior, perimeter foundation drain to direct surface water away from building foundations. The drain should be a minimum 4-inch slotted PVC pipe encapsulated (all around) in 6 inches of clean gravel wrapped in filter fabric. The drain system should rest on the exterior footings and should daylight to a suitable outlet.

5.2 PRELIMINARY SITE DESIGN CONSIDERATIONS

5.2.1 Pavement Sections

Based on the results of our soil test borings, it appears that pavement subgrades will likely consist primarily of natural soils or new Structural Fill. ECS performed a California Bearing Ratio (CBR) test on a bulk sample of auger cuttings collected in the top 5 ft. of borings B-1. The resulting CBR value was 9. Standard practice for the design of flexible asphalt pavements recommends using two-thirds of the average measured CBR. For this site we recommend a preliminary design CBR value of 6. Once the subgrade area is exposed and observed, additional CBR testing should be conducted to confirm the appropriate final design value.

For heavy-duty traffic areas, such as loading docks, bus loops, dumpster pads, and unloading zones for deliveries, we recommend use of a rigid pavement section with air-entrained Portland cement concrete having a minimum 28-day compressive strength of 4,000 psi. The rigid pavement section

should be provided with construction joints at appropriate intervals per PCA requirements. The construction joints should be reinforced with dowels to transfer loads across the joints.

5.2.2 Stormwater Management Facilities

Information on the location and nature of stormwater management facilities were not available at the time this preliminary report was prepared. In accordance with the Prince George's County Stormwater Design Manual, we recommend that field infiltration tests be performed for any facility that will rely on infiltration without the use of an underdrain.

5.3 ADDITIONAL SUBSURFACE EXPLORATIONS

ECS recommends that additional soil borings be performed during final design to confirm the appropriate geotechnical design parameters within the proposed footprint of the building. In particular, we recommend confirmation of estimated long-term groundwater elevations by installing groundwater wells for monitoring.

Additionally, if the final site design will include retaining walls or slopes steeper than 3H:1V, we recommend additional soil borings be performed within the footprint of the proposed slope. Depending on the height of the retained soil and subgrade conditions, global stability analysis may be required.

6.0 SITE CONSTRUCTION PRELIMINARY RECOMMENDATIONS

6.1 SUBGRADE PREPARATION

6.1.1 Demolition

ECS understands that the existing site is currently wooded and consists of mature trees. Based on this, demolition will not be required.

6.1.2 Stripping and Grubbing

The subgrade preparation should consist of stripping all vegetation, rootmat, topsoil, existing FILL, and any other soft or unsuitable materials from the 10-foot expanded building and 5-foot expanded pavement limits and to 5 feet beyond the toe of structural fills. In wooded areas, the root balls may extend as deep as about 2 feet or more and will require additional localized stripping depth to completely remove the organics. The Geotechnical Inspector of Record (GIR) should be called on to verify that topsoil and unsuitable surficial materials have been completely removed prior to the placement of Structural Fill or construction of structures.

6.1.3 Proofrolling

After removing all unsuitable surface materials, cutting to the proposed grade, and prior to the placement of any structural fill or other construction materials, the exposed subgrade should be examined by the GIR or authorized representative. The exposed subgrade should be thoroughly proofrolled with previously approved construction equipment having a minimum axle load of 10 tons (e.g. fully loaded tandem-axle dump truck). Areas subject to proofrolling should be traversed by the equipment in two perpendicular (orthogonal) directions with overlapping passes of the vehicle under the observation of the GIR or authorized representative. This procedure is intended to assist in identifying any localized yielding materials. In the event that unstable or "pumping" subgrade is identified by the proofrolling, those areas should be marked for repair prior to the placement of any subsequent structural fill or other construction materials. Methods of repair of unstable subgrade, such as undercutting or moisture conditioning or chemical stabilization, should be discussed with the Geotechnical Engineer of Record (GER) to determine the appropriate procedure with regard to the existing conditions causing the instability.

6.1.4 Site Temporary Dewatering

Groundwater observations are described in Section 3.4 of this report. Groundwater was generally encountered at depths of 20 to 28 fbgs, which corresponds to elevations EL +23 to EL +28 ft. In boring B-2, the measured water level after the auger casing was removed was EL +40 ft (10.5 fbgs). Shallower groundwater levels are likely to be perched water present in granular soils that overlie low permeability fine soils such as clay. Groundwater levels may vary by as much as ± 5 ft and may vary with the season, precipitation levels, and other factors not immediately apparent.

Temporary dewatering to control perched groundwater may be required during construction of new foundations. Dewatering operations can be handled by the use of conventional submersible pumps directly in the excavation or temporary trenches or French drains consisting of free draining granular stone wrapped in filter fabric to direct the flow of water and to remove water from the excavation. If temporary sump pits are used, we recommend they be established at an elevation 3 to 5 feet below the bottom of the excavation subgrade or bottom of footing. A perforated 55 gallon drum or other temporary structure could be used to house the pump. We recommend continuous dewatering of the excavations using electric pumps or manned gasoline pumps be used during construction.

Details of a typical french drainage installation are included in Appendix D. If utilized, the french drain should consist of a filter fabric lined trench filled with No. 57 stone or equivalent open graded stone. A minimum of 4-inch diameter PVC pipe should be placed in the stone bed to enhance water flow. After this installation has been completed, the filter fabric should be wrapped over the top of the gravel and pipe whereupon placement of fill may proceed to grade.

6.1.5 Subgrade Stabilization

Subgrade Benching: Fill should not be placed on ground with a slope steeper than 5H:1V, unless the fill is confined by an opposing slope, such as in a ravine. Otherwise, where steeper slopes exist, the ground should be benched so as to allow for fill placement on a horizontal surface.

Subgrade Compaction: Upon completion of subgrade documentation, the exposed subgrade within the 10-foot expanded building and 5-foot expanded pavement and embankment limits should be moisture conditioned to within -1 and +3 % of the soil's optimum moisture content and be compacted with suitable equipment (minimum 10-ton roller) to a depth of 10 inches. Subgrade compaction within the expanded building, pavement, and embankment limits should be to a dry density of at least 95% of the Standard Proctor maximum dry density (ASTM D698).

Subgrade Compaction Control: The expanded limits of the proposed construction areas should be well defined, including the limits for buildings, pavements, fills, and slopes, etc. Field density testing of subgrades will be performed at frequencies in Table 6.1.

Tuble official frequency of Subgrade compaction resting			
Location	Frequency of Tests		
Expanded Building Limits	1 test per 2,500 sq. ft.		
Pavement Areas	1 test per 10,000 sq. ft.		
Outparcels/SWM Facilities	1 test per 2,500 sq. ft.		
All Other Non-Critical Areas	1 test per 10,000 sq. ft.		

 Table 6.1.5.1 Frequency of Subgrade Compaction Testing

Subgrade Stabilization: In some areas, particularly low-lying, wet areas of the site, undercutting of excessively soft materials may be considered inefficient.

6.2 EARTHWORK OPERATIONS

6.2.1 Existing Man-Placed Fill

Aerial photos dated back to 1957 show no development or tree clearing at the site. Please note that historical aerial photos are not high resolution and can span several years. Historic topographic maps indicate that there used to be a roadway that passed through the west half of the site on a north-south alignment. It is not indicated if the roadway was paved.

6.2.2 Structural Fill Materials

Product Submittals: Prior to placement of Structural Fill, representative bulk samples (about 50 pounds) of on-site and off-site borrow should be submitted to ECS for laboratory testing, which will include Atterberg limits, natural moisture content, grain-size distribution, and moisture-density relationships for compaction. Import materials should be tested prior to being hauled to the site to determine if they meet project specifications.

Satisfactory Structural Fill Materials: Materials satisfactory for use as Structural Fill should consist of inorganic soils classified as CL, ML, SM, SC, SW, SP, GW, GP, GM and GC, or a combination of these group symbols, per ASTM D 2487. The materials should be free of organic matter and debris, and should contain no particle sizes greater than 4 inches in the largest dimension. Open graded materials, such as Gravels (GW and GP), which contain void space in their mass should not be used in structural fills unless properly encapsulated with filter fabric. Suitable Structural Fill material should have a maximum Liquid Limit and Plasticity Index of 40 and 20 percent, respectively.

Unsatisfactory Materials: Unsatisfactory fill materials include materials which to not satisfy the requirements for suitable materials, as well as topsoil and organic materials (OH, OL), Elastic Silt (MH), and Fat Clay (CH).

On-Site Borrow Suitability: Standard Proctor tests (ASTM D 698) were performed on the bulk samples of surficial soils. Based on these results, provided in Appendix C, the natural Stratum I soils encountered during the preliminary subsurface exploration are generally considered suitable for re-use as Structural Fill. All on-site borrow material shall meet all requirements stated above for Structural Fill.

6.2.3 Compaction

Structural Fill Compaction: Structural Fill within the expanded building, pavement, and embankment limits should be placed in maximum 8-inch loose lifts, moisture conditioned as necessary to within -2 and +2 % of the soil's optimum moisture content, and be compacted with suitable equipment to a dry density of at least 98% of the Standard Proctor maximum dry density (ASTM D698). Beyond these areas, compaction of at least 95% should be achieved.

Fill Compaction Control: The expanded limits of the proposed construction areas should be well defined, including the limits of the fill zones for buildings, pavements, and slopes, etc., at the time of fill placement. Grade controls should be maintained throughout the filling operations. All filling

operations should be observed on a full-time basis by a qualified representative of the construction testing laboratory to determine that the minimum compaction requirements are being achieved. Field density testing of fills will be performed at the frequencies shown in Table 6.3, but not less than 1 test per lift.

Location	Frequency of Tests
Expanded Building Limits	1 test per 2,500 sq. ft. per lift
Pavement Areas	1 test per 10,000 sq. ft. per lift
Utility Trenches	1 test per 200 linear ft. per lift
Outparcels/SWM Facilities	1 test per 5,000 sq. ft. per lift
All Other Non-Critical Areas	1 test per 10,000 sq. ft. per lift

Compaction Equipment: Compaction equipment suitable to the soil type being compacted should be used to compact the subgrades and fill materials. Sheepsfoot compaction equipment should be suitable for the fine-grained soils (Clays and Silts). A vibratory steel drum roller should be used for compaction of coarse-grained soils (Sands) as well as for sealing compacted surfaces.

Fill Placement Considerations: Fill materials should not be placed on frozen soils, on frost-heaved soils, and/or on excessively wet soils. Borrow fill materials should not contain frozen materials at the time of placement, and all frozen or frost-heaved soils should be removed prior to placement of Structural Fill or other fill soils and aggregates. Excessively wet soils or aggregates should be scarified, aerated, and moisture conditioned.

At the end of each work day, all fill areas should be graded to facilitate drainage of any precipitation and the surface should be sealed by use of a smooth-drum roller to limit infiltration of surface water. During placement and compaction of new fill at the beginning of each workday, the Contractor may need to scarify existing subgrades to a depth on the order of 4 inches so that a weak plane will not be formed between the new fill and the existing subgrade soils.

Drying and compaction of wet soils is typically difficult during the cold, winter months. Accordingly, earthwork should be performed during the warmer, drier times of the year, if practical. Proper drainage should be maintained during the earthwork phases of construction to prevent ponding of water which has a tendency to degrade subgrade soils.

Where fill materials will be placed to widen existing embankment fills, or placed up against sloping ground, the soil subgrade should be scarified and the new fill benched or keyed into the existing material. Fill material should be placed in horizontal lifts. In confined areas such as utility trenches, portable compaction equipment and thin lifts of 3 inches to 4 inches may be required to achieve specified degrees of compaction.

We recommend that the grading contractor have equipment on site during earthwork for both drying and wetting fill soils. We do not anticipate significant problems in controlling moisture within the fill during dry weather, but moisture control may be difficult during winter months or extended periods of rain.

6.3 FOUNDATION AND SLAB OBSERVATIONS

Protection of Foundation Excavations: Exposure to the environment may weaken the soils at the footing bearing level if the foundation excavations remain open for too long a time. Therefore, foundation concrete should be placed the same day that excavations are made. If the bearing soils are softened by surface water intrusion or exposure, the softened soils must be removed from the foundation excavation bottom immediately prior to placement of concrete. If the excavation must remain open overnight, or if rainfall becomes imminent while the bearing soils are exposed, a 1 to 3-inch thick "mud mat" of lean concrete ($f'_c \ge 1,000$ psi at 28 days) should be placed on the bearing soils before the placement of reinforcing steel.

Subgrade Verification: The GIR or authorized representative should observe exposed subgrades within the expanded building limits prior to placement of concrete for foundations or Structural Fill to assure that adequate subgrade preparation has been achieved. Proofrolling should be performed in their presence at that time. Existing subgrades to a depth of at least 10 inches and all Structural Fill should be moisture conditioned to within -2/+2 percentage points of optimum moisture content then be compacted to the required density. If there will be a significant time lag between the site grading work and final grading of concrete slab areas prior to the placement of the subbase stone and concrete, the GIR should be called on to verify the condition of the prepared subgrade. Prior to final slab construction, the subgrade may require scarification, moisture conditioning, and recompaction to restore stable conditions.

6.4 UTILITY INSTALLATIONS

Utility Subgrades: The soils encountered in our exploration are expected to be generally suitable for support of utility pipes. The pipe subgrade should be observed and probed for stability by the GIR to evaluate the suitability of the materials encountered. Any loose or unsuitable materials encountered at the utility pipe subgrade elevation should be removed and replaced with suitable compacted Structural Fill or pipe bedding material.

Utility Backfilling: The granular bedding material should be at least 4 inches thick, but not less than that specified by the project drawings and specifications. Fill placed for support of the utilities, as well as backfill over the utilities, should satisfy the requirements for Structural Fill given in this report. Compacted backfill should be free of topsoil, roots, ice, or any other material designated by ECS as unsuitable. The backfill should be moisture conditioned, placed, and compacted in accordance with the recommendations of this report.

Utility Excavation Dewatering: It is possible that perched water may be encountered by utility excavations which extend below existing grades. It is expected that removal of perched water which seeps into excavations could be accomplished by pumping from sumps excavated in the trench bottom and which are backfilled with DOT Size No. 57 Stone or open graded bedding material. Should water conditions beyond the capability of sump pumping be encountered, the contractor should submit a Dewatering Plan in accordance with project specifications.

Excavation Safety: All excavations and slopes should be made and maintained in accordance with OSHA excavation safety standards. The contractor is solely responsible for designing and constructing stable, temporary excavations and slopes and should shore, slope, or bench the sides

of the excavations and slopes as required to maintain stability of both the excavation sides and bottom. The contractor's responsible person, as defined in 29 CFR Part 1926, should evaluate the soil exposed in the excavations as part of the contractor's safety procedures. In no case should slope height, slope inclination, or excavation depth, including utility trench excavation depth, exceed those specified in local, state, and federal safety regulations. ECS is providing this information solely as a service to our client. ECS is not assuming responsibility for construction site safety or the contractor's activities; such responsibility is not being implied and should not be inferred.

6.5 GENERAL CONSTRUCTION CONSIDERATIONS

Moisture Conditioning: During the cooler and wetter periods of the year, delays and additional costs should be anticipated. At these times, reduction of soil moisture may need to be accomplished by a combination of mechanical manipulation and the use of chemical additives, such as lime or cement, in order to lower moisture contents to levels appropriate for compaction. Alternatively, during the drier times of the year, such as the summer months, moisture may need to be added to the soil to provide adequate moisture for successful compaction according to the project requirements.

Subgrade Protection: Measures should also be taken to limit site disturbance, especially from rubber-tired heavy construction equipment, and to control and remove surface water from development areas, including structural and pavement areas. It would be advisable to designate a haul road and construction staging area to limit the areas of disturbance and to prevent construction traffic from excessively degrading sensitive subgrade soils and existing pavement areas. Haul roads and construction staging areas could be covered with excess depths of aggregate to protect those subgrades. The aggregate can later be removed and used in pavement areas.

Surface Drainage: Surface drainage conditions should be properly maintained. Surface water should be directed away from the construction area, and the work area should be sloped away from the construction area at a gradient of 1 percent or greater to reduce the potential of ponding water and the subsequent saturation of the surface soils. At the end of each work day, the subgrade soils should be sealed by rolling the surface with a smooth drum roller to minimize infiltration of surface water.

Excavation Safety: Cuts or excavations associated with utility excavations may require forming or bracing, slope flattening, or other physical measures to control sloughing and/or prevent slope failures. Contractors should be familiar with applicable OSHA codes to ensure that adequate protection of the excavations and trench walls is provided.

Erosion Control: The surface soils may be erodible. Therefore, the Contractor should provide and maintain good site drainage during earthwork operations to maintain the integrity of the surface soils. All erosion and sedimentation controls should be in accordance with sound engineering practices and local requirements.

7.0 CLOSING

ECS has prepared this preliminary report of findings, evaluations, and recommendations to guide geotechnical-related design and construction aspects of the project.

The description of the proposed project is based on information provided to ECS by PGCPS and JLL. If any of this information is inaccurate, either due to our interpretation of the documents provided or site or design changes that may occur later, ECS should be contacted immediately in order that we can review the report in light of the changes and provide additional or alternate recommendations as may be required to reflect the proposed construction.

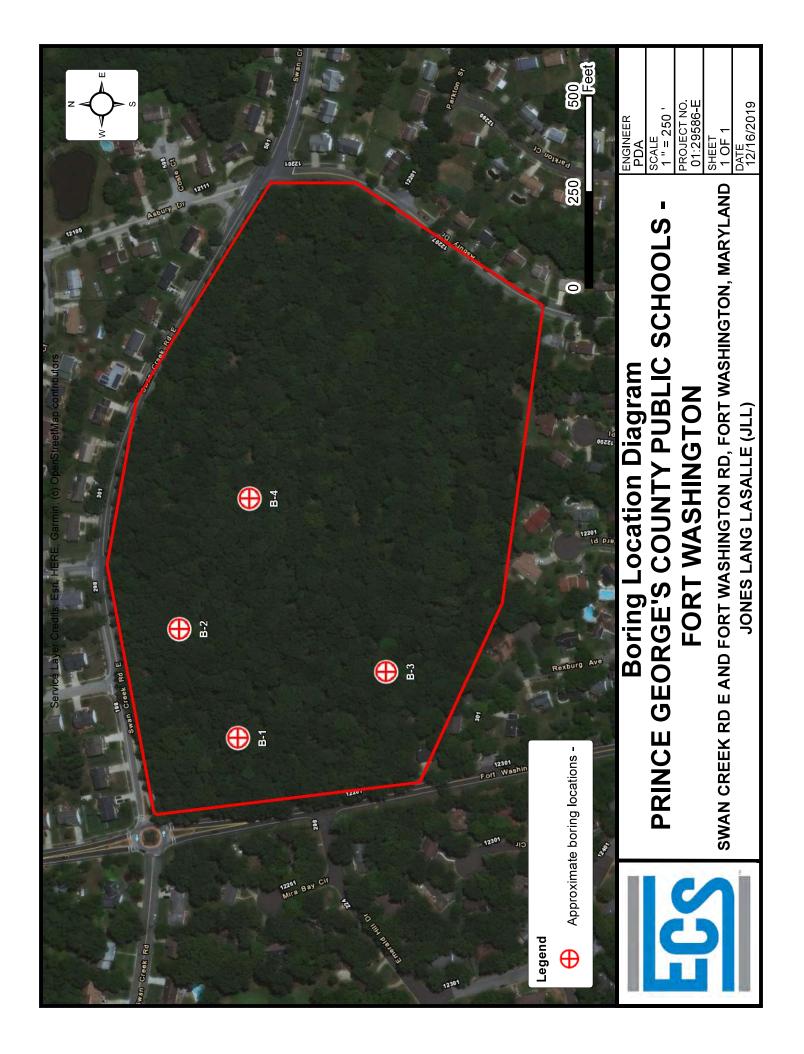
We recommend that ECS be allowed to review the project's plans and specifications pertaining to our work so that we may ascertain consistency of those plans/specifications with the intent of the geotechnical report.

Field observations, monitoring, and quality assurance testing during earthwork and foundation installation are an extension of and integral to the geotechnical design recommendation. We recommend that the owner retain these quality assurance services and that ECS be allowed to continue our involvement throughout these critical phases of construction to provide general consultation as issues arise. ECS is not responsible for the conclusions, opinions, or recommendations of others based on the data in this report.

APPENDIX A – Drawings & Reports

Site Location Diagram Boring Location Diagram





APPENDIX B – Field Operations

Reference Notes for Boring Logs Boring Logs B-1 through B-4



REFERENCE NOTES FOR BORING LOGS

MATERIAL ^{1,2}	2			D	RILLING	SAMPLING	SYMBO	DLS & A	BBREVI	ATIONS	
	ASPH	ALT	SS	Split Spoo	n Sampler		PM	Pressur	emeter T	est	
			ST	Shelby Tul	be Sample	er	RD	Rock Bi	t Drilling		
3.1	CONC	RETE	WS	Wash Sam	ple		RC	Rock Co	ore, NX, E	BX, AX	
			BS	Bulk Samp	le of Cutti	ngs	REC	Rock Sa	ample Re	covery %	
2000	GRAV	EL	PA	Power Aug	er (no sar	mple)	RQD	Rock Q	uality Des	signation %	
0 60 ⁶⁰ č			HSA	Hollow Ste	m Auger						
	TOPSO	DIL			-	PARTICLE S					
	VOID		DESIGNA	TION		CLE SIZES	ZEIDE	INTIFIC	ATION		
· · · · · ·			Boulders	;	12 inc	hes (300 mm	n) or lar	aer			
I,I,I,	BRICK		Cobbles			es to 12 incl	,	-	300 mm)		
0.0			Gravel:	Coarse		n to 3 inches	`		,		
80.002	AGGR	EGATE BASE COURSE		Fine		nm to 19 mm	•		,		
	3		Sand:	Coarse		nm to 4.75 m)	
10.2	FILL ³	MAN-PLACED SOILS		Medium	0.425	mm to 2.00 r	nm (No	o. 40 to I	vo. 10 sie	eve)	
1	GW	WELL-GRADED GRAVEL		Fine	0.074	mm to 0.425	mm (N	lo. 200 t	o No. 40	sieve)	
1.00		gravel-sand mixtures, little or no fines	Silt & Cla	ay ("Fines")	<0.07	4 mm (smalle	er than	a No. 20	0 sieve)		
	GP	POORLY-GRADED GRAVEL gravel-sand mixtures, little or no fines	L								
ITIT	GM	SILTY GRAVEL		COHESIVE	SILTS &	CLAYS				COARSE	FINE
1141		gravel-sand-silt mixtures	Илсо	NFINED	_		_			GRAINED	GRAINE
19	GC	CLAYEY GRAVEL		RESSIVE	SPT⁵	CONSISTEN	CY ⁷		OUNT'	(%) ⁸	(%) ⁸
12		gravel-sand-clay mixtures	STRENG	атн, Q Р ⁴	(BPF)	(COHESIV	<i>.</i>	Trace	•	<u><</u> 5	<u><</u> 5
	SW	WELL-GRADED SAND	<0	.25	<3	Very So	ft	Dual	Symbol	 10	
		gravelly sand, little or no fines	0.25	<0.50	3 - 4	Soft			W-SM)		
	SP	POORLY-GRADED SAND gravelly sand, little or no fines	0.50 -	<1.00	5 - 8	Firm		With		15 - 20	15 - 25
	CM		1.00 -	<2.00	9 - 15	Stiff		Adjeo	ctive	<u>></u> 25	<u>></u> 30
0 8 8 E 6 F 3 X 0 0 3 3 X	SM	SILTY SAND sand-silt mixtures	2.00 -	<4.00	16 - 30	Very Stil	ff	(ex: "S	Silty")		
A	SC	CLAYEY SAND	4.00	- 8.00	31 - 50	Hard					
	50	sand-clay mixtures	>8	.00	>50	Very Har	d		W	ATER LEVELS	6
ΠÍΠ	ML	SILT						Ā	WL	Water Level (
		non-plastic to medium plasticity	GRAVE	S, SANDS	& NON-C	OHESIVE SI	LTS	Ŧ		(WS) While	
	МН	ELASTIC SILT high plasticity	5	SPT ⁵		DENSITY				(WD) While	Drilling
		• · · ·		<5		Very Loose		$\overline{\mathbb{A}}$	SHW	Seasonal Hig	h WT
11	CL	LEAN CLAY low to medium plasticity	5	- 10		Loose		Ξ.	ACR	After Casing	Removal
<u> </u>	СН	FAT CLAY	1	1 - 30	M	edium Dense		$\overline{\mathbb{V}}$	SWT	Stabilized Wa	ater Table
	CII	high plasticity		1 - 50		Dense			DCI	Dry Cave-In	
rri	OL	ORGANIC SILT or CLAY		>50	N	√ery Dense			WCI	Wet Cave-In	
	он	ORGANIC SILT or CLAY high plasticity									
	РТ	PEAT highly organic soils									

¹Classifications and symbols per ASTM D 2488-09 (Visual-Manual Procedure) unless noted otherwise.

³Non-ASTM designations are included in soil descriptions and symbols along with ASTM symbol [Ex: (SM-FILL)].

⁶ The water levels are those levels actually measured in the borehole at the times indicated by the symbol. The measurements are relatively reliable when augering, without adding fluids, in granular soils. In clay and cohesive silts, the determination of water levels may require several days for the water level to stabilize. In such cases, additional methods of measurement are generally employed.

⁷Minor deviation from ASTM D 2488-09 Note 16.

⁸Percentages are estimated to the nearest 5% per ASTM D 2488-09.

Reference Notes for Boring Logs (03-22-2017)

FINE GRAINED (%)⁸

²To be consistent with general practice, "POORLY GRADED" has been removed from GP, GP-GM, GP-GC, SP, SP-SM, SP-SC soil types on the boring logs.

⁴Typically estimated via pocket penetrometer or Torvane shear test and expressed in tons per square foot (tsf).

⁵ Standard Penetration Test (SPT) refers to the number of hammer blows (blow count) of a 140 lb. hammer falling 30 inches on a 2 inch OD split spoon sampler required to drive the sampler 12 inches (ASTM D 1586). "N-value" is another term for "blow count" and is expressed in blows per foot (bpf).

CLIENT	Job #: BORING #	SHEET
Jones Lang LaSalle (JL PROJECT NAME	L) 01:29586-E B-1	
Prince George's Count Washington	y Public Schools - Fort	
SITE LOCATION Swan Creek Rd E and	Fort Washington Rd, Fort Washington, Prince Geo	rge's -O- CALIBRATED PENETROMETER TONS/FT ²
County, MD	EASTING STATION	ROCK QUALITY DESIGNATION & RECOVERY RQD% REC%
	DESCRIPTION OF MATERIAL ENGLISH UNITS	PLASTIC WATER LIQUID LIMIT% CONTENT% LIMIT%
DEPTH (FT) SAMPLE NO. SAMPLE TYPE SAMPLE DIST. (IN) RECOVERY (IN)	BOTTOM OF CASING LOSS OF CIRCULATION MADE AND A REPAIR OF CASING A REP	
SAMP SAMP SAMP RECC		
U S-1 SS 18 10 Bulk 24	Topsoil Thickness [2.00']	WOH 12 2 14- 0-16.3
	(CL) SANDY LEAN CLAY, contains mica, dark orangish brown, moist, very stiff	6 9 20-×
5		11
		8 13 16 29-8
	(SM) SILTY SAND, tannish brown, moist,	
S-4 SS 18 18	medium dense	6 7 15-⊗
		o
	(CL) SANDY LEAN CLAY, contains mica, tannish brown, moist, loose	
S-5 SS 18 3		3 4 7-⊗ 15 ★● · → 31
	(CL) LEAN CLAY, contains mica, dark grayish 30	
	brown, wet, stiff	4
S-6 SS 18 18		5 12÷⊗
	(CL) SANDY LEAN CLAY, contains mice, dark 25	
	(CL) SANDY LEAN CLAY, contains mica, dark grayish brown, moist, very stiff	
		18 15 13 28-
	(CL) LEAN CLAY, contains mica, dark grayish 20 brown, moist, hard	
		14 17 32÷⊗
30	END OF BORING @ 30'	
₩ 20 WS	INES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL TYPE WD D BORING STARTED 11/18/19	CAVE IN DEPTH 25
₩ WL(SHW) ¥ WL(ACR	BORING COMPLETED 11/18/19	HAMMER TYPE Auto
₩ ₩L	RIG CME 55 FOREMAN Garrett	DRILLING METHOD 3.25" HSA

CLIENT							Job #:	BORI			SHEET			
Jones PROJECT Prince Washi	e Ge	orge	aSal e's C	ie (. Cour	ILL) Ity Public Sch	ools - Fort	01:29586-E ARCHITECT-ENGINE	ER	<u>B-2</u>		<u>1 OF 1</u>		EC	S
SITE LOC	Cre	ek F	Rd E	and	Fort Washing	gton Rd, F	ort Washington,	Prince	e Geor	ge's		TED PENETRO	DMETER T	ONS/FT ²
	.y, iv G				EASTING		STATION				ROCK QUALIT RQD% -			OVERY
	Ö	ΡE	ST. (IN)	(IN)	DESCRIPTION OF M		ENGLI: LOSS OF CIRCULAT				PLASTIC LIMIT%	WATER CONTENT%	6	LIQUID LIMIT%
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0	S-1	SS	18	16	Topsoil Thickn	ess [2.00']			<u> </u>	1 2 1	⊗-3	· · · · · · · · · · · · · · · · · · ·		
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5 —			40							9				- - - - -
	S-3	SS	18	18					45	8 11	: 19−⊗ :		-	- - - -
	S-4	SS	18	18	(CL) SANDY L orangish browr	EAN CLAY, o n, moist, very	contains mica, dark stiff			7	20-0			
10									40	12				
												· · · · · · · · · · · · · · · · · · ·		
15	S-5	SS	18	18						6 7 10	17-8		-	
					(SP-SC) SAND light gray to tar		/, contains mica,		35					
	S-6	SS	18	18	medium dense					4 5 5	10		-	
20									30	-			-	
										5			-	-
25	S-7	SS	18	18					25	6 5	11-⊗	· · · · · · · · · · · · · · · · · · ·	-	•
					(SC) CLAYEY moist, loose	SAND, conta	ins mica, dark gray,							
30 —	S-8	SS	18	18						3 3 4	7		- - - -	
- ³⁰ -					END OF BORI	NG @ 30'			F			. :	:	:
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<u>₹</u> w∟ 2	28		,	ws⊠	WD	BORING STAR	ted 11/15/19			CAVE	IN DEPTH 24			
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₩ E WL						RIG CME 55	5 FOREMAN	Garrett		DRIL	LING METHOD 3.2	25" HSA		

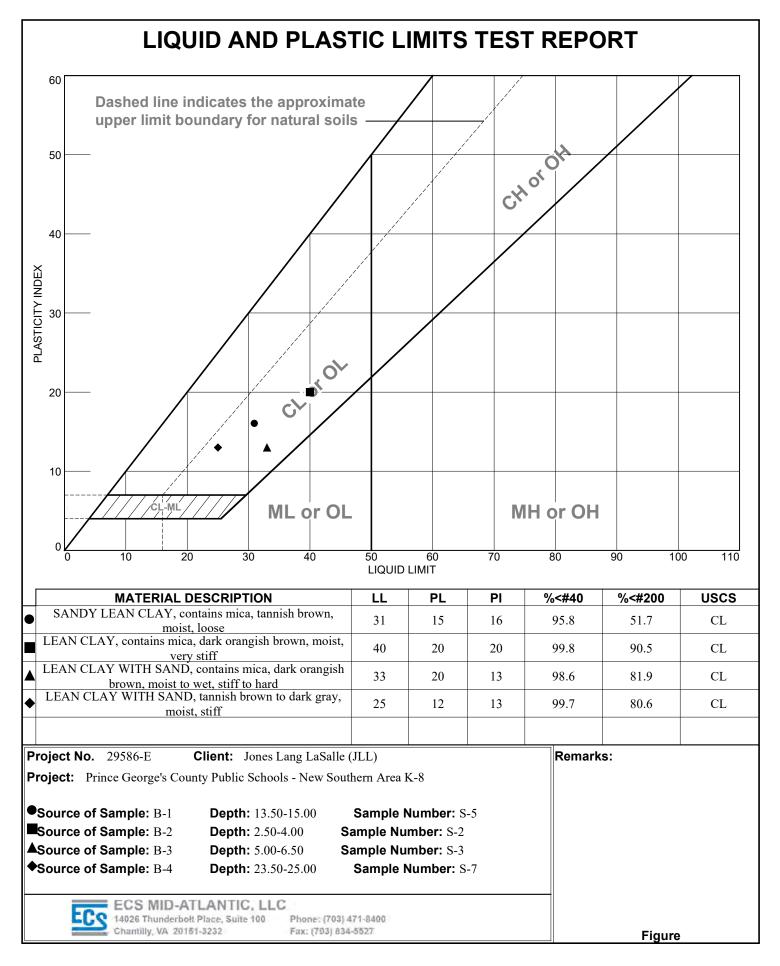
PROJECT NAME ARCHITECT-ENGINEER Prince George's County Public Schools - Fort ARCHITECT-ENGINEER SITE LOCATION STE LOCATION Swan Creek Rd E and Fort Washington Rd, Fort Washington, Prince George's -O-I County, MD EASTING NORTHING EASTING STATION STATION Image: County for the state of the state	1 OF 1 ECCS CALIBRATED PENETROMETER TONS/FT ² K QUALITY DESIGNATION & RECOVERY RQD% REC%
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Image: Section of the section of t	RQD% – — – REC% ———
	STIC WATER LIQUID
$\widehat{F} \mathcal{G} \mathcal{F} \mathcal{H} \mathcal{F} \mathcal{H} \mathcal{F} \mathcal{H}$ BOTTOM OF CASING \square LOSS OF CIRCULATION $\mathcal{H} \mathcal{H} \mathcal$	T% CONTENT% LIMIT%
Les cription of material english units state in the second state i	STANDARD PENETRATION BLOWS/FT
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S-2 SS 18 18 (CL) LEAN CLAY WITH SAND, contains mica, 4 dark orangish brown, moist, very stiff to hard 4	23
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S-5 SS 18 18	18-&
S-6 SS 18 18	31-2
S-7 SS 18 18 (CL) LEAN CLAY WITH SAND, contains mica , dark orangish brown, moist to wet, stiff	
S-8 SS 18 18 5 11-	
30 END OF BORING @ 30'	
THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY LINES BETWEEN SOIL TYPES. IN-SITU THE WL 26 WS WD BORING STARTED 11/18/19 CAVE IN DEP	
wL 26 ws wb in boring started 11/18/19 CAVE IN DEP WL(SHW) ¥ WL(ACR) 27 BORING COMPLETED 11/18/19 HAMMER TYP	
	™ Auto THOD 3.25" HSA

CLIENT							Job #:		BORI	NG #		SHEET		
Jones PROJECT	Lar	ng La	aSal	le (.	JLL)		01	:29586-E		B-4		1 OF	<u>1</u>	00
Prince	e Ge	orge	e's C	oun	ity Public Sch	ools - Fort	ARCH	ITECT-ENGINEE	R					65
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					(CL) LEAN CL	AY WITH SII		tannish			2			
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5												: : :		
	S-3	SS	18	18						45	1 11 12	2	23-&	
_					(CL) SANDY L		dorle oron	aciah haawa						
_					to light gray, m	oist, very stif	f to hard	Igish blown			9	:		
10	S-4	SS	18	18							16 21	:	37-⊗	
										40				
_	S-5	SS	18	18							7 11	-	29-X	
15 —											18			
_										35 				
												:		
	S-6	SS	18	18							11 16 16		32->	
20											10			
_					(CL) LEAN CL	AY WITH SA	ND, tanr	nish brown						
					to dark gray, m	ioist, stiff					6	÷ /		
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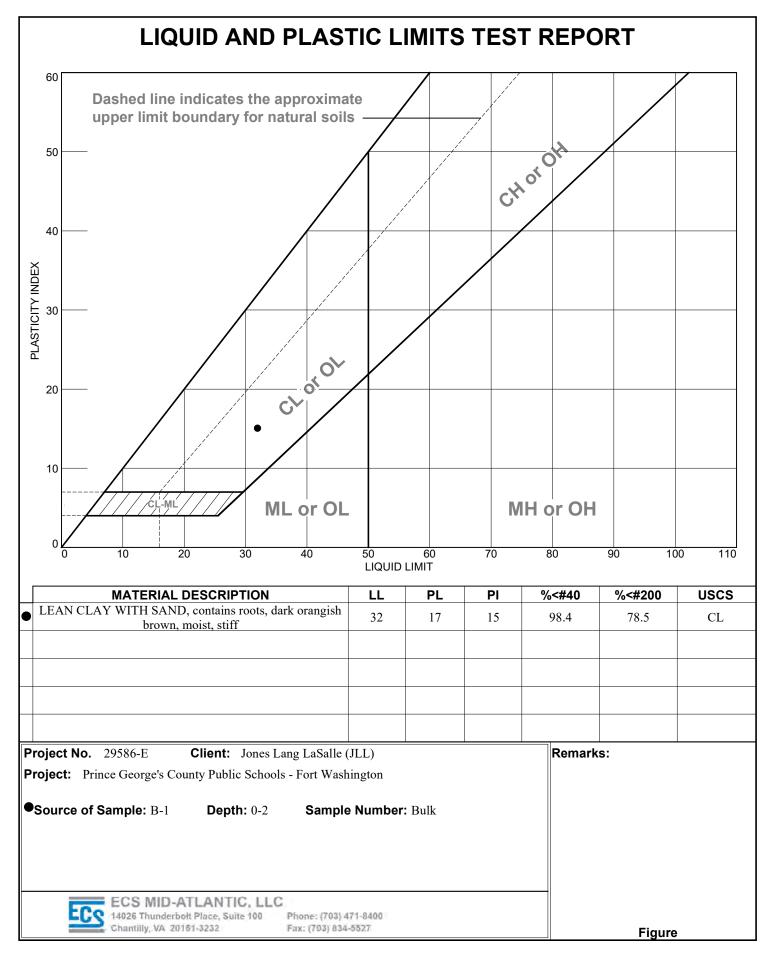
APPENDIX C – Laboratory Testing

Laboratory Test Results Summary Plasticity Chart Grain Size Analysis CBR Test Result

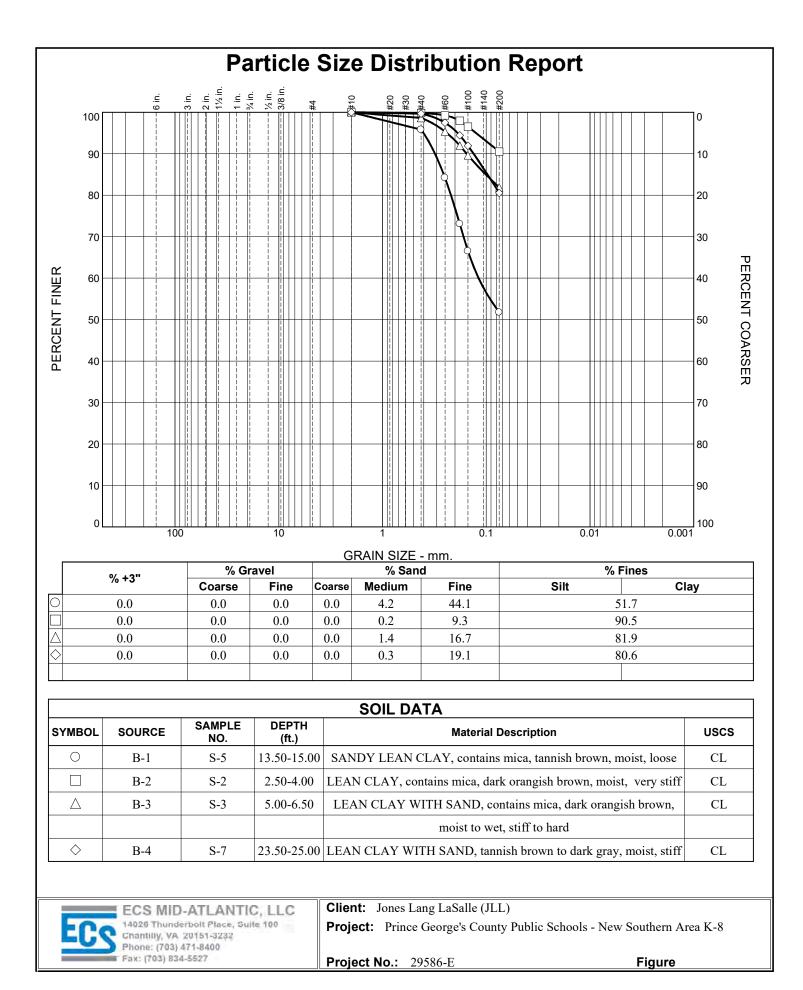
				Lat	orat	boratory Testing Summary	sting	Sum	เทลท					Page 1 of 1
		Start	Fnd	Sample			Atterk	Atterberg Limits ³	mits ³	Percent	Moisture - Density (Corr.)5	nsity (Corr.)5		- - - -
Sample Source	Sample Number	Depth (feet)	Depth (feet)	Distance (feet)	MC1 (%)	Soil Type2	Ľ	PL	Ē	Passing No. 200 Sieve4	Maximum Density (pcf)	Optimum Moisture (%)	CBR Value6	Other
B-1	Bulk S-5	0.0 13.5	2.0 15.0	2.0 1.5	16.3 17.2	ರ ರ	32 31	17 15	15 16	78.5 51.7	109.5	16.3	o	
B-2	S-2	2.5	4.0	1.5	17.6	ษ	40	20	20	90.5				
B-3	S S	5.0	6.5	1.5	13 <u>.</u> 3	ป	33	20	13	81.9				
B-4	S-7	23 <u>.</u> 5	25.0	1.5	19.3	CL	25	12	13	80.6				
Notes: 1. Definitions: M	1. ASTM D 2216, 2. ASTM D 2487, 3. ASTM D 4318, 4. ASTM D 1140, 5. See test reports for test method, 6. See test reports for test method MC: Moisture Content, Soil Type: USCS (Unified Soil Classification System), LL: Liquid Limit, PL: Plastic Limit, PI: Plasticity Index, CBR: California Bearing Ratio, OC: Organic Content (ASTM D 2974)	. ASTM D 2487, snt, Soil Type: U	3. ASTM D 43 ISCS (Unified S	18, 4_ASTM D 1 Soil Classification	140, 5. Se System),	e test reports LL: Liquid Lim	for test me iit, PL: Plas	ethod, 6. Se stic Limit, F	∋e test rep ⊅l: Plasticit	orts for test me by Index, CBR:	∌thod California Bearing	J Ratio, OC: Orga	nic Content (AS	STM D 2974)
Project No.	01:29586-E											000	ATLA TIN	NTIC II C
Project Name:	Prince Geo	orge's County	Public Schc	Prince George's County Public Schools - Fort Washington	shington	_						14026 Th	14026 Thunderbolt Place, Suite 100	14026 Thunderbolt Place, Suite 100
PM:	Femi Akino <mark>l</mark> a	ola									-	Chantilly Bhone: (Chantilly, VA 20151-3232 Phone: (703) 471-8400	32
PE:	Paul D. Agutter	utter										Fax: (705	Fax: (703) 834-5527	
Printed On:	Wednesday	Wednesday, December 18, 2019	18, 2019											

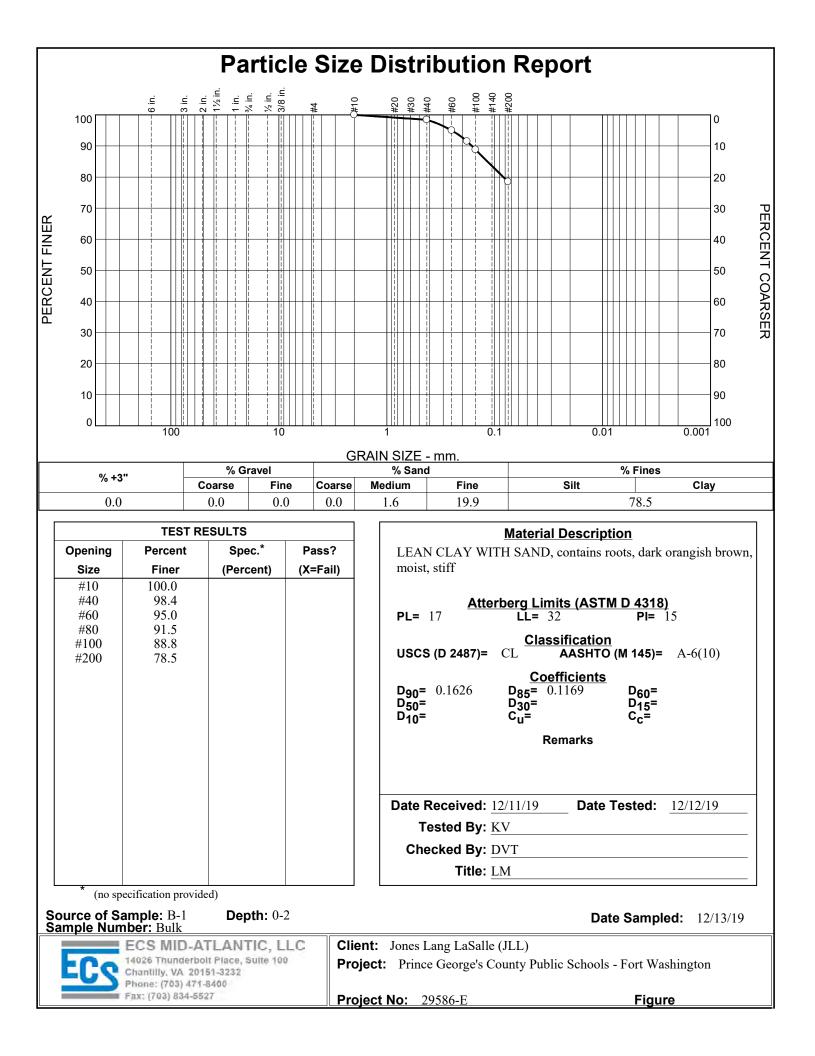


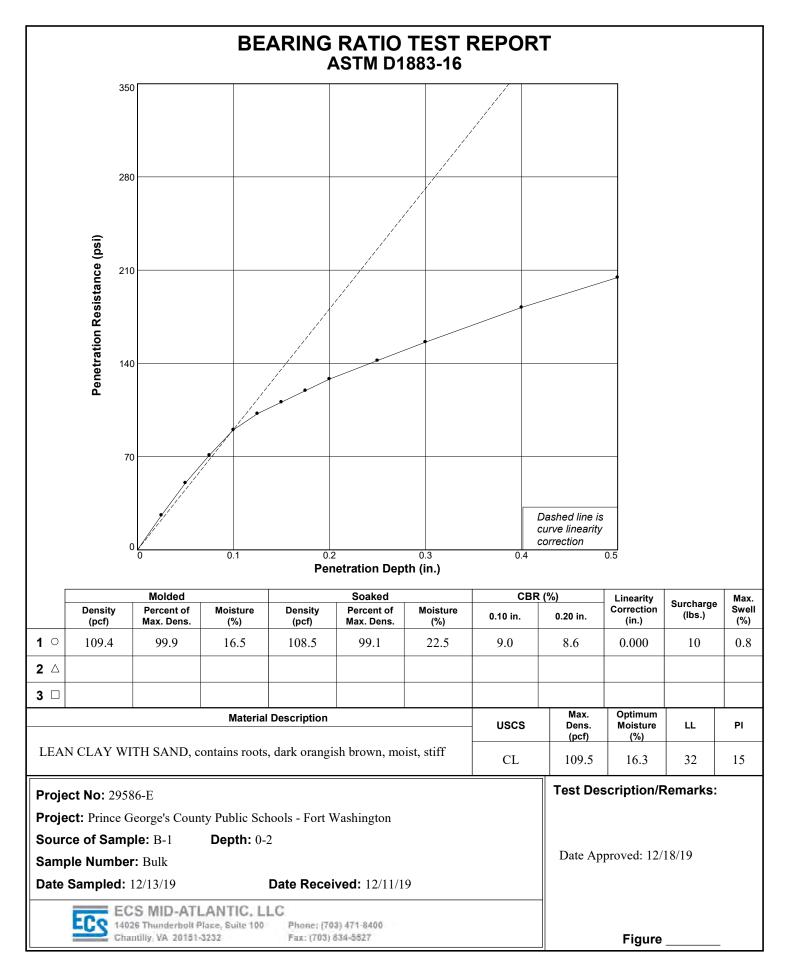
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Checked By: DVT



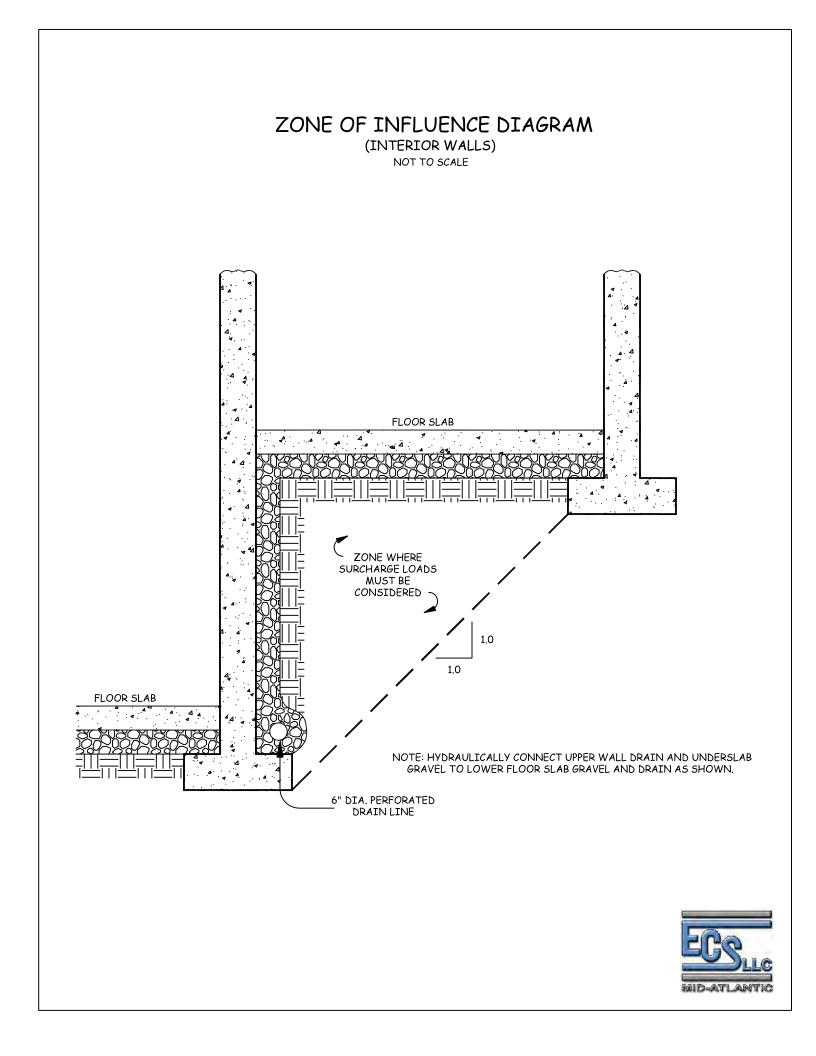




Checked By: DVT

APPENDIX D – Supplemental Report Documents

Zone of Influence Diagram French Drain Installation Procedure



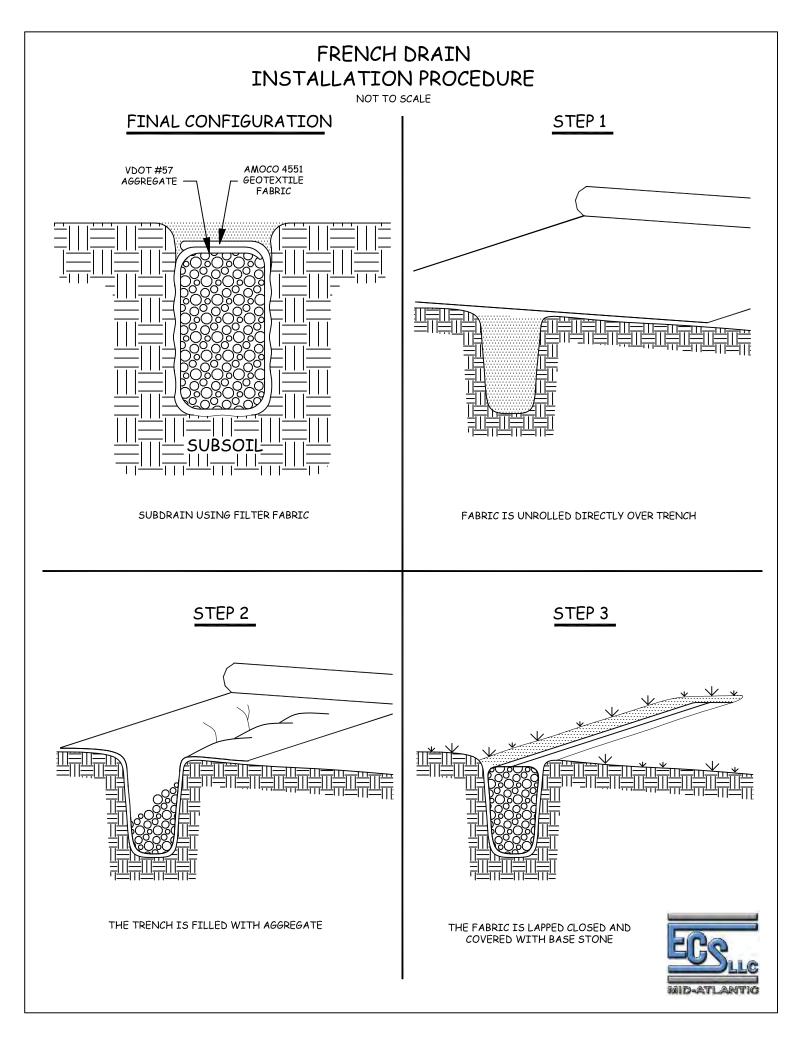
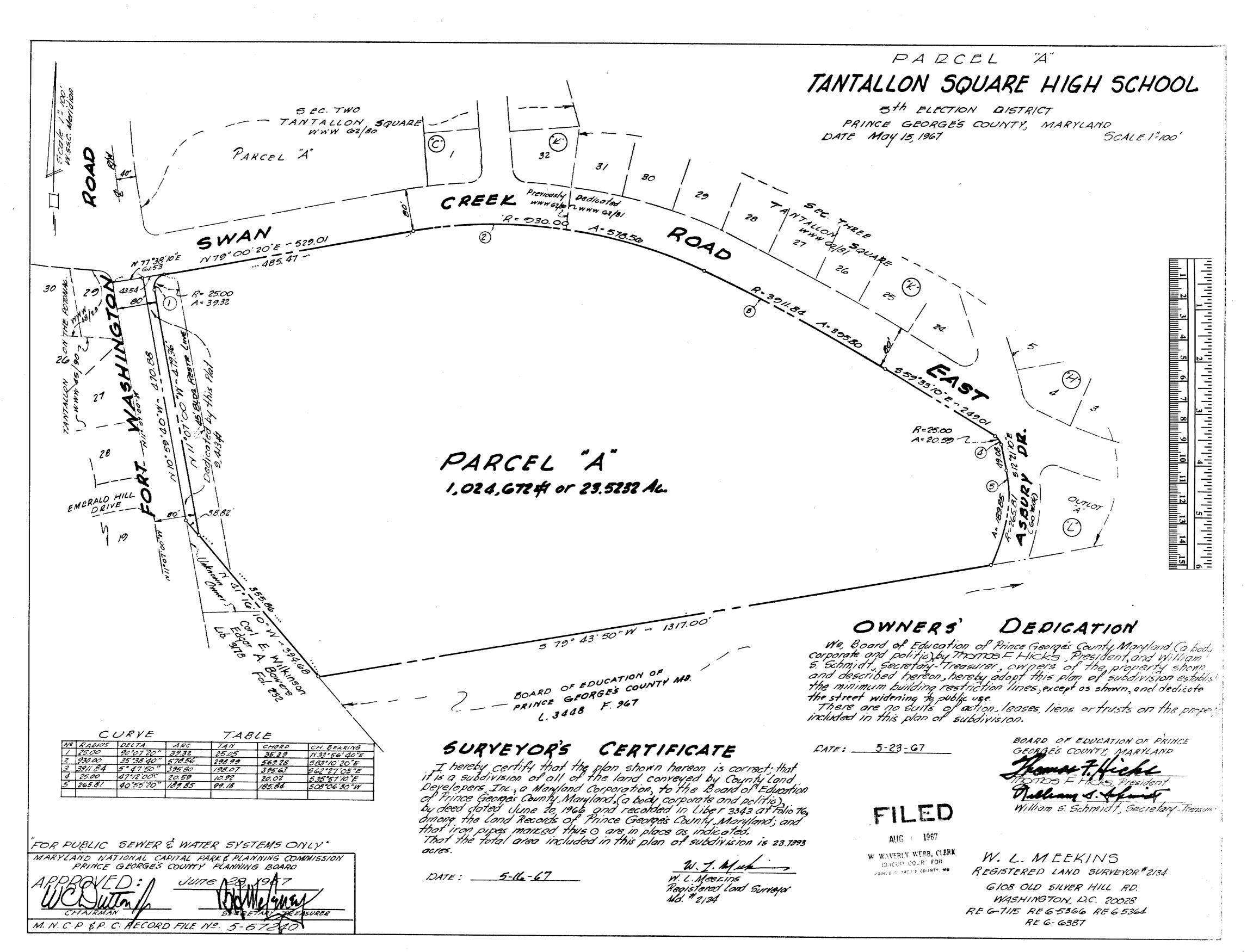


EXHIBIT E-4

INFORMATION REGARDING THE SOUTHERN AREA K-8 SCHOOL SITE



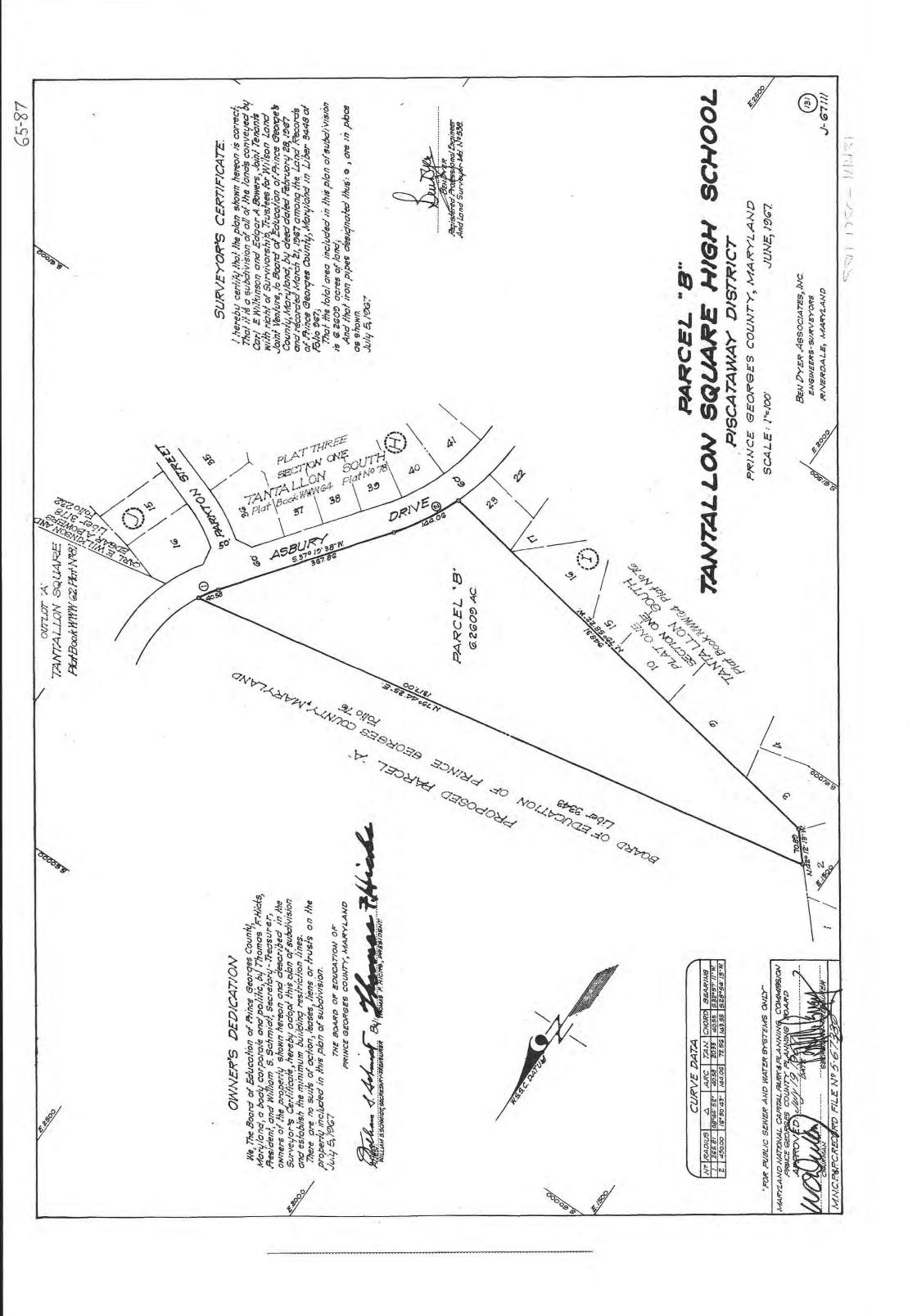


EXHIBIT E-4

INFORMATION REGARDING THE SOUTHERN AREA K-8 SCHOOL SITE



WATERS OF THE U.S. DELINEATION REPORT



NEW SOUTHERN AREA MIDDLE SCHOOL K-8 FORT WASHINGON ROAD AND SWAN CREEK ROAD FORT WASHINGTON, PRINCE GEORGE'S, MARYLAND

ECS PROJECT NO. 47:9541-D1

FOR

JONES LANG LASALLE

JANUARY 6, 2020





"Setting the Standard for Service"



Geotechnical • Construction Materials • Environmental • Facilities

January 6, 2020

Ms. Jill Jamieson Jones Lang LaSalle 2020 K Street, Suite 1100 Washington, DC 20006

ECS Project No. 47:9541-D1

Reference: Waters of the U.S Delineation Report, New Southern Area Middle School K-8, Fort Washingon Road and Swan Creek Road, Fort Washington, Prince George's Maryland

Dear Ms. Jamieson:

ECS Mid-Atlantic, LLC (ECS) is pleased to provide you with the results of our Waters of the U.S. (WOUS) Delineation Report for the referenced site. ECS services were provided in general accordance with ECS Proposal No. 47:13157 authorized on December 11, 2019 and generally meet the requirements of the 1987 U.S. Army Corps of Engineers (USACE) Wetlands Delineation Manual, and on the Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Atlantic and Gulf Coastal Plain Region, Version 2.0 dated November 2010.

If there are questions regarding this report, or a need for further information, please contact the undersigned.

Sincerely,

ECS Mid-Atlantic, LLC

Laura S. Calvert

Laura S. Calvert Environmental Project Manager Icalvert@ecslimited.com 410-859-4300

Garnett B. Williams, C.P.G. Principal Geologist gwilliams@ecslimited.com 804-353-6333



1.0 INTRODUCTION

This report presents the findings of a wetland and buffer study conducted by ECS Mid-Atlantic, LLC (ECS) for Jones Lang LaSalle at the proposed New Southern Area Middle School K-8 project site located southeast of the intersection of Fort Washingon Road and Swan Creek Road, Fort Washington, Prince George's, Maryland (Latitude: 38.7236044007 N, Longitude: -77.002397410 W). The site is further identified by the Maryland Department of Assessments and Taxation as Tax Account Nos. 0281360 and 0281766. The site includes approximately 30-acres, as shown on the Site Location Map (Appendix I). The site is an undeveloped wooded lot.

ECS conducted the wetland and buffer delineation on December 13, 2019. The purpose of this study was to identify and delineate potentially jurisdictional Waters of the U.S. (WOUS) within the proposed project site. ECS observed and delineated features that, in our professional opinion, meet jurisdictional parameters of regulated wetland features.





2.0 METHODOLOGY

This wetland delineation is based on ECS' professional judgment and application of the technical criteria presented in the 1987 U.S. Army Corps of Engineers (USACE) Wetlands Delineation Manual, and on the Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Atlantic and Gulf Coastal Plain Region, Version 2.0 dated November 2010 . Wetland boundaries were delineated using the routine onsite determination method described in the USACE Manual and Regional Supplement, in conjunction with the Atlantic and Gulf Coastal Plain 2016 Regional Wetland Plant List, and the USDA Soil Survey. Field work was completed on December 13, 2019 by Laura S. Calvert and Taylor Witt.

ECS completed the following tasks to identify and delineate potentially jurisdictional wetland boundaries onsite:

Desktop Review: ECS wetland scientists reviewed the U.S. Geological Survey (USGS) topographic map, U.S. Department of Agriculture Natural Resource Conservation Service (USDA-NRCS) Soil Survey of Prince George's, Maryland, U.S. Fish & Wildlife Service (USFWS) National Wetlands Inventory (NWI) maps, Federal Emergency Management Agency (FEMA) Floodplain maps, and available aerial photographs to identify potentially jurisdictional Waters of the U.S. (i.e., streams, wetlands, natural ponds, lakes). Please reference Appendix I for the above-mentioned maps.

Field Investigation: ECS performed onsite wetland delineations as described above. First, site hydrology was observed and the plant community within the data plot was characterized. The dominant plant species within each community were then identified, and it was determined whether or not hydrophytic (wetland) plants dominated the plant community. The USFWS has defined the following wetland plant indicator categories:

Obligate wetland (OBL) – has >99% probability of occurring in wetlands Facultative wetland (FACW) – has 66% to 99% chance of occurring in wetlands Facultative (FAC) – has 33% to 66% chance of occurring in wetlands Facultative upland (FACU) – has 1 to 33% chance of occurring in wetlands Upland (UPL) – has <1% chance of occurring in wetlands No Indicator (NI) – no wetland indicator for the specified species

Plants identified as OBL, FACW, or FAC are considered wetland plants (or hydrophytes) by USACE.

In areas determined to have hydrophytic vegetation and potential wetland hydrology, an approximately 16-20 inch soil test hole was completed with a hand auger to determine if hydric soils were present. The soil boring was also inspected to determine if indicators of wetland hydrology (inundation, soil saturation, etc.) were present.

Once an area is determined to be a wetland, further testing was performed to locate the wetland/ upland (non-wetland) boundary. A second test hole was completed in the upland area to document non-wetland conditions. Wetland boundaries were marked with consecutively numbered surveyor's ribbon flags. The wetland flags were surveyed as part of this assessment [using a sub-meter accuracy GPS unit.





Data forms specified in the Regional Supplement were completed for each wetland and non-wetland test hole location, referred to as data points. The data forms recorded the vegetation, soils, and hydrology observations used in making the wetland determinations. ECS did identify areas during the site reconnaissance which, in our professional opinion, would be considered jurisdictional wetlands by the USACE.

2.1 Methodology for Delineating Streams

During the field evaluation for wetlands, ECS observed the site for streams that would potentially be considered jurisdictional by state and federal regulatory agencies. ECS used field indicators such as the presence of an ordinary high water mark (OHWM) and continuous bed and banks to delineate stream channels as well as flow, substrate composition, presence/absence of defined bed and banks, origin of hydrologic source, presence/absence of vegetation in the stream channel, and composition and relative abundance of resident benthic macroinvertebrates to classify onsite streams into three stream types: ephemeral, intermittent, and perennial.

Streams were not identified within the project limits during this assessment.

2.2 Methodology for Delineating Buffer Areas

<u>Methodology for Delineating the Chesapeake Bay Critical Area Buffer and Non-Tidal Wetland</u> <u>Buffers</u>

The state of Maryland, particularly the Maryland Department of the Environment (MDE) and the Maryland Department of Natural Resources (DNR), require a buffer be established and maintained for all tidal and non-tidal wetlands and tributary streams within the state. DNR requires a minimum of a 100-foot Critical Area Buffer adjacent to all tidal waters and wetlands, with this buffer expanding beyond 100-feet in areas where sensitive resources are present, such as steep slopes or soils limited to development. Similarly, MDE requires a minimum of a 25-foot buffer adjacent to all non-tidal wetlands and streams. If a non-tidal wetland is designated one of special state concern, MDE requires a 100-foot buffer be established.

To determine a Critical Area Buffer, ECS would locate the mean high water mark or the edge of tidal wetlands and streams, and extend the buffer 100-feet landward of those features. For non-tidal wetlands, ECS uses the wetland boundaries established during the field evaluation to delineate the required buffer extending 25-feet landward of all non-tidal wetlands.

In addition, Prince George's County implements minimum stream buffers for regulated streams based on the site's location within certain Growth Policy Tier districts. If within a Developed Tier, the minimum stream buffer width implemented is required to be 60 feet. If within a Developing Tier, the minimum stream buffer width implemented is required to be 75 feet. If within a Rural Tier, the minimum stream buffer width implemented is required to be 100 feet. Based on a review of the County's General Plan, the subject property is located within the Developing Tier and is therefore subject to 75-foot stream buffers.





3.0 FINDINGS

3.1 Desktop Review

The USGS Mount Vernon, VA-MD and Maryland, Piscataway, MD quadrangle maps show an elevation range between 45 to 57 feet. Surface water flow is estimated to be to the west on the western portion of the site and east on the eastern portion of the site. The eastern portion of the site drains toward an unnamed tributary of Broad Creek, approximately 200 feet east of the parcel boundaries, and the western portion of the site drains toward Swan Creek, approximately 700 feet west. Groundwater flow is estimated to be generally to the west towards the Potomac River. The site is located within the Potomac River U Tidal watershed, identified as Hydrologic Unit Code (HUC) 02140201. The NWI map did not depict wetlands or riverine features within the project site boundaries. According to FEMA Flood Insurance Rate Map (FIRM) numbers 24033C0310E and 24033C0330E, the site is not mapped within the 100-year floodplain. The Maryland Department of Natural Resources (DNR) has mapped two palustrine wetlands in the northern portion of the study area, and a palustrine wetland in the eastern portion of the study area were not observed during the field visit, and the wetland in the eastern portion of the study area was delineated at a different size than the mapped wetland.

The weather at the time of the site reconnaissance was 38 degrees Fahrenheit and rainy. According to the Oxon Hill, MD National Oceanic & Atmospheric Administration (NOAA) weather station, the last precipitation event prior to the site reconnaissance was on December 11, 2019 and approximately 0.43-inches of rain was recorded.

3.2 Site Soils

A review of the USDA Soil Survey for the project site identified seven mapping units within the study area boundaries. These soil mapping units include: BuD-Beltsville,Urban land complex, 5 to 15 percent slopes in the southeastern extent of the study area; LxD-Liverpool-Piccowaxen complex, 5 to 15 percent slopes along the west central portion of the study area; MpB-Matapeake silt loam, 2 to 5 percent slopes, along the north central portion of the study area; PoB-Piccowaxen-Liverpool complex, 2 to 5 percent slopes, through the central portion of the study area; PrB-Piccowaxen-Urban land complex, 0 to 5 percent slopes, along the eastern and western edges of the study area; SaaC-Sassafras sandy loam, 5 to 10 percent slopes, along the north-central portion of the study area; and, SnB-Sassafras-Urban land complex, 0 to 5 percent slopes along Unit SaaC - Sassafras sandy loam, 5 to 10 percent slopes along the north-central portion of the study area. Mapping Unit SaaC - Sassafras sandy loam, 5 to 10 percent slopes is identified as a hydric soil by the NRCS.

3.3 Waters of the U.S.

Two potentially jurisdictional wetland areas totaling 0.27-acres were identified and mapped onsite. The sizes and USFWS Cowardin classifications are summarized below (Table 1), and the locations are illustrated on the Waters of the U.S. Delineation Map (Appendix IV). Hydrologic features within the study area are governed primarily by topography and surface water flow.





wous	Cowardin Classification	Onsite Linear Feet (LF)	Onsite Acreage (AC)	Onsite Square Footage (Sq. Ft.)
W1	PFO	-	0.25	11,035
W2	PFO	-	0.02	777

Table 1: WOUS Summary Table

3.3.1 Wetland Summary

Wetland W1 is a 0.25-acre palustrine forested (PFO) wetland located in the eastern extent of the study area. Wetland W1 is dominated by red maple (*Acer rubrum*) and sweet gum (*Liquidambar styraciflua*) in the overstory. Wetland W1 flows into a box culvert along the eastern property boundary which appeared to flow under the adjacent Ashbury Drive. The outlet of the culvert was not located within 100-feet from the study area boundary.

Wetland W2 is a 0.02-acre PFO wetland located in the central portion of the study area. Wetland W2 is dominated by willow oak (Quercus phellos) in the overstory. This wetland is located in a concave depression.

3.3.2 Stream Summary

No stream features were observed on site.

3.4 Buffer Areas

ECS used the wetland boundaries established during the field investigation to delineate the wetland buffers onsite. According to MDE and Prince George's County, a 25-foot buffer extends from the wetland boundary. The preliminary buffer locations are illustrated on the Waters of the U.S. Delineation Map (Appendix IV).





4.0 REGULATORY DISCUSSION

The WOUS are regulated by Sections 401 and 404 of the Clean Water Act. State and Federal law dictates that any disturbance to WOUS must be permitted through the appropriate agencies.

Upon your request, we will contact the USACE and/or Maryland Department of the Environment (MDE) to schedule a field meeting to conduct a wetlands and Waters boundary confirmation. This process takes an average of one to three months depending on the availability of regulatory personnel. If any potential impacts are proposed, we can assist you with permitting options and support to complete the process. In the interim, we recommend further review of state and federal agency records pertaining to Section 7 (Federal Endangered Species Act) and Section 106 (National Historic Preservation Act). These reviews will generally be required to verify compliance for either the Nationwide Permit (NWP) or General Permit conditions.

The USACE-Baltimore District and the MDE have implemented the Maryland State Programmatic General Permit-5 (MDSPGP-5) program to streamline the permit process and avoid duplication of agency review. All SPGP permit applications are reviewed by the USACE but the permit authorization comes solely from MDE. Notification of potential impacts should be filed with MDE by completing the SPGP Application, and submitting it to the MDE Watershed Management Administration. Upon receipt, the MDE distributes the SPGP to the other resource agencies (USACE, MDE Tidal/Nontidal Wetlands Division, and others) for review and comment. Generally, the programmatic general permit applies to the discharge of dredged or fill material and/or the placement of structures, that are components of a single and complete project, including all attendant features both temporary and/or permanent, which individually and/or cumulatively result in direct or indirect impacts not to exceed 1.0 acre (43,560 square feet) of waters of the United States, including jurisdictional wetlands and/or 2,000 linear feet of streams, for specific categories of activities as regulated by Section 404 of the CWA and/or Section 10 of the Rivers and Harbors Act of 1899. Authorization under the MDSPGP-5 requires compliance with all of the terms and conditions of the MDSPGP-5 and that the activities authorized have only minimal individual and cumulative adverse effects on the environment. All individual impacts for an overall project will be added cumulatively to determine eligibility for authorization under the MDSPGP-5.

Compensatory mitigation for unavoidable impacts to non-tidal Waters and wetlands will generally be provided at a ratio of 2:1 for forested wetlands, 2:1 for scrub/shrub wetlands, and 1:1 for emergent wetlands. Mitigation can include: the purchase or use of mitigation bank credits; wetland preservation/creation; preservation of upland buffers; and in-lieu-fee contribution to the MDE Non-tidal Wetlands Compensation Fund (FUND), for State-jurisdictional wetlands only.





5.0 CONCLUSIONS

Two potentially jurisdictional wetland areas totaling 0.27-acres were identified and delineated within the study area. The locations and boundaries of potentially jurisdictional Waters are illustrated on the attached Waters of the U.S. Delineation Map (Appendix IV).

The flagged WOUS boundaries may be subject to change during the jurisdictional determination meeting with the USACE or MDE. Therefore, ECS cannot guarantee that field conditions and/or WOUS boundaries will not change over time.





Appendix I: Figures



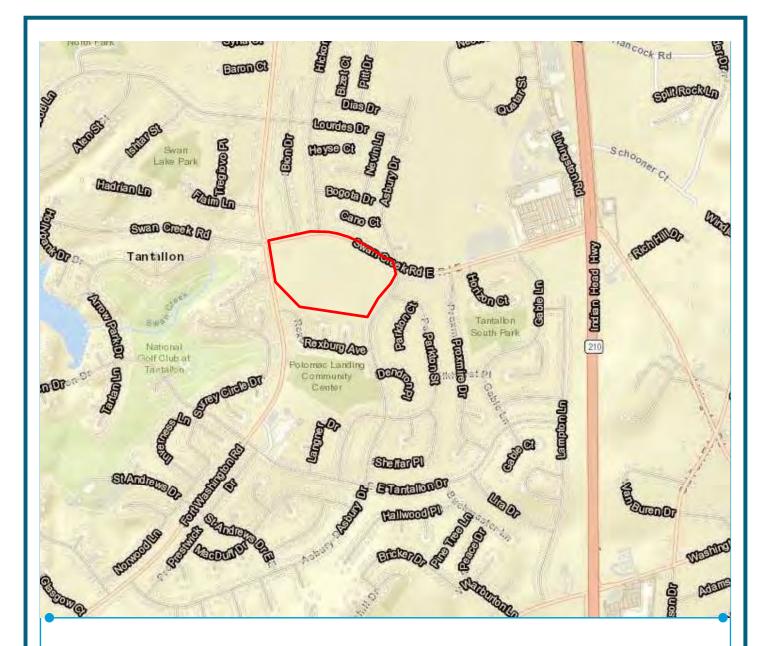


FIGURE I: SITE LOCATION MAP PROJECT #47:9541-D1 — NEW SOUTHERN AREA MIDDLE SCHOOL K-8 PRINCE GEORGE'S COUNTY, MARYLAND



NOT TO SCALE

WETLAND DELINEATION REPORT

FOR: JONES LANG LASALLE

JANUARY 2020

SOURCE: POINTFINDER SUITE



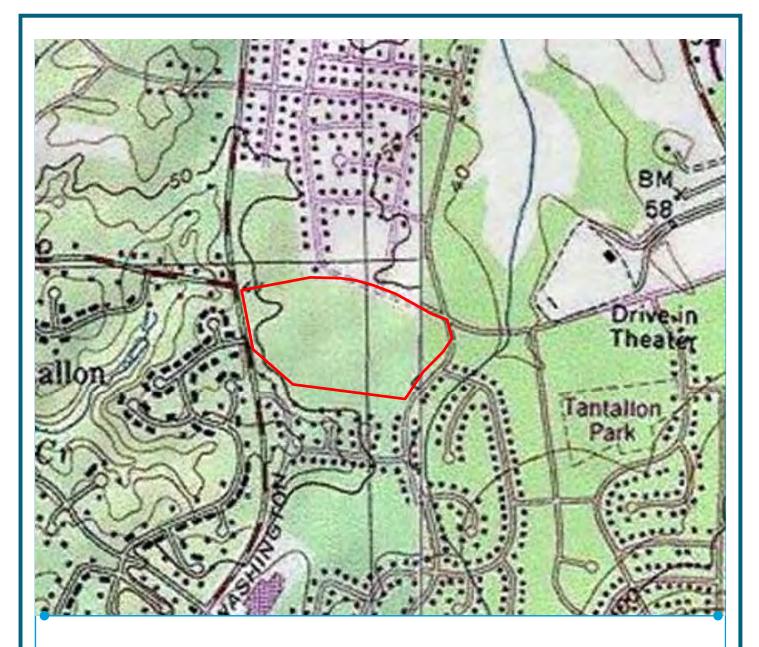


FIGURE II: USGS TOPOGRAPHIC MAP PROJECT #47:9541-D1 — NEW SOUTHERN AREA MIDDLE SCHOOL K-8 PRINCE GEORGE'S COUNTY, MARYLAND



NOT TO SCALE

WETLAND DELINEATION REPORT

FOR: JONES LANG LASALLE

JANUARY 2020

SOURCE: THE USGS STORE





FIGURE III: USDA SOILS MAP PROJECT #47:9541-D1 — NEW SOUTHERN AREA MIDDLE SCHOOL K-8 PRINCE GEORGE'S COUNTY, MARYLAND

NOT TO SCALE

WETLAND DELINEATION REPORT

FOR: JONES LANG LASALLE

JANUARY 2020

SOURCE: NRCS WEB SOIL SURVEY



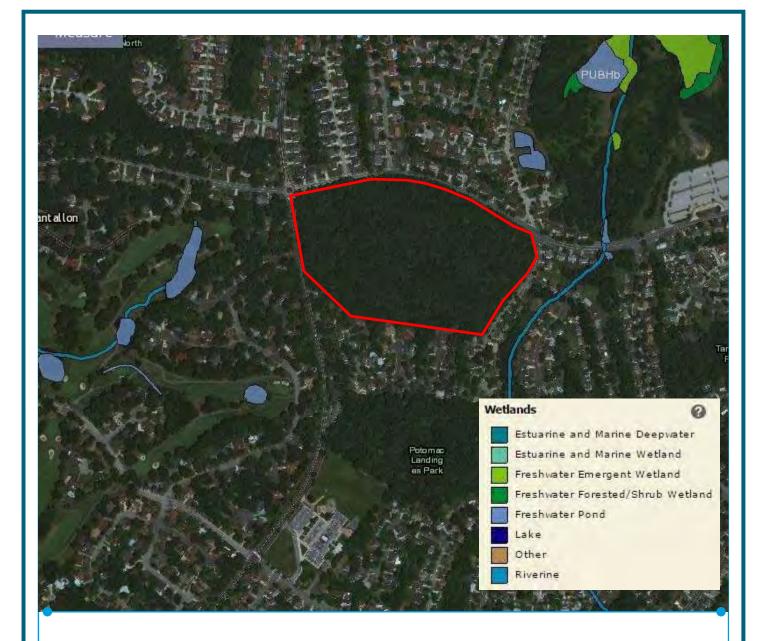


FIGURE IV: NATIONAL WETLANDS INVENTORY MAP PROJECT #47:9541-D1 — NEW SOUTHERN AREA MIDDLE SCHOOL K-8 PRINCE GEORGE'S COUNTY, MARYLAND



NOT TO SCALE

WETLAND DELINEATION REPORT

FOR: JONES LANG LASALLE

JANUARY 2020

SOURCE: USFWS WETLANDS MAPPER





FIGURE V: FEMA FLOODPLAIN MAP PROJECT #47:9541-D1 — NEW SOUTHERN AREA MIDDLE SCHOOL K-8 PRINCE GEORGE'S COUNTY, MARYLAND

NOT TO SCALE

WETLAND DELINEATION REPORT

FOR: JONES LANG LASALLE

JANUARY 2020

SOURCE: FEMA





FIGURE VI: MARYLAND WETLAND INVENTORY MAP PROJECT #47:9541-D1 — NEW SOUTHERN AREA MIDDLE SCHOOL K-8 PRINCE GEORGE'S COUNTY, MARYLAND



NOT TO SCALE

WETLAND DELINEATION REPORT

FOR: JONES LANG LASALLE

JANUARY 2020

SOURCE: MD MERLIN



Appendix II: USACE Wetland Data Forms



WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

Project/Site: New Southern Area Middle School K-8	City/County: Prince	e George's C	ounty _{Sa}	ampling Date: 12/13/2019	
Applicant/Owner: Jones Lang LaSalle		State	e: MD Sa	ampling Date: <u>12/13/2019</u> ampling Point: <u>UDP-1</u>	
Investigator(s): L. Calvert, T. Witt					
				Slope (%): <u>0-2</u>	
Subregion (LRB or MLRA): MLRA 149	245215599	-77.0	019554443	Datum: NAD83	
Subregion (LRR or MLRA): MLRA 149 Lat: 38.7245215599 Long: -77.0019554443 Datum: NAI Soil Map Unit Name: Piccowaxen-Liverpool complex, 2 to 5 percent slopes (PoB) NWI classification: UPL VIII					
Are climatic / hydrologic conditions on the site typical for this time of y					
Are Vegetation <u>No</u> , Soil <u>No</u> , or Hydrology <u>No</u> significantl				sent? Yes X No	
Are vegetation, Soil, or Hydrology significant			ain any answers i		
SUMMARY OF FINDINGS – Attach site map showin					
Hydrophytic Vegetation Present? Yes No _X Hydric Soil Present? Yes No _X Wetland Hydrology Present? Yes No _X Remarks: Xesting		led Area		X	
Plot taken in the north-central portion of the st					
Wetland Hydrology Indicators:		Sec	condary Indicator	s (minimum of two required)	
Primary Indicators (minimum of one is required; check all that apply))	\Box	Surface Soil Cra		
Surface Water (A1)	13)			ated Concave Surface (B8)	
High Water Table (A2)	5) (LRR U)		Drainage Patter	ns (B10)	
Saturation (A3)	. ,	닏	Moss Trim Lines	s (B16)	
U Water Marks (B1)	oots (C3)	Dry-Season Wa			
Sediment Deposits (B2)	. ,		Crayfish Burrow	()	
Drift Deposits (B3)	;6) <u> </u>		le on Aerial Imagery (C9)		
Algal Mat or Crust (B4) Thin Muck Surface		Geomorphic Po	()		
Inundation Visible on Aerial Imagery (B7)	(cindiks)	☐ Shallow Aquitard (D3) ☐ FAC-Neutral Test (D5)			
Water-Stained Leaves (B9)		Sphagnum moss (D8) (LRR T, U)			
Field Observations:					
Surface Water Present? Yes No X Depth (inches	s):				
Water Table Present? Yes No X Depth (inches					
Saturation Present? Yes <u>No X</u> Depth (inches (includes capillary fringe)	s):	Wetland Hydr	ology Present?	Yes No	
Describe Recorded Data (stream gauge, monitoring well, aerial phot	tos, previous inspectio	ons), if availabl	e:		
Remarks:					
DRAFT					

VEGETATION (Four Strata) – Use scientific names of plants.

Sampling Point: UDP-1

20 fast	Absolute		t Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: <u>30 feet</u>)	-		<u>Status</u>	Number of Dominant Species
1. White oak (Quercus alba)	60	Yes	FACU	That Are OBL, FACW, or FAC: 2 (A)
2. Red maple (Acer rubrum)	25	Yes	FAC	Total Number of Dominant
3. Red oak (Quercus rubra)	7	No	FACU	Species Across All Strata: 5 (B)
4. Burr oak (Quercus macrocarpa)	5	No	FACU	Percent of Dominant Species
5				That Are OBL, FACW, or FAC: <u>40</u> (A/B)
6				、 ,
7				Prevalence Index worksheet:
8				Total % Cover of:Multiply by:
0		= Total Co		OBL species x 1 =
50% of total cover: 48.5				FACW species x 2 =
	20% 0	total cove	er. <u></u>	FAC species x 3 =
Sapling/Shrub Stratum (Plot size: <u>15 feet</u>) American beech (Fagus grandifolia)	10	Vaa	FACU	FACU species x 4 =
	10	Yes		UPL species x 5 =
2. White oak (Quercus alba)	10	Yes	FACU	
3				Column Totals: (A) (B)
4				Prevalence Index = B/A =
5				Hydrophytic Vegetation Indicators:
6				
7				1 - Rapid Test for Hydrophytic Vegetation
				2 - Dominance Test is >50%
8	20			3 - Prevalence Index is ≤3.0 ¹
10	20			Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover: <u>10</u>	20% of	total cove	er: <u>4</u>	
Herb Stratum (Plot size: 5 feet)				¹ Indicators of hydric soil and wetland hydrology must
1				be present, unless disturbed or problematic.
2				Definitions of Four Vegetation Strata:
3.				
				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
4				more in diameter at breast height (DBH), regardless of height.
5				lioigni.
6				Sapling/Shrub – Woody plants, excluding vines, less
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8				Herb – All herbaceous (non-woody) plants, regardless
9				of size, and woody plants less than 3.28 ft tall.
10				Weedwaine All weedwaines greater than 2.29 ft in
11				Woody vine – All woody vines greater than 3.28 ft in height.
12.				lioigni.
12	0	- Tatal Ca		
50% of total cover:	20% of	total cove	er:	
<u>Woody Vine Stratum</u> (Plot size: <u>30 feet</u>)				
1. Roundleaf greenbrier (Smilax rotundifolia)	10	Yes	FAC	
2				
3				
4				
5	10	Tatal Oa		Hydrophytic Vegetation
		= Total Co		Present? Yes No _X
50% of total cover: <u>5</u>		total cove	er: <u>2</u>	
Remarks: (If observed, list morphological adaptations belo DRAFT	w).			

SOIL	
------	--

Profile Desc	cription: (Describ	be to the depth	n needed to document the indicator or confirm	n the absence o	f indicators.)
Depth (inches)	Matrix Color (moist)	%	Redox Features Color (moist) % Type ¹ Loc ²	Texture	Remarks
<u>(incries)</u> 0-3	10YR 4/3	100		SiL	Remarks
3-15	10YR 5/6	100		SiCL	
15-18					
10-10	2.5Y 6/4	100		CL	
¹ Type: C=C	oncentration, D=D	epletion, RM=F	Reduced Matrix, MS=Masked Sand Grains.	² Location: F	PL=Pore Lining, M=Matrix.
			RRs, unless otherwise noted.)		or Problematic Hydric Soils ³ :
Histosol	()		Polyvalue Below Surface (S8) (LRR S, T, L		uck (A9) (LRR O)
	pipedon (A2)		Thin Dark Surface (S9) (LRR S, T, U)		uck (A10) (LRR S)
	istic (A3) en Sulfide (A4)		Loamy Mucky Mineral (F1) (LRR O)		d Vertic (F18) (outside MLRA 150A,B) nt Floodplain Soils (F19) (LRR P, S, T)
	d Layers (A5)		Depleted Matrix (F3)		bus Bright Loamy Soils (F20)
	Bodies (A6) (LRR	: P, T, U)	Redox Dark Surface (F6)		A 153B)
	ucky Mineral (A7) (Depleted Dark Surface (F7)		ent Material (TF2)
	resence (A8) (LRR		Redox Depressions (F8)		allow Dark Surface (TF12)
	uck (A9) (LRR P, T d Below Dark Surfa	-	Marl (F10) (LRR U) Depleted Ochric (F11) (MLRA 151)	U Other (E	xplain in Remarks)
	ark Surface (A12)		Iron-Manganese Masses (F12) (LRR O, P,	T) ³ Indica	tors of hydrophytic vegetation and
	rairie Redox (A16)	(MLRA 150A)			and hydrology must be present,
	/lucky Mineral (S1)) (LRR O, S)	Delta Ochric (F17) (MLRA 151)	unles	s disturbed or problematic.
	Bleyed Matrix (S4)		Reduced Vertic (F18) (MLRA 150A, 150B)		
	Redox (S5) I Matrix (S6)		Piedmont Floodplain Soils (F19) (MLRA 14		152D)
	rface (S7) (LRR P	. S. T. U)		(A 149A, 155C,	1930)
	Layer (if observe				
Туре:					
Depth (in	ches):			Hydric Soil F	Present? Yes <u>No X</u>
Remarks:				1	
			T		
)R/				

WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

Project/Site: New Southern Area Middle School K-8	City/County: Princ	e George's	County	Sampling Date:	12/13/2019
Applicant/Owner: Jones Lang LaSalle	City/County: Princ	Sta	ate: MD	Sampling Point:	UDP-2
Investigator(s): L. Calvert, T. Witt					
	Local relief (conca			Slor	_{be (%):} 0-2
Subregion (LRR or MLRA): MLRA 149	239088352	Long76	.9995745056	Da	tum. NAD83
Subregion (LRR or MLRA): MLRA 149 Lat: 38.72 Soil Map Unit Name: Piccowaxen-Liverpool complex, 2 to 5 per	rcent slopes (PoB)	NIW/L classifics	UPL	<u> </u>
Are climatic / hydrologic conditions on the site typical for this time of y					
Are Vegetation <u>No</u> , Soil <u>No</u> , or Hydrology <u>No</u> significantly				resent? Yes /	X No
Are vegetation, soil, or Hydrology significantly Are Vegetation No, Soil _No, or Hydrology _No naturally pr			lain any answer		NO
SUMMARY OF FINDINGS – Attach site map showing					eatures, etc.
Hydrophytic Vegetation Present? Yes No X Hydric Soil Present? Yes No X Wetland Hydrology Present? Yes No X Remarks: Ketter Ketter Ketter Ketter		oled Area		NoX	
HYDROLOGY					
Wetland Hydrology Indicators:		Se	econdary Indicat	tors (minimum of	two required)
Primary Indicators (minimum of one is required; check all that apply)		L	Surface Soil (
Surface Water (A1)	,	Ļ		etated Concave	Surface (B8)
High Water Table (A2) Saturation (A3) Marl Deposits (B1 Hydrogen Sulfide			_ Drainage Pati ☐ Moss Trim Lir		
Water Marks (B1)	oots (C3)	=	Nater Table (C2)		
Sediment Deposits (B2)		Crayfish Burn			
Drift Deposits (B3)	C6)	Saturation Vis	sible on Aerial Im	agery (C9)	
Algal Mat or Crust (B4)	Ļ	Geomorphic I	()		
Iron Deposits (B5)	Remarks)	Ļ	Shallow Aquit		
Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9)	I FAC-Neutral Test (D5) Sphagnum moss (D8) (LRR T, U)				
Field Observations:					, 0)
Surface Water Present? Yes No X Depth (inches	s):				
Water Table Present? Yes No X Depth (inches					
Saturation Present? Yes No X Depth (inches	s):	Wetland Hyd	drology Presen	t? Yes	X
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial phot	tos, previous inspect	ions), if availal	ble:		
Remarks:					
Nemarks.					
DRAFT					

VEGETATION (Four Strata) – Use scientific names of plants.

Sampling Point: UDP-2

20.6		Dominant		Dominance Test worksheet:
Tree Stratum (Plot size: <u>30 feet</u>)		Species?		Number of Dominant Species
1. White oak (Quercus alba)	40	Yes	FACU	That Are OBL, FACW, or FAC: _1(A)
2. Red maple (Acer rubrum)	30	Yes	FAC	Total Number of Dominant
3. Pitch pine (Pinus rigida)	15	No	FACU	Species Across All Strata: <u>3</u> (B)
4				
5				Percent of Dominant Species That Are OBL, FACW, or FAC: 33.3 (A/B)
6				
7				Prevalence Index worksheet:
				Total % Cover of: Multiply by:
8				OBL species x 1 =
		= Total Cov		FACW species x 2 =
50% of total cover: <u>42.2</u>	20% of	total cover:	17	FAC species x 3 =
Sapling/Shrub Stratum (Plot size: 15 feet)				
1. American beech (Fagus grandifolia)	40	Yes	FACU	FACU species x 4 =
2. American holly (llex opaca)	5	No	FAC	UPL species x 5 =
3				Column Totals: (A) (B)
4				Prevalence Index = B/A =
5				
				Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7				2 - Dominance Test is >50%
8				3 - Prevalence Index is ≤3.0 ¹
		= Total Cov		Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover: 22.5	20% of	total cover:	9	
Herb Stratum (Plot size: 5 feet)				¹ Indicators of hydric soil and wetland hydrology must
1				be present, unless disturbed or problematic.
2				Definitions of Four Vegetation Strata:
				Definitions of Four Vegetation official
3				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
4				more in diameter at breast height (DBH), regardless of
5				height.
6				Sapling/Shrub – Woody plants, excluding vines, less
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8				Herb – All herbaceous (non-woody) plants, regardless
9				of size, and woody plants less than 3.28 ft tall.
10				
11				Woody vine – All woody vines greater than 3.28 ft in height.
				neight.
12	0			
		= Total Cov		
50% of total cover:	20% of	total cover:		
Woody Vine Stratum (Plot size: 30 feet)				
1				
2				
3				
4				
5	~			Hydrophytic
		= Total Cov		Vegetation Present? Yes No _X
50% of total cover:	20% of	total cover:		
Remarks: (If observed, list morphological adaptations belo	w).			
DRAFT				

Profile Desc	ription: (Describe	to the depth	n needed to docu	ment the indicat	tor or confirn	n the absence	of indicators.)
Depth (inches)	<u>Matrix</u> Color (moist)	%	Redo Color (moist)	ox Features %%	e ¹ Loc ²	Texture	Remarks
<u>(incres)</u> 0-4	2.5Y 4/3	100		<u></u>		SiC	
4-18	10YR 6/4	100				CL	
¹ Type: C=Co	oncentration, D=Dep	oletion, RM=F	Reduced Matrix, M	S=Masked Sand	Grains.	² Location:	PL=Pore Lining, M=Matrix.
Hydric Soil I	ndicators: (Applic	able to all L	RRs, unless othe	erwise noted.)		Indicators	for Problematic Hydric Soils ³ :
Histosol				elow Surface (S8			/luck (A9) (LRR O)
	pipedon (A2)			urface (S9) (LRR ‹y Mineral (F1) (L			/luck (A10) (LRR S) ed Vertic (F18) (outside MLRA 150A,B)
Black His	n Sulfide (A4)			ed Matrix (F2)	.KR U)		ont Floodplain Soils (F19) (LRR P, S, T)
	Layers (A5)		Depleted Ma				alous Bright Loamy Soils (F20)
	Bodies (A6) (LRR F	P, T, U)	Redox Dark	Surface (F6)			RA 153B)
	cky Mineral (A7) (L			ark Surface (F7)			arent Material (TF2)
	esence (A8) (LRR L	J)		essions (F8)			hallow Dark Surface (TF12)
	ck (A9) (LRR P, T) I Below Dark Surfac	e (A11)	Marl (F10) (I	LRR U) hric (F11) (MLR /	∆ 151)		(Explain in Remarks)
	irk Surface (A12)			nese Masses (F1	-	T) ³ Indic	ators of hydrophytic vegetation and
	airie Redox (A16) (MLRA 150A)		ace (F13) (LRR F		,	land hydrology must be present,
	lucky Mineral (S1) (LRR O, S)		: (F17) (MLRA 1 5			ess disturbed or problematic.
	leyed Matrix (S4)			ertic (F18) (MLRA			
	edox (S5) Matrix (S6)			oodplain Soils (F Bright Loamy Soi	, ,		153D)
	face (S7) (LRR P, 	S, T, U)		Dright Louny Col			, 1002)
	ayer (if observed)						
Туре:							, and the second s
Depth (inc	ches):					Hydric Soil	Present? Yes <u>No X</u>
Remarks:						·	
	RA						

WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

Project/Site: New Southern Area Middle School K-8	City/County: Prince George's County Sampling Date: 12/13/2019
Applicant/Owner: Jones Lang LaSalle	City/County: Prince George's County Sampling Date: 12/13/2019 State: MD Sampling Point: UDP-3
	Section, Township, Range:
- · · · ·	Local relief (concave, convex, none): <u>none</u> Slope (%): <u>0-1</u>
Subregion (I RR or MI RA). MLRA 149	27322703
Soil Map Unit Name [.] Piccowaxen-Liverpool complex, 2 to 5 per	27322703 Long: -77.0000496247 Datum: NAD83 ccent slopes (PoB) NWI classification: UPL Description: Description:
Are climatic / hydrologic conditions on the site typical for this time of ye	
Are Vegetation <u>No</u> , Soil <u>No</u> , or Hydrology <u>No</u> significantly	
Are Vegetation <u>No</u> , Soil <u>No</u> , or Hydrology <u>No</u> naturally pro	
	g sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No X Wetland Hydrology Present? Yes No X	Is the Sampled Area
Wetland Hydrology Present? Yes No X	within a Wetland? Yes No
Remarks:	
Plot representative of upland habitat surroundi	ing Wetland W1. Hydrophytic vegetation is present,
	licators are not present; therefore, the data point is not
within a wetland.	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1)	3)
High Water Table (A2)	5) (LRR U) Drainage Patterns (B10)
Saturation (A3)	Odor (C1) Moss Trim Lines (B16)
U Water Marks (B1)	eres along Living Roots (C3)
Sediment Deposits (B2)	
	tion in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	
Iron Deposits (B5)	
☐ Inundation Visible on Aerial Imagery (B7) ☐ Water-Stained Leaves (B9)	FAC-Neutral Test (D5) Sphagnum moss (D8) (LRR T, U)
Field Observations:	
Surface Water Present? Yes No X Depth (inches	()·
Water Table Present? Yes No _X Depth (inches))·
Saturation Present? Yes <u>No X</u> Depth (inches	
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photo	os, previous inspections), if available:
Remarks:	
Remains.	
DRAFT	

VEGETATION (Four Strata) – Use scientific names of plants.

Sampling	Point:	UDP-3
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	Absolute			Dominance Test worksheet:
Tree Stratum (Plot size: <u>30 feet</u>)		Species?		Number of Dominant Species
1. Red maple (Acer rubrum)	80	Yes	FAC	That Are OBL, FACW, or FAC: (A)
2. Sweet gum (Liquidambar styraciflua)	15	No	FAC	Total Number of Dominant
3				Species Across All Strata: <u>3</u> (B)
4				
5				Percent of Dominant Species That Are OBL, FACW, or FAC: 66.7 (A/B)
6				That Ale OBL, FACW, OF FAC (A/B)
				Prevalence Index worksheet:
7				Total % Cover of:Multiply by:
8	05			OBL species x 1 =
47.5		= Total Cov		FACW species x 2 =
50% of total cover: <u>47.5</u>	20% of	total cover	19	FAC species x 3 =
Sapling/Shrub Stratum (Plot size: 15 feet)				
1. <u>American beech (Fagus grandifolia)</u>	5	Yes	FACU	FACU species x 4 =
2. American holly (llex opaca)	3	Yes	FAC	UPL species x 5 =
3				Column Totals: (A) (B)
4				Dravalance Index - R/A -
5.				Prevalence Index = B/A =
				Hydrophytic Vegetation Indicators:
67				1 - Rapid Test for Hydrophytic Vegetation
7				✓ 2 - Dominance Test is >50%
8				3 - Prevalence Index is $\leq 3.0^1$
		= Total Cov		Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover: 4	20% of	total cover	1.6	
Herb Stratum (Plot size: 5 feet)				¹ Indicators of hydric soil and wetland hydrology must
1				be present, unless disturbed or problematic.
2				Definitions of Four Vegetation Strata:
3.				
				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of
4				height.
5				
6				Sapling/Shrub – Woody plants, excluding vines, less
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8				Herb – All herbaceous (non-woody) plants, regardless
9				of size, and woody plants less than 3.28 ft tall.
10				Woody vine – All woody vines greater than 3.28 ft in
11				height.
12.				
	0	= Total Cov		
50% of total cover:				
	20 /0 01		·	
Woody Vine Stratum (Plot size: <u>30 feet</u>)				
1				
2				
3				
4				
5				Hydrophytic
	0	= Total Cov	'er	Vegetation
50% of total cover:	20% of	total cover		Present? Yes <u>X</u> No
Remarks: (If observed, list morphological adaptations belo				
DRAFT	,			

SOIL

		e to the depth	needed to document		or confirm	the absence	of indicators.)
Depth (inches)	<u>Matrix</u> Color (moist)	%	Redox Fea	tures 6 Type ¹	Loc ²	Texture	Remarks
<u>0-10</u>	10YR 5/3				LUC	SiL	Remarks
10-18	2.5Y 6/4	100				SiCL	
	2.01 0/4						
			<u></u>				
			Reduced Matrix, MS=Ma		ins.		PL=Pore Lining, M=Matrix.
Hydric Soil	Indicators: (Appli	cable to all L	RRs, unless otherwise				for Problematic Hydric Soils ³ :
Histosol			Polyvalue Below S				Auck (A9) (LRR O)
Histic Ep	oipedon (A2)		Thin Dark Surface				/luck (A10) (LRR S) ed Vertic (F18) (outside MLRA 150A,B)
	n Sulfide (A4)		Loamy Gleyed Ma		0,		ont Floodplain Soils (F19) (LRR P, S, T)
	d Layers (A5)		Depleted Matrix (F	. ,			alous Bright Loamy Soils (F20)
	Bodies (A6) (LRR I		Redox Dark Surfa	. ,			RA 153B)
	icky Mineral (A7) (L		Depleted Dark Su	. ,			arent Material (TF2)
	esence (A8) (LRR ick (A9) (LRR P, T)		Redox Depression	· ,			hallow Dark Surface (TF12) (Explain in Remarks)
	d Below Dark Surfa		Depleted Ochric (F		1)		
	ark Surface (A12)		Iron-Manganese M				ators of hydrophytic vegetation and
	rairie Redox (A16) (lucky Mineral (S1) (U)		land hydrology must be present,
	Bleyed Matrix (S4)	(LKK 0, 3)	Delta Ochric (F17))A. 150B)		ess disturbed or problematic.
	ledox (S5)		Piedmont Floodpla				
	Matrix (S6)		Anomalous Bright	Loamy Soils (F	20) (MLR	A 149A, 153C	, 153D)
	rface (S7) (LRR P,					1	
Type:	_ayer (if observed):					
Depth (inc	ches).					Hydric Soil	Present? Yes <u>No X</u>
Remarks:						I I yune con	
r tomanto.							
	RA						

WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

Project/Site: New Southern Area Middle School K-8	City/County: Prince	George's County	Sampling Date: 12/13/2019
Applicant/Owner: Jones Lang LaSalle	· · · <u> </u>	_{State:} MD	Sampling Date: <u>12/13/2019</u> Sampling Point: <u>UDP-4</u>
Investigator(s): L. Calvert, T. Witt			
	-		Slope (%): <u>3-5</u>
Subregion (LRB or MLRA): MLRA 149	229600817	-77.0017589154	Datum: NAD83
Subregion (LRR or MLRA): MLRA 149 Lat: 38.72 Soil Map Unit Name: Piccowaxen-Liverpool complex, 2 to 5 per	rcent slopes (PoB)	NWI classific	cation: UPL
Are climatic / hydrologic conditions on the site typical for this time of y			
Are Vegetation <u>No</u> , Soil <u>No</u> , or Hydrology <u>No</u> significantl			present? Yes X No
Are Vegetation <u>No</u> , Soil <u>No</u> , or Hydrology <u>No</u> naturally p		eeded, explain any answe	
SUMMARY OF FINDINGS – Attach site map showin			
Hydrophytic Vegetation Present? Yes No X Hydric Soil Present? Yes No X Wetland Hydrology Present? Yes No X Remarks: Ketter Ketter Ketter Ketter	Is the Sample within a Wetla		NoX
HYDROLOGY	- 		
Wetland Hydrology Indicators:		Secondary Indica	ators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply))	Surface Soil	Cracks (B6)
Surface Water (A1)	,		getated Concave Surface (B8)
High Water Table (A2)		Drainage Pa	
Saturation (A3)	Odor (C1) heres along Living Root	Moss Trim L	
□ Water Marks (B1) □ Oxidized Rhizospi □ Sediment Deposits (B2) □ Presence of Redu		Crayfish Bur	Water Table (C2)
	ction in Tilled Soils (C6)		isible on Aerial Imagery (C9)
Algal Mat or Crust (B4)			Position (D2)
Iron Deposits (B5)	Remarks)	Shallow Aqu	itard (D3)
Inundation Visible on Aerial Imagery (B7)		FAC-Neutral	(<i>)</i>
Water-Stained Leaves (B9)		Sphagnum r	noss (D8) (LRR T, U)
Field Observations:	、		
Surface Water Present? Yes No X Depth (inche:			
Water Table Present? Yes No _X Depth (inchest saturation Present? Yes No _X Depth (inchest saturation Present?		etland Hydrology Prese	nt? Yes No X
(includes capillary fringe)			
Describe Recorded Data (stream gauge, monitoring well, aerial phot	tos, previous inspection	s), if available:	
Remarks:			
DRAFT			

VEGETATION (Four Strata) – Use scientific names of plants.

Sampling	Point:	UDP-4
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20 feet	Absolute			Dominance Test worksheet:	
Tree Stratum (Plot size: <u>30 feet</u>)		Species?		Number of Dominant Species	
1. White oak (Quercus alba)	80	Yes	FACU	That Are OBL, FACW, or FAC: 1 ((A)
2. Red maple (Acer rubrum)	15	No	FAC	Total Number of Dominant	
3					(B)
4					. ,
5				Percent of Dominant Species	
				That Are OBL, FACW, or FAC: 33.3 ((A/B)
6				Prevalence Index worksheet:	
7				Total % Cover of: Multiply by:	
8				OBL species x 1 =	-
	95	= Total Cov	'er		
50% of total cover: 47.5	20% of	total cover	19	FACW species x 2 =	
Sapling/Shrub Stratum (Plot size: 15 feet)				FAC species x 3 =	
1. American beech (Fagus grandifolia)	15	Yes	FACU	FACU species x 4 =	
				UPL species x 5 =	
2				Column Totals: (A)	(B)
3				()	()
4	·			Prevalence Index = B/A =	
5				Hydrophytic Vegetation Indicators:	
6				1 - Rapid Test for Hydrophytic Vegetation	
7				\square 2 - Dominance Test is >50%	
8					
0		= Total Cov		3 - Prevalence Index is ≤3.0 ¹	
75				Problematic Hydrophytic Vegetation ¹ (Explain))
50% of total cover: 7.5	20% of	total cover			
Herb Stratum (Plot size: 5 feet)				¹ Indicators of hydric soil and wetland hydrology mu	ust
1	<u> </u>			be present, unless disturbed or problematic.	
2				Definitions of Four Vegetation Strata:	
3.					
				Tree – Woody plants, excluding vines, 3 in. (7.6 cm	
4				more in diameter at breast height (DBH), regardles height.	ss of
5				lioght	
6	·			Sapling/Shrub – Woody plants, excluding vines, le	ess
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall.	
8				Herb – All herbaceous (non-woody) plants, regard	less
9				of size, and woody plants less than 3.28 ft tall.	1000
10					
	·			Woody vine – All woody vines greater than 3.28 ft	t in
11	·			height.	
12	·				
	0	= Total Cov	er		
50% of total cover:	20% of	total cover	:		
Woody Vine Stratum (Plot size: <u>30 feet</u>)					
1. Roundleaf greenbrier (Smilax rotundifolia)	10	Yes	FAC		
2	·				
3					
4	·				
5	·			Hydrophytic	
	10	= Total Cov	rer	Vegetation	
50% of total cover: <u>5</u>	20% of	total cover	2	Present? Yes No X	
Remarks: (If observed, list morphological adaptations belo	ow).				
DRAFT					

SOIL

	•	e to the depth	needed to document the indicator or co	onfirm t	he absence	of indicators.)
Depth (inches)	Matrix Color (moist)	%	<u>Redox Features</u> <u>Color (moist) % Type¹ Lo</u>	oc ²	Texture	Remarks
<u>(incries)</u> 0-4	2.5Y 6/4				SiCL	I Centarios
4-18	10YR 6/4	100 -			CL	
	1011(0/4					
1 Type: C=C	ncentration D-De	nletion RM-E	educed Matrix, MS=Masked Sand Grains.		² Location:	PL=Pore Lining, M=Matrix.
			RRs, unless otherwise noted.)	•		for Problematic Hydric Soils ³ :
Histosol			Polyvalue Below Surface (S8) (LRR S	S. T. U)		Muck (A9) (LRR O)
	pipedon (A2)		Thin Dark Surface (S9) (LRR S, T, U)			Muck (A10) (LRR S)
🔲 Black Hi			Loamy Mucky Mineral (F1) (LRR O)			ed Vertic (F18) (outside MLRA 150A,B)
	n Sulfide (A4)		Loamy Gleyed Matrix (F2)			ont Floodplain Soils (F19) (LRR P, S, T)
	Layers (A5)	- - - II)	Depleted Matrix (F3)			alous Bright Loamy Soils (F20)
_	Bodies (A6) (LRR I icky Mineral (A7) (L		Redox Dark Surface (F6) Depleted Dark Surface (F7)			RA 153B) arent Material (TF2)
	esence (A8) (LRR		Redox Depressions (F8)			Shallow Dark Surface (TF12)
	ick (A9) (LRR P, T)	-	Marl (F10) (LRR U)			(Explain in Remarks)
	d Below Dark Surfa	ce (A11)	Depleted Ochric (F11) (MLRA 151)			
	ark Surface (A12)		Iron-Manganese Masses (F12) (LRR	R O, P, T		cators of hydrophytic vegetation and
	rairie Redox (A16) (lucky Mineral (S1) (Umbric Surface (F13) (LRR P, T, U) Delta Ochric (F17) (MLRA 151)			tland hydrology must be present, ess disturbed or problematic.
	lleyed Matrix (S4)		Reduced Vertic (F18) (MLRA 150A, 1	150B)	uni	
	edox (S5)		Piedmont Floodplain Soils (F19) (MLI		A)	
	Matrix (S6)		Anomalous Bright Loamy Soils (F20)	(MLRA	149A, 153C	s, 153D)
	rface (S7) (LRR P,					
_	_ayer (if observed):				
Туре:						Present? Yes <u>No X</u>
Depth (inc	cnes):				Hydric Soil	Present? Yes <u>No X</u>
Remarks:						
			T			
	RA					

WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

Project/Site: New Southern Area Middle School K-8	City/County: Prince	e George's County	Sampling D	_{ate:} 12/13/2019
Applicant/Owner: Jones Lang LaSalle	· · · <u> </u>	e George's County State: MD	Sampling P	oint: UDP-5
Investigator(s): L. Calvert, T. Witt				
		e, convex, none): <u>nor</u>		Slope (%): 0-2
Subregion (LRR or MLRA): MLRA 149	233805567	-77.001306	2049	Datum: NAD83
Subregion (LRR or MLRA): MLRA 149 Lat: 38.72 Soil Map Unit Name: Piccowaxen-Liverpool complex, 2 to 5 per	rcent slopes (PoB)	_ Long	assification. UPL	Datam
Are climatic / hydrologic conditions on the site typical for this time of y				
Are Vegetation <u>No</u> , Soil <u>No</u> , or Hydrology <u>No</u> significantly		e "Normal Circumstar		
Are vegetation, soil, or Hydrology significant		needed, explain any a		
SUMMARY OF FINDINGS – Attach site map showing				
Hydrophytic Vegetation Present? Yes No X Hydric Soil Present? Yes No X Wetland Hydrology Present? Yes No X Remarks: Ketter Ketter Ketter Ketter		ed Area	No	
HYDROLOGY				
Wetland Hydrology Indicators:		<u>Secondary</u>	Indicators (minimu	Im of two required)
Primary Indicators (minimum of one is required; check all that apply)		Surfac	e Soil Cracks (B6)	
Surface Water (A1)	,		ely Vegetated Cond	cave Surface (B8)
High Water Table (A2)			ge Patterns (B10)	
Saturation (A3) Hydrogen Sulfide Water Marks (B1) Oxidized Rhizospl	heres along Living Ro		Γrim Lines (B16) ason Water Table	(C2)
Sediment Deposits (B2)			h Burrows (C8)	(02)
	ction in Tilled Soils (C		tion Visible on Aer	ial Imagery (C9)
Algal Mat or Crust (B4)			orphic Position (D2	
Iron Deposits (B5)	Remarks)	Shallov	w Aquitard (D3)	
Inundation Visible on Aerial Imagery (B7)			eutral Test (D5)	
Water-Stained Leaves (B9)		<u> Sphag</u>	num moss (D8) (L	RR T, U)
Field Observations: Surface Water Present? Yes No _X Depth (inchest)	-):			
Water Table Present? Yes No Depth (inclusion) Water Table Present? Yes No Depth (inclusion)				
Saturation Present? Yes No X Depth (inches		Wetland Hydrology F	Present? Yes	No X
(includes capillary fringe)				
Describe Recorded Data (stream gauge, monitoring well, aerial phot	tos, previous inspectio	ons), if available:		
Remarks:				
DRAFT				

VEGETATION (Four Strata) – Use scientific names of plants.

Sampling Point: UDP-5

	Absolute			Dominance Test worksheet:
Tree Stratum (Plot size: <u>30 feet</u>)		Species?		Number of Dominant Species
1. White oak (Quercus alba)	50	Yes	FACU	That Are OBL, FACW, or FAC: (A)
2. Red oak (Quercus rubra)	30	Yes	FACU	Total Number of Dominant
3. Willow oak (Quercus phellos)	20	No	FACW	Species Across All Strata: <u>3</u> (B)
4. Red maple (Acer rubrum)	10	No	FAC	Percent of Dominant Species
5				That Are OBL, FACW, or FAC: ^{33.3} (A/B)
6				
7				Prevalence Index worksheet:
8				Total % Cover of:Multiply by:
		= Total Co	ver	OBL species x 1 =
50% of total cover: ⁵⁵	20% of	total cover	. 22	FACW species x 2 =
Sapling/Shrub Stratum (Plot size: 15 feet)				FAC species x 3 =
1 Roundleaf greenbrier (Smilax rotundifolia)	30	Yes	FAC	FACU species x 4 =
2				UPL species x 5 =
				Column Totals: (A) (B)
3				
4				Prevalence Index = B/A =
5				Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7				2 - Dominance Test is >50%
8				3 - Prevalence Index is ≤3.0 ¹
		= Total Co		Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover: <u>15</u>	20% of	total cover	-: 6	
Herb Stratum (Plot size: 5 feet)				¹ Indicators of hydric soil and wetland hydrology must
1				be present, unless disturbed or problematic.
2				Definitions of Four Vegetation Strata:
3.				
				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of
4				height.
5				
6				Sapling/Shrub – Woody plants, excluding vines, less
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8				Herb – All herbaceous (non-woody) plants, regardless
9				of size, and woody plants less than 3.28 ft tall.
10				Woody vine – All woody vines greater than 3.28 ft in
11				height.
12				
	0	= Total Co	ver	
50% of total cover:				
Woody Vine Stratum (Plot size: 30 feet)				
1/				
2				
3				
4				
5				Hydrophytic
		= Total Co		Vegetation Present? Yes No _X
50% of total cover:	20% of	total cover	:	
Remarks: (If observed, list morphological adaptations below	ow).			
DRAFT				

SOIL

Profile Desc	ription: (Describ	e to the depth	needed to document the	indicator or confirm	the absence of	of indicators.)
Depth (inches)	Matrix Color (moist)	%	Redox Feature	esType ¹ Loc ²	Texture	Remarks
<u>(incries)</u> 0-8	10YR 5/3				SiCL	Remarks
8-10	10YR 5/3	100			CL	
10-18	2.5Y 5/3	100			CL	
10-10	2.51 5/5					
			Reduced Matrix, MS=Maske			PL=Pore Lining, M=Matrix.
		icable to all L	RRs, unless otherwise no			for Problematic Hydric Soils ³ :
Histosol	(A1) vipedon (A2)		Polyvalue Below Surf	. , .		uck (A9) (LRR O) uck (A10) (LRR S)
Black Hi	,		Loamy Mucky Minera			ed Vertic (F18) (outside MLRA 150A,B)
Hydroge	n Sulfide (A4)		Loamy Gleyed Matrix			nt Floodplain Soils (F19) (LRR P, S, T)
	Layers (A5)		Depleted Matrix (F3)			ous Bright Loamy Soils (F20)
	Bodies (A6) (LRR cky Mineral (A7) (I		Redox Dark Surface (· ·	A 153B) rent Material (TF2)
	esence (A8) (LRR		Redox Depressions (I	()		nallow Dark Surface (TF12)
	ck (A9) (LRR P, T		Marl (F10) (LRR U)	,		Explain in Remarks)
	Below Dark Surfa	ace (A11)	Depleted Ochric (F11		3,	
	rk Surface (A12) airie Redox (A16)	(MI DA 150A)	Iron-Manganese Mas			ators of hydrophytic vegetation and and hydrology must be present,
	lucky Mineral (S1)	• •	Delta Ochric (F17) (M			ss disturbed or problematic.
	ileyed Matrix (S4)		Reduced Vertic (F18)	(MLRA 150A, 150B)		
	edox (S5)		Piedmont Floodplain	, , ,	-	4520
	Matrix (S6) face (S7) (LRR P ,	S T U)	Anomalous Bright Loa	amy Soils (F20) (MLR	A 149A, 153C,	153D)
	_ayer (if observed					
Туре:						
Depth (ind	ches):				Hydric Soil I	Present? Yes <u>No X</u>
Remarks:						
l						
	RA					

WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

Project/Site: New Southern Area Middle School K-8	City/County: Prince	George's County	Sampling Date: 12/13/2019
Applicant/Owner: Jones Lang LaSalle		_{State:} MD	Sampling Date: <u>12/13/2019</u> Sampling Point: <u>UDP-6</u>
Investigator(s): L. Calvert, T. Witt			
	-		Slope (%): 0-3
Subregion (LRR or MLRA): MLRA 149	236933635	-77.003470631	5 Datum: NAD83
Subregion (LRR or MLRA): MLRA 149 Lat: 38.72 Soil Map Unit Name: Piccowaxen-Liverpool complex, 2 to 5 pe	rcent slopes (PoB)	NW/L classifi	Datum
Are climatic / hydrologic conditions on the site typical for this time of y			
Are vegetation <u>No</u> , Soil <u>No</u> , or Hydrology <u>No</u> significantl			
Are vegetation <u>No_</u> , Soil <u>No_</u> , or Hydrology <u>No</u> naturally p			present? Yes X No
SUMMARY OF FINDINGS – Attach site map showin		needed, explain any answe	
Hydrophytic Vegetation Present? Yes No _X Hydric Soil Present? Yes No _X	Is the Sample	ed Area	
Hydric Soil Present? Yes No X	within a Wetl	and? Yes	<u>No X</u>
Wetland Hydrology Present? Yes No _X Remarks:	-		
Plot taken in the southwestern portion of the s			
HYDROLOGY			
Wetland Hydrology Indicators:		Secondary Indic	ators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	1	Surface Soi	Cracks (B6)
Surface Water (A1)	,	Sparsely Ve	getated Concave Surface (B8)
High Water Table (A2)			atterns (B10)
Saturation (A3)	. ,	ta (C2) Dry Sacan	()
□ Water Marks (B1) □ Oxidized Rhizospi □ Sediment Deposits (B2) □ Presence of Redu	heres along Living Roo	Crayfish Bu	Water Table (C2)
	ction in Tilled Soils (C6		/isible on Aerial Imagery (C9)
Algal Mat or Crust (B4)			Position (D2)
Iron Deposits (B5)	Remarks)	Shallow Aqu	uitard (D3)
Inundation Visible on Aerial Imagery (B7)		FAC-Neutra	
Water-Stained Leaves (B9)		Sphagnum	moss (D8) (LRR T, U)
Field Observations:			
Surface Water Present? Yes No X Depth (inches			
Water Table Present? Yes No _X Depth (inchest saturation Present? Yes No _X Depth (inchest saturation Present?		Vetland Hydrology Prese	nt? Yes No X
(includes capillary fringe)			nt? res No
Describe Recorded Data (stream gauge, monitoring well, aerial phot	tos, previous inspectior	ns), if available:	
Remarks:			
DRAFT			

VEGETATION (Four Strata) – Use scientific names of plants.

Sampling Point: UDP-6

20.6		Dominant		Dominance Test worksheet:
Tree Stratum (Plot size: 30 feet)	-	Species?	-	Number of Dominant Species
1. White oak (Quercus alba)	40	Yes	FACU	That Are OBL, FACW, or FAC: <u>3</u> (A)
2. Red oak (Quercus rubra)	30	Yes	FACU	Total Number of Dominant
3. Sweet gum (Liquidambar styraciflua)	20	Yes	FAC	Species Across All Strata: <u>6</u> (B)
4				Demonstrat Demois and Caracian
5				Percent of Dominant Species That Are OBL, FACW, or FAC: 50 (A/B)
6				
7				Prevalence Index worksheet:
8				Total % Cover of: Multiply by:
0	90	= Total Cov		OBL species x 1 =
50% of total cover: ⁴⁵				FACW species x 2 =
	20% 0	total cover		FAC species x 3 =
Sapling/Shrub Stratum (Plot size: <u>15 feet</u>) American beech (Fagus grandifolia)	15	Yes	FACU	FACU species x 4 =
				UPL species x 5 =
2. Roundleaf greenbrier (Smilax rotundifolia)		Yes	FAC	Column Totals: (A) (B)
3. American holly (llex opaca)	5	No	FAC	
4				Prevalence Index = B/A =
5				Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7				2 - Dominance Test is >50%
8				
		= Total Cov	er.	3 - Prevalence Index is ≤3.0 ¹
50% of total cover: ¹⁵				Problematic Hydrophytic Vegetation ¹ (Explain)
	20 % 01			
<u>Herb Stratum</u> (Plot size: <u>5 feet</u>) 1 Japanese stiltgrass (Microstegium vimineum)	10	Yes	FAC	¹ Indicators of hydric soil and wetland hydrology must
· · ·				be present, unless disturbed or problematic.
2				Definitions of Four Vegetation Strata:
3				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
4				more in diameter at breast height (DBH), regardless of
5				height.
6				Sapling/Shrub – Woody plants, excluding vines, less
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8				
				Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
9				
10				Woody vine – All woody vines greater than 3.28 ft in
11		<u> </u>		height.
12				
_	· · · · · ·	= Total Cov		
50% of total cover: <u>5</u>	20% of	total cover	2	
Woody Vine Stratum (Plot size: <u>30 feet</u>)				
1				
2				
3				
4				
5				Hydrophytic
· · · · · · · · · · · · · · · · · · ·	•	= Total Cov		Vegetation
50% of total cover:				Present? Yes No X
			·	
Remarks: (If observed, list morphological adaptations bel	ow).			
DRAFT				

SOIL

Profile Desc	ription: (Describe	to the depth	needed to document the indicator or con	firm the abso	ence of indicators.)
Depth (inches)	Matrix	%	Redox Features Color (moist) % Type ¹ Loc	2 Toytu	na Domorko
<u>(inches)</u> 0-6	Color (moist) 10YR 4/3		<u>Color (moist)</u> <u>%</u> <u>Type¹</u> Loc	<u>Textu</u> CL	Ire Remarks
6-15+	10YR 6/4	100		SiCL	
17				21	
			Reduced Matrix, MS=Masked Sand Grains.		ation: PL=Pore Lining, M=Matrix. ators for Problematic Hydric Soils ³ :
			Polyvalue Below Surface (S8) (LRR S,		cm Muck (A9) (LRR O)
	vipedon (A2)		Thin Dark Surface (S9) (LRR S, T, U)		cm Muck (A10) (LRR S)
Black Hi	,		Loamy Mucky Mineral (F1) (LRR O)		Reduced Vertic (F18) (outside MLRA 150A,B)
	n Sulfide (A4)		Loamy Gleyed Matrix (F2)		Piedmont Floodplain Soils (F19) (LRR P, S, T)
	Layers (A5)		Depleted Matrix (F3)		nomalous Bright Loamy Soils (F20)
	Bodies (A6) (LRR F		Redox Dark Surface (F6)		(MLRA 153B) Red Parent Material (TF2)
	cky Mineral (A7) (L esence (A8) (LRR I		Depleted Dark Surface (F7) Redox Depressions (F8)		/ery Shallow Dark Surface (TF12)
	ck (A9) (LRR P, T)		Marl (F10) (LRR U)		Other (Explain in Remarks)
	Below Dark Surfac		Depleted Ochric (F11) (MLRA 151)		
	rk Surface (A12)		Iron-Manganese Masses (F12) (LRR O), P, T)	³ Indicators of hydrophytic vegetation and
	airie Redox (A16) (wetland hydrology must be present,
	lucky Mineral (S1) (leyed Matrix (S4)	LRR 0, 5)	Delta Ochric (F17) (MLRA 151) Reduced Vertic (F18) (MLRA 150A, 15	(0B)	unless disturbed or problematic.
	edox (S5)		Piedmont Floodplain Soils (F19) (MLRA		
	Matrix (S6)		Anomalous Bright Loamy Soils (F20) (-	153C, 153D)
	face (S7) (LRR P,				
	ayer (if observed)):			
Туре:					N N
Depth (inc	hes):			Hydric	soil Present? Yes No
Remarks:					
	RA				
]			

WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

Project/Site: New Southern Area Middle School K-8	City/County: Prince	George's County	Sampling Da	_{te:} 12/13/2019	
Applicant/Owner: Jones Lang LaSalle	City/County: Prince	_{State:} MD	Sampling Poi	nt: UDP-7	
Investigator(s): L. Calvert, T. Witt					
Landform (hillslope, terrace, etc.), hillslope	Local relief (concave	convex none). none	e .	Slope (%). 0-4	
Subregion (LRR or MLRA): MLRA 149	24258461	-77.004238	 1226	Datum: NAD83	
Subregion (LRR or MLRA): MLRA 149 Lat: 38.72 Soil Map Unit Name: Liverpool-Piccowaxen complex, 5 to 15 p	percent slopes (LxD) NW/Lda	esification. UPL	Datum.	
Are climatic / hydrologic conditions on the site typical for this time of y					
Are Vegetation <u>No</u> , Soil <u>No</u> , or Hydrology <u>No</u> significantly		e "Normal Circumstand		X No	
Are vegetation <u>No</u> , Soil <u>No</u> , or Hydrology <u>No</u> naturally pr					
SUMMARY OF FINDINGS – Attach site map showing		l locations, trans		t leatures, etc.	
Hydrophytic Vegetation Present? Yes No _X Hydric Soil Present? Yes No _X	- Is the Sample	ed Area			
Hydric Soil Present? Yes No X	within a Wetl	land? Yes	<u> </u>		
Wetland Hydrology Present? Yes No _X Remarks:	-				
Plot taken in the northwestern portion of the s					
HYDROLOGY					
Wetland Hydrology Indicators:		Secondary I	ndicators (minimum	n of two required)	
Primary Indicators (minimum of one is required; check all that apply))	Surface	e Soil Cracks (B6)		
B ⁻ Surface Water (A1)	,		y Vegetated Conca	ve Surface (B8)	
High Water Table (A2)		Drainage Patterns (B10)			
Saturation (A3)	. ,	Moss Trim Lines (B16)			
↓ Water Marks (B1) ↓ Oxidized Rhizospl ↓ Sediment Deposits (B2) ↓ Presence of Redu	heres along Living Roo				
	iction in Tilled Soils (C6	(C6) Crayfish Burrows (C8) (C6) Saturation Visible on Aerial Imagery (C9)			
Algal Mat or Crust (B4)		Geomorphic Position (D2)			
Iron Deposits (B5)	Remarks)	Shallow	Aquitard (D3)		
Inundation Visible on Aerial Imagery (B7)		=	eutral Test (D5)		
Water-Stained Leaves (B9)		Sphagn	ium moss (D8) (LRF	R T, U)	
Field Observations:					
Surface Water Present? Yes No X Depth (inches					
Water Table Present? Yes No _X Depth (inchest staturation Present? Yes No _X Depth (inchest staturation Present?		Netland Hydrology P	waaamto Vaa	No X	
(includes capillary fringe)			esentr res		
Describe Recorded Data (stream gauge, monitoring well, aerial phot	tos, previous inspectio	ns), if available:			
Remarks:					
i contante.					
DRAFT					

VEGETATION (Four Strata) – Use scientific names of plants.

Sampling Point: UDP-7

20 fact	Absolute		t Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: <u>30 feet</u>)	-	<u>Species</u>		Number of Dominant Species
1. White oak (Quercus alba)		Yes	FACU	That Are OBL, FACW, or FAC: _0 (A)
2. Red oak (Quercus rubra)	25	Yes	FACU	Total Number of Dominant
3. Sweet gum (Liquidambar styraciflua)	10	No	FAC	Species Across All Strata: ³ (B)
4. American beech (Fagus grandifolia)	10	No	FACU	、
5				Percent of Dominant Species That Are OBL, FACW, or FAC: 0 (A/B)
				That Are OBL, FACW, or FAC: 0 (A/B)
6				Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
8				OBL species x 1 =
		= Total Co		FACW species x 2 =
50% of total cover: 45	20% of	total cove	r: <u>18</u>	
Sapling/Shrub Stratum (Plot size: 15 feet)				FAC species x 3 =
1. American beech (Fagus grandifolia)	10	Yes	FACU	FACU species x 4 =
2				UPL species x 5 =
3.				Column Totals: (A) (B)
4				Prevalence Index = B/A =
5				Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7				2 - Dominance Test is >50%
8				\bigcirc 3 - Prevalence Index is ≤3.0 ¹
	10	= Total Co	over	Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover: 5	20% of	total cove	r: 2	
Herb Stratum (Plot size: 5 feet)				¹ Indicators of hydric soil and wetland hydrology must
1				be present, unless disturbed or problematic.
				Definitions of Four Vegetation Strata:
2				Demittions of Four Vegetation Strata.
3				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
4				more in diameter at breast height (DBH), regardless of
5				height.
6				Sapling/Shrub – Woody plants, excluding vines, less
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8				Herb – All herbaceous (non-woody) plants, regardless
9				of size, and woody plants less than 3.28 ft tall.
10				
				Woody vine – All woody vines greater than 3.28 ft in
11				height.
12				
	0			
50% of total cover:	20% of	total cove	er:	
Woody Vine Stratum (Plot size: 30 feet)				
1				
2				
3				
4				
5	~			Hydrophytic
		= Total Co		Vegetation Present? Yes No _X
50% of total cover:	20% of	total cove	er:	
Remarks: (If observed, list morphological adaptations bel	ow).			
DRAFT				

SOIL

	ription: (Describe	to the depth			or or confirn	n the absence	of indicators.)	
Depth (inches)	<u>Matrix</u> Color (moist)	%	Redo Color (moist)	ox Features % Type	¹ Loc ²	Texture	Remarks	
<u>(incries)</u> 0-6	10YR 5/3			<u>/8</u> ype		SiCL		•
6-18	10YR 6/4	<u> </u>				SiCL		
0-10	101 K 0/4					SICL		
1 .						21 11		
	ncentration, D=Dep ndicators: (Applic				Jrains.		PL=Pore Lining, M=Ma for Problematic Hydri	
			_	elow Surface (S8)	/I DD S T I		luck (A9) (LRR O)	. 5015 .
	ipedon (A2)			urface (S9) (LRR			luck (A10) (LRR S)	
Black His	,			ky Mineral (F1) (L			ed Vertic (F18) (outside	MLRA 150A,B)
Hydroge	n Sulfide (A4)		Loamy Gley	ed Matrix (F2)	-	Piedmo	ont Floodplain Soils (F1	9) (LRR P, S, T)
	Layers (A5)		Depleted Ma	atrix (F3)		L Anoma	lous Bright Loamy Soils	s (F20)
	Bodies (A6) (LRR F			Surface (F6)			RA 153B)	
	cky Mineral (A7) (L			rk Surface (F7)			arent Material (TF2)	
	esence (A8) (LRR I	J)		· · /			hallow Dark Surface (Th	-12)
	ck (A9) (LRR P, T) I Below Dark Surfac	DO (A11)	Marl (F10) (I	L RR U) hric (F11) (MLRA :	454)	Uther (Explain in Remarks)	
	rk Surface (A12)	Se (ATT)		nese Masses (F12		T) ³ Indice	ators of hydrophytic veg	etation and
	airie Redox (A16) (MLRA 150A)		ace (F13) (LRR P			land hydrology must be	
	ucky Mineral (S1) ((F17) (MLRA 15			ess disturbed or problem	•
	leyed Matrix (S4)			rtic (F18) (MLRA				
Sandy R	edox (S5)		Piedmont Fl	oodplain Soils (F1	9) (MLRA 1 4	19A)		
	Matrix (S6)		Anomalous I	Bright Loamy Soil	s (F20) (MLR	RA 149A, 153C,	, 153D)	
	face (S7) (LRR P,							
_	ayer (if observed).):						
Type:							B (A)(X
Depth (inc	:hes):					Hydric Soil	Present? Yes	No
Remarks:								
	RA							
			-					

WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

Project/Site: New Southern Area Mic	ldle School K-8	City/C	City/County: Prince George's County Sampling Date: 12/13/2019 State: MD Sampling Point: WDP-1				
Applicant/Owner: Jones Lang LaSalle			State: MD Sampling Point: WDP-1				
Investigator(s): L. Calvert, T. Witt			on, Township, Range:				
Landform (hillslope, terrace, etc.): flat					Slope (%): 0-2		
Subregion (LRR or MLRA): MLRA 149	I	Lat: 38.7228873	3233 Long: -	76.9998507716	B Datum: NAD83		
Subregion (LRR or MLRA): <u>MLRA 149</u> Soil Map Unit Name: <u>Piccowaxen-Live</u>	erpool complex,	2 to 5 percent s	lopes (PoB)	NWI classific	cation: PFO		
Are climatic / hydrologic conditions on th Are Vegetation <u>No</u> , Soil <u>No</u> , or H Are Vegetation <u>No</u> , Soil <u>No</u> , or H SUMMARY OF FINDINGS – At	e site typical for th Hydrology <u>No</u> Hydrology <u>No</u>	is time of year? Y significantly distur naturally problema	es X No Are "Normal bed? Are "Normal atic? (If needed, e	(If no, explain in F l Circumstances" explain any answe	Remarks.) present? Yes X No ers in Remarks.)		
Hydrophytic Vegetation Present?	_{Yes} X	No	la éle a Cananda d'Ana a				
Hydric Soil Present?	Yes <u>X</u> I Yes <u>X</u> I	No	Is the Sampled Area	X X	No		
Wetland Hydrology Present?	Yes X	No	within a Wetland?	res <u> </u>	NO		
HYDROLOGY					And for the second s		
Wetland Hydrology Indicators:		that are the			ators (minimum of two required)		
Primary Indicators (minimum of one is I				Surface Soil			
Surface Water (A1) High Water Table (A2)		c Fauna (B13) eposits (B15) (LRF	2 11)	Drainage Pa	getated Concave Surface (B8)		
$\square Saturation (A3)$		gen Sulfide Odor (0		Moss Trim L			
Water Marks (B1)			long Living Roots (C3)	=	Water Table (C2)		
Sediment Deposits (B2)		nce of Reduced Iro		Crayfish Bur			
Drift Deposits (B3)		t Iron Reduction in	. ,	<u> </u>	isible on Aerial Imagery (C9)		
Algal Mat or Crust (B4)		luck Surface (C7)	(),		Position (D2)		
Iron Deposits (B5)	🔲 Other ((Explain in Remark	s)	Shallow Aqu	litard (D3)		
Inundation Visible on Aerial Image	ry (B7)			FAC-Neutral	l Test (D5)		
✓ Water-Stained Leaves (B9)				Sphagnum r	moss (D8) (LRR T, U)		
Field Observations:	×						
		epth (inches):					
		epth (inches):			×		
Saturation Present? Yes (includes capillary fringe)	No <u>^</u> De	epth (inches):	Wetland F	lydrology Prese	nt? Yes X No		
Describe Recorded Data (stream gaug	e, monitoring well,	, aerial photos, pre	vious inspections), if ava	ilable:			
Buttressed roots observed	on trees wi	thin wetland					
DRA	FT						

VEGETATION (Four Strata) – Use scientific names of plants.

Sampling	Point:	WDP-1

	Absolute			Dominance Test worksheet:
Tree Stratum (Plot size: <u>30 feet</u>)	-	<u>Species?</u>		Number of Dominant Species
1. Red maple (Acer rubrum)	80	Yes	FAC	That Are OBL, FACW, or FAC: _4 (A)
2. Sweet gum (Liquidambar styraciflua) 3.	10	No	FAC	Total Number of Dominant Species Across All Strata: <u>4</u> (B)
				Species Across Air Strata. (B)
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: <u>100</u> (A/B)
6				Prevalence Index worksheet:
7				
8				Total % Cover of: Multiply by:
	~~	= Total Co		OBL species x 1 =
50% of total cover: ⁴⁵				FACW species x 2 =
	20 % 01		·	FAC species x 3 =
Sapling/Shrub Stratum (Plot size: <u>15 feet</u>)	10	Vee		FACU species x 4 =
1. Red maple (Acer rubrum)		Yes	FAC	UPL species x 5 =
2				
3				Column Totals: (A) (B)
4				Prevalence Index = B/A =
5.				
				Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7				✓ 2 - Dominance Test is >50%
8				3 - Prevalence Index is ≤3.0 ¹
	10	= Total Co	ver	Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover: ⁵	20% of	f total cove	- 2	
Herb Stratum (Plot size: 5 feet)				1. All stands of the solution
1 Deertongue (Dichanthelium clandestinum)	5	Yes	FACW	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. Japanese stiltgrass (Microstegium vimineum)	5	Yes	FAC	
				Definitions of Four Vegetation Strata:
3				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
4				more in diameter at breast height (DBH), regardless of
5				height.
6				Sapling/Shrub – Woody plants, excluding vines, less
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8				Herb – All herbaceous (non-woody) plants, regardless
9				of size, and woody plants less than 3.28 ft tall.
10				Woody vine – All woody vines greater than 3.28 ft in
11				height.
12.				
	10	= Total Co	ver	
50% of total cover: ⁵				
Woody Vine Stratum (Plot size: <u>30 feet</u>)	2070 01			
1				
2				
3				
4				
5				Hydrophytic
	•	= Total Co		Vegetation
E00/ of total cover				Present? Yes X No
50% of total cover:		l lotal covel	·	
Remarks: (If observed, list morphological adaptations bel	ow).			
DRAFT				

SOIL

Profile Desc	ription: (Describe	to the dep	oth needed to docur	nent the	indicato	r or confir	m the absence o	of indicators.)
Depth (inches)	Matrix Color (moist)	%	Redo Color (moist)	<u>x Feature</u> %	sType ¹	Loc ²	Texture	Remarks
<u>(incries)</u> 0-5	10YR 5/2	100		70	<u> </u>		SiCL	Remarks
5-18	7.5YR 5/1	65	7.5YR 5/8	35	С	М	CL	
					- <u> </u>			
~ ~ ~			=Reduced Matrix, MS			irains.		PL=Pore Lining, M=Matrix.
		able to all	LRRs, unless other					or Problematic Hydric Soils ³ :
Histosol	. ,		Polyvalue Be					uck (A9) (LRR O)
Black Hi	oipedon (A2) stic (A3)		Thin Dark Su		<i>,</i> .			uck (A10) (LRR S) d Vertic (F18) (outside MLRA 150A,B)
	n Sulfide (A4)		Loamy Gleye					nt Floodplain Soils (F19) (LRR P, S, T)
	Layers (A5)		Depleted Ma					ous Bright Loamy Soils (F20)
	Bodies (A6) (LRR F		Redox Dark	•	,			A 153B)
	cky Mineral (A7) (L				. ,			rent Material (TF2) nallow Dark Surface (TF12)
	esence (A8) (LRR l Ick (A9) (LRR P, T)	")	Redox Depre		.0)			Explain in Remarks)
	d Below Dark Surfac	e (A11)	Depleted Och	-	(MLRA	151)	<u> </u>	
	ark Surface (A12)		Iron-Mangan					ators of hydrophytic vegetation and
	rairie Redox (A16) (A) Umbric Surfa					and hydrology must be present,
	lucky Mineral (S1) (ileyed Matrix (S4)	LKK (), 5)	Reduced Ver					ss disturbed or problematic.
	edox (S5)		Piedmont Flo					
	Matrix (S6)		☐ Anomalous B	sright Loa	my Soils	(F20) (ML	RA 149A, 153C,	153D)
	rface (S7) (LRR P, S							
	_ayer (if observed)	:						
Type:	ches):						Hydric Soil P	Present? Yes X No
Remarks:							Tryune Son T	
Romana.								
	RA							

WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

Project/Site: New Southern Area Middle School K-8	City/County: Prince George's County Sampling Date: 12/13/2019
Applicant/Owner: Jones Lang LaSalle	City/County: Prince George's County Sampling Date: 12/13/2019 State: MD Sampling Point: WDP-2
	Section, Township, Range:
	Local relief (concave, convex, none): <u>concave</u> Slope (%): <u>0-2</u>
Subragion (LPB or MLPA): MLRA 149	233940099 Long: -77.0017158045 Datum: NAD83
Sall Man Linit Name, Piccowaxen-Liverpool complex, 2 to 5 per	233940099 Long: -77.0017158045 Datum: NAD83 rcent slopes (PoB) NWI classification: PFO PFO
Are climatic / hydrologic conditions on the site typical for this time of yo	
	y disturbed? Are "Normal Circumstances" present? Yes X No
Are vegetation, soil, or Hydrology significantly Are Vegetation <u>No</u> , Soil <u>No</u> , or Hydrology <u>No_</u> naturally pr	
- · · ·	g sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes X No	Is the Sampled Area
Hydric Soil Present? Yes X No	within a Watland? Vac X No
Wetland Hydrology Present? Yes X No No No	
Plot representative of PFO Wetland W2.	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	
Surface Water (A1)	
High Water Table (A2) Marl Deposits (B1:	
	heres along Living Roots (C3)
Sediment Deposits (B2)	
	ction in Tilled Soils (C6)
Algal Mat or Crust (B4)	e (C7) Geomorphic Position (D2)
Iron Deposits (B5)	
Inundation Visible on Aerial Imagery (B7)	FAC-Neutral Test (D5)
✓ Water-Stained Leaves (B9)	Sphagnum moss (D8) (LRR T, U)
Field Observations: Surface Water Present? Yes X No Depth (inchest)	₂). 2.0
Water Table Present? Yes No Depth (inclusion)	
Saturation Present? Yes <u>No X</u> Depth (inches	
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial phot	os, previous inspections), if available:
Remarks:	
DRAFT	

VEGETATION (Four Strata) – Use scientific names of plants.

Sampling Point:	WDP-2
-----------------	-------

00.6	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: <u>30 feet</u>)	% Cover	Species?	Status	Number of Dominant Species
1. Willow oak (Quercus phellos)	40	Yes	FACW	That Are OBL, FACW, or FAC: 2 (A)
2.				
				Total Number of Dominant
3				Species Across All Strata: <u>2</u> (B)
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: <u>100</u> (A/B)
6				
				Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
8				
	40	= Total Cov	er	OBL species x 1 =
50% of total cover: ²⁰	20% of	f total cover	8	FACW species x 2 =
	2070 0			FAC species x 3 =
Sapling/Shrub Stratum (Plot size: 15 feet)			540	FACU species x 4 =
1. Roundleaf greenbrier (Smilax rotundifolia)	20	Yes	FAC	
2				UPL species x 5 =
3				Column Totals: (A) (B)
4				Prevalence Index = B/A =
5				Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7				
				2 - Dominance Test is >50%
8				3 - Prevalence Index is ≤3.0 ¹
	20	= Total Cov	er	Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover: <u>10</u>	20% of	f total cover:	4	
Herb Stratum (Plot size: 5 feet)				1
				¹ Indicators of hydric soil and wetland hydrology must
1				be present, unless disturbed or problematic.
2				Definitions of Four Vegetation Strata:
3				
				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
4				more in diameter at breast height (DBH), regardless of height.
5				noight.
6				Sapling/Shrub – Woody plants, excluding vines, less
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8				Herb – All herbaceous (non-woody) plants, regardless
9				of size, and woody plants less than 3.28 ft tall.
10				Woody vine – All woody vines greater than 3.28 ft in
11				height.
12.				Ŭ
12.				
		= Total Cov		
50% of total cover:	20% of	f total cover:		
Woody Vine Stratum (Plot size: 30 feet)				
1,				
2				
3				
4				
5				Linder a brokin
··	-	Tatal Oa		Hydrophytic Vegetation
		= Total Cov		Present? Yes X No
50% of total cover:	20% of	f total cover:		
Remarks: (If observed, list morphological adaptations bel	ow).			
DRAFT				
DRAFT				

SOIL

Profile Desc		to the dep	th needed to docur	nent the	indicator	or confirn	n the absence	of indicators.)
Depth (inches)	<u>Matrix</u> Color (moist)	%		x Feature		Loc ²	Toyturo	Demorke
<u>(inches)</u> 0-5	10YR 5/1	100	Color (moist)	%	Type ¹	LOC	Texture SiC	Remarks
5-18			7.5YR 6/8	20	c			
01-C	2.5Y 7/1	80	7.518 0/0	20	<u> </u>	M	CL	
						·		
						·		
¹ Turney 0-0			Deduced Metric M(- <u></u>	21	
			Reduced Matrix, MS LRRs, unless other			ams.		PL=Pore Lining, M=Matrix. for Problematic Hydric Soils ³ :
			Polyvalue Be			RR S. T. I		luck (A9) (LRR O)
	ipedon (A2)		Thin Dark Su					luck (A10) (LRR S)
Black His	stic (A3)		Loamy Muck		, .			ed Vertic (F18) (outside MLRA 150A,B)
	n Sulfide (A4)		Loamy Gleye		(F2)			ont Floodplain Soils (F19) (LRR P, S, T)
	Layers (A5)	. –	Depleted Ma	. ,				alous Bright Loamy Soils (F20)
	Bodies (A6) (LRR P cky Mineral (A7) (L l		Redox Dark S		,			RA 153B) arent Material (TF2)
	esence (A8) (LRR L		Redox Depre		. ,			hallow Dark Surface (TF12)
	ck (A9) (LRR P, T)	-)	Marl (F10) (L	`	0)			(Explain in Remarks)
	Below Dark Surfac	e (A11)	Depleted Ocl		(MLRA 1	51)		
	rk Surface (A12)		Iron-Mangan		. ,	• • • •	,	ators of hydrophytic vegetation and
	airie Redox (A16) (I					r, U)		land hydrology must be present,
	ucky Mineral (S1) (leyed Matrix (S4)	LKK (), 5)	Delta Ochric Reduced Ver			50A 150B)		ess disturbed or problematic.
	edox (S5)		Piedmont Flo	· · ·	•	. ,		
	Matrix (S6)			•	•	-	RA 149A, 153C	, 153D)
	face (S7) (LRR P, S							
Restrictive L	ayer (if observed).	:						
Туре:								v
Depth (inc	:hes):						Hydric Soil	Present? Yes X No
Remarks:								
1								
1								
	RA							

Appendix III: Photographic Log





1 - View facing north from UDP-1



2 - View facing east from UDP-1







3 - View facing south from UDP-1



4 - View facing west from UDP-1







5 - View facing north from UDP-2



6 - View facing east from UDP-2







7 - View facing south from UDP-2



8 - View facing west from UDP-2







9 - View facing east from WDP-1 towards box culvert



10 - View facing west from WDP-1 towards Wetland W1







11 - View facing north from UDP-3



12 - View facing east from UDP-3







13 - View facing south from UDP-3



14 - View facing west from UDP-3







15 - View facing north from UDP-4



16 - View facing east from UDP-4







17 - View facing south from UDP-4



18 - View facing west from UDP-4







19 - View facing west from WDP-2 within Wetland W2



20 - View facing north from WDP-2 within Wetland W2







21 - View facing north from UDP-5



22 - View facing east from UDP-5







23 - View facing south from UDP-5



24 - View facing west from UDP-5







25 - View facing north from UDP-6



26 - View facing east from UDP-6







27 - View facing south from UDP-6



28 - View facing west from UDP-6







29 - View facing north from UDP-7



30 - View facing east from UDP-7







31 - View facing south from UDP-7



32 - View facing west from UDP-7





Appendix IV: Waters of the U.S. Delineation Map





EXHIBIT E-4

INFORMATION REGARDING THE SOUTHERN AREA K-8 SCHOOL SITE

PGAtlas

Property

Tax Account: 0281360 Owner Name: BOARD OF EDUCATION Premise Address: 0 Fort Washington Rd, Fort Washington, MD 20744 Parcel Details **Ownership Information** Administrative Details Tax Account #: 0281360 Owner Name: BOARD OF EDUCATION Tax Map Grid: 131F2 WSSC Grid: 216SE01 Assessment District: 05 Owner Address: 14201 School Ln, Lot: Block: Parcel: Upper Marlboro, MD 20772 Tree Conservation Liber: 03343 Folio: 076 Plan 1: Description: PARCEL A Plat: A05-6554 Transfer Date: Tree Conservation Current Assessment: \$806,300.00 Subdivision: TANTALLON Plan 2: SQUARE HIGH SCHOOL Land Valuation: \$806,300.00 Councilmanic District: 8 Improvement Valuation: \$0.00 Acreage: 23.52 Sale Price: \$0.00 Structure Area (Sq Ft):

PGAtlas

Property

Tax Account: 0281766 Owner Name: BOARD OF EDUCATION Premise Address: 0 Asbury Dr, Fort Washington, MD 20744 Parcel Details **Ownership Information** Administrative Details Tax Account #: 0281766 Owner Name: BOARD OF EDUCATION Tax Map Grid: 131F3 WSSC Grid: 216SE01 Assessment District: 05 Owner Address: 14201 School Ln, Lot: Block: Parcel: Upper Marlboro, MD 20772 Tree Conservation Liber: 03448 Folio: 967 Plan 1: Description: PARCEL B Plat: A05-6553 Transfer Date: Tree Conservation Current Assessment: \$37,500.00 Subdivision: TANTALLON Plan 2: SQUARE HIGH SCHOOL Land Valuation: \$37,500.00 Councilmanic District: 8 Improvement Valuation: \$0.00 Acreage: 6.26 Sale Price: \$0.00 Structure Area (Sq Ft):

EXHIBIT E-4

INFORMATION REGARDING THE SOUTHERN AREA K-8 SCHOOL SITE

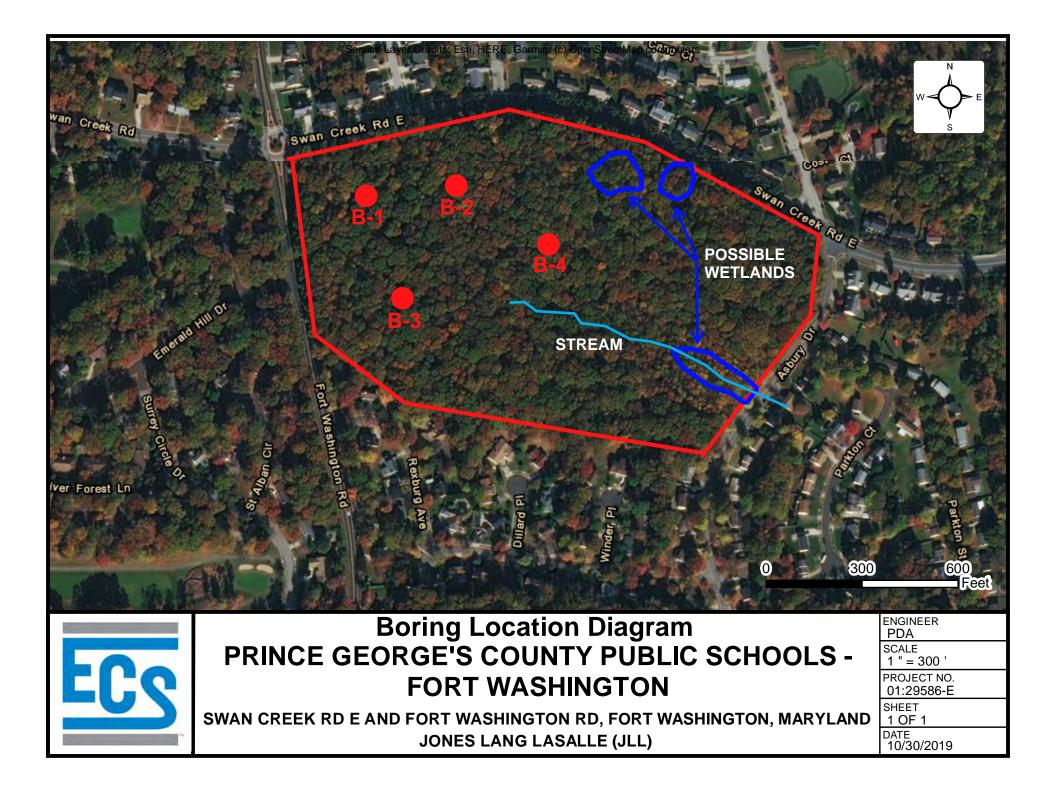


EXHIBIT E-4

INFORMATION REGARDING THE SOUTHERN AREA K-8 SCHOOL SITE

PHASE I ENVIRONMENTAL SITE ASSESSMENT



FUTURE TANTALLON SQUARE HIGH SCHOOL

FORT WASHINGTON ROAD AND ASBURY ROAD FORT WASHINGTON, PRINCE GEORGE'S COUNTY, MARYLAND 20744 ECS PROJECT NO. 47:9541-D

FOR

JONES LANG LASALLE, INC.

DECEMBER 30, 2019



"Setting the Standard for Service"



Geotechnical · Construction Materials · Environmental · Facilities

December 30, 2019

Cassia Sookhoo Jones Lang LaSalle, Inc. 2020 K Street NW Suite 1100 Washington, District of Columbia 20006

ECS Project No. 47: 9541-D

Reference: Phase I Environmental Site Assessment Report, Future Tantallon Square High School, Fort Washington Road and Asbury Road, Fort Washington, Prince George's County, Maryland 20744

Dear Ms. Sookhoo:

ECS Mid-Atlantic, LLC (ECS) is pleased to provide you with the results of our Phase I Environmental Site Assessment (ESA) for the referenced site. ECS services were provided in general accordance with ECS Proposal No. 47:13259-EP authorized on December 10, 2019 and generally meet the requirements of ASTM E1527-13, Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process and EPA Standards and Practices for All Appropriate Inquiries contained in 40 CFR Part 312.

If there are questions regarding this report, or a need for further information, please contact the undersigned.

ECS Mid-Atlantic, LLC

Michaela M. Humby Staff Project Manager mhumby@ecslimited.com 703-471-8400

Christopher M. Elliott Senior Project Manager celliott@ecslimited.com 703-471-8400

Project Summary

Future Tantallon Square High School Fort Washington Road and Asbury Road Fort Washington, Maryland 20744

Report Section		No Further Action	REC	CREC	HREC	BER	Comment
<u>4.0</u>	User Provided Information	~					
<u>5.1</u>	Federal ASTM Databases	~					
<u>5.2</u>	State ASTM Databases	~					
<u>5.3</u>	Additional Environmental Record Sources	~					
<u>6.0</u>	Historical Use Information	~					
<u>7.0</u>	Site and Area Reconnaissance	~					
<u>8.0</u>	Additional Services	~					
<u>9.0</u>	Interviews	~					



ENVIRONMENTAL PROFESSIONAL STATEMENT

We declare that, to the best of our professional knowledge and belief, we meet the definition of Environmental Professional as defined in § 312.10 of 40 CFR 312. We have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the subject property. We have developed and performed the all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.

Claut

Christopher M. Elliott Senior Project Manager December 30, 2019



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1.0 EXECUTIVE SUMMARY

ECS Mid-Atlantic, LLC (ECS) was contracted by Jones Lang LaSalle, Inc. to perform an ASTM E1527-13, Phase I Environmental Site Assessment (ESA) of the Future Tantallon Square High School located at Fort Washington Road and Asbury Road in Fort Washington, Prince George's County, Maryland (i.e. subject property). This Executive Summary is an integral part of the Phase I ESA report. ECS recommends that the report be read in its entirety.

The subject property is identified by Maryland Department of Assessments and Taxation as District 5, Account Numbers 0281766 and 0281360 and owned by Prince George's County Board of Education. The subject property is approximately 29.78 acres in size and consists of undeveloped, wooded land. Evidence of structures associated with the subject property was not noted. Scattered debris consisting of mainly household appliances was observed on the subject property along the southern portion of the property. No staining was observed.

The subject property is located in a residential area of Fort Washington, Maryland. The subject property is bound on the north by Swan Creek Road E followed by residential homes, on the east by Asbury Drive followed by residential homes, on the south by residential homes, and on the west by Fort Washington Road followed by residential homes. ECS did not identify environmental issues at adjoining or nearby properties that are believed to represent a recognized environmental condition (REC) at the subject property.

Based on the records search, site reconnaissance and interviews, it appears that the subject property has been wooded and undeveloped since at least 1890. Historical records prior to 1890 were not reasonably ascertainable for the subject property. Our review of historical information for adjoining or nearby properties identified the area as originally agricultural and transitioned into residential.

A regulatory database search report was provided by Environmental Data Resources, Inc. (EDR). The database search involves researching a series of Federal, State, Local, and other databases for facilities and properties that are located within specified minimum search distances from the subject property. The report did not identify the subject property on the databases researched. The EDR report identified several off-site properties within the minimum ASTM search distances. Based on our review of available public records, none of the listings are believed to represent a REC for the subject property.

ASTM E1527-13 defines a "data gap" as: "a lack of or inability to obtain information required by this practice despite good faith efforts by the environmental professional to gather such information." Data gaps which would be expected to impact our ability to render a professional opinion concerning the subject property were not identified.

We have performed a Phase I Environmental Site Assessment in general conformance with the scope and limitations of ASTM E1527-13 of the Future Tantallon Square High School located at Fort Washington Road and Asbury Road in Fort Washington, Prince George's County, Maryland. Exceptions to, or deletions from, this practice are described in Section 2.6 of this report. This assessment has revealed no evidence of recognized environmental conditions in connection with the property.



2.0 INTRODUCTION

2.1 Purpose and Reason for Performing Phase I ESA

The purpose of the ESA was to:

- evaluate the probability of impact to the surface water, groundwater and/or soils within the property boundaries through a review of regulatory information and a reconnaissance of the subject property and vicinity;
- evaluate historical land usage to identify previous conditions that could potentially impact the environmental condition of the subject property;
- conduct all appropriate inquiry as defined by ASTM E1527-13 and 40 CFR Part 312;
- evaluate the potential for on-site and off-site contamination; and,
- provide a professional opinion regarding the potential for environmental impact at the site and a list of Recognized Environmental Conditions (RECs).

The ESA should allow the Users the opportunity to qualify for landowner liability protection under the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) provided certain stipulations are met. The landowner liability protections are: an innocent landowner, a contiguous property owner, or a bona fide prospective purchaser. The User must meet the protection stipulations detailed in CERCLA to qualify as well as meet the User Obligations contained within the ASTM E1527- 13 standard.

The reason for conducting this ESA is to perform all appropriate inquiries into the uses and prior ownership of the subject property pending construction.

2.2 Scope of Services

The environmental assessment was conducted in general accordance with ASTM E1527-13 and EPA Standards and Practices for All Appropriate Inquiry (40 CFR §312.10). The environmental assessment was conducted under the supervision or responsible charge of an individual that qualifies as an environmental professional, as defined in 40 CFR §312.10.

ECS was contracted by Jones Lang LaSalle, Inc. to perform an ASTM E1527-13, Phase I Environmental Site Assessment (ESA) of the Future Tantallon Square High School located at Fort Washington Road and Asbury Road in Fort Washington, Prince George's County, Maryland. ECS was contracted to provide services in addition to the ASTM Standard scope of service. This additional information is presented in Section 8.0 of this report.

2.3 Definitions

ASTM E1527-13 defines a "recognized environmental condition (REC)" as "the presence or likely presence of any hazardous substances or petroleum products in, on or at a property: 1) due to release to the environment, 2) under conditions indicative of a release to the environment; or 3) under conditions that pose a material threat of a future release to the environment." For the



purposes of this practice, "migrate" and "migration" refer to the movement of hazardous substances or petroleum products in any form including solid and liquid at the surface or subsurface and vapor in the subsurface.

ASTM E1527-13 defines a "business environmental risk" (BER) as "a risk which can have a material environmental or environmentally-driven impact on the business associated with the current or planned use of a parcel of commercial real estate, not necessarily limited to those environmental issues required to be investigated in this practice". ECS also uses the term "Other Environmental Considerations" to discuss BERs and environmental concerns outside of the ASTM E1527-13 requirements (radon, asbestos, lead, wetlands, etc.). Client-imposed limitations and site condition limitations, if encountered, are detailed in Section 7.1 Methodology and Limiting Conditions.

ASTM E1527-13 defines a "*de minimis* condition" as a condition that generally does not represent a threat to human health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies. De minimis conditions are not recognized environmental conditions nor controlled recognized environmental conditions.

ASTM E1527-13 defines a "controlled recognized environmental condition (CREC)" as a recognized environmental condition resulting from a past release of hazardous substances or petroleum products that has been addressed to the satisfaction of the applicable regulatory authority (for example, as evidenced by the issuance of a no further action letter or equivalent, or meeting risk-based criteria established by regulatory authority), with hazardous substances or petroleum products allowed to remain in place subject to the implementation of required controls (for example property use restrictions, activity and use limitations, institutional controls, or engineering controls). A condition identified as a controlled recognized environmental condition does not imply that the Environmental Professional has evaluated or confirmed the adequacy, implementation or continued effectiveness of the required control that has been, or is intended to be, implemented.

ASTM E1527-13 defines a "historical recognized environmental condition (HREC)" as a past release of any hazardous substances or petroleum products that has occurred in connection with the property and has been addressed to the satisfaction of the applicable regulatory authority or meeting unrestricted residential use criteria established by a regulatory authority, without subjecting the property to any required controls (for example property use restrictions, activity and use limitations, institutional controls, or engineering controls). Before calling the past release a historical recognized environmental condition, the Environmental Professional must determine whether the past release is a recognized environmental condition at the time the Phase I Environmental Site Assessment is conducted (for example, if there has been a change in the regulatory criteria).

2.4 Limitations

The ESA involved a reconnaissance of the subject property and contiguous properties and a review of regulatory and historical information in general accordance with the ASTM standard and EPA regulation referenced herein. No non-scope considerations or additional issues such as asbestos, radon, wetlands or mold were investigated, unless otherwise described in Section 8.0 of this report.



Note: vapor migration in the subsurface is described in Guide E2600 published by ASTM. ECS has not conducted a Vapor Encroachment Screen in accordance with the E2600 guide.

The conclusions and/or recommendations presented within this report are based upon a level of investigation consistent with the standard of care and skill exercised by members of the same profession currently practicing in the same locality under similar conditions. The intent of this assessment is to identify the potential for recognized environmental conditions in connection with the subject property; however, no environmental site assessment can completely eliminate uncertainty regarding the potential for recognized environmental conditions in connection with the subject property. The findings of this ESA are not intended to serve as an audit for health and safety compliance issues pertaining to improvements or activities at the subject property. ECS is not liable for the discovery or elimination of hazards that may potentially cause damage, accidents or injury.

Observations, conclusions and/or recommendations pertaining to environmental conditions at the subject property are necessarily limited to conditions observed, and or materials reviewed at the time this study was undertaken. It was not the purpose of this study to determine the actual presence, degree or extent of contamination, if any, at this subject property. This could require additional exploratory work, including sampling and laboratory analysis. No warranty, expressed or implied, is made with regard to the conclusions and/or recommendations presented within this report.

This report is provided for the exclusive use of Jones Lang LaSalle, Inc.. This report is not intended to be used or relied upon in connection with other projects or by other unidentified third parties. The use of this report by any undesignated third party or parties will be at such party's sole risk and ECS disclaims liability for any such third party use or reliance.

2.5 Data Gaps

Data failures (historical data gaps) were identified during the historical research of this subject property. Use of the subject property was generally documented back to 1890. Historical information was missing for various periods. However, due to the apparent historical and present use; the historical data gaps are not expected to impact our ability to render a professional opinion regarding the subject property.

2.6 Limiting Conditions/Deviations

ASTM E1527-13 requires that the Environmental Professional identify limiting conditions, deletions, and deviations from the ASTM E1527-13 standard, if any, including client-imposed constraints. Limiting conditions and/or deviations from the standard practice that would be expected to impact our ability to provide a professional opinion concerning the subject property were not encountered during the performance of this Phase I ESA.



3.0 SUBJECT PROPERTY DESCRIPTION

3.1 Subject Property Location and Legal Description

Site Name	Future Tantallon Square High School
Property Address	Fort Washington Road and Asbury Road
Property City, State	Fort Washington, Maryland
Property County	Prince George's County
Number of Parcels	Тwo
Property ID Number(s)	District 5, Account Numbers 0281766 and 0281360
Property Size	29.78 Acres
Property Owner of Record	Prince George's County Board of Education
Property Legal Description	Parcel A; Parcel B

3.2 Physical Setting and Hydrogeology

USGS Topographic Map	
Quad Designation	MD- Piscataway
Date	2014
Subject Property Settings	
Average Subject Property Elevation (in ft or meters)	Approximately 45 feet above mean sea level
General Sloping Direction	West
Bodies of Water	None
General Directions of Surface Flow	West
Presumed Direction of Groundwater Flow	West
Geologic Province	Coastal Plain
Up-gradient Property Direction	South and southeast
Nearby Properties' Settin	g



General Sloping Direction	West
Bodies of Water	Stream approximately 200 feet east of the subject property (unnamed tributary of Broad Creek)
General Directions of Surface Flow	West
Presumed Direction of Groundwater Flow	West

Regional influences such as tidal changes, building sumps, dewatering, impermeable soils may have an impact on groundwater flow. The actual groundwater flow direction cannot be determined without site-specific information obtained through the gauging of groundwater monitoring wells.

3.3 Current Use and Description of the Site

The subject property is approximately 29.78 acres in size and consists of undeveloped, wooded land. Evidence of structures associated with the subject property was not noted. Scattered debris consisting of mainly household appliances was observed on the subject property along the southern portion of the property. No staining was observed. The subject property is located in an area that can generally be described as residential.



4.0 USER PROVIDED INFORMATION

The ASTM standard includes disclosure and obligations of the User to help the Environmental Professional identify the potential for Recognized Environmental Conditions associated with the subject property. A User Questionnaire was submitted to Cassia Sookhoo with Jones Lang LaSalle, Inc.. ECS did not receive a User Questionnaire prior to issuing this report.

It should be noted by the User of this report that if the User Questionnaire is not completed by the User, the User that is seeking to qualify for an innocent landowner, a contiguous property owner, or a bona fide prospective purchaser liability defense may lose these rights to qualify under CERCLA. If a completed questionnaire is provided following issuance of this report and information contained therein materially changes the outcome of this report, ECS will issue an addendum to this report.

4.1 Title Information

ECS was provided with title information by the User. Title information provided to ECS is included here in Appendix III. Upon review of the available land title records, ECS found that there are no title issues related to environmental concerns that need to be addressed, no liens, and the following right of way/easements:

- WSCC 2784/343, 3421/698
- Minimum Building Restriction Line as shown on Plat

4.2 Environmental Liens or Activity and Use Limitations

ECS was neither contracted to obtain information on environmental liens or activity and use limitations, nor have we been provided with information on environmental liens or activity and use limitations for our review. It should be noted by the User of this report that if the User does not obtain activity and use limitation information, the User that is seeking to qualify for an innocent landowner, a contiguous property owner, or a bona fide prospective purchaser liability defense may lose these rights to qualify under CERCLA. If the activity use information is provided following issuance of this report and information contained therein materially changes the outcome of this report, ECS will issue an addendum to this report.

4.3 Specialized Knowledge

The User did not provide specialized knowledge of the subject property.

4.4 Commonly Known or Reasonably Ascertainable Information

Commonly known information related to the subject property was not provided to ECS.

4.5 Valuation Reduction for Environmental Issues

No information pertaining to the valuation reduction for environmental issues was provided to ECS.



4.6 Owner, Property Manager, and Occupant Information

Owner, manager, and occupant information was not provided by the User.

4.7 Degree of Obviousness

The User did not provide information related to obvious indicators that point to the presence or likely presence of contamination at the subject property.



5.0 RECORDS REVIEW

A regulatory records search of ASTM standard and supplemental databases was conducted for the subject property and is included in Appendix III. The regulatory search report in the appendix includes additional details about the regulatory databases that were reviewed. The regulatory records search involves searching a series of databases for facilities that are located within a specified distance from the subject property. The ASTM standard specifies an approximate minimum search distance from the subject property for each database. Pursuant to ASTM, the approximate minimum search distance may be reduced for each standard environmental record except for Federal NPL site list, and Federal RCRA TSD list. According to ASTM, government information obtained from nongovernmental sources may be considered current if the source updates the information at least every 90 days or, for information that is updated less frequently than quarterly by the government agency, within 90 days of the date the government agency makes the information available to the public. The following table indicates the standard environmental record sources and the approximate minimum search distances for each record.

Standard Environmental Record Sources	Approximate Minimum Search Distance Per ASTM (miles)	Subject Property	Off-Site Properties
Federal NPL	1.0	No	0
Federal Delisted NPL	0.5	No	0
Federal CERCLIS	0.5	No	0
Federal CERCLIS NFRAP	0.5	No	0
Federal RCRA CORRACTS	1.0	No	0
Federal RCRA non-CORRACTS TSD	0.5	No	0
Federal RCRA Generators	Subject Site and Adjoining Properties	No	0
Federal IC/EC	Subject Site Only	No	N/A
Federal ERNS	Subject Site Only	No	N/A
State and Tribal Hazardous Waste Sites (NPL Equivalent)	1.0	No	0
State and Tribal Hazardous Waste Sites (CERCLIS Equivalent)	0.5	No	0
State and Tribal Landfill and/or solid waste disposal sites	0.5	No	0



Standard Environmental Record Sources	Approximate Minimum Search Distance Per ASTM (miles)	Subject Property	Off-Site Properties
State and Tribal Leaking Tanks	0.5	No	13
State and Tribal Registered UST and AST	Subject Site and Adjoining Properties	No	0
State and Tribal IC/EC	Subject Site Only	No	N/A
State and Tribal Voluntary Cleanup (VCP)	0.5	No	0
State and Tribal Brownfield Sites	0.5	No	0

Based on our knowledge of the subject property and the surrounding area, ECS attempts to verify and interpret this data. While this attempt at verification is made with due diligence, ECS cannot guarantee the accuracy of the record(s) search beyond that of information provided by the regulatory report(s). ECS makes no warranty regarding the accuracy of the database report information included within the regulatory report(s).

The regulatory database search was performed by EDR, dated December 11, 2019. ECS did not reduce the minimum ASTM search distances stipulated in the standard. The regulatory databases reviewed by ECS included supplemental databases researched by EDR.

5.1 Federal ASTM Databases

Neither the subject property nor properties within the designated search radii were identified on the federal databases researched for this assessment.

5.2 State ASTM Databases

5.2.1 State Hazardous Waste Sites (SHWS) Inventory

State hazardous waste site records are the states' equivalent to CERCLIS. These sites may or may not be already listed on the federal CERCLIS database.

The database report identified one SHWS listing within 1.0 mile of the subject property. ECS reviewed the SHWS listing and upon review, this site does not appear to be located in up-gradient topographic positions at a distance close enough to be considered a REC for the subject property. Additional information pertaining to these listings can be viewed in the regulatory report included in Appendix III.



5.2.2 Oil Control Program (OCP) Database

The OCP Cases database is an inventory of cases monitored by the MDE OCP. These cases can be leaking underground storage tanks and other belowground releases, leaking aboveground storage tanks, spills, inspections, or other compliance actions

Thirteen off-site properties within the minimum ASTM search distance of inquiry (0.5-miles) were reported as being on the OCP database. One nearby site is discussed below.

PEPCO - **12105 Hickory Drive** - This site is located approximately 300 feet to the north and topographically cross-gradient from the subject property. This site is listed with one closed OCP case, #00-0734PG1 which was opened in 2007 following a dumping. Based on the OCP case closure, this listing is not considered to be a REC for the subject property.

ECS reviewed the remaining OCP listings and upon review, these sites do not appear to be located in up-gradient topographic positions at distances close enough to be considered RECs for the subject property. Additional information pertaining to these listings can be viewed in the regulatory report included in Appendix III.

5.2.3 Registered Underground Storage Tank (UST) List

The Registered UST List inventories underground storage tanks registered with the state. This list does not identify USTs that have not been registered or are exempt, such as home heating oil tanks and other unregulated tanks.

There were no off-site properties within the minimum ASTM search distance of inquiry (adjoining) reported as being on the UST database. One off-site property within 0.25-miles of the subject property was reported as being on the UST database and historical UST database. ECS reviewed the UST and historical UST listing (Potomac Landing Elementary School), and upon review, this sites does not appear to be located in up-gradient topographic positions at a distance close enough to be considered a REC for the subject property. Additional information pertaining to this listing can be viewed in the regulatory report included in Appendix III.

5.3 Additional Environmental Record Sources

5.3.1 Additional Non-ASTM Federal Databases

Neither the subject property nor properties within the designated search radii were identified on the additional federal databases researched for this assessment.

5.3.2 Additional Non-ASTM State Databases

Neither the subject property nor properties within the designated search radii were identified on the additional state databases researched for this assessment.



5.3.3 Other Proprietary Databases

Neither the subject property nor properties within the designated search radii were identified on the other proprietary databases researched for this assessment.

5.3.4 Unmapped (Orphan) Facilities and Sites

These facilities are considered as unmappable because the facility information in the database is insufficient and does not report accurate facility location.

Four off-site properties were identified on the Orphan Summary List. Upon review, based on available address and location information, these sites do not appear to be located in an up-gradient topographic position at a distance close enough to be considered RECs for the subject property. Additional information pertaining to this listing can be viewed in the regulatory report included in Appendix III.

5.4 Regulatory Review Summary

A regulatory database search report was provided by EDR. The database search involves researching a series of Federal, State, Local, and other databases for facilities and properties that are located within specified minimum search distances from the subject property. The report did not identify the subject property on the databases researched. The EDR report identified several off-site properties within the minimum ASTM search distances. Based on our review of available public records, ECS does not consider the listings to be potential sources of soil, groundwater or vapor impact to the subject property. Therefore, ECS does not consider the listed sites to be RECs for the subject property.



6.0 HISTORICAL USE INFORMATION

6.1 Aerial Photograph Review

ECS reviewed aerial photographs of the subject property and immediately surrounding properties for evidence of former usage which may indicate potential environmental issues. The aerial photographs were obtained from EDR. The aerial photographs reviewed were dated 1938, 1952, 1957, 1960, 1963, 1970, 1972, 1981, 1988, 1998, 2005, 2008, 2011, and 2017. Aerial photographs dated prior to 1938 were not available for review. The ECS review is dependent on the quality and scale of the photographs. The following is a description of relevant information from the aerial photographs:

Year(s)	Subject Property	Adjoining Properties	REC? (yes or no)
1938-1960	The subject property appears to be primarily densely wooded land.	Adjoining properties to the north and northeast and beyond are wooded or agricultural land. Adjoining properties to the east, south and west are wooded. Properties further to the southwest and northwest appear to have been developed with structures. An unimproved road (Fort Washington Road) appears to the west of the subject property. Another unimproved road (Swan Creek Road) appears to the northwest of the subject property.	No
1963	No significant changes.	Adjoining properties to the west appear to have been cleared for development.	No
1970-1972	No significant changes.	Adjoining properties to the southeast, south, and west of the subject property appear to have been developed with residential structures. Properties further west appear to have been developed with golf course fairways.	No



Year(s)	Subject Property	Adjoining Properties	REC? (yes or no)
1981-1998	The subject property appears to be bordered by new roads to the north (Swan Creek Road East) and to the east (Asbury Drive).	Properties to the north, beyonda new road (Swan Creek Road East) appear to be partially developed with residential structures and partially cleared for development. Adjoining properties the east, beyond a new road (Asbury Drive), appear to be developed with residential structures.	No
2005-2017	No significant changes.	Properties to the northwest, beyond Fort Washington Road, appear to have been developed with residential structures.	No

6.2 Sanborn Fire Insurance Map Review

In an effort to identify past uses, ECS utilized EDR to search for historical Sanborn Fire Insurance Maps (Sanborn) for the subject property and surrounding area. Sanborn maps were not available for this area. The absence of such maps generally indicates that the subject property is located in an area where Sanborn maps were not produced because the area was rural or it was not economically feasible. ECS does not expect the lack of Sanborn maps to impact our ability to render a professional opinion concerning the subject property given the amount of historical information obtained from our research, the USGS topographic map, aerial photographs, city directories, and other historical records obtained. A copy of the Unmapped Property report is included within Appendix IV.

6.3 Property Tax Files

Property tax files may include records of past ownership, appraisals, maps, sketches, photos or other information kept by the local jurisdiction for property tax assessment purposes. According to the Prince George's County tax assessor on-line information, the subject property is owned by Prince George's County Board of Education. The subject property is listed as a 29.78-acre parcel with an identification number of District 5, Account Numbers 0281766 and 0281360.

6.4 Recorded Land Title Records

Recorded land title records may include leases, land contracts, and AULs recorded by the local jurisdiction. Land title records may provide only a list of the names of previous owners and may be of limited use; however, they may provide useful information about uses or occupancy of the property when employed in combination with other sources.



Title information provided to ECS in included here in Appendix III. Upon review of the available land title records, ECS found that there are no title issues that need to be addressed, no liens, and the following right of way/easements:

- WSCC 2784/343, 3421/698
- Minimum Building Restriction Line as shown on Plat

6.5 Historical USGS Topographic Maps

Topographic maps are produced by the United States Geological Survey (USGS) for various time periods. ECS reviewed topographic maps of the subject property and immediately surrounding properties for evidence of former usage which may indicate potential environmental issues. The topographic maps were obtained from EDR and were dated 1890, 1891,1892,1894,1895, 1897, 1899, 1906, 1911, 1913, 1923, 1925, 1938, 1944, 1951, 1956, 1957, 1966, 1971, 1978, 1980, 1983, 1985, 1988, 1994, 2013, and 2014. Topographic maps dated prior to 1890 were not available for review. The subject property is mapped on the Mount Vernon, Virginia quadrangle maps provided. Topographic maps obtained from this quadrangle were dated 1890, 1891, 1894, 1897, 1913, 1923, 1925, 1938, 1944, 1951, 1956, 1966, 1971, 1980, 1983, 1994, and 2013. Adjoining properties to the northeast, east and southeast were mapped on the Piscataway, Maryland quadrangle maps provided. Topographic maps obtained from this quadrangle were dated 1892, 1895, 1899, 1906, 1911, 1913, 1944, 1957, 1971, 1978, 1985, 1988, and 2014. The following is a description of relevant information from the topographic maps:

Year(s)	Subject Property	Adjoining Properties	REC? (yes or no)
1890-1897	The subject property is depicted without structures. The property is depicted to be bordered to the west by a road (Fort Washington Road). The topography of the property is depicted to be generally flat but sloping south.	Adjoining properties are depicted without structures. A stream is depicted to the east and southeast of the subject property. Another stream is depicted to the south and southwest of the subject property. The topography of the adjoining properties is depicted to generally slope south and west.	No
1906-1911	No significant changes.	An unimproved road is depicted to the east of the subject property.	No



Year(s)	Subject Property	Adjoining Properties	REC? (yes or no)
1913-1938	The subject property is depicted to be bordered to the south by an unimproved road and bordered to the west by a new road (Fort Washington Road).	A structure is depicted to the northwest, beyond Fort Washington Road.	No
1944-1957	No significant changes.	New structures are depicted on properties to the south of the subject property.	No
1966	No significant changes.	Properties to the southwest and west, beyond Fort Washington Road, are depicted with residential structures.	No
1971	No significant changes.	Adjoining properties to the south and beyond are depicted with residential structures.	No
1978-1985	The subject property is depicted to be bordered in the northeast by a new road (Swan Creek Road East) and a new road to the east (Asbury Drive).	Adjoining properties to the north and southeast are depicted with residential structures.	No
1988	No significant changes.	Adjoining properties to the northeast are depicted with structures.	No
1994-2014	The subject property is depicted to be bordered to the north entirely by Swan Creek Road East as it is now depicted to connect to Fort Washington Road.	No significant changes.	No

6.6 City Directory Review

One of the ASTM standard historical sources to be reviewed for previous subject property uses is local street directories, commonly known as City Directories. The purpose of the directory review is to identify past occupants of the subject property, adjoining properties, or nearby properties. In some rural areas, street directories information is limited.



Due to absence of a street address, the historically undeveloped nature of the subject property, and substantial historical coverage gained from other sources, ECS did not review City Directories for the purpose of this assessment. Given historical information gained from other sources reviewed in this section, this is not considered to be a significant data gap that would affect our ability to render a professional opinion concerning the property's environmental quality.

6.7 Building Department Records

The term building department records means those records of the local government indicating permissions of the local government to construct, alter or demolish improvements on the property.

ECS reviewed the following Building Department Records provided by EDR. There are no building permits associated with the subject property.

6.8 Zoning/Land Use Records

The term zoning/land use records refers to records of the local government indicating the uses permitted by the government in particular zones within its jurisdictions.

ECS reviewed zoning/land use records obtained from the Maryland Department of Assessments and Taxation website. The subject property is currently zoned as a Reserved Open Space (R-O-S) with an exempt use.

6.9 Other Historical Sources

Other credible historical sources may be reviewed to identify past uses of the subject property. These sources may include websites, county or state road maps, historical society documents, or local library information.

ECS contacted the Maryland Department of the Environment on December 19, 2019 to determine if they had historical information regarding environmental issues or responses at the subject property. No information has been received at the time of the report completion. If information is received that changes the conclusions or recommendations of this report, ECS will forward the information to the Client.

6.10 Previous Reports

ECS is concurrently performing a geotechnical and wetlands evaluation at the subject property, which will be supplied under separate covers.

We have not been provided with environmental or engineering assessment reports for the subject property completed by others.



6.11 Historical Use Summary

Based on the records search, site reconnaissance and interviews, it appears that the subject property has been wooded and undeveloped since at least 1890. Historical records prior to 1890 were not reasonably ascertainable for the subject property. Our review of historical information for adjoining or nearby properties identified the area as originally agricultural and transitioned into residential.

No obvious indications of RECs were identified in the historical data review.



7.0 SITE AND AREA RECONNAISSANCE

7.1 Methodology

Jannifer Anderson of ECS conducted the field reconnaissance on December 13, 2019. The weather at the time of the reconnaissance was 37 degrees Fahrenheit and cloudy. Observations were made from a walking reconnaissance around the perimeter, around the buildings, through the buildings and along several transects across the subject property. Access or visibility limitations, if any, are discussed in Section 2.6. Subject property photographs are included in Appendix VI.

7.2 On-Site Features

The subject property is approximately 29.78 acres in size and consists of undeveloped, wooded land. Evidence of structures associated with the subject property was not noted. Scattered debris consisting of mainly household appliances was observed on the subject property along the southern portion of the property. No evidence of soil staining was observed with regard to the dumped debris on the property.

The table below lists pertinent features of interest that were assessed for the subject property. No pertinent features of interest were observed during the site reconnaissance.

Feature	Yes	No
Underground or aboveground storage tanks		~
Strong, pungent or noxious odors		×
Surface waters		×
Standing pools of liquid likely containing petroleum or hazardous substances		~
Drums or containers of petroleum or hazardous substances greater than five-gallons		~
Drums or containers of petroleum or hazardous substances less than or equal to five-gallons		~
Unidentified opened or damaged containers of hazardous substances or petroleum products		~
Known or suspect PCB-containing equipment (excluding light ballasts)		~
Stains or corrosion to floors, walls or ceilings		~
Floor drains and sump pumps		~
Pits, ponds or lagoons		~
Stained soil or pavement		~



Feature	Yes	Νο
Stressed vegetation		×
Solid waste mounds or non-natural fill materials		×
Wastewater discharges into drains, ditches or streams		~
Groundwater wells including potable, monitoring, dry, irrigation, injections and/or abandoned		~
Septic systems or cesspools		~
Elevators		~
Dry cleaning		×
Onsite emergency electrical generators		~
Specialized industrial equipment (paint booths, bag houses, etc.,) on-site		~
Hydraulic lifts		~
Oil-water separators		~
Compressors on-site		~
Grease traps		~

7.3 Adjoining and Nearby Properties

Contiguous and nearby properties were observed during a walking and vehicular reconnaissance of the subject property boundary and public places. The subject property is located in a residential area of Fort Washington, Prince George's County, Maryland.

Direction	Description	Relative Gradient	REC
North	Swan Creek Road E followed by residential homes	Cross-gradient	No
East	Asbury Drive followed by residential homes	Up-gradient	No
South	Residential homes	Up-gradient	No
West	Fort Washington Road followed by residential homes	Down-gradient	No



7.4 Site and Area Reconnaissance Summary

According to our site observations and a review of adjoining and nearby properties, the subject property is undeveloped wooded land. The subject property is located in a residential area. Details pertaining to our on-site and off-site observations are referenced previously. We did not identify RECs associated with the subject property or neighboring properties and businesses during the reconnaissance.



8.0 ADDITIONAL SERVICES

ASTM guidelines identify non-scope issues, which are beyond the scope of this practice. Non-scope issues have the potential to be business environmental risks. Some of these non-scope issues include; asbestos-containing building materials, radon, lead-based paint, lead in drinking water, wetlands and mold.

We were authorized to conduct the following non-scope issues for the subject property:

Radon

Radon is a naturally occurring gaseous substance resulting from the radioactive decay of uranium to radium and then to radon. Uranium is a common element found in many geologic formations and substrates, particularly igneous and metamorphic rocks. Radon has a half-life of only 3.8 days and decays to its daughter elements which represent the health hazard commonly associated with radon.

The EPA has established a list that identifies areas of the U.S. with the potential for elevated indoor radon levels. The EPA Map of Radon Zones assigns each county in the U.S. to one of three zones based on radon potential. The EPA Action level for radon is greater than 4 picoCuries per liter (pCi/L). According to information provided on the EPA Map of Radon Zones, Prince George's County is located in Zone 2 which is predicted to have average screening levels of between 2 and 4 pCi/L.

Site-specific testing would be needed to assess indoor radon concentrations. No radon testing was conducted during this assessment.

Wetlands

ECS is concurrently performing a wetlands evaluation at the subject property, which will be supplied under separate cover.

Ecological Resources

Ecological resources include terrestrial and aquatic environments (and the organisms within these environments) that are fundamental for maintaining balanced earth processes. Within the Study Area, ecological resources include forested land, wetlands, and waterways, as well as marine and land-based species. Developing these habitats could affect sensitive ecosystems and species.

During our reconnaissance, we observed the subject property for evidence of significant ecological resources. Based on the site conditions and the scope and limitations of this study, significant ecological resources were not identified at the subject property.

Endangered Species

ECS reviewed the USFWS database to evaluate the documented occurrences or potential habitat for Federally-listed species within the project boundaries. According to USFWS, one species is listed as having potential to occur at the project site: northern long-eared bat (*Myotis septentrionalis*). Preferred habitat for this species generally includes abandoned mines or caves in the winter months and riparian forested corridors in summer months. Based on an informal review of onsite conditions,



we believe suitable habitat may occur onsite. ECS submitted a project review request to Maryland DNR on December 11, 2019 to gather additional information for any documented occurrences, but we have not received a response to this request as of the date of this report submittal. Should there be federal involvement in the project (e.g., federal funding or federal permits) and documented occurrences onsite indicated by Maryland DNR, additional studies or coordination with the appropriate agencies may be necessary.

ECS contacted the Maryland DNR Wildlife and Heritage Service on December 11, 2019, to request an environmental review for all Federal and/or State-listed threatened and endangered species within the project boundaries (see Appendix V). No information has been received at the time of the report completion. If information is received that changes the conclusions or recommendations of this report, ECS will forward the information to the Client.

High Voltage Power Lines

During our reconnaissance, we observed the subject property for evidence of high voltage power lines. Based on the site conditions and the scope and limitations of this study, high voltage power lines were not identified at the subject property.

Brownfield EPA Requirements

EPA's Brownfields Program provides grants and technical assistance to communities, states, tribes, and others to assess, safely clean up and sustainably reuse contaminated properties. Based on a review of historical and regulatory information, it does not appear that the subject property is contaminated and therefore, not a typical applicant for a brownfield grant.

Regulatory Compliance

The subject property is not listed on any regulatory database and there are no reported violations associated with the subject property.



9.0 INTERVIEWS

ECS was not supplied with property owner contact information for the subject property and therefore, an owner interview was not conducted as part of this assessment. The absence of an owner interview is a data gap for the Phase I ESA process. However, given the undeveloped nature of the subject property and the substantial information gained from other sources, the absence of an owner interview was not considered likely to affect our ability to render a professional opinion regarding the property's environmental quality.



10.0 FINDINGS AND CONCLUSIONS

The subject property is identified by Maryland Department of Assessments and Taxation as District 5, Account Numbers 0281766 and 0281360 and owned by Prince George's County Board of Education. The subject property is approximately 29.78 acres in size and consists of undeveloped, wooded land. Evidence of structures associated with the subject property was not noted. Scattered debris consisting of mainly household appliances was observed on the subject property along the southern portion of the property. No staining was observed.

The subject property is located in a residential area of Fort Washington, Maryland. The subject property is bound on the north by Swan Creek Road E followed by residential homes, on the east by Asbury Drive followed by residential homes, on the south by residential homes, and on the west by Fort Washington Road followed by residential homes. ECS did not identify environmental issues at adjoining or nearby properties that are believed to represent a recognized environmental condition (REC) at the subject property.

Based on the records search, site reconnaissance and interviews, it appears that the subject property has been wooded and undeveloped since at least 1890. Historical records prior to 1890 were not reasonably ascertainable for the subject property. Our review of historical information for adjoining or nearby properties identified the area as originally agricultural and transitioned into residential.

A regulatory database search report was provided by Environmental Data Resources, Inc. (EDR). The database search involves researching a series of Federal, State, Local, and other databases for facilities and properties that are located within specified minimum search distances from the subject property. The report did not identify the subject property on the databases researched. The EDR report identified several off-site properties within the minimum ASTM search distances. Based on our review of available public records, none of the listings are believed to represent a REC for the subject property.

ASTM E1527-13 defines a "data gap" as: "a lack of or inability to obtain information required by this practice despite good faith efforts by the environmental professional to gather such information." Data gaps which would be expected to impact our ability to render a professional opinion concerning the subject property were not identified.

We have performed a Phase I Environmental Site Assessment in general conformance with the scope and limitations of ASTM E1527-13 of the Future Tantallon Square High School located at Fort Washington Road and Asbury Road in Fort Washington, Prince George's County, Maryland. Exceptions to, or deletions from, this practice are described in Section 2.6 of this report. This assessment has revealed no evidence of recognized environmental conditions in connection with the property.



11.0 REFERENCES

ASTM E1527-13. Standard Practice for Environmental Site Assessment, Phase I Environmental Site Assessment Process.

Environmental Data Resources, Inc., The EDR Aerial Photo Decade Package, dated December 12, 2019.

Environmental Data Resources, Inc., The EDR Radius Map Report, dated December 11, 2019.

Environmental Data Resources, Inc., Certified Sanborn Map Report, dated December 12, 2019.

Environmental Data Resources, Inc., EDR City Directory Image Report, dated December 16, 2019.

Environmental Data Resources, Inc., Historical Topo Map Report, dated December 12 2019.

Prince George's County County GIS website, accessed on December 19 2019.

U.S.D.A., Web Soil Survey, accessed on December 19, 2019.

Maryland Department of Health, Radon, accessed on December 19, 2019.

U.S. Fish and Wildlife Service, National Wetlands Inventory (NWI) Online Map, accessed on December 19, 2019.

U.S. Fish and Wildlife Service, Information, Planning, and Consulting (IPAC) database, Online Map, accessed on December 13, 2019.

Enforcement and Compliance History Online database, Facility Summary, accessed on December 19, 2019.



Appendix I: Figures

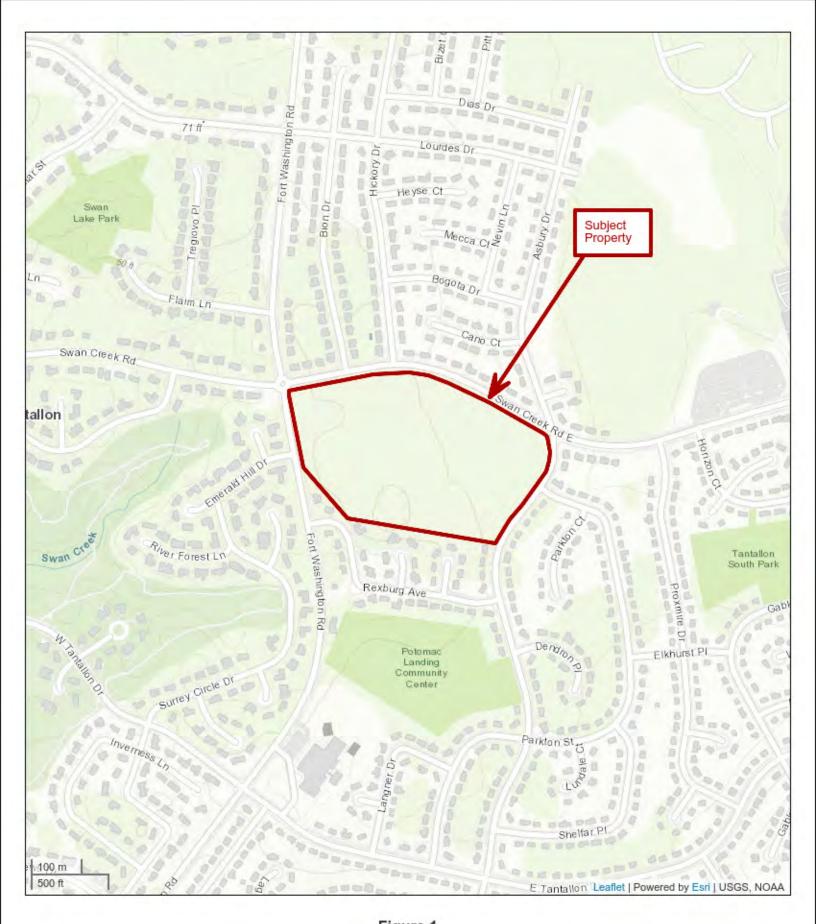




Figure 1 Site Location Map Future Tantallon Square High School Fort Washington Road and Asbury Road Fort Washington, Maryland 20744



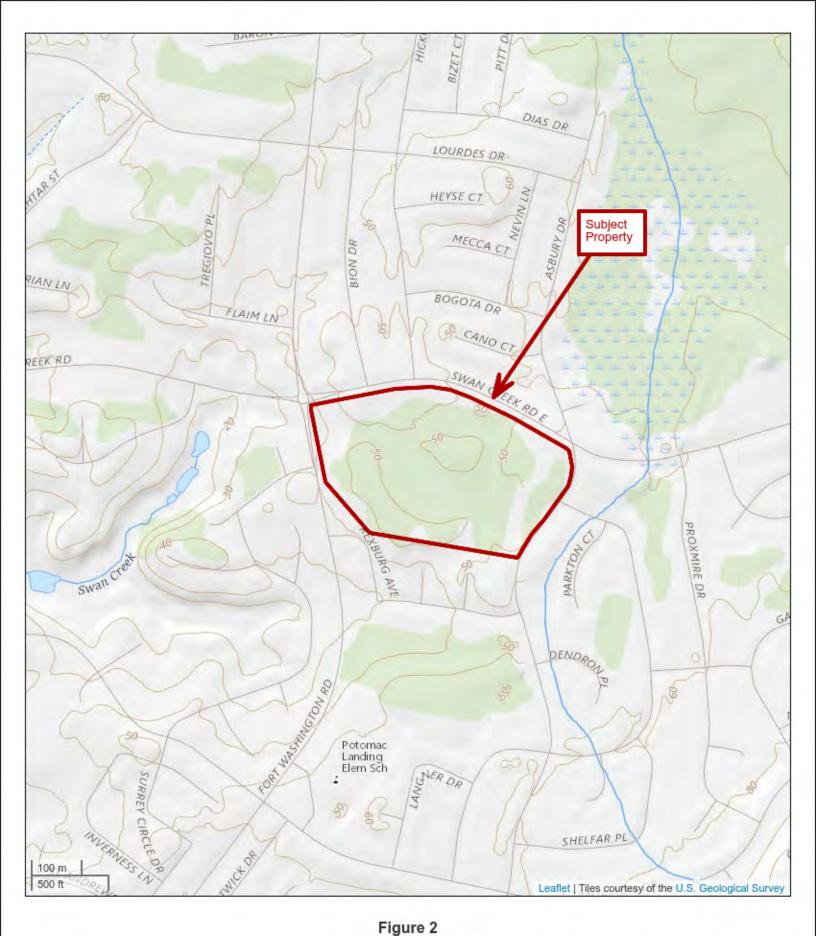
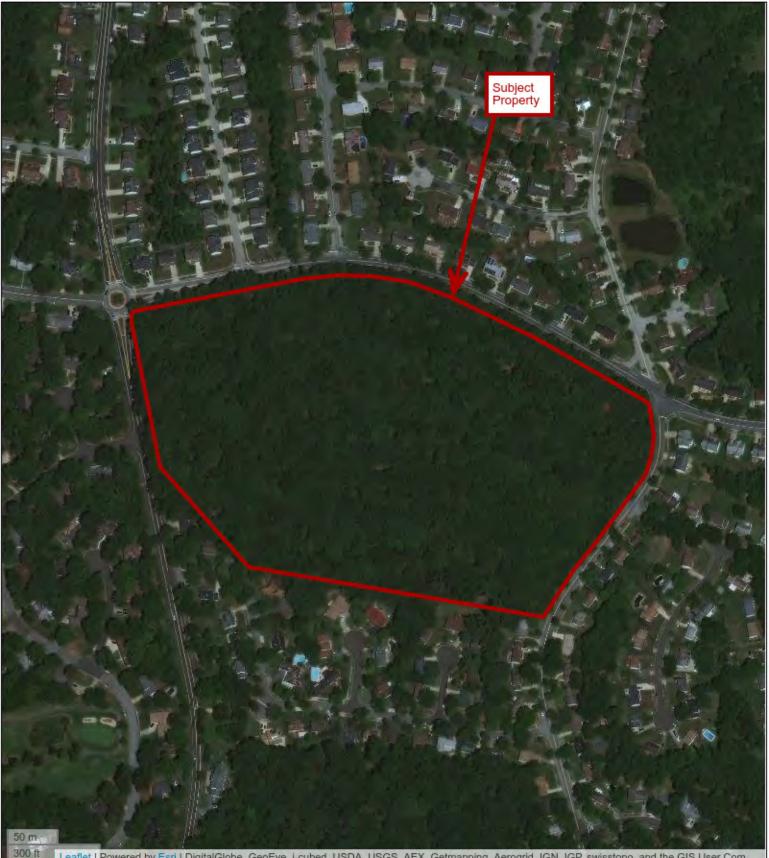




Figure 2 USGS Topographic Map Future Tantallon Square High School Fort Washington Road and Asbury Road Fort Washington, Maryland 20744





Leaflet | Powered by Esri | DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Com.

w K s

Figure 3 Aerial Photograph Future Tantallon Square High School Fort Washington Road and Asbury Road Fort Washington, Maryland 20744



Appendix II: Correspondence and User Questionnaire

No User Questionnaire provided for ECS review.

Property: 05-0281360 Southern

Title Vested In: Board of Education of Prince George's County, Maryland

Records Searched Thru: 10/31/2019

- 1) NUMBER OF TITLE ISSUES THAT NEED TO BE ADDRESSED: NONE
- 2) Liens: NONE

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3) Right of Ways/Easements: State of Maryland 390/52

Minimum Building Restriction Line as shown on Plat

4) Taxes for the period ending June 30, 2020, in the amount of \$0.00, are Paid.

14760 Main Street, Suite 101 • Upper Marthoro, MD 20 Main: P.O. Box 1616 • Upper Marthoro, MD 2073 Main: P.O. Box 1616 • Upper Marthoro, MD 2073 Client C.U. Title: Triss Agency Case No. PGCPS TRA Case No. 78, 18 I. Property Trist-Ray Content of the Subdivision known as, Taxtallon, 58, 08 I. Property Trist-Ray Content of the Subdivision known as, Taxtallon, 58, 08 Recorded among the Land Records of Prince George's County, Maryland. Trist-Ray Content of the Subdivision known as, Taxtallon, 58, 08 II. Fee Simple Title Vested In Board: of Prince George's County, Maryland. From County Land Developers, Trac. By Deed Dated G20/66 Recorded G1266 Liber, 3343 Folio, 76 III. Subject To Truste 1. Trust-Mortgage-FS from (Fee_) Clear 10 Securing Truste Dated Recorded Liber Folio 2. Trust-Mortgage-FS from (Fee_) Truste Truste Amount \$ Securing Truste Dated Recorded Liber Folio 3. Trust-Mortgage-FS from (Fee_) Truste Truste Mount \$ Securing Truste Dated Recorded Liber Folio		y the second second second second	•••	·
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Inis report is for the sole benefit of the above named client and is not assignable without the written consent of Title Research Associates, Inc.

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Monday, September 30, 2019

LOT: LAND: BLOCK: IMPS: ACREAGE: 23.520 A ASSESSMENT: DCCUPANCY: NOT PRINCIPAL RESIDENCE	
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http://taxinquiry.princegeorgescountymd.gov/taxdetail.aspx

Real Property Data Search

You may experience issues today as SDAT works to restore all services. SDAT apologizes for any inconvenience the last few days, and asks for patience as we continue to work to make the site better.

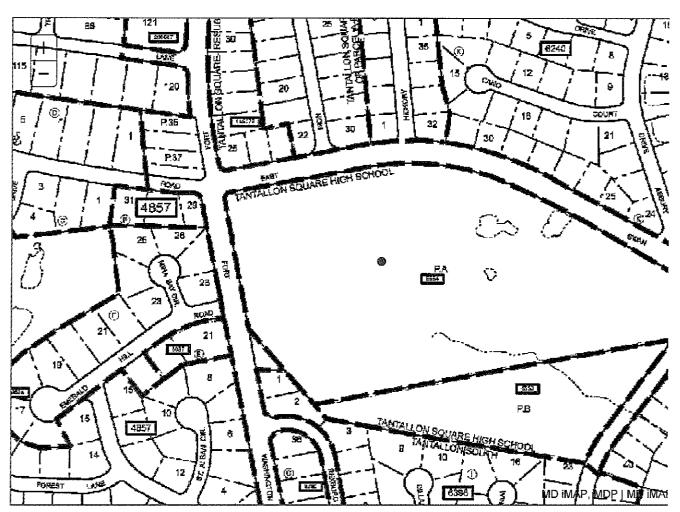
Search Result for PRINCE GEORGE'S COUNTY

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Map:	Grid:	Parcel:	Neig	hborhood:	Subdivis	ion:	Section:	Block:	Lot:	Assessme Year:	ent	Plat No:	A-6554
0131	00F2	0000	5019	9115.17	9115					2019		Plat Ref:	
Specia	I Tax Are	as: None	*- • • • • • • • • • • • • • • • • • • •				Town	:			N	оле	amaritikitikaratan kontintan ta
							Ad Va	alorem:			N	one	
							Tax C	lass:			8		
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Stories	Base	ement	Туре	Exterior	Quality	Full/ł	alf Bath	Garage	Last	Notice of M	ajor	improv	ements
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				Base Valu			ormation			According			
				Dase valu	ie –	Valu As c			iase-in / ; of	Assessmen	ts As o	-f	
						01/0	1/2019		/01/201	9)1/2020	
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Seller:	*****				Date				Pr	ice:		umaan un farman tärihaan t	
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Partial Ex	xempt As	ssessmer	nts:	Class				07/01/20				01/2020	
County:				440				831,333.				6,367.00	
State:				440		•		831,333.				5,367.00)
Municipa				440				0.00 0.00)		0.0	0 0.00	
	empt: No t Class: l				SI	peciai T	ax Recapt	ure: None					
					Homestead	I Applic	ation Inform	ation					
	ad Annli	cation Sta	atus: No	Application									
Homeste	au Appli				owners' Tax					*********	*****		

Prince George's County

New Search (https://sdat.dat.maryland.gov/RealProperty)

District: 05 Account Number: 0281360



The information shown on this map has been compiled from deed descriptions and plats and is not a property survey. The map should not be used for legal descriptions. Users noting errors are urged to notify the Maryland Department of Planning Mapping, 301 W. Preston Street, Baltimore MD 21201.

If a plat for a property is needed, contact the local Land Records office where the property is located. Plats are also available online through the Maryland State Archives at <u>www.plats.net (http://www.plats.net)</u>.

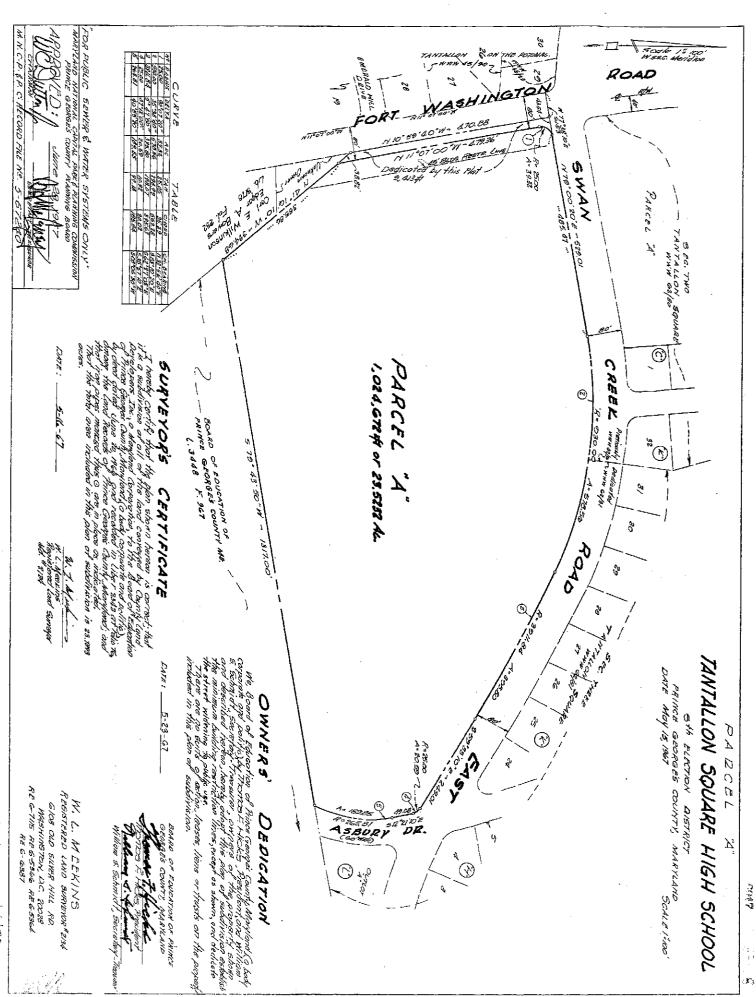
Property maps provided courtesy of the Maryland Department of Planning.

For more information on electronic mapping applications, visit the Maryland Department of Planning web site at http://planning.maryland.gov/Pages/OurProducts/OurProducts.aspx (http://planning.maryland.gov/Pages/OurProducts.aspx).

3343 76 3118-J Corporation deed in fee THIS DEED 20-Made this day of ine in the year 1966, by and between COUNTY LAND DEVELOPERS, INC., a Maryland corporation party of the first part, and BOARD OF EDUCATION OF PRINCE GEORGE'S COUNTY, MARYLAND (a body corporate and politic) party of the second part: PRINCE GEORGE'S COUNTY CIRCUIT COURT (Land Records) WWW 3343, p. 0076; MSA_CE64_3424, Data available 05/16/2008; Printed 11/14/2019. WITNESSETH, that in consideration of the sum of Ten Dollars (\$10.007 And other good and valuable considerations, the receipt of which is hereby acknowledged, the said party of the first part does grant and convey unit party of the second part, its successors and assigns, in fee simple, the second part following described land and premises, with the improvements, easements, and appurtenances thereunto belonging, situate, lying and being in Prince George's County, State of Maryland, namely: All that piece or parcel of land situate, lying and being in the Fifth Election District, Prince George's County, Maryland, and being more particularly described as follows: Being part of the land of County Land Developers, Inc., as described in a MIN conveyance recorded among the Land Records of Prince George's County, Maryland (5th Election District) in Liber 3244 at folio 187, and being more particularly ò described as follows: 0 BEGINNING for the same at an iron pipe on the division line between the land of County Land Developers, Inc. (Liber 3244, Folio 187) and the land of Carl E. Wilkinson and Edgar A. Bowers (Liber 3178, Folio 232), said iron pipe lying South 80 degrees 08 minutes 40 seconds West, 531.00 feet from a stone at the southeast corner of County Land Developers, Inc., and running thence with said division line, South 80 degrees 08 minutes 40 seconds West, 1317,00 feet 6 to an iron pipe, passing in transit a stone 766.26 feet from the end of said course, thence with the outline of County Land Developers, Inc., North 40 $\langle r_{i} \rangle$ degrees 51 minutes 20 seconds West, 394.68 feet to an iron pipe, thence with th easterly right of way line of Fort Washington Road, North 10 degrees 34 minutes 50 seconds West, 470.88 feet to an iron pipe, thence through the land of County Land Developers, Inc., North 79 degrees 25 minutes 10 seconds East, 529.01 feet to an iron pipe at a point of curvature, thence 578.56 feet along the arc of a curve to the right, having a radius of 930.00 feet and a long chord bearing and distance of South 82 degrees 45 minutes 30 seconds East, 569.28 feet to an iron pipe at a point of compound curvature, thence 395.80 feet along the arc of a curve to the right, having a radius of 3911.84 feet and a long chord bearing and distance of South 62 degrees 02 minutes 15 seconds East, 395.63 feet to an iron pipe at a point of tangency, thence South 59 degrees 08 minutes 20 seconds East, 249.01 feet to an iron pipe at a point of curvature, thence 20.59 feet along the arc of a curve to the right, having a radius of 25.00 feet and a long chord bearing and distance of South 35 degrees 32 minutes 20 seconds East, 20.02 feet to an iron pipe at a point of tangency, thence South 11 degrees 56 minutes 20 seconds East, 49.08 feet to an iron pipe at a point of curvature, thence 189.85 feet along the arc of a curve to the right, having a radius of

3343 - 2 -265.81 feet and a long chord bearing and diatance of South 08 degrees 31 minutes 20 seconds West, 185.84 feet to the point of beginning; Containing 1,034,085 square feet or 23,7393 acres. As per description made by W. L. Meekins, Registered Land Surveyor, April 5, 1966. AND the said party of the first part covenants that it will warrant specially the property hereby conveyed; and that it will execute such further assurances of said land as may be requisite. IN TESTIMONY WHEREOF, the said County Land Developers, Inc., a Maryland corporation, hath on the 20 day of <u>Jun</u>, A.D. 1966, caused these presents to be signed by <u>LESTER</u> <u>C. HAVE</u> its <u>Margland</u> presents to be signed by <u>lester</u> attested by <u>MLADO</u> <u>Promasra</u> NCE GEORGE'S COUNTY CIRCUIT COURT (Land Records) WWW 3943, p. 0077, MSA, CEB4_3424. Date available 05/16/2006; Printed 11/14/2019. corporate seal to be hereunto affixed; and doth hereby appoint lesses City its Secret and its its true and lawful attorney in fact to acknowledge and deliver hese presents as its act and deed. COUNTY LAND DEVELOPERS, INC. in and the second (corpor Deve President. C. HALE CA ALL 0072 14 T. Secretary. 29 W LADD PROHASTA 65 signed, sealed and delibered in the presence of--PAL LAUL WE WUSSING 1074ADD* ROH \sim OGA. Ι. Secretary ASKA of County Land Developers, Inc., a Maryland corporation, do hereby certify that the aforegoing deed was executed in strict conformity with a resolution of the Board of Directors of the said corporation organized under the laws of Maryland passed at a duly passed at a duly called meeting of said corporation, held Well Secretary. N. LAND PASITASKA STATE OF MARYLAND COUNTY OF undersigned officer, personally appeared 2 0-day of On this the person appointed in the aforegoing instrument as attorney in fact, and as a attorney in fact and by virtue of the authority vested inhim by said instru acknowledged the same to be the act of the grantor therein for the purpose therein contained. In witness whereof I hereunto set my hand and official sealing PAR I MISS Notary Public My commission expires: July 1, 1967

3343 TRANSFERRED 78 IN 211366 The on trive had on record BY Ange Loss 1945 Mar mail to: Grantee County Land Developers, Inc., a Maryland corporation Board of Education of Prince George's County, Maryland (a body corporate and politic); REICHELT. NUSSBAUM & BROWN ١, CORPORATION DEED ρ ġ ATTORNEYS.AT.LAW 5122 UALTEMORE AVENUE HYATTSVILLE, MARYLAND 779-9000 Upper Marlboro, Md. \sim 50 C8 191 PRINCE GEORGE'S COUNTY DIRCUIT COURT (Land Records) WWW 3343, p. 0078, MSA_CE64_3424. Date available 05/16/2006. Prihted 11/14/2019. Received for record on the Day of____ Ď. -Å. 19 and the same day recorded in Liber. -3343_zi Folio, 76 No. ..__&c one of the Land Récords of Prince George's County, Maryland W. Waverly Wicht Clerk of the Circuit Court

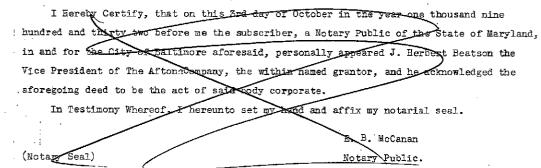


89. MSA_51250014450, Date alphable, Prinzed 20100015.

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State of Maryland, City of Baltimore, to wit:



Enrolled October 6, 1932 at 1:45 P. M.

Edmund H. Graham & John Alden, Trs. Reese B. Gillespie Henrietta V. Gillespie James B. Gillespie Adolphaina H. VanderWater Jas. O. Holmes Continental Life Ins. Co.

52

to State of Md, etc. WHEREAS, the State Roads Commission of Maryland, acting for the State of Maryland, proposes to acquire the land shown on the State Roads Commission of Maryland's Plat No. 187 which is duly recorded or intended to be recorded among the Land Records of Prince George County in the State of Maryland, in order to lay out and construct, under its Contract No. P-221-811, a road, together with the appurtenances thereto belonging, as a part of the Maryland

State Roads System, and

WHEREAS the laying out of said road in addition to being required for public convenience, necessity and safety, is a material benefit to the undersigned-

NOW, THEREFORE, in consideration of the above premises, One Dollar (\$1.00) and other good valuable considerations, the receipt whereof is hereby acknowledged, we, for ourselves our heirs, successors, executors, administrators and assigns, do hereby grant and convey unto the State of Maryland, to the use of the State Roads Commission of Maryland, its successors and assigns, forever in fee simple, all our right, title and interest, free and clear of all liens and encumbrances, in and to all that land, together with the appurtenances thereto belonging or in any wise appertaining lying between the extreme outlines of the said proposed road as shown on the aforesaid plat, all of which is made a part hereof; and we, for ourselves, our heirs, successors, executors, administrators and assigns do further hold the State of Maryland and the State Roads Commission of Maryland, their members, officers, agents and employees harmless and from molestation for any purpose, matter or thing whatsoever, arising out of the taking or use as aforesaid, by the said Commission, including any change of grade or drainage!

IN WITNESS WHEREOF we have hereunto set out hands and seals this 29th day of September, in the year 1932.

John Alden, Witness as to signature of James O. Holmes W. E. Howard, Witness as to signature of James B. Gillespie (Corporate Seal)

Attest: R. E. Ankers Secy.

PRINCE GEORGES COUNTY CIRCUIT COURT (Land Records) 390, p. 0052, MSA_CE64_476. Date available 07/30/2004. Printed 11/14/2019.

Witness as to signatures of

Edmund E. Graham and John Alden, Trustees.

W. E. Howard

Rees B. Gillespie (SEAL) Henrictta C. Gillespie (SEAL) Adolphemie H. VanderWater (SEAL) James C. Holmes (SEAL) James B. Gillespie (SEAL) Continental Life Insurance Company, Inc. By H. B. Bartholomew Pres. Edmund E. Graham (SEAL)

John Alden Trustees. District of Columbia, ss:

Subscribed and sworn to before me this 23rd day of September 1932 by Rees B. Gillespie and Henrietta V. Gillespie and Adolphemie H. Vander Water.

> A. Lillian Montegue Notary Public.

53

(Notary Seal)

My Commission Expires Dec. 13, 1935.

District of Columbia, ss:

Before me, a Notary Public of the District aforesaid, personally appeared H. A. Bart_olomew, Pres. of the Continental Life Insurance Company, Inc. the above named grantor and he did acknowledged the aforegoing deed and release to be its act.

WITNESS my hand and Notarial Seal this 26th day of September in the year 1932.

(Notary Seal)

Thomas V. Lake Notary Public D. C.

My Commission expires March 15, 1937.

James C. Holmes James B. Gillespie

District of Columbia, ss:

Subscribed and sworn to before me this 26th day of September 1932.

(Notary Seal)

Edmund H. Graham Notary Public, D. C.

My Commission Expires July 18, 1934.

DISTRICT OF COLUMBIA, CITY OF WASHINGTON, TO WIT:

I HEREBY CERTIFY that before me the subscriber, a Notary Public of the District of Columbia in and for the City aforesaid personally appeared Henrietta V. Gillespie and Adolphania H. Vander Water and they acknowledged the aforegoing deed to be their deed and act.

WITNESS my hand and Notarial Seal this 29th day of September A. D. 1932.

W. Ledry Koontz Notary Public.

DISTRICT OF COLUMBIA, CITY OF WASHINGTON, TO WIT:

I HEREBY CERTIFY that before me the subscriber a Notary Public of the District of Columbia in and for the City aforesaid personally appeared James Gillespie and he acknowledged the aforegoing deed to be his deed and act.

WITNESS my hand and Notarial Seal this 29th day of September A. D. 1932.

(Notary Seal)

(Notary Seal)

PRINCE GEORGE'S COUNTY CIRCUIT COURT (Land Records) 390, p. 0053, MSA_CE64 _476. Date available 07/30/2004. Printed 11/14/2019.

W. Ledru Koontz Notary Public. DISTRICT OF COLUMBIA, CITY OF WASHINGTON, TO WIT:

I HEREEY CERTIFY that before me the subscriber a Notary Public of the District of Columbia in and for the City aforesaid personally appeared Rees B. Gillespie and he acknowledged the aforegoing deed to be his deed and act.

WITNESS my hand and Notarial Seal this 29th day of September A. D. 1932.

(Notary Seal)

W. Ledru Koontz Notary Public.

DISTRICT OF COLUMBIA, CITY OF WASHINGTON, TO WIT:

I HEREBY CERTIFY that before me the subscriber a Notary Public of the District of Columbia in and the City aforesaid personally appeared James C. Holmes and he acknowledged the aforegoing deed to be his deed and act.

WITNESS my hand and Notarial Seal this 29th day of September 1932.

: (Notary Segl)

(Notary Seal)

Salvador J. Cosimano Notary Public, D. C.

DISTRICT OF COLUMBIA, CITY OF WASHINGTON, TO WIT:

Before me, a Notary Public of the State and County aforesaid personally appeared EDMUND H. GRAHAM AND JOHN ALDEN, TRUSTEES, the above named grantors and they jointly and severally acknowledged the aforegoing deed and release to be their act.

WIINESS my hand and Notarial Seal this 29th day of ____ in the year 1932.

Salvadory. Cosimano Notary Public, D. C.

My Commission expires Aug. 31, 1937.

Enrolled October 6, 1932

Henrietta V. Gillespie Adolphania H. VanderWater Continental Life-Ins. Co Gillespie hes B State of Mc

PRINCE GEORGE'S COUNTY CIRCUIT COURT (Land Release) Sold Dor Martice CERENTION. Date available 07/30/2004. Printed 11/14/2019.

· 1032

WHEREAS the State Roads Commission of Maryland, acting for the State of Maryland, proposes to acquire the land Shown on the State Roads Commission of Maryland's Plat No. 188 which is duly recorded or intended to be recorded among the Land decords of Prince George County in the State of Maryland, in order to lay out and construct, under its

Contract No. P-221-811, a road, together with the appurtementes thereto belonging, as a part of the Maryland State Roads System, and

WHEREAS the laying out of said road in addition to being required for public convenience, necessity and safety, is a material benefit to the undersigned-

NOW, THEREFORE, in consideration of the above premises, One Pollar (\$1.00) and other good valuable considerations, the receipt whereof is hereby accowledged, iwe, for ourselves our heirs, successors, executors, administrators and assigns, do hereby grant and convey unto the State of Maryland, to the use of the State Roads Commission of Maryland, its specessors and assigns, forever in fee simple, all our right, title and interest, Free and clear of all liens and encumbrances, in and to all that land, together with the acourtenances thereto belonging or in any wise appertaining lying between the extreme outlines of the said proposed road as shown on the aforesaid plat, all of which is made a

Client:	cυ					Date Received:	
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Title Research Associates

Liber: Folio:	Evelyn Foster	Type of Conveyance: Deel
381 - 117		
		Dated: 7/1/30
Being:	То:	Recorded:
	Rees Cillespie	Notes:
Property:		
·····	143 Ac.	

Grantor Run:

Liber	Folio	Inst.	To:		Block	Subdivision
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<u>390</u> 3235	515	a	to	140 see Itale		
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Title Research Associates

Liber: Folio:	Rees B. Gillespie	Type of Conveyance: Deel
325-515	*	Dated: 11/1-8/65-
		Dated: "(17/65
Being:	То:	Recorded:
	Lester C. Hall	Notes:
,	W.Ladd Prohaska	
Property:		
	143 Ac	
	143 Ac Sle	· · · · · · · · · · · · · · · · · · ·
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Grantor Run:

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Title Research Associates										
Liber: Folio:	Lester C. Hale Mary C. Hale	Type of Conveyance: Dece								
3244-187	W. Cade prohaska Lorraine Prohaska	Dated:								
Being:	То:	Recorded: 12/7/65								
	County Land Developers I.	Notes:								
Property:	143 Ac.	·····								
	Sle NOW 139.317 AL.									
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Property: 05-0281766 Southern

Title Vested In: Board of Education of Prince George's County, Maryland

Records Searched Thru: 10/31/2019

- 1) NUMBER OF TITLE ISSUES THAT NEED TO BE ADDRESSED: NONE
- 2) Liens: NONE

•

3) Right of Ways/Easements:

WSSC 2784/343, 3421/698

Minimum Building Restriction Line as shown on Plat

4) Taxes for the period ending June 30, 2020, in the amount of \$0.00, are Paid.

:			ere an eachdraid			
RESEA Associates		Mail:	P.O. Box (301)627	Suite 101 • Up 1616 • Upper 7-5488 • Fax (s @TitleResea	Marlboro 301)627-'	7542
Client <u>CUT</u>	He Ins Agen	er Case No. PGC	.PS	TRA	Case N	0 78185
Property	0	Case No. PGC	y South	ern Area	Cubert	0. 10, 143
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Ų		of Prince George's C	ounty. Ma	rvland	<u></u> al F	at <u> </u>
II. Fee Simple T	itle Vested In $\underline{\beta}$	oardofEd	ucatr	on of Pr;	nce G	eorges Count
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		orded 3/21/67	l iber	3448	Folio	917
III. Subject To						101
•	-FS from (Fee) - cle	arr			
to						, Trustees
Amount \$	Securing			••••••••••••••	<u> </u>	, Hustees
Dated	Recorded_	Lib	er	Fc	olio	
2. Trust-Mortgage-	FS from (Fee)				· · · · · · · · · · · · · · · · · · ·
to	<u> </u>		•			, Trustees
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3. Trust-Mortgage-	FS from (Fee)				
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V. Remarks		<u> </u>				· · · · · · · · · · · · · · · · · · · ·
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V. Tax Identificat	ion # 0.5-0	281766		A hater	ad D.	740
	I	by the Clerk of the Cour	rt throwal	Abstrac: 10[31]	ted By <u>/2</u> / 9	- DUCK
This report is for the					<u>, , , , , , , , , , , , , , , , , , , </u>	······

s report is for the sole benefit of the above named client and is not assignable without the written consent of Title Research Associates, Inc.

Sunday, September 29, 2019

Property Tax Inquiry

PRINCE GEORGE'S COUNTY REAL PROPERTY TAX INFORMATION FOR FY 20 TAX PERIOD 07/01/19 - 06/30/20 MEETS REQUIREMENTS FOR REAL PROPERTY SECTION 14-125

ACCOUNT NUMBER	R: 0281766	DISTRICT:	05	DATA A	S OF:	09/29/19 at 12:13:56	New Search
OWNER:			CARE	DF:			Help
BOARD OF EDUCA	FION						Payment History
PROPERTY ADDRE	SS:		MAILIN	G ADDRESS	;;		
000000 ASBURY DF	ł		14201 S	CHOOL LN			
FORT WASHINGTO	N MD 20744-0000		UPPER	MARLBORC	, MD 2077	72-2866	
MORTGAGE:			UNKNO				
PROPERTY DESCR	IPTION:		PARCE				
CONDO:PLAT				PHASE	BLDG	UNIT	
SUBNAME:	TANTALLON SQU	JARE H				LIBER/FOLIO:	03448/967
SECTION:						LATEST DEED:	ZZJZZZZZ
LOT:						LAND:	37,500.00
BLOCK:						IMPS:	0.00
ACREAGE:	6.260 A					ASSESSMENT:	37,500.00
OCCUPANCY:	NOT PRINCIPAL I	RESIDENCE					TANGUADOD
TAX DESCRIPTION							TAX/CHARGE:
COUNTY PROPERT	Y TAX - SUPPLEMEN		T				0.00 0.00
STATE OF MARYLA		TAL EDUCATION					0.00
PARK & PLANNING							0.00
	ESAPEAKE BAY WAT						0.00
	URBAN TRANSIT CO						0.00
TOWN LEVY							0.00
OTHER MUNICIPAL	CHARGES						0.00
FRONT FOOT	OTHICOLO						0.00
SOLID WASTE SER	VICE CHARGE						0.00
CLEAN WATER ACT							0.00
SPECIAL AREA							0.00
LIENS							0.00
OTHER TAXES/FEE	S						0.00
LESS HOMEOWNER	RS TAX CREDIT						0.00
LESS HOMESTEAD	TAX CREDIT						0.00
LESS DISCOUNT C	REDIT						0.00
TOTAL							0.00
PAYMENT RECEIVE	D					INT/PEN	0.00 0.00
REFUND DATE						REFUND AMOUNT	0.00
Account No:	0281766	FY20					

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http://taxinquiry.princegeorgescountymd.gov/taxdetail.aspx

Real Property Data Search

You may experience issues today as SDAT works to restore all services. SDAT apologizes for any inconvenience the last few days, and asks for patience as we continue to work to make the site better.

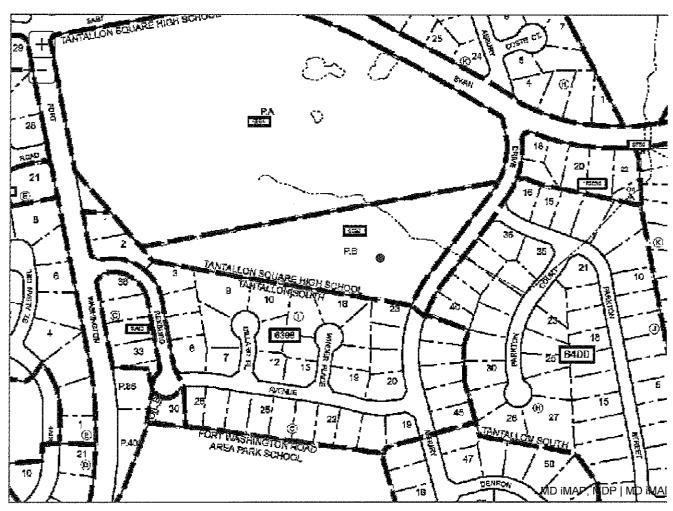
Search Result for PRINCE GEORGE'S COUNTY

View Map			View GroundRent Redemption					View GroundRent Registration					
Tax Ex	empt: N	one	Special Tax Recap										
Exemp	t Class:	None											
Account	Identifie	er:		District -	05 Account	Numb	er - 028176	6					
							ormation	-					
Owner Name:			BOARD OF EDUCATION					Use: Principal Residence:			EXEMPT NO		
Mailing A	\ddress:	:	14201 SCHOOL LN UPPER MARLBORO MD 20772-28				772-2866	Deed Reference: /03448/ 00967				967	
						& Struc	ture Informa						
Premises Address:			ASBURY DR FORT WASHINGTON 20744-0000				-0000	Legal Description:			PARCEL B		
Мар:	Grid:	Parcel:	-	jhborhood:	Subdivisi	ion:	Section:	Block:	Lot:	Assessmen Year:	t Plat No:	A-6553	
0131	00F3	0000	5019	9115.17	9115					2019	Plat Ref:		
Special Tax Areas: None							Town	-			None		
								Valorem: None					
				Tax				Class:			8		
Primary Structure Built			Above Grade Living Area			Finished Baseme		nent Area	ent Area Property Land 6.2600 AC		d Area County Use 901		
Stories	Base	ement	Туре	Exterior /	Quality	Full/	Half Bath	Garage	Last	Notice of Maj	or Improv	ements	
				1	Va	Ine Infr	ormation						
				Base Value Value				Phase-in Assessments					
							sof Asof						
						01/0	1/2019		7/01/201		07/01/2020)	
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Seller:				Date:			•			rice:			
Туре:				Deed1			Deed2:						
Seller:				Date:					Pr	ice:			
Туре:				Deed1:			Deed2:						
Seller:				Date:			Price:						
Туре:					Deed					ed2:			
					Exem	nption I	nformation			· · ·			
	cempt As	ssessmer	its:	Class				07/01/20			07/01/202		
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	empt: No t Class: I				Sp		ax Recapt	ure: None					
Homest-	od Ann ¹	iontia - St	nture N-		Homeste a d	Applic	ation Inform	nation					
nomeste	ao Appil	cation Sta	atus: No	Application	owners' Tax	O and 12	Application	Inform-+-					

Prince George's County

New Search (https://sdat.dat.maryland.gov/RealProperty)



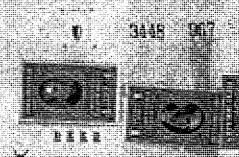


The information shown on this map has been compiled from deed descriptions and plats and is not a property survey. The map should not be used for legal descriptions. Users noting errors are urged to notify the Maryland Department of Planning Mapping, 301 W. Preston Street, Baltimore MD 21201.

If a plat for a property is needed, contact the local Land Records office where the property is located. Plats are also available online through the Maryland State Archives at <u>www.plats.net (http://www.plats.net)</u>.

Property maps provided courtesy of the Maryland Department of Planning.

For more information on electronic mapping applications, visit the Maryland Department of Planning web site at http://planning.maryland.gov/Pages/OurProducts/OurProducts.aspx (http://planning.maryland.gov/Pages/OurProducts/OurProducts.aspx).



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Made this 22⁻⁴ day of February, 1967, by and between GAW. S. WILKINGON and EDIAL A. MANERS, JOINT TRAINTS WITH LIGHT OF NUMFITURENT, Training for Yilong Land Joint Tepture, Paralesof the First Park, and

All that place or percel of land situate, lying and being in the Fiscataropy Electrick, Frince Secret's County, Naryland, and being more particularly described as follows:-

Billis a part of Parcel was of the lands occrayed by else thr., to Carl E. Vilstness and Eigar I. Henry. Joint Femants. by deed dated July 19, 1965 and recorded buly 25, 1965 assoc the Land Records of Frikes Gaurge's Nemmer, Maryland, Le sider 1175 at Follo Dis and being more particularly insertion as fellows

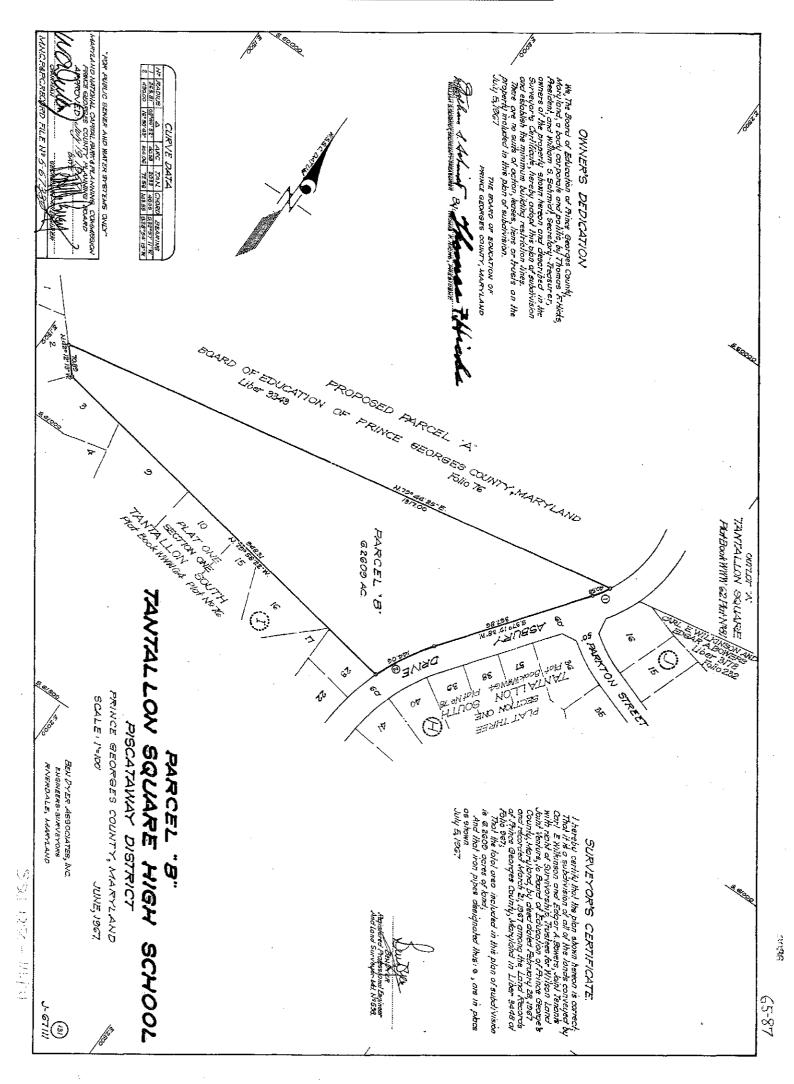
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3448968 An arc distance of 40.58 feet to a point of tangency; thence continuing with said westerly 2. line 5. South 37 degrees 19 minutes 38 seconds West 367.86 feet to a point of curvature; and along the arc of a curve deflecting to the left, said curve having a radius of 490.00 feet and a long chord bearing and distance of South 28 degrees 54 minutes 15 seconds West 143.55 feet. 4. An arc distance of 144.06 feet to a point: thence leaving said proposed westerly line and crossing the lands of Carl E. Wilkinson and Edgar A. Bowers. PRINCE GEORGE'S COUNTY CIRCUIT COURT (Land Records) WWW 3448, p. 0968, MSA_CE84_3529, Date available 05/16/2006, Printed 11/14/2019. 5. North 79 degrees 58 minutes 22 seconds West 948.31 feet to a point; and 6. North 42 degrees 12 minutes 13 seconds West 70,89 feet to the place of beginning, containing 272,727 square feet or 6.2609 acres of land. AND the said Parties of the First Part covenant that they will warrant specially the property hereby conveyed; and that they will execute such further assurances of said land as may be requisite. WITNESS, their Hands and Seals the day and year first hereinbefore written. WITNESS :-Margaret S. Cas inat Seal Edgar/ Rover STATE OF MARYLAND COUNTY OF PRINCE GEORGE'S 88, . . I, Margaret S. Owens, a Notary Public in and for the State and County aforesaid, do hereby certify that Carl E. Wilkinson and Edgar A. Bowers, Parties to a certain Deed bear-ing date on the 28⁻² day of February, 1967, and herete annexed, personally appeared before me in said State and County, the said Parties being personally well known to me (or satisfactor-ily proven) to be the persons who executed the said Deed and acknowledged the same to be their act and dewd. DE BLASIS & KAHLER GIVEN under my Hand and Seal this the star of February, 3731 BRANCH AVE. . . 1967. A SUITE SOL SOUTHERN MARYLAND BANK & TRUST CO. BLDG Notars Bonble My Constarion Expires: 7-1-67 Margarel Sullevens WASHINGTON 23, D. C. 423-7100 2

្ស 3448 969 Mail to: Grantee and the complex recorded in Liber 10^{-3} / $\frac{3}{2}$ at 1 allo, $\frac{96}{2}$ as of Prince George's County, Maryland one of the LAND Records Cay of the same Proceived for record on the BOARD OF EDUCATION OF PRINCE GEORGE'S COUNTY, MARYLAND, (a body corporate and politic) VENTURE CARL E. WILKINSON AND EDGAR A. BOWERS, JOINT TENANTS WITH RIGHT OF SURVIVOR-SHIP, TRUSTEES FOR WILSON LAND JOINT W. Wanderly Wille REICHELT, NUSSBAUM & BROWN Clerk of the Cheak Court Upper Marlboro, Maryland 5122 BALTIMORE AVENUE HVATTSVILLE, MARYLAND 779-9000 Ĵ. ATTORNEYS-AT-LAW TO pracy___A. D. - 1967 -200 50 50 PRINCE GEORGE'S COUNTY-CIRCUIT COURT (Land Records) WWW 3448, p. 0966, MSA_CE64_3529. Date available 05/16/2006: Printed 14/14/2019. . ر بر میں 9 Jaxes levied and on record as of this date TRANSFERRED MAR 21, 1967 have been paid St.) CHARLES E. CALLOW, Trees. MAR 21 1967 EX 2484. TRANSE OFFICE 10

CE GEORGE'S COUNTY CIRCUIT COURT



- LINER 2784 PAGE 343 This Right of Way

Made this S 23rd of our Lord one thousand nine hundred and

of the Country of WASHINGTON

PRINCE GEORGE'S COUNTY CIRCUIT COURT (Land Records) WWW 2764, p. 0343, MSA_CE64_2673. Date available 09/07/2005. Printed 11/14/2019.

day of January

sixty-three

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en Co

, by and between

IRVING S. LICHTMAN, ALBERT D. MISLER AND XMARKEN XX KEN XXXX

Joint Tenants,

DISTRICT OF

COLUMBIA , part ies in the State of of the first part, and the WASHINGTON SUBURBAN SANITARY COMMISSION, a public corporation of the State of Maryland, organized and existing under the laws of said State, party of the second part.

Witnesseth: That in consideration of the sum of One Dollar (\$1.00) to them in hand paid by the party of the second part, the receipt of which is hereby acknowledged, the said part ies of the first part do hereby grant and convey unto the said party of the second part, its successors and assigns, the easement and right of way hereinafter described for the installation, construction, reconstruction, maintenance, repair, operation and inspection of a fire hydrant and appurtenances _____

----- within said easement and right of way, together with the right of ingress and egress along and over said right of way, for any and all of such purposes; the said right of way and easement being described as follows:

Being a strip or parcel of land six (6) feet wide, hereinafter described, in, through, over and across the property of the first parties hereto, obtained from The Old Fort Co. by deed dated March 9, 1960 and recorded among the Land Records of Prince George's County, Maryland, in Liber 2448 at Folio 222.

The said six (6) feet wide strip or parcel of land lying north of and adjacent, contiguous and parallel to the north line of Old Fort Road, thirty (30) feet wide as now laid out and existing, and extending from a point 165.00 feet west of the sixteenth or South 13° 45' 34" East, 27.37 foot line of the aforesaid deed westerly a distance of 12.00 feet, containing 72.00 square feet or 0.0017 acres.

line Line **3**0. ró ÷. 33 Wach. Sut. San. Com Hor7 Xlamillo Ich. 19.1963

USER 2784 MEE 344

To Have and to Hold said easement and right of way for a fire hydrant and appurtenances ______ above described or mentioned and hereby intended to be granted and conveyed, together with the rights, privileges, appurtenances and advantages thereto belonging or appertaining, unto and to the only proper use, benefit and behoof forever of the said Washington Suburban Sanitary Commission, its successors and assigns.

And the parties of the first part, for themselves, their heirs and assigns, covenant and agree with the party of the second part, its successors and assigns, as follows: FIRST: that they will obtain the consent of the Commission before they erect or permit to be erected any building or structure, or before they fill or excavate within the above described easement and right of way. SECOND: that the party of the second part, its successors and assigns, shall at all

times have right of ingress and egress over said easement and right of way for the purpose of installing, constructing, reconstructing, maintaining, repairing, operating and inspecting the fire hydrant and appurtenances -----Mill Mill ----- within said easement and right of way, said ingress and egress to be along the line herein designated and along such other lines as the 1010 parties of the first part may designate. THIRD: that they will warrant specially said easement and right of way and will execute such further assurances thereof as may be requisite. Witness THEIR HANDS AND SEALS the day and year first hereinabove written. Attest: EAL . Wood (SEAL) bath (SEAL) (SEAL) SEAL) (SEAL) COLUMBIA RIGT 23es JANMARY On this the day of , 19 63, before me, CAROL BRADLEY the undersigned officer, personally appeared IRVING S. LICHTMAN, ALBERT D. MISLER MELINANYON AVAILANTON known to me (or satisfactorily proven) to be the persons whose names are subscribed to the within instrument and acknowledged that they have executed the same for the purposed therein contained. In Muness Whereof, I hereunto set my hand and official seal. Votary Public prires (feril 14, 1963 Commi STATE OF SS COUNTY OF On this the , 19 day of , before me. , the undersigned officer, personally appeared known to me (or satisfactorily proven) to be the person whose name subscribed to the within instrument and acknowledged that executed the same for the purposes therein contained. In Witness Whereof, I hereunto set my hand and official seal. Notary Public My Commission expires

PRINCE GEORGE'S COUNTY CIRCUIT COURT (Land Records) WWW 2784, p. 0345, MSA_CE64_2873. Date available 09/07/2006. Printed 11/14/2019.

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	füll	3421 698	
	5CS &CR	This Right of Way	an a
	.6.0.	Made this Stoth day of Cotaber	· ·
	0.K.0T.P.5.0.	of our Lord one thousand nine hundred and sixty-six , by and between	
	in in	CARL E. WILKINSON and EDGAR A. BOWERS, Joint Tenants	
	4 5 4		
	ALD-15-56 PAID	of the County of never Menges in the State of Manyland , part ies of the first part, and the WASHINGTON SUBURBAN SANITARY COMMISSION. a public corporation of the State of Maryland, organized and existing under the laws of said State, party of the second part.	
4/2019.	GC-15	Witnesseth: That in consideration of the sum of One Dollar (\$1.00) to them in hand paid by the party of the second part, the receipt of which is hereby acknowledged, the said part ies of the first part do hereby grant and convey unto the said party of the second part, its successors and assigns, the easement and right of way hereinafter described for the installation, construction, reconstruction, maintenance, repair, operation and inspection of one or more sanitary sewers and appurtenances thereto, including service connections	
tied 11/1		and right of way, together with the right of ingress and egress along and over said right of way, for any and all of such purposes; the said right of way and easement being described as follows:	
3502. Date available 05/16/2006. Printed 11/14/2019.		Being three (3) strips or parcels of land, one (1) strip or parcel of land forty-five (45) feet wide, fifteen (15) feet east of, and thirty (30) feet west of the base line hereinafter described in PART I, one (1) strip or parcel of Land forty (40) feet wide, twenty-five (25) feet east of, and fifteen (15) feet west of the base line hereinafter described in PART II, and one (1) strip or parcel of land hereinafter described in PART III, in, through, over and across the property of the parties of the first part acquired from Disc, Inc., by deed dated July 10, 1965 and recorded among the Land Records of Prince George's County, Maryland in Liber 3178 at Folio 232.	
2. Daté		PART I:	
	- *	Beginning for the said base line of the said forty-five (45) foot wide strip or parcel of land at a point on the thirty-second or North 72° 48' 24" East, 1551.22 foot line of the aforesaid deed, said point being 54.43 feet northeasterly from a monument found at the beginning thereof, and running thence	
PRINCE GEORGE'S COUNTY CIRCUIT COURT (Land Records) WWW 3421, p. 0698, MSA_CE63		 47.42 feet along the arc of a curve to the right having a radius of 215.00 feet and a long chord bearing and distance of South 09° 10' 15" West, true, 47.42 feet to a point of tangency, thence South 15° 30' 09" West, true, 205.42 feet to a point of curvature, thence 99.69 feet along the arc of a curve to the left having a radius of 215.00 feet and a long chord bearing and distance of South 02° 13' 09" West, true, 98.80 feet to a point of tangency, thence South 11° 03' 51" East, true, 835.11 feet to a point of curvature, thence 52.10 feet along the arc of a curve to the right having a radius of 435.00 feet and a long chord bearing and distance of South 07° 38' 00", East true, 52.07 feet to a point of tangency, thence South 04° 12' 08" East, true, 510.37 feet to a point of curvature, thence 45.92 feet along the arc of a curve to the right having a radius of 215.00 feet and a long chord bearing and distance of South 01° 55' 00" West, true, 45.84 feet to a point of tangency, thence South 04° 02' 09" West, true, 911.22 feet to a point; containing 121,826.25 sg. feet or 2.7967 acres. 	
urr.co		PART II: Beginning for the said base line of the said forty (40) feet wide strip	
JNTY CIRC		or parcel of land at a point on the thirteenth or South 74° 11' 50" West, 268.48 foot line of the aforesaid deed, said point being 15.01 feet easterly from the end thereof, and running thence	
NCE GEORGE			
PRIF 			

North 12° 02' 35" West, true, 333.21 feet to a point, thence North 15° 25' 35" West, true, 65.87 feet to a point; containing 15,963.20 square feet or 0.3665.acres.

PART III:

PRINCE GEORGE'S COUNTY CIRCUIT COURT (Land Records) WWW 3421, p. 0699, MSA_CE64_3502. Date available 05/16/2006. Printed 11/14/2019.

Beginning for the said strip or parcel of land at a point at the northwesterly corner of the forty (40) feet wide strip or parcel of land described above in PART II, said point being 64.94 feet southeasterly from the end of the fifteenth or North 15° 27' 25" West, 130.30 foot line of the aforesaid deed, thence with and along said fifteenth deed line North 15° 25' 35" West, true, 54.94 feet to the end thereof, thence running with and along the sixteenth or North 39° 26' 35" East, 109.00 foot deed line North 39° 28' 25" East, true, 109.00 feet to the end thereof, thence running with and along the seventeenth or North 15° 21' 35" East, 74.50 foot deed line North 15° 23' 25" East, true, 74.60 feet to the end thereof, thence running with and along the eighteenth or North 05° 45' 25" West, 172.10 foot deed line North 05° 44' 35" West, true, 172.10 feet to the end thereof, thence running with and along the nineteenth or North 11° 13' 25" West, 140.50 foot deed line North 11° 11' 35" West, true, 140.50 feet to the end thereof, thence running with and along the twentieth or North 09° 33' 55" East, 3.67 foot deed line North 09° 35' 45" East, true, 3.57 feet to a stone found at the end thereof, thence running with and along a portion of the twenty-first or North 57° 18' 10" West, 3776.91 foot deed line North 57° 16" 20" West, true, 1359.56 feet to a point, thence running through said property North 24° 16' 20" West, true, 36.69 feet to a point, thence North 08° 02' 09" East, true, 18.69 feet to a point at the southwest end of the forty-five (45) feet wide strip or parcel of land described above in PART I, and running thence with and along the southerly end of said forty-five (45) feet wide right of way forty-five (45) feet wide right of way South 81° 57' 51" East, true, 45.00 feet to the end thereof, thence leaving South 03' 02' 09" West, true, 5.66 feet to a point, thence South 24° 16' 20" East, true, 19.51 feet to a point, thence South 57° 16' 20" East, true, 1330.85 feet to a point of curvature, thence 125.85 feet along the arc of a curve to the right having a radius of 135.00 feet and a long chord bearing and distance of South 30° 34' 00" East, true, 121.34 feet to a point of tangency, thence South 03° 51' 41" East, true, 199.08 feet to a point of curvature, thence ÷.€₽ 185.30 feet along the arc of a curve to the right having a radius of 245.00 feet and a long chord bearing and distance of South 17° 48' 22" West, true, 180.92 feet to a point of tangency, thence
South 39° 28' 25" West, true, 7.97 feet to a point of curvature, thence 81.45 feet along the arc of a curve to the left having a radius of 85.00 feet and a long chord bearing and distance of South 12° D1' 25" West true, 78.37 feet to a point at the northeasterly corner of the aforesaid forty (40) feet wide strip or parcel of land described above in PART II, and running thence with and along the northerly end of said forty (40) feet wide right of way South 74° 34* 25" West, true, 40.00 feet to the point of beginning; containing 84,133.71 square feet or 1.9314 acres. To Have and to Hold said easement and right of way for one or more sanitary / connections sewers and appurtenances thereto, including service above described or mentioned and hereby intended to be granted and conveyed, together with the rights, privileges, appurtenances and advantages thereto belonging or appertaining, unto and to the only proper use, benefit and behoof forever of the said Washington Suburban Sanitary Commission, its successors and assigns.

And the part ies of the first part, for themselves, their heirs and assigns, covenant and agree with the party of the second part, its successors and assigns, as follows: FIRST: that they will obtain the written consent of the Commission before

3421 700 or permit to be erected any building or structure, or before they erect they fill within the above described easement and right of way. SECOND: that the party of the excavate second part, its successors and assigns, shall at all times have right of ingress and egress over said easement and right of way for the purpose of installing, constructing, reconstructing, maintaining, repairing, operating and inspecting the one or more sanitary sewers and appurtenances . thereto, including service connections ------------within said easement and right of way, said ingress and egress to be along the line herein designated and along such other lines as the part ies of the first part may designate. THIRD: that other lines as the part 10s of the first part may designate. THIRD: that they will warrant specially said easement and right of way and will execute such further assurances thereof as may be requisite. **Witness** THEIR HANDS AND SEALS the day and year first hereinabove written. Witness SEAL) (SEAL) Wilson Bowers (SEAL) -----(SEAL) __(SEAL) (SEAL) ____(\$EAL) (SEAL) STATE OF Ma COUNTY OF The Geo 001 On this the day of , 19 💪 , before me, , the undersigned officer, personally appeared CARL E. WILKINSON and EDGAR A. BOWERS, Joint Tenants known to me (or satisfactorily proven) to be the person s whose name s are subscribed to the within executed the same for the purposes therein instrument and acknowledged that they have contained. In Witness Whereof, I hereunto set my hand and official seal. Robert T. Wilson Notary Public My Commission expires 7-1-67 STATE OF COUNTY OF : 55 On this the day of , 19 before me, , the undersigned officer, personally appeared known to me (or satisfactorily proven) to be the person whose name subscribed to the within instrument and acknowledged that executed the same for the purposes therein contained. In Witness Whereof, I hereuntn set my hand and official seal. Notary Public My Commission expires

GEORGE'S COUNTY CIRCUIT COURT (Land Records) WWW 3421, p. 0700, MSA_CE64_3502. Date evenlable 05/16/2006. Printed 11/14/2019.

STATE OF 3421 701 COUNTY OF : ss On this the day of , 19 , before me, the undersigned officer, personally appeared	
COUNTY OF : ss is On this the day of , 19 , before me, , the undersigned officer, personally appeared	
, the undersigned officer, personally appeared	
known to me (or satisfactorily proven) to be the person whose name subscribed to the within instrument and acknowledged that executed the same for the purposes therein contained.	
In Witness Whereof, I hereunto set my hand and official seal.	
Notary Public My Commission expires	
STATE OF	
COUNTY OF	
On this the day of , 19 , before me,	
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Notary Public My Commission expires	
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Title Research Associates

Liber: Folio:	Dise Tre.	Type of Conveyance: Deer
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Being:	То:	Recorded:
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Appendix III: Regulatory Records Documentation

Future Tantallon Square High School ASBURY DR FORT WASHINGTON, MD 20744

Inquiry Number: 5901609.29s December 11, 2019

The EDR Radius Map[™] Report with GeoCheck[®]



6 Armstrong Road, 4th floor Shelton, CT 06484 Toll Free: 800.352.0050 www.edrnet.com

FORM-LBC-GON

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GEOCHECK ADDENDUM

Physical Setting Source Addendum	A-1
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Thank you for your business. Please contact EDR at 1-800-352-0050 with any questions or comments.

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A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-13), the ASTM Standard Practice for Environmental Site Assessments for Forestland or Rural Property (E 2247-16), the ASTM Standard Practice for Limited Environmental Due Diligence: Transaction Screen Process (E 1528-14) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

ASBURY DR FORT WASHINGTON, MD 20744

COORDINATES

Latitude (North):	38.7227940 - 38° 43' 22.05"
Longitude (West):	77.0010610 - 77° 0' 3.81''
Universal Tranverse Mercator:	Zone 18
UTM X (Meters):	326038.3
UTM Y (Meters):	4287709.0
Elevation:	48 ft. above sea level

2013

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map: Version Date:

6051318 PISCATAWAY, MD 2014

5950527 MOUNT VERNON, VA

AERIAL PHOTOGRAPHY IN THIS REPORT

Southeast Map:

Version Date:

Portions of Photo from:	20150814
Source:	USDA

Target Property Address: ASBURY DR FORT WASHINGTON, MD 20744

Click on Map ID to see full detail.

MAP				RELATIVE	DIST (ft 8 mi)
ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	ELEVATION	DIST (ft. & mi.) DIRECTION
1	PEPCO	12105 HICKORY DR	OCPCASES	Higher	336, 0.064, NNW
A2	POTOMAC LANDING ELEM	12500 FORT WASHINGTO	HIST UST	Higher	1315, 0.249, SW
A3	POTOMAC LANDING ELEM	12500 FORT WASHINGTO	UST, ICIS, US AIRS, FINDS, ECHO, Financial	Higher	1315, 0.249, SW
4	LEONARD & VENOLA HIL	104 PEARL LIGHT CIRC	OCPCASES	Higher	1653, 0.313, SW
5	PEPCO	12514 PROXMIRE DR	OCPCASES	Higher	1799, 0.341, SE
6	RICHMOND PROPERTY (P	12500 ASBURY DR	OCPCASES	Higher	1913, 0.362, South
7	O'BANION RESIDENCE	11909 ASBURY DR	OCPCASES	Lower	1977, 0.374, NNE
8	MCSWAIN PROPERTY	511 SHELFER PLACE	OCPCASES	Higher	2001, 0.379, SSE
9	PEPCO	11919 AUTUMNWOOD LAN	OCPCASES	Higher	2107, 0.399, NW
B10	WORKMANS RESIDENCE	900 E TANTALLON DR	OCPCASES	Higher	2245, 0.425, SE
11	SMITH PROPERTY	811 E TANTALLON DR	OCPCASES	Higher	2327, 0.441, SE
B12	TYSON RESIDENCE	906 E TANTALLON DR	OCPCASES	Higher	2422, 0.459, ESE
13	PEPCO	11911 LIVINGSTON RD	OCPCASES	Higher	2484, 0.470, ENE
14	FT WASHINGTON HOSPIT	11711 LIVINGSTON RD	OCPCASES	Higher	2627, 0.498, NE
15	FRONIA WALKER RESIDE	909 E TANTALLON DR	OCPCASES	Higher	2637, 0.499, ESE
16	OLD FORT ROAD SITE	11920 OLD FORT RD	SHWS	Higher	5194, 0.984, ENE

TARGET PROPERTY SEARCH RESULTS

The target property was not listed in any of the databases searched by EDR.

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL	_ National Priority List
	Proposed National Priority List Sites
NPL LIENS	- Federal Superfund Liens

Federal Delisted NPL site list

Delisted NPL_____ National Priority List Deletions

Federal CERCLIS list

FEDERAL FACILITY______ Federal Facility Site Information listing SEMS______ Superfund Enterprise Management System

Federal CERCLIS NFRAP site list

SEMS-ARCHIVE...... Superfund Enterprise Management System Archive

Federal RCRA CORRACTS facilities list

CORRACTS..... Corrective Action Report

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF..... RCRA - Treatment, Storage and Disposal

Federal RCRA generators list

RCRA-LQG	RCRA - Large Quantity Generators
RCRA-SQG	RCRA - Small Quantity Generators
RCRA-VSQG	RCRA - Very Small Quantity Generators (Formerly Conditionally Exempt Small Quantity
	Generators)

Federal institutional controls / engineering controls registries

LUCIS...... Land Use Control Information System

US ENG CONTROLS	Engineering Controls Sites List
US INST CONTROL	Sites with Institutional Controls

Federal ERNS list

ERNS_____ Emergency Response Notification System

State and tribal landfill and/or solid waste disposal site lists

SWF/LF..... Permitted Solid Waste Disposal Facilities

State and tribal leaking storage tank lists

INDIAN LUST..... Leaking Underground Storage Tanks on Indian Land HIST LUST..... Recovery Sites

State and tribal registered storage tank lists

FEMA UST	Underground Storage Tank Listing
	Permitted Aboveground Storage Tanks
	Underground Storage Tanks on Indian Land

State and tribal institutional control / engineering control registries

ENG CONTROLS_____ Engineering Controls Site listing INST CONTROL_____ Voluntary Cleanup Program Applicants/Participants

State and tribal voluntary cleanup sites

State and tribal Brownfields sites

BROWNFIELDS..... Eligible Brownfields Properties

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS_____ A Listing of Brownfields Sites

Local Lists of Landfill / Solid Waste Disposal Sites

SWRCY	Recycling Directory
INDIAN ODI	Report on the Status of Open Dumps on Indian Lands
	Torres Martinez Reservation Illegal Dump Site Locations
ODI	•
IHS OPEN DUMPS	Open Dumps on Indian Land

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL	Delisted National Clandestine Laboratory Register
US CDL	National Clandestine Laboratory Register

Local Land Records

LIENS 2_____ CERCLA Lien Information

Records of Emergency Release Reports

HMIRS	Hazardous Materials Information Reporting Syste	m
	SPILLS 90 data from FirstSearch	

Other Ascertainable Records

RCRA NonGen / NLR	RCRA - Non Generators / No Longer Regulated
	Formerly Used Defense Sites
	Department of Defense Sites
SCRD DRYCLEANERS	State Coalition for Remediation of Drycleaners Listing
	Financial Assurance Information
EPA WATCH LIST	EPA WATCH LIST
2020 COR ACTION	2020 Corrective Action Program List
	_ Toxic Substances Control Act
TRIS	_ Toxic Chemical Release Inventory System
SSTS	Section 7 Tracking Systems
ROD	
RMP	Risk Management Plans
RAATS	RCRA Administrative Action Tracking System
PRP	Potentially Responsible Parties
PADS	PCB Activity Database System
ICIS	Integrated Compliance Information System
FTTS	FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide
	Act)/TSCA (Toxic Substances Control Act)
MLTS	_ Material Licensing Tracking System
COAL ASH DOE	Steam-Electric Plant Operation Data
	Coal Combustion Residues Surface Impoundments List
	. PCB Transformer Registration Database
RADINFO	Radiation Information Database
	- FIFRA/TSCA Tracking System Administrative Case Listing
DOT OPS	
CONSENT	Superfund (CERCLA) Consent Decrees
INDIAN RESERV	Indian Reservations
	Formerly Utilized Sites Remedial Action Program
UMTRA	Uranium Mill Tailings Sites
LEAD SMELTERS	
	Aerometric Information Retrieval System Facility Subsystem
US MINES	. Mines Master Index File
ABANDONED MINES	Abandoned Mines
FINDS	Facility Index System/Facility Registry System
UXO	Unexploded Ordnance Sites
	- Hazardous Waste Compliance Docket Listing
	Enforcement & Compliance History Information
	EPA Fuels Program Registered Listing
	Permit and Facility Information Listing
ASBESTOS	Asbestos Notification Listing
COAL ASH	Coal Ash Disposal Site Listing
	Registered Drycleaning Facilities
Financial Assurance	- Financial Assurance Information Listing

LEAD	Lead Inspection Database
LRP	Land Restoration Program
MANIFEST	_ Hazardous Waste Manifest Information Listing
NPDES	. Wastewater Permit Listing
UIC	Underground Injection Wells Database
MINES MRDS	Mineral Resources Data System

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP	_ EDR Proprietary Manufactured Gas Plants
	EDR Exclusive Historical Auto Stations
EDR Hist Cleaner	. EDR Exclusive Historical Cleaners

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA HWS	Recovered Government Archive State Hazardous Waste Facilities List
RGA LF	Recovered Government Archive Solid Waste Facilities List
RGA LUST	Recovered Government Archive Leaking Underground Storage Tank

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property. Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in *bold italics* are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

STANDARD ENVIRONMENTAL RECORDS

State- and tribal - equivalent CERCLIS

SHWS: The State Hazardous Waste Sites records are the states' equivalent to CERCLIS. These sites may or may not already be listed on the federal CERCLIS list. Priority sites planned for cleanup using state funds (state equivalent of Superfund) are identified along with sites where cleanup will be paid for by potentially responsible parties. The data come from the Department of the Environment's Notice of Potential Hazardous Waste Sites list.

A review of the SHWS list, as provided by EDR, and dated 10/01/2009 has revealed that there is 1 SHWS site within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
OLD FORT ROAD SITE	11920 OLD FORT RD	ENE 1/2 - 1 (0.984 mi.)	16	15

Facility Id: (MD-171) Facility Status: Unidentified

State and tribal leaking storage tank lists

OCPCASES: Cases monitored by the Oil Control Program.

A review of the OCPCASES list, as provided by EDR, and dated 07/12/2019 has revealed that there are 13 OCPCASES sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
PEPCO Date Closed: 11/29/1999 Facility Status: CLOSED Facility Id: 00-0734PG1	12105 HICKORY DR	NNW 0 - 1/8 (0.064 mi.)	1	8
LEONARD & VENOLA HIL Date Closed: 06/16/1992 Facility Status: CLOSED Facility Id: 92-0173PG	104 PEARL LIGHT CIRC	SW 1/4 - 1/2 (0.313 mi.)	4	11
PEPCO Date Closed: 07/14/1998 Facility Status: CLOSED Facility Id: 98-2300PG1	12514 PROXMIRE DR	SE 1/4 - 1/2 (0.341 mi.)	5	11
RICHMOND PROPERTY (P Date Closed: 01/26/2004 Facility Status: CLOSED Facility Id: 04-0795PG1	12500 ASBURY DR	S 1/4 - 1/2 (0.362 mi.)	6	12
MCSWAIN PROPERTY Date Closed: 11/13/1998 Facility Status: CLOSED Facility Id: 96-1466PG1	511 SHELFER PLACE	SSE 1/4 - 1/2 (0.379 mi.)	8	12
PEPCO Date Closed: 02/25/2003 Facility Status: CLOSED Facility Id: 03-1098PG1	11919 AUTUMNWOOD LAN	NW 1/4 - 1/2 (0.399 mi.)	9	13
WORKMANS RESIDENCE Date Closed: 08/14/2018 Facility Status: CLOSED Facility Id: 99-2006PG	900 E TANTALLON DR	SE 1/4 - 1/2 (0.425 mi.)	B10	13
SMITH PROPERTY Date Closed: 07/15/2004 Facility Status: CLOSED Facility Id: 04-1090PG1	811 E TANTALLON DR	SE 1/4 - 1/2 (0.441 mi.)	11	13
TYSON RESIDENCE Date Closed: 10/28/2002 Facility Status: CLOSED Facility Id: 02-1380PG1	906 E TANTALLON DR	ESE 1/4 - 1/2 (0.459 mi.)	B12	14
PEPCO Date Closed: 11/13/1998	11911 LIVINGSTON RD	ENE 1/4 - 1/2 (0.470 mi.)	13	14

Facility Status: CLOSED Facility Id: 99-0635PG1				
FT WASHINGTON HOSPIT Date Closed: 07/08/1999 Facility Status: CLOSED Facility Id: 99-0634PG1	11711 LIVINGSTON RD	NE 1/4 - 1/2 (0.498 mi.)	14	14
FRONIA WALKER RESIDE Date Closed: 03/26/2019 Facility Status: CLOSED Facility Id: 19-0161PG	909 E TANTALLON DR	ESE 1/4 - 1/2 (0.499 mi.)	15	15
Lower Elevation	Address	Direction / Distance	Map ID	Page
O'BANION RESIDENCE Date Closed: 10/16/2001 Facility Status: CLOSED Facility Id: 02-0218PG1	11909 ASBURY DR	NNE 1/4 - 1/2 (0.374 mi.)	7	12

State and tribal registered storage tank lists

UST: The Underground Storage Tank database contains registered USTs. USTs are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA). The data come from the Department of the Environment's Listing of Underground Storage Tanks Reported in Maryland.

A review of the UST list, as provided by EDR, and dated 07/12/2019 has revealed that there is 1 UST site within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
POTOMAC LANDING ELEM Facility Id: 18878 Tank Status: Currently In Use	12500 FORT WASHINGTO	SW 1/8 - 1/4 (0.249 mi.)	A3	8

ADDITIONAL ENVIRONMENTAL RECORDS

Local Lists of Registered Storage Tanks

HIST UST: Historical UST Registered Database.

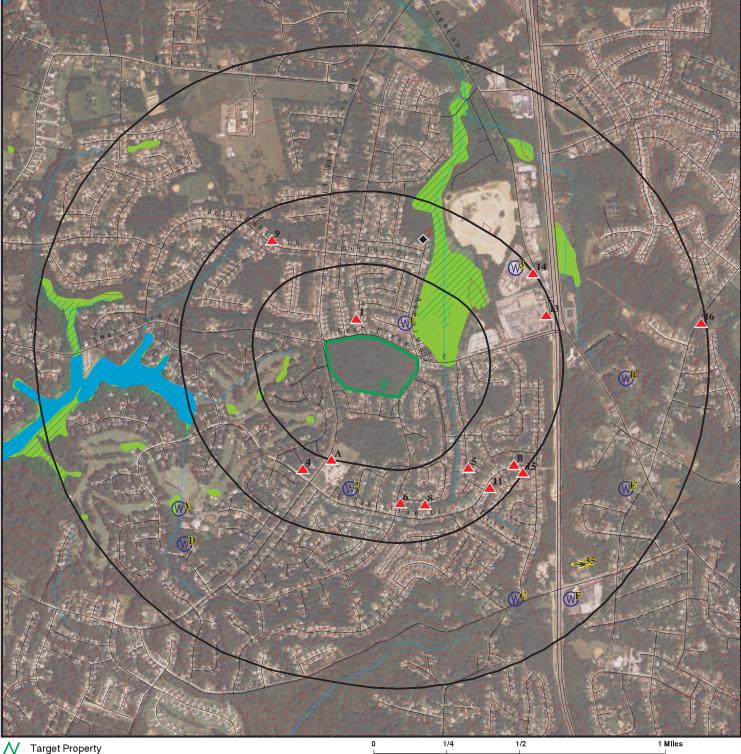
A review of the HIST UST list, as provided by EDR, and dated 11/21/1996 has revealed that there is 1 HIST UST site within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
POTOMAC LANDING ELEM Facility Id: 6013955 Tank Status: CURRENTL	12500 FORT WASHINGTO	SW 1/8 - 1/4 (0.249 mi.)	A2	8

Due to poor or inadequate address information, the following sites were not mapped. Count: 4 records.

Site Name	Database(s)
PEPCO - TRANSFORMER SPILL	OCPCASES
ETW RELEASE	OCPCASES
OLD FORTE VILLAGE SHOPPING CTR	OCPCASES
LACKABONY	OCPCASES

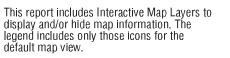
OVERVIEW MAP - 5901609.29S



- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- National Priority List Sites
- Dept. Defense Sites



Indian Reservations BIA Power transmission lines Special Flood Hazard Area (1%) 0.2% Annual Chance Flood Hazard National Wetland Inventory



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SITE NAME: Future Tantallon Square High School ASBURY DR FORT WASHINGTON MD 20744 38.722794 / 77.001061 ADDRESS: LAT/LONG:

CLIENT: CONTACT: ECS Mid Atlantic, LLC Andrew Geraci INQUIRY #: 5901609.29s DATE: December 11, 2019 1:16 pm Copyright © 2019 EDR, Inc. © 2015 TomTom Rel. 2015.

DETAIL MAP - 5901609.29S



Target Property N

- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- Sensitive Receptors 2
- National Priority List Sites
- Dept. Defense Sites

Indian Reservations BIA Special Flood Hazard Area (1%) 0.2% Annual Chance Flood Hazard National Wetland Inventory



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This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME:	Future Tantallon Square High School
ADDRESS:	ASBURY DR
	FORT WASHINGTON MD 20744
LAT/LONG:	38.722794 / 77.001061

CLIENT: CONTACT: ECS Mid Atlantic, LLC Andrew Geraci INQUIRY #: 5901609.29s DATE: December 11, 2019 1:19 pm Copyright © 2019 EDR, Inc. © 2015 TomTom Rel. 2015.

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
STANDARD ENVIRONMEN	TAL RECORDS							
Federal NPL site list								
NPL Proposed NPL NPL LIENS	1.000 1.000 1.000		0 0 0	0 0 0	0 0 0	0 0 0	NR NR NR	0 0 0
Federal Delisted NPL si	te list							
Delisted NPL	1.000		0	0	0	0	NR	0
Federal CERCLIS list								
FEDERAL FACILITY SEMS	0.500 0.500		0 0	0 0	0 0	NR NR	NR NR	0 0
Federal CERCLIS NFRA	P site list							
SEMS-ARCHIVE	0.500		0	0	0	NR	NR	0
Federal RCRA CORRAC	TS facilities li	st						
CORRACTS	1.000		0	0	0	0	NR	0
Federal RCRA non-COR	RACTS TSD f	acilities list						
RCRA-TSDF	0.500		0	0	0	NR	NR	0
Federal RCRA generato	rs list							
RCRA-LQG RCRA-SQG RCRA-VSQG	0.250 0.250 0.250		0 0 0	0 0 0	NR NR NR	NR NR NR	NR NR NR	0 0 0
Federal institutional con engineering controls re								
LUCIS US ENG CONTROLS US INST CONTROL	0.500 0.500 0.500		0 0 0	0 0 0	0 0 0	NR NR NR	NR NR NR	0 0 0
Federal ERNS list								
ERNS	TP		NR	NR	NR	NR	NR	0
State- and tribal - equiva	alent CERCLIS	5						
SHWS	1.000		0	0	0	1	NR	1
State and tribal landfill a solid waste disposal sit								
SWF/LF	0.500		0	0	0	NR	NR	0
State and tribal leaking	storage tank l	ists						
INDIAN LUST OCPCASES HIST LUST	0.500 0.500 0.500		0 1 0	0 0 0	0 12 0	NR NR NR	NR NR NR	0 13 0
State and tribal register	ed storage tar	nk lists						
FEMA UST	0.250		0	0	NR	NR	NR	0

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
UST AST INDIAN UST	0.250 0.250 0.250		0 0 0	1 0 0	NR NR NR	NR NR NR	NR NR NR	1 0 0
State and tribal institution control / engineering control / engin		es						
ENG CONTROLS INST CONTROL	0.500 0.500		0 0	0 0	0 0	NR NR	NR NR	0 0
State and tribal voluntar	y cleanup sit	es						
INDIAN VCP VCP	0.500 0.500		0 0	0 0	0 0	NR NR	NR NR	0 0
State and tribal Brownfie	elds sites							
BROWNFIELDS	0.500		0	0	0	NR	NR	0
ADDITIONAL ENVIRONMEN	NTAL RECORD	s						
Local Brownfield lists								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
Local Lists of Landfill / S Waste Disposal Sites	Solid							
SWRCY INDIAN ODI DEBRIS REGION 9 ODI IHS OPEN DUMPS	0.500 0.500 0.500 0.500 0.500		0 0 0 0 0	0 0 0 0	0 0 0 0	NR NR NR NR NR	NR NR NR NR NR	0 0 0 0
Local Lists of Hazardous Contaminated Sites	s waste /							
US HIST CDL US CDL	TP TP		NR NR	NR NR	NR NR	NR NR	NR NR	0 0
Local Lists of Registered	d Storage Tai	nks						
HIST UST	0.250		0	1	NR	NR	NR	1
Local Land Records								
LIENS 2	TP		NR	NR	NR	NR	NR	0
Records of Emergency I	Release Repo	orts						
HMIRS SPILLS 90	TP TP		NR NR	NR NR	NR NR	NR NR	NR NR	0 0
Other Ascertainable Rec	cords							
RCRA NonGen / NLR FUDS DOD SCRD DRYCLEANERS US FIN ASSUR	0.250 1.000 1.000 0.500 TP		0 0 0 NR	0 0 0 NR	NR 0 0 0 NR	NR 0 NR NR	NR NR NR NR NR	0 0 0 0 0

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
EPA WATCH LIST	TP		NR	NR	NR	NR	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
TSCA	TP		NR	NR	NR	NR	NR	0
TRIS	TP		NR	NR	NR	NR	NR	0
SSTS	TP		NR	NR	NR	NR	NR	ŏ
ROD	1.000		0	0	0	0	NR	Õ
RMP	TP		NR	NR	NR	NR	NR	Õ
RAATS	TP		NR	NR	NR	NR	NR	Õ
PRP	TP		NR	NR	NR	NR	NR	0
PADS	TP		NR	NR	NR	NR	NR	0
ICIS	TP		NR	NR	NR	NR	NR	0
FTTS	TP		NR	NR	NR	NR	NR	0
MLTS	TP		NR	NR	NR	NR	NR	0
COAL ASH DOE	TP		NR	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
PCB TRANSFORMER	TP		NR	NR	NR	NR	NR	0
RADINFO	TP		NR	NR	NR	NR	NR	0
HIST FTTS	TP		NR	NR	NR	NR	NR	0
DOT OPS	TP		NR	NR	NR	NR	NR	0
CONSENT	1.000		0	0	0	0	NR	0
INDIAN RESERV	1.000		0	0	0	0	NR	0
FUSRAP	1.000		0 0	0	0	0 NR	NR NR	0
UMTRA LEAD SMELTERS	0.500 TP		NR	0 NR	0 NR	NR	NR	0 0
US AIRS	TP		NR	NR	NR	NR	NR	0
US MINES	0.250		0	0	NR	NR	NR	0
ABANDONED MINES	0.250		0	0	NR	NR	NR	0
FINDS	TP		NR	NR	NR	NR	NR	0
UXO	1.000		0	0	0	0	NR	ŏ
DOCKET HWC	TP		NR	NR	NR	NR	NR	Ő
ECHO	TP		NR	NR	NR	NR	NR	0
FUELS PROGRAM	0.250		0	0	NR	NR	NR	0
AIRS	TP		NR	NR	NR	NR	NR	0
ASBESTOS	TP		NR	NR	NR	NR	NR	0
COAL ASH	0.500		0	0	0	NR	NR	0
DRYCLEANERS	0.250		0	0	NR	NR	NR	0
Financial Assurance	TP		NR	NR	NR	NR	NR	0
LEAD	TP		NR	NR	NR	NR	NR	0
LRP	0.500		0	0	0	NR	NR	0
MANIFEST	0.250		0	0	NR	NR	NR	0
NPDES			NR	NR	NR	NR	NR	0
UIC MINES MRDS	TP TP		NR	NR	NR	NR	NR	0
MINES MRDS	IP		NR	NR	NR	NR	NR	0
EDR HIGH RISK HISTORIC	AL RECORDS							
EDR Exclusive Records								
EDR MGP	1.000		0	0	0	0	NR	0
EDR Hist Auto	0.125		0	NR	NR	NR	NR	0
EDR Hist Cleaner	0.125		0	NR	NR	NR	NR	0

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted	
EDR RECOVERED GOVERNMENT ARCHIVES									
Exclusive Recovered	Exclusive Recovered Govt. Archives								
RGA HWS RGA LF RGA LUST	TP TP TP		NR NR NR	NR NR NR	NR NR NR	NR NR NR	NR NR NR	0 0 0	
- Totals		0	1	2	12	1	0	16	

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

Map ID Direction		MAP FINDINGS		
Distance	Site		Database(s)	EDR ID Number EPA ID Number
1 NNW < 1/8 0.064 mi. 336 ft.	PEPCO 12105 HICKORY DR FT WASHINGTON, MD 2074	4	OCPCASES	S113766480 N/A
Relative: Higher Actual: 48 ft.	Address: City,State,Zip: Facility ID: Facility Status/Code: Date Open: Date Closed: Release: Cleanup:	PEPCO 12105 HICKORY DR FT WASHINGTON, MD 20744 00-0734PG1 CLOSED/Dumping 10/20/1999 11/29/1999 YES YES Not reported		
A2 SW 1/8-1/4 0.249 mi. 1315 ft.	POTOMAC LANDING ELEME 12500 FORT WASHINGTON FORT WASHINGTON, MD 20	RD	HIST UST	1001702030 N/A
Relative:	Site 1 of 2 in cluster A Historical UST:			
Higher	Facility ID: 60139	55		
Actual: 50 ft.	Tank ID:001Age:19Capacity:10000Tank Status:CurrerProduct:Heatin	itly in use		
A3 SW 1/8-1/4 0.249 mi.	POTOMAC LANDING ELEME 12500 FORT WASHINGTON FORT WASHINGTON, MD 20	ROAD	UST ICIS US AIRS FINDS	1004523332 N/A
1315 ft.	Site 2 of 2 in cluster A	-	ECHO	
Relative: Higher Actual: 50 ft.	UST: Facility Id: Oper Name: Form Name: Form Title: Form Date: Owner Id:	F 18878 Not reported Robert J. Kuntz Director of Facilities Operations 06/26/1990 2529	inancial Assurance	
	Owner: Owner Name: Owner Address: Owner City: Owner State: Owner Zip: Owner Phone: Owner Contact:	Prince George's County Public Schools 13300 Old Marlboro Pike Facilities Admn. Building, I Upper Marlboro MD 20772 (301) 952-6559 Rick Lephew/Alex Baylor	Room 13	
	Tanks:			

Tanks: Tank ID:

1

Database(s) E

EDR ID Number EPA ID Number

Substance Description: Tank Compartment: Compartment Compartment: Date Intalled: Tank Material Desc: Pipe Material Desc: CIS: Enforcement Action ID: FRS ID: Action Name: Facility Name: Facility Address: Enforcement Action Type: Facility County: Program System Acronym: Enforcement Action Forum Desc	06/01/1977 Asphalt Coated or Bare Steel Bare or Galvanized Steel 03-2014-0075 110001789681 PRINCE GEORGES COUNTY SCHOOL DISTRICT (194 SCHOOLS) POTOMAC LANDING ELEMENTARY SCHOOL 12500 FORT WASHINGTON ROAD FORT WASHINGTON, MD 20744 TSCA 207 AO For Asbestos/Schools (LEA) Not reported ICIS	
Tank Compartment: Compartment Compartment: Date Intalled: Tank Material Desc: Pipe Material Desc: CIS: Enforcement Action ID: FRS ID: Action Name: Facility Name: Facility Address: Enforcement Action Type: Facility County: Program System Acronym: Enforcement Action Forum Desc	False A 06/01/1977 Asphalt Coated or Bare Steel Bare or Galvanized Steel 03-2014-0075 110001789681 PRINCE GEORGES COUNTY SCHOOL DISTRICT (194 SCHOOLS) POTOMAC LANDING ELEMENTARY SCHOOL 12500 FORT WASHINGTON ROAD FORT WASHINGTON, MD 20744 TSCA 207 AO For Asbestos/Schools (LEA) Not reported ICIS SSC: Administrative - Formal 207 Not reported	
Tank Compartment: Compartment Compartment: Date Intalled: Tank Material Desc: Pipe Material Desc: CIS: Enforcement Action ID: FRS ID: Action Name: Facility Name: Facility Address: Enforcement Action Type: Facility County: Program System Acronym: Enforcement Action Forum Desc	False A 06/01/1977 Asphalt Coated or Bare Steel Bare or Galvanized Steel 03-2014-0075 110001789681 PRINCE GEORGES COUNTY SCHOOL DISTRICT (194 SCHOOLS) POTOMAC LANDING ELEMENTARY SCHOOL 12500 FORT WASHINGTON ROAD FORT WASHINGTON, MD 20744 TSCA 207 AO For Asbestos/Schools (LEA) Not reported ICIS SSC: Administrative - Formal 207 Not reported	
Compartment Compartment: Date Intalled: Tank Material Desc: Pipe Material Desc: CIS: Enforcement Action ID: FRS ID: Action Name: Facility Name: Facility Address: Enforcement Action Type: Facility County: Program System Acronym: Enforcement Action Forum Desc	06/01/1977 Asphalt Coated or Bare Steel Bare or Galvanized Steel 03-2014-0075 110001789681 PRINCE GEORGES COUNTY SCHOOL DISTRICT (194 SCHOOLS) POTOMAC LANDING ELEMENTARY SCHOOL 12500 FORT WASHINGTON ROAD FORT WASHINGTON, MD 20744 TSCA 207 AO For Asbestos/Schools (LEA) Not reported ICIS esc: Administrative - Formal 207 Not reported	
Date Intalled: Tank Material Desc: Pipe Material Desc: CIS: Enforcement Action ID: FRS ID: Action Name: Facility Name: Facility Address: Enforcement Action Type: Facility County: Program System Acronym: Enforcement Action Forum Desc	06/01/1977 Asphalt Coated or Bare Steel Bare or Galvanized Steel 03-2014-0075 110001789681 PRINCE GEORGES COUNTY SCHOOL DISTRICT (194 SCHOOLS) POTOMAC LANDING ELEMENTARY SCHOOL 12500 FORT WASHINGTON ROAD FORT WASHINGTON, MD 20744 TSCA 207 AO For Asbestos/Schools (LEA) Not reported ICIS esc: Administrative - Formal 207 Not reported	
Pipe Material Desc: CIS: Enforcement Action ID: FRS ID: Action Name: Facility Name: Facility Address: Enforcement Action Type: Facility County: Program System Acronym: Enforcement Action Forum Des	Bare or Galvanized Steel 03-2014-0075 110001789681 PRINCE GEORGES COUNTY SCHOOL DISTRICT (194 SCHOOLS) POTOMAC LANDING ELEMENTARY SCHOOL 12500 FORT WASHINGTON ROAD FORT WASHINGTON, MD 20744 TSCA 207 AO For Asbestos/Schools (LEA) Not reported ICIS Sesc: Administrative - Formal 207 Not reported	
CIS: Enforcement Action ID: FRS ID: Action Name: Facility Name: Facility Address: Enforcement Action Type: Facility County: Program System Acronym: Enforcement Action Forum Des	03-2014-0075 110001789681 PRINCE GEORGES COUNTY SCHOOL DISTRICT (194 SCHOOLS) POTOMAC LANDING ELEMENTARY SCHOOL 12500 FORT WASHINGTON ROAD FORT WASHINGTON, MD 20744 TSCA 207 AO For Asbestos/Schools (LEA) Not reported ICIS esc: Administrative - Formal 207 Not reported	
CIS: Enforcement Action ID: FRS ID: Action Name: Facility Name: Facility Address: Enforcement Action Type: Facility County: Program System Acronym: Enforcement Action Forum Des	110001789681 PRINCE GEORGES COUNTY SCHOOL DISTRICT (194 SCHOOLS) POTOMAC LANDING ELEMENTARY SCHOOL 12500 FORT WASHINGTON ROAD FORT WASHINGTON, MD 20744 TSCA 207 AO For Asbestos/Schools (LEA) Not reported ICIS esc: Administrative - Formal 207 Not reported	
Enforcement Action ID: FRS ID: Action Name: Facility Name: Facility Address: Enforcement Action Type: Facility County: Program System Acronym: Enforcement Action Forum Des	110001789681 PRINCE GEORGES COUNTY SCHOOL DISTRICT (194 SCHOOLS) POTOMAC LANDING ELEMENTARY SCHOOL 12500 FORT WASHINGTON ROAD FORT WASHINGTON, MD 20744 TSCA 207 AO For Asbestos/Schools (LEA) Not reported ICIS esc: Administrative - Formal 207 Not reported	
FRS ID: Action Name: Facility Name: Facility Address: Enforcement Action Type: Facility County: Program System Acronym: Enforcement Action Forum Des	110001789681 PRINCE GEORGES COUNTY SCHOOL DISTRICT (194 SCHOOLS) POTOMAC LANDING ELEMENTARY SCHOOL 12500 FORT WASHINGTON ROAD FORT WASHINGTON, MD 20744 TSCA 207 AO For Asbestos/Schools (LEA) Not reported ICIS esc: Administrative - Formal 207 Not reported	
Action Name: Facility Name: Facility Address: Enforcement Action Type: Facility County: Program System Acronym: Enforcement Action Forum Des	PRINCE GEORGES COUNTY SCHOOL DISTRICT (194 SCHOOLS) POTOMAC LANDING ELEMENTARY SCHOOL 12500 FORT WASHINGTON ROAD FORT WASHINGTON, MD 20744 TSCA 207 AO For Asbestos/Schools (LEA) Not reported ICIS esc: Administrative - Formal 207 Not reported	
Facility Name: Facility Address: Enforcement Action Type: Facility County: Program System Acronym: Enforcement Action Forum Des	POTOMAC LANDING ELEMENTARY SCHOOL 12500 FORT WASHINGTON ROAD FORT WASHINGTON, MD 20744 TSCA 207 AO For Asbestos/Schools (LEA) Not reported ICIS esc: Administrative - Formal 207 Not reported	
Facility Address: Enforcement Action Type: Facility County: Program System Acronym: Enforcement Action Forum Des	12500 FORT WASHINGTON ROAD FORT WASHINGTON, MD 20744 TSCA 207 AO For Asbestos/Schools (LEA) Not reported ICIS esc: Administrative - Formal 207 Not reported	
Facility Address: Enforcement Action Type: Facility County: Program System Acronym: Enforcement Action Forum Des	12500 FORT WASHINGTON ROAD FORT WASHINGTON, MD 20744 TSCA 207 AO For Asbestos/Schools (LEA) Not reported ICIS esc: Administrative - Formal 207 Not reported	
Enforcement Action Type: Facility County: Program System Acronym: Enforcement Action Forum Des	FORT WASHINGTON, MD 20744 TSCA 207 AO For Asbestos/Schools (LEA) Not reported ICIS esc: Administrative - Formal 207 Not reported	
Facility County: Program System Acronym: Enforcement Action Forum Des	TSCA 207 AO For Asbestos/Schools (LEA) Not reported ICIS esc: Administrative - Formal 207 Not reported	
Facility County: Program System Acronym: Enforcement Action Forum Des	Not reported ICIS esc: Administrative - Formal 207 Not reported	
Program System Acronym: Enforcement Action Forum Des	ICIS esc: Administrative - Formal 207 Not reported	
Enforcement Action Forum Des	esc: Administrative - Formal 207 Not reported	
	207 Not reported	
	Not reported	
EA Type Code:		
Facility SIC Code:	Not reported	
Federal Facility ID:		
Latitude in Decimal Degrees:	38.719192	
Longitude in Decimal Degrees:	s: -77.004637	
Permit Type Desc:	Not reported	
Program System Acronym:	2200018172	
Facility NAICS Code:	Not reported	
Tribal Land Code:	Not reported	
Facility Name:	POTOMAC LANDING ELEMENTARY SCHOOL	
Address:	12500 FORT WASHINGTON ROAD	
Tribal Indicator:	N	
	No	
Fed Facility:		
NAIC Code:	Not reported	
SIC Code:	Not reported	
Facility Name:	POTOMAC LANDING ELEMENTARY SCHOOL	
Address:	12500 FORT WASHINGTON ROAD	
Tribal Indicator:	Ν	
Fed Facility:	No	
NAIC Code:	Not reported	
SIC Code:	Not reported	
Facility Name:	POTOMAC LANDING ELEMENTARY SCHOOL	
Address:	12500 FORT WASHINGTON ROAD	
Tribal Indicator:	Ν	
Fed Facility:	No	
NAIC Code:	Not reported	
SIC Code:	Not reported	
JS AIRS MINOR:		
Envid:	1004523332	
Region Code:	03	

Database(s)

EDR ID Number EPA ID Number

1004523332

POTOMAC LANDING ELEMENTARY SCHOOL (Continued)

Programmatic ID:	AIR MD000002403300958
Facility Registry ID:	110001789681
D and B Number:	Not reported
Primary SIC Code:	8211
NAICS Code:	611110
Default Air Classification Code:	MIN
Facility Type of Ownership Code:	CNG
Air CMS Category Code:	Not reported
HPV Status:	Not reported

FINDS:

Registry ID:

110001789681

Environmental Interest/Information System

AFS (Aerometric Information Retrieval System (AIRS) Facility Subsystem) replaces the former Compliance Data System (CDS), the National Emission Data System (NEDS), and the Storage and Retrieval of Aerometric Data (SAROAD). AIRS is the national repository for information concerning airborne pollution in the United States. AFS is used to track emissions and compliance data from industrial plants. AFS data are utilized by states to prepare State Implementation Plans to comply with regulatory programs and by EPA as an input for the estimation of total national emissions. AFS is undergoing a major redesign to support facility operating permits required under Title V of the Clean Air Act.

MD-PEMIS (Maryland - Permanent (Air) Emission) database houses data related to Air Emissions. Also known to the EPA as National Emissions Inventory (NEI).

STATE MASTER

AIR MINOR

ICIS (Integrated Compliance Information System) is the Integrated Compliance Information System and provides a database that, when complete, will contain integrated Enforcement and Compliance information across most of EPA's programs. The vision for ICIS is to replace EPA's independent databases that contain Enforcement data with a single repository for that information. Currently, ICIS contains all Federal Administrative and Judicial enforcement actions. This information is maintained in ICIS by EPA in the Regional offices and it Headquarters. A future release of ICIS will replace the Permit Compliance System (PCS) which supports the NPDES and will integrate that information with Federal actions already in the system. ICIS also has the capability to track other activities occurring in the Region that support Compliance and Enforcement programs. These include; Incident Tracking, Compliance Assistance, and Compliance Monitoring.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO: Envid:

1004523332

EDR ID Number Database(s) EPA ID Number

	POTOMAC LANDING ELEN	IENTARY SCHOOL (Continued)		1004523332
	Registry ID: DFR URL:	110001789681 http://echo.epa.gov/detailed-facility-report?fid=11000178	39681	
	MD Financial Assurance 2 Name: Address: City,State,Zip: Region: Facility ID: Self Insured: Insurance: Risk Retention Group: Guarantee: Surety Bonds: Letter of Credit: State Fund: Other Finance: Finacnce Comments: FR Not Listed:	2: POTOMAC LANDING ELEMENTARY SCHOOL 12500 FORT WASHINGTON ROAD FORT WASHINGTON, MD 20744 2 18878 False False False False False False False False False False False False False False False False False False False False False False False False False False False False False False False False False False False False False False False False False False False False False False False False False False False False False False False False False False False False False False False False False False False False False False False False False False False False False False False False False False False False False False False		
4 SW 1/4-1/2 0.313 mi. 1653 ft.	LEONARD & VENOLA HILL 104 PEARL LIGHT CIRCLE FT WASHINGTON, MD 207		CASES	S104607482 N/A
Relative: Higher Actual: 49 ft.	OCPCASES: Name: Address: City,State,Zip: Facility ID: Facility Status/Code: Date Open: Date Closed: Release: Cleanup: Registration Number:	LEONARD & VENOLA HILL 104 PEARL LIGHT CIRCLE FT WASHINGTON, MD 20744 92-0173PG CLOSED/ 07/23/1991 06/16/1992 Not reported Not reported Not reported		
5 SE 1/4-1/2 0.341 mi. 1799 ft.	PEPCO 12514 PROXMIRE DR FT WASHINGTON, MD 207		CASES	S104594703 N/A
Relative: Higher Actual: 75 ft.	OCPCASES: Name: Address: City,State,Zip: Facility ID: Facility Status/Code: Date Open: Date Closed: Release: Cleanup: Registration Number:	PEPCO 12514 PROXMIRE DR FT WASHINGTON, MD 20744 98-2300PG1 CLOSED/Other (Specify) 05/13/1998 07/14/1998 YES YES Not reported		

Map ID		MAP FINDINGS		
Direction Distance		1		
Elevation	Site		Database(s)	EDR ID Number EPA ID Number
6 South 1/4-1/2	RICHMOND PROPERTY (P 12500 ASBURY DR FT WASHINGTON, MD 207		OCPCASES	S106244509 N/A
0.362 mi. 1913 ft.				
Relative:	OCPCASES:			
Higher	Name:	RICHMOND PROPERTY (PRICE OIL SPILL)		
Actual:	Address:	12500 ASBURY DR		
64 ft.	City,State,Zip:	FT WASHINGTON, MD 20744		
	Facility ID:	04-0795PG1		
	Facility Status/Code: Date Open:	CLOSED/Transfer Accident - Residential Heating Oil 10/28/2003		
	Date Closed:	01/26/2004		
	Release:	YES		
	Cleanup:	YES		
	Registration Number:	Not reported		
7	O'BANION RESIDENCE		OCPCASES	S113767006
NNE	11909 ASBURY DR			N/A
1/4-1/2	FT WASHINGTON, MD 207	744		
0.374 mi. 1977 ft.				
Relative:	OCPCASES:			
Lower	Name: Address:	O'BANION RESIDENCE 11909 ASBURY DR		
Actual: 43 ft.	City,State,Zip:	FT WASHINGTON, MD 20744		
4511.	Facility ID:	02-0218PG1		
	Facility Status/Code:	CLOSED/Other - Residential Heating Oil		
	Date Open:	08/10/2001		
	Date Closed:	10/16/2001		
	Release:	NO NO		
	Cleanup: Registration Number:	No reported		
	Registration Number.	Notreported		
8	MCSWAIN PROPERTY		OCPCASES	S104598976
SSE	511 SHELFER PLACE			N/A
1/4-1/2	FT WASHINGTON, MD 207	744		
0.379 mi.				
2001 ft.				
Relative: Higher	OCPCASES: Name:	MCSWAIN PROPERTY		
-	Address:	511 SHELFER PLACE		
Actual: 68 ft.	City,State,Zip:	FT WASHINGTON, MD 20744		
00 11.	Facility ID:	96-1466PG1		
	Facility Status/Code:	CLOSED/Soil Contamination - Residential Heating Oil		
	Date Open:	01/31/1996		
	Date Closed:	11/13/1998		
	Release:	YES		
	Cleanup:	YES		
	Registration Number:	Not reported		

Map ID		MAP FINDINGS		
Direction Distance Elevation	Site		Database(s)	EDR ID Number EPA ID Number
9 NW 1/4-1/2 0.399 mi. 2107 ft.	PEPCO 11919 AUTUMNWOOD LAN FT WASHINGTON, MD 207		OCPCASES	S113767426 N/A
Relative: Higher Actual: 64 ft.	OCPCASES: Name: Address: City,State,Zip: Facility ID: Facility Status/Code: Date Open: Date Closed: Release: Cleanup: Registration Number:	PEPCO 11919 AUTUMNWOOD LANE FT WASHINGTON, MD 20744 03-1098PG1 CLOSED/Other (Specify) 01/29/2003 02/25/2003 YES YES Not reported		
B10 SE 1/4-1/2 0.425 mi. 2245 ft.	WORKMANS RESIDENCE 900 E TANTALLON DR FT WASHINGTON, MD 207 Site 1 of 2 in cluster B	44	OCPCASES	S113769967 N/A
Relative: Higher Actual: 88 ft.	OCPCASES: Name: Address: City,State,Zip: Facility ID: Facility Status/Code: Date Open: Date Closed: Release: Cleanup: Registration Number:	WORKMANS RESIDENCE 900 E TANTALLON DR FT WASHINGTON, MD 20744 99-2006PG CLOSED/Tank Closure - Residential Heating Oil 02/10/1999 08/14/2018 YES Not reported Not reported		
11 SE 1/4-1/2 0.441 mi. 2327 ft.	SMITH PROPERTY 811 E TANTALLON DR FT WASHINGTON, MD 207	44	OCPCASES	S113767798 N/A
Relative: Higher Actual: 105 ft.	OCPCASES: Name: Address: City,State,Zip: Facility ID: Facility Status/Code: Date Open: Date Closed: Release: Cleanup: Registration Number:	SMITH PROPERTY 811 E TANTALLON DR FT WASHINGTON, MD 20744 04-1090PG1 CLOSED/Tank Closure - Residential Heating Oil 12/16/2003 07/15/2004 YES YES Not reported		

Map ID		MAP FINDINGS		
Direction Distance Elevation	Site	۹	Database(s)	EDR ID Number EPA ID Number
B12 ESE 1/4-1/2 0.459 mi.	TYSON RESIDENCE 906 E TANTALLON DR FT WASHINGTON, MD 207	'44	OCPCASES	S113767198 N/A
2422 ft.	Site 2 of 2 in cluster B			
Relative: Higher Actual: 92 ft.	OCPCASES: Name: Address: City,State,Zip: Facility ID: Facility ID: Facility Status/Code: Date Open: Date Closed: Release: Cleanup: Registration Number:	TYSON RESIDENCE 906 E TANTALLON DR FT WASHINGTON, MD 20744 02-1380PG1 CLOSED/Aboveground Tank Leak - Emergency 04/29/2002 10/28/2002 YES YES Not reported		
13 ENE 1/4-1/2 0.470 mi. 2484 ft.	PEPCO 11911 LIVINGSTON RD FT WASHINGTON, MD 20744		OCPCASES	S113769679 N/A
Relative: Higher Actual: 52 ft.	OCPCASES: Name: Address: City,State,Zip: Facility ID: Facility Status/Code: Date Open: Date Closed: Release: Cleanup: Registration Number:	PEPCO 11911 LIVINGSTON RD FT WASHINGTON, MD 20744 99-0635PG1 CLOSED/Vehicle Accident 09/11/1998 11/13/1998 YES YES Not reported		
14 NE 1/4-1/2 0.498 mi. 2627 ft.	FT WASHINGTON HOSPITAL 11711 LIVINGSTON RD FT WASHINGTON, MD 20744		OCPCASES	S113769678 N/A
Relative: Higher Actual: 52 ft.	OCPCASES: Name: Address: City,State,Zip: Facility ID: Facility Status/Code: Date Open: Date Closed: Release: Cleanup:	FT WASHINGTON HOSPITAL 11711 LIVINGSTON RD FT WASHINGTON, MD 20744 99-0634PG1 CLOSED/Tank Closure - Motor/Lube Oil 09/11/1998 07/08/1999 NO NO		

Registration Number: 4647

Map ID Direction Distance Elevation	Site	MAP FINDINGS	Database(s)	EDR ID Number EPA ID Number
15 ESE 1/4-1/2 0.499 mi. 2637 ft.	FRONIA WALKER RESIDENCE 909 E TANTALLON DR FT WASHINGTON, MD 20744		OCPCASES	S122982720 N/A
Relative: Higher	OCPCASES: Name:	FRONIA WALKER RESIDENCE		
Actual: 106 ft.	Address: City,State,Zip:	909 E TANTALLON DR FT WASHINGTON, MD 20744		

CLOSED/Tank Closure - Residential Heating Oil

16 ENE 1/2-1 0.984 mi. 5194 ft.	OLD FORT ROAD S 11920 OLD FORT F FORT WASHINGTO	RD
Relative: Higher	SHWS: Facility ID:	(MD-171)

Facility ID:

Date Closed:

Release:

Cleanup:

Facility Status/Code: Date Open:

Registration Number:

19-0161PG

09/14/2018

03/26/2019

Not reported

YES YES

	••.	
Higher	Facility ID:	(MD-171)
Actual:	Alias Name:	NONE
200 ft.	Status:	Unidentified
	Facility Type:	State Master List

SHWS 1000114342 N/A

Count: 4 records.

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
FT WASHINGTON FT WASHINGTON FT WASHINGTON PISCATAWAY	S113767445 S113768475	PEPCO - TRANSFORMER SPILL ETW RELEASE OLD FORTE VILLAGE SHOPPING CTR LACKABONY	AREA OF 12206 PROXMIRE DR 7900 INDIAN HEAD HWY & KIRBY H 210 LIVINGSTON RD/SWAMP CREEK LIVINGSTON & MIDINAH RDS	20744 20744	OCPCASES OCPCASES OCPCASES OCPCASES

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Number of Days to Update: Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 10/25/2019 Date Data Arrived at EDR: 11/07/2019 Date Made Active in Reports: 11/20/2019 Number of Days to Update: 13 Source: EPA Telephone: N/A Last EDR Contact: 12/10/2019 Next Scheduled EDR Contact: 01/13/2020 Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC) Telephone: 202-564-7333

EPA Region 1 Telephone 617-918-1143

EPA Region 3 Telephone 215-814-5418

EPA Region 4 Telephone 404-562-8033

EPA Region 5 Telephone 312-886-6686

EPA Region 10 Telephone 206-553-8665 EPA Region 6 Telephone: 214-655-6659

EPA Region 7 Telephone: 913-551-7247

EPA Region 8 Telephone: 303-312-6774

EPA Region 9 Telephone: 415-947-4246

Proposed NPL: Proposed National Priority List Sites

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 10/25/2019 Date Data Arrived at EDR: 11/07/2019 Date Made Active in Reports: 11/20/2019 Number of Days to Update: 13 Source: EPA Telephone: N/A Last EDR Contact: 12/09/2019 Next Scheduled EDR Contact: 01/13/2020 Data Release Frequency: Quarterly

NPL LIENS: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991 Date Data Arrived at EDR: 02/02/1994 Date Made Active in Reports: 03/30/1994 Number of Days to Update: 56 Source: EPA Telephone: 202-564-4267 Last EDR Contact: 08/15/2011 Next Scheduled EDR Contact: 11/28/2011 Data Release Frequency: No Update Planned

Federal Delisted NPL site list

Delisted NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 10/25/2019 Date Data Arrived at EDR: 11/07/2019 Date Made Active in Reports: 11/20/2019 Number of Days to Update: 13 Source: EPA Telephone: N/A Last EDR Contact: 12/10/2019 Next Scheduled EDR Contact: 01/13/2020 Data Release Frequency: Quarterly

Federal CERCLIS list

FEDERAL FACILITY: Federal Facility Site Information listing

A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Database where EPA Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 04/03/2019 Date Data Arrived at EDR: 04/05/2019 Date Made Active in Reports: 05/14/2019 Number of Days to Update: 39 Source: Environmental Protection Agency Telephone: 703-603-8704 Last EDR Contact: 10/04/2019 Next Scheduled EDR Contact: 01/13/2020 Data Release Frequency: Varies

SEMS: Superfund Enterprise Management System

SEMS (Superfund Enterprise Management System) tracks hazardous waste sites, potentially hazardous waste sites, and remedial activities performed in support of EPA's Superfund Program across the United States. The list was formerly know as CERCLIS, renamed to SEMS by the EPA in 2015. The list contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). This dataset also contains sites which are either proposed to or on the National Priorities List (NPL) and the sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 10/25/2019 Date Data Arrived at EDR: 11/07/2019 Date Made Active in Reports: 11/21/2019 Number of Days to Update: 14 Source: EPA Telephone: 800-424-9346 Last EDR Contact: 12/09/2019 Next Scheduled EDR Contact: 01/27/2020 Data Release Frequency: Quarterly

Federal CERCLIS NFRAP site list

SEMS-ARCHIVE: Superfund Enterprise Management System Archive

SEMS-ARCHIVE (Superfund Enterprise Management System Archive) tracks sites that have no further interest under the Federal Superfund Program based on available information. The list was formerly known as the CERCLIS-NFRAP, renamed to SEMS ARCHIVE by the EPA in 2015. EPA may perform a minimal level of assessment work at a site while it is archived if site conditions change and/or new information becomes available. Archived sites have been removed and archived from the inventory of SEMS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list the site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. The decision does not necessarily mean that there is no hazard associated with a given site; it only means that. based upon available information, the location is not judged to be potential NPL site.

Date of Government Version: 10/25/2019 Date Data Arrived at EDR: 11/07/2019 Date Made Active in Reports: 11/21/2019 Number of Days to Update: 14 Source: EPA Telephone: 800-424-9346 Last EDR Contact: 12/09/2019 Next Scheduled EDR Contact: 01/27/2020 Data Release Frequency: Quarterly

Federal RCRA CORRACTS facilities list

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 06/24/2019	Source: EPA
Date Data Arrived at EDR: 06/26/2019	Telephone: 800-424-9346
Date Made Active in Reports: 10/17/2019	Last EDR Contact: 10/28/2019
Number of Days to Update: 113	Next Scheduled EDR Contact: 01/06/2020
	Data Release Frequency: Quarterly

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 06/24/2019 Date Data Arrived at EDR: 06/26/2019 Date Made Active in Reports: 10/17/2019 Number of Days to Update: 113 Source: Environmental Protection Agency Telephone: 800-438-2474 Last EDR Contact: 10/28/2019 Next Scheduled EDR Contact: 01/06/2020 Data Release Frequency: Quarterly

Federal RCRA generators list

RCRA-LQG: RCRA - Large Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 06/24/2019 Date Data Arrived at EDR: 06/26/2019 Date Made Active in Reports: 10/17/2019 Number of Days to Update: 113 Source: Environmental Protection Agency Telephone: 800-438-2474 Last EDR Contact: 10/28/2019 Next Scheduled EDR Contact: 01/06/2020 Data Release Frequency: Quarterly

RCRA-SQG: RCRA - Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 06/24/2019 Date Data Arrived at EDR: 06/26/2019 Date Made Active in Reports: 10/17/2019 Number of Days to Update: 113 Source: Environmental Protection Agency Telephone: 800-438-2474 Last EDR Contact: 10/28/2019 Next Scheduled EDR Contact: 01/06/2020 Data Release Frequency: Quarterly

RCRA-VSQG: RCRA - Very Small Quantity Generators (Formerly Conditionally Exempt Small Quantity Generators) RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Very small quantity generators (VSQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 06/24/2019Source: Environmental Protection AgencyDate Data Arrived at EDR: 06/26/2019Telephone: 800-438-2474Date Made Active in Reports: 10/17/2019Last EDR Contact: 10/28/2019Number of Days to Update: 113Next Scheduled EDR Contact: 01/06/2020Data Release Frequency: Quarterly

Federal institutional controls / engineering controls registries

LUCIS: Land Use Control Information System

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 08/13/2019Source: Department of the NavyDate Data Arrived at EDR: 08/20/2019Telephone: 843-820-7326Date Made Active in Reports: 08/26/2019Last EDR Contact: 11/07/2019Number of Days to Update: 6Next Scheduled EDR Contact: 02/24/2020Data Release Frequency: Varies

US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 08/19/2019	Source: Environmental Protection Agency
Date Data Arrived at EDR: 08/20/2019	Telephone: 703-603-0695
Date Made Active in Reports: 08/26/2019	Last EDR Contact: 11/22/2019
Number of Days to Update: 6	Next Scheduled EDR Contact: 03/09/2020
	Data Release Frequency: Varies

US INST CONTROL: Sites with Institutional Controls

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 08/19/2019SDate Data Arrived at EDR: 08/20/2019DDate Made Active in Reports: 08/26/2019DNumber of Days to Update: 6M

Source: Environmental Protection Agency Telephone: 703-603-0695 Last EDR Contact: 11/22/2019 Next Scheduled EDR Contact: 03/09/2020 Data Release Frequency: Varies

Federal ERNS list

ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 09/09/2019 Date Data Arrived at EDR: 09/09/2019 Date Made Active in Reports: 09/23/2019 Number of Days to Update: 14 Source: National Response Center, United States Coast Guard Telephone: 202-267-2180 Last EDR Contact: 09/09/2019 Next Scheduled EDR Contact: 01/06/2020 Data Release Frequency: Quarterly

State- and tribal - equivalent CERCLIS

SHWS: Notice of Potential Hazardous Waste Sites

State Hazardous Waste Sites. State hazardous waste site records are the states' equivalent to CERCLIS. These sites may or may not already be listed on the federal CERCLIS list. Priority sites planned for cleanup using state funds (state equivalent of Superfund) are identified along with sites where cleanup will be paid for by potentially responsible parties. Available information varies by state.

Date of Government Version: 10/01/2009	Source: Department of the Environment
Date Data Arrived at EDR: 12/11/2009	Telephone: 410-537-3000
Date Made Active in Reports: 12/14/2009	Last EDR Contact: 10/31/2019
Number of Days to Update: 3	Next Scheduled EDR Contact: 02/17/2020
	Data Release Frequency: Semi-Annually

State and tribal landfill and/or solid waste disposal site lists

SWF/LF: Permitted Solid Waste Disposal Facilities

Solid Waste Facilities/Landfill Sites. SWF/LF type records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. Depending on the state, these may be active or inactive facilities or open dumps that failed to meet RCRA Subtitle D Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 08/20/2019 Date Data Arrived at EDR: 08/21/2019 Date Made Active in Reports: 10/30/2019 Number of Days to Update: 70 Source: Department of the Environment Telephone: 410-537-3375 Last EDR Contact: 10/28/2019 Next Scheduled EDR Contact: 02/10/2020 Data Release Frequency: Annually

State and tribal leaking storage tank lists

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 04/12/2019	Source: EPA Region 4
Date Data Arrived at EDR: 07/29/2019	Telephone: 404-562-8677
Date Made Active in Reports: 10/17/2019	Last EDR Contact: 12/03/2019
Number of Days to Update: 80	Next Scheduled EDR Contact: 02/03/2020
	Data Release Frequency: Varies

INDIAN LUST R5: Leaking Underground Storage Tanks on Indian Land Leaking underground storage tanks located on Indian Land in Michigan, Minnesota and Wisconsin.

Date of Government Version: 04/08/2019	5
Date Data Arrived at EDR: 07/30/2019	٦
Date Made Active in Reports: 10/17/2019	L
Number of Days to Update: 79	١

Source: EPA, Region 5 Telephone: 312-886-7439 Last EDR Contact: 12/04/2019 Next Scheduled EDR Contact: 02/03/2020 Data Release Frequency: Varies

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land A listing of leaking underground storage tank locations on Indian Land.			
Date Made Active in Reports: 10/17/2019 Number of Days to Update: 80	Source: EPA Region 1 Telephone: 617-918-1313 Last EDR Contact: 12/04/2019 Next Scheduled EDR Contact: 02/03/2020 Data Release Frequency: Varies		
INDIAN LUST R8: Leaking Underground Storage Tar LUSTs on Indian land in Colorado, Montana, No			
Date Made Active in Reports: 11/11/2019 Number of Days to Update: 20	Source: EPA Region 8 Telephone: 303-312-6271 Last EDR Contact: 12/04/2019 Next Scheduled EDR Contact: 02/03/2020 Data Release Frequency: Varies		
INDIAN LUST R10: Leaking Underground Storage Ta LUSTs on Indian land in Alaska, Idaho, Oregon			
Date Made Active in Reports: 10/17/2019 Number of Days to Update: 80	Source: EPA Region 10 Telephone: 206-553-2857 Last EDR Contact: 12/04/2019 Next Scheduled EDR Contact: 02/03/2020 Data Release Frequency: Varies		
INDIAN LUST R6: Leaking Underground Storage Tar LUSTs on Indian land in New Mexico and Oklah			
Date Data Arrived at EDR: 07/29/2019 Date Made Active in Reports: 10/17/2019 Number of Days to Update: 80	Source: EPA Region 6 Telephone: 214-665-6597 Last EDR Contact: 10/25/2019 Next Scheduled EDR Contact: 02/03/2020 Data Release Frequency: Varies		
INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land LUSTs on Indian land in Arizona, California, New Mexico and Nevada			
Date Data Arrived at EDR: 07/29/2019 Date Made Active in Reports: 10/17/2019 Number of Days to Update: 80	Source: Environmental Protection Agency Telephone: 415-972-3372 Last EDR Contact: 12/04/2019 Next Scheduled EDR Contact: 02/03/2020 Data Release Frequency: Varies		
INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land LUSTs on Indian land in Iowa, Kansas, and Nebraska			
Date Made Active in Reports: 10/24/2019 Number of Days to Update: 8	Source: EPA Region 7 Telephone: 913-551-7003 Last EDR Contact: 12/04/2020 Next Scheduled EDR Contact: 02/03/2020 Data Release Frequency: Varies		
OCPCASES: Oil Control Program Cases Cases monitored by the Oil Control Program. these cases can be leaking underground storage tanks and other belowground releases, leaking aboveground storage tanks, spills and inspections.			
Date Data Arrived at EDR: 07/16/2019	Source: Department of Environment Telephone: 410-537-3433 Last EDR Contact: 12/05/2019 Next Scheduled EDR Contact: 03/23/2020 Data Release Frequency: Semi-Annually		

HIST LUST: Recovery Sites

In 1999, the Department of the Environment stopped adding new sites to its Recovery Sites Database. Current leaking underground storage tank information maybe found in the OCPCASES database.

Date of Government Version: 03/01/1999	Source: Department of the Environment
Date Data Arrived at EDR: 03/22/1999	Telephone: 410-537-3433
Date Made Active in Reports: 04/16/1999	Last EDR Contact: 02/19/2001
Number of Days to Update: 25	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

State and tribal registered storage tank lists

FEMA UST: Underground Storage Tank Listing

A listing of all FEMA owned underground storage tanks.

Date of Government Version: 08/27/2019	Source: FEMA
Date Data Arrived at EDR: 08/28/2019	Telephone: 202-646-5797
Date Made Active in Reports: 11/11/2019	Last EDR Contact: 10/11/2019
Number of Days to Update: 75	Next Scheduled EDR Contact: 01/20/2020
	Data Release Frequency: Varies

UST: Registered Underground Storage Tank List

Registered Underground Storage Tanks. UST's are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA) and must be registered with the state department responsible for administering the UST program. Available information varies by state program.

Date of Government Version: 07/12/2019	Source: Department of the Environment
Date Data Arrived at EDR: 07/16/2019	Telephone: 410-537-3433
Date Made Active in Reports: 09/24/2019	Last EDR Contact: 11/04/2019
Number of Days to Update: 70	Next Scheduled EDR Contact: 01/20/2020
	Data Release Frequency: Semi-Annually

AST: Permitted Aboveground Storage Tanks Registered Aboveground Storage Tanks.

> Date of Government Version: 07/01/2019 Date Data Arrived at EDR: 07/16/2019 Date Made Active in Reports: 09/23/2019 Number of Days to Update: 69

Source: Department of The Environment Telephone: 410-537-3000 Last EDR Contact: 12/05/2019 Next Scheduled EDR Contact: 03/23/2020 Data Release Frequency: Semi-Annually

INDIAN UST R8: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 05/02/2019 Date Data Arrived at EDR: 10/22/2019 Date Made Active in Reports: 11/11/2019 Number of Days to Update: 20

Source: EPA Region 8 Telephone: 303-312-6137 Last EDR Contact: 12/04/2019 Next Scheduled EDR Contact: 02/03/2020 Data Release Frequency: Varies

INDIAN UST R9: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 04/08/2019 Date Data Arrived at EDR: 07/29/2019 Date Made Active in Reports: 10/17/2019 Number of Days to Update: 80 Source: EPA Region 9 Telephone: 415-972-3368 Last EDR Contact: 12/04/2019 Next Scheduled EDR Contact: 02/03/2020 Data Release Frequency: Varies

INDIAN UST R6: Underground Storage Tanks on Indian Land The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 05/01/2019	
Date Data Arrived at EDR: 07/29/2019	
Date Made Active in Reports: 10/17/2019	
Number of Days to Update: 80	

Source: EPA Region 6 Telephone: 214-665-7591 Last EDR Contact: 12/04/2019 Next Scheduled EDR Contact: 02/03/2020 Data Release Frequency: Varies

INDIAN UST R5: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 04/08/2019	Source: EPA Region 5
Date Data Arrived at EDR: 07/29/2019	Telephone: 312-886-6136
Date Made Active in Reports: 10/17/2019	Last EDR Contact: 12/04/2019
Number of Days to Update: 80	Next Scheduled EDR Contact: 02/03/2020
	Data Release Frequency: Varies

INDIAN UST R4: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations)

Date of Government Version: 04/12/2019 Date Data Arrived at EDR: 07/29/2019 Date Made Active in Reports: 10/17/2019 Number of Days to Update: 80

Source: EPA Region 4 Telephone: 404-562-9424 Last EDR Contact: 12/03/2019 Next Scheduled EDR Contact: 02/03/2020 Data Release Frequency: Varies

INDIAN UST R10: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

Date of Government Version: 04/16/2019 Date Data Arrived at EDR: 07/30/2019 Date Made Active in Reports: 10/17/2019 Number of Days to Update: 79

Source: EPA Region 10 Telephone: 206-553-2857 Last EDR Contact: 12/04/2019 Next Scheduled EDR Contact: 02/03/2020 Data Release Frequency: Varies

INDIAN UST R7: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 05/02/2019 Source: EPA Region 7 Date Data Arrived at EDR: 07/29/2019 Date Made Active in Reports: 10/17/2019 Number of Days to Update: 80

Telephone: 913-551-7003 Last EDR Contact: 12/04/2019 Next Scheduled EDR Contact: 02/03/2020 Data Release Frequency: Varies

INDIAN UST R1: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 04/11/2019	Source: EPA, Region 1
Date Data Arrived at EDR: 07/30/2019	Telephone: 617-918-1313
Date Made Active in Reports: 10/17/2019	Last EDR Contact: 12/04/2019
Number of Days to Update: 79	Next Scheduled EDR Contact: 02/03/2020
	Data Release Frequency: Varies

State and tribal institutional control / engineering control registries

ENG CONTROLS: Engineering Controls Site listing

Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 11/10/2008	Source: Department of the Environment
Date Data Arrived at EDR: 11/21/2008	Telephone: 410-537-3422
Date Made Active in Reports: 12/17/2008	Last EDR Contact: 12/05/2019
Number of Days to Update: 26	Next Scheduled EDR Contact: 03/23/2020
	Data Release Frequency: Varies

INST CONTROL: Voluntary Cleanup Program Applicants/Participants Sites included in the Voluntary Cleanup Program Applicants/Participants listing that have Deed Restrictions.

Date of Government Version: 09/16/2019 Date Data Arrived at EDR: 09/18/2019 Date Made Active in Reports: 11/19/2019 Number of Days to Update: 62

State and tribal voluntary cleanup sites

INDIAN VCP R1: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 07/27/2015	Source: EPA, Region 1
Date Data Arrived at EDR: 09/29/2015	Telephone: 617-918-1102
Date Made Active in Reports: 02/18/2016	Last EDR Contact: 09/19/2019
Number of Days to Update: 142	Next Scheduled EDR Contact: 01/06/2020
	Data Release Frequency: Varies

VCP: Voluntary Cleanup Program Applicants/Participants

The Voluntary Cleanup Program, administrated by the Dept. of the Environment, streamlines the environmental cleanup process for sites, usually industrial or commercial properties, that are contaminated, or perceived to be contaminated, by hazardous substances. Developers and lenders are provided with certain limitations on liability and participants in the program are provided certainty in the process by knowing exactly what will be required.

Date of Government Version: 09/16/2019 Date Data Arrived at EDR: 09/18/2019 Date Made Active in Reports: 11/19/2019 Number of Days to Update: 62 Source: Dept. of the Environment Telephone: 410-537-3000 Last EDR Contact: 12/05/2019 Next Scheduled EDR Contact: 03/23/2020 Data Release Frequency: Semi-Annually

Source: Department of the Environment

Next Scheduled EDR Contact: 03/23/2020 Data Release Frequency: Semi-Annually

Telephone: 410-537-3493 Last EDR Contact: 12/05/2019

INDIAN VCP R7: Voluntary Cleanup Priority Lisitng

A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008 Date Data Arrived at EDR: 04/22/2008 Date Made Active in Reports: 05/19/2008 Number of Days to Update: 27 Source: EPA, Region 7 Telephone: 913-551-7365 Last EDR Contact: 04/20/2009 Next Scheduled EDR Contact: 07/20/2009 Data Release Frequency: Varies

State and tribal Brownfields sites

BROWNFIELDS: Eligible Brownfields Properties

The Site Assessment Section of the State Superfund Division is responsible for conducting federally funded assessments of eligible brownfields properties. These assessments are undertaken to determine whether there are environmental cleanup requirements at these sites.

Date of Government Version: 07/08/2019 Date Data Arrived at EDR: 09/04/2019 Date Made Active in Reports: 11/12/2019 Number of Days to Update: 69 Source: Department of Environment Telephone: 410-537-3000 Last EDR Contact: 12/04/2019 Next Scheduled EDR Contact: 03/16/2020 Data Release Frequency: Quarterly

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: A Listing of Brownfields Sites

Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

Date of Government Version: 06/03/2019 Date Data Arrived at EDR: 06/04/2019 Date Made Active in Reports: 08/26/2019 Number of Days to Update: 83 Source: Environmental Protection Agency Telephone: 202-566-2777 Last EDR Contact: 09/19/2019 Next Scheduled EDR Contact: 12/30/2019 Data Release Frequency: Semi-Annually

Local Lists of Landfill / Solid Waste Disposal Sites

SWRCY: Recycling Directory

A listing of recycling facilities.

Date of Government Version: 06/17/2019 Date Data Arrived at EDR: 06/19/2019 Date Made Active in Reports: 08/07/2019 Number of Days to Update: 49

Source: Department of the Environment Telephone: 410-631-3314 Last EDR Contact: 09/12/2019 Next Scheduled EDR Contact: 12/30/2019 Data Release Frequency: Varies

INDIAN ODI: Report on the Status of Open Dumps on Indian Lands Location of open dumps on Indian land.

Date of Government Version: 12/31/1998	Source: Environmental Protection Agency
Date Data Arrived at EDR: 12/03/2007	Telephone: 703-308-8245
Date Made Active in Reports: 01/24/2008	Last EDR Contact: 10/28/2019
Number of Days to Update: 52	Next Scheduled EDR Contact: 02/10/2020
	Data Release Frequency: Varies

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations

A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009	
Date Data Arrived at EDR: 05/07/2009	
Date Made Active in Reports: 09/21/2009	
Number of Days to Update: 137	

Source: EPA, Region 9 Telephone: 415-947-4219 Last EDR Contact: 10/17/2019 Next Scheduled EDR Contact: 02/03/2020 Data Release Frequency: No Update Planned

ODI: Open Dump Inventory

An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985 Date Data Arrived at EDR: 08/09/2004 Date Made Active in Reports: 09/17/2004 Number of Days to Update: 39 Source: Environmental Protection Agency Telephone: 800-424-9346 Last EDR Contact: 06/09/2004 Next Scheduled EDR Contact: N/A Data Release Frequency: No Update Planned

IHS OPEN DUMPS: Open Dumps on Indian Land

A listing of all open dumps located on Indian Land in the United States.

Date of Government Version: 04/01/2014	Source: Department of Health & Human Serivces, Indian Health Service
Date Data Arrived at EDR: 08/06/2014	Telephone: 301-443-1452
Date Made Active in Reports: 01/29/2015	Last EDR Contact: 11/01/2019
Number of Days to Update: 176	Next Scheduled EDR Contact: 02/10/2020
	Data Release Frequency: Varies

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL: National Clandestine Laboratory Register

A listing of clandestine drug lab locations that have been removed from the DEAs National Clandestine Laboratory Register.

Date of Government Version: 06/11/2019 Date Data Arrived at EDR: 06/13/2019 Date Made Active in Reports: 09/03/2019 Number of Days to Update: 82 Source: Drug Enforcement Administration Telephone: 202-307-1000 Last EDR Contact: 11/20/2019 Next Scheduled EDR Contact: 03/09/2020 Data Release Frequency: No Update Planned

US CDL: Clandestine Drug Labs

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 06/11/2019 Date Data Arrived at EDR: 06/13/2019 Date Made Active in Reports: 09/03/2019 Number of Days to Update: 82 Source: Drug Enforcement Administration Telephone: 202-307-1000 Last EDR Contact: 11/20/2019 Next Scheduled EDR Contact: 03/09/2020 Data Release Frequency: Quarterly

Local Lists of Registered Storage Tanks

Historical UST: Historical UST Registered Database

In 1997 the Department of the Environment sent out registration forms to all the owner's listed in the UST database. Once they got the registration forms back they entered the information into a new UST database. we call this database UST. Because not all owners returned their forms, we kept the old UST database and labeled it HIST UST so that we would not be missing any past UST records. This listing is no longer updated or maintained by the agency. It is current through November 1996.

Date of Government Version: 11/21/1996 Date Data Arrived at EDR: 09/10/1997 Date Made Active in Reports: 10/22/1997 Number of Days to Update: 42 Source: Department of Environment Telephone: 410-537-3433 Last EDR Contact: 05/15/2000 Next Scheduled EDR Contact: N/A Data Release Frequency: No Update Planned

Local Land Records

LIENS 2: CERCLA Lien Information

A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 10/25/2019	Source: Environmental Protection Agency
Date Data Arrived at EDR: 11/07/2019	Telephone: 202-564-6023
Date Made Active in Reports: 11/20/2019	Last EDR Contact: 12/10/2019
Number of Days to Update: 13	Next Scheduled EDR Contact: 01/13/2020
	Data Release Frequency: Semi-Annually

Records of Emergency Release Reports

HMIRS: Hazardous Materials Information Reporting System Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 06/24/2019 Source: U.S. Department of Transportation Date Data Arrived at EDR: 06/26/2019 Telephone: 202-366-4555 Last EDR Contact: 12/06/2019 Date Made Active in Reports: 09/23/2019 Number of Days to Update: 89 Next Scheduled EDR Contact: 01/06/2020 Data Release Frequency: Quarterly

SPILLS 90: SPILLS90 data from FirstSearch

Spills 90 includes those spill and release records available exclusively from FirstSearch databases. Typically, they may include chemical, oil and/or hazardous substance spills recorded after 1990. Duplicate records that are already included in EDR incident and release records are not included in Spills 90.

Date of Government Version: 07/15/2012 Date Data Arrived at EDR: 01/03/2013 Date Made Active in Reports: 03/06/2013 Number of Days to Update: 62

Source: FirstSearch Telephone: N/A Last EDR Contact: 01/03/2013 Next Scheduled EDR Contact: N/A Data Release Frequency: No Update Planned

Other Ascertainable Records

RCRA NonGen / NLR: RCRA - Non Generators / No Longer Regulated

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 06/24/2019 Date Data Arrived at EDR: 06/26/2019 Date Made Active in Reports: 10/17/2019 Number of Days to Update: 113

Source: Environmental Protection Agency Telephone: 800-438-2474 Last EDR Contact: 10/28/2019 Next Scheduled EDR Contact: 01/06/2020 Data Release Frequency: Quarterly

FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 05/15/2019	
Date Data Arrived at EDR: 05/21/2019	
Date Made Active in Reports: 08/08/2019	
Number of Days to Update: 79	

Source: U.S. Army Corps of Engineers Telephone: 202-528-4285 Last EDR Contact: 11/19/2019 Next Scheduled EDR Contact: 03/02/2020 Data Release Frequency: Varies

DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 12/31/2005 Date Data Arrived at EDR: 11/10/2006 Date Made Active in Reports: 01/11/2007 Number of Days to Update: 62 Source: USGS Telephone: 888-275-8747 Last EDR Contact: 10/11/2019 Next Scheduled EDR Contact: 01/20/2020 Data Release Frequency: Semi-Annually

FEDLAND: Federal and Indian Lands

Federally and Indian administrated lands of the United States. Lands included are administrated by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

Date of Government Version: 04/02/2018 Date Data Arrived at EDR: 04/11/2018 Date Made Active in Reports: 11/06/2019 Number of Days to Update: 574 Source: U.S. Geological Survey Telephone: 888-275-8747 Last EDR Contact: 10/07/2019 Next Scheduled EDR Contact: 01/20/2020 Data Release Frequency: N/A

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Date of Government Version: 01/01/2017 Date Data Arrived at EDR: 02/03/2017 Date Made Active in Reports: 04/07/2017 Number of Days to Update: 63 Source: Environmental Protection Agency Telephone: 615-532-8599 Last EDR Contact: 12/02/2019 Next Scheduled EDR Contact: 02/24/2020 Data Release Frequency: Varies

US FIN ASSUR: Financial Assurance Information

All owners and operators of facilities that treat, store, or dispose of hazardous waste are required to provide proof that they will have sufficient funds to pay for the clean up, closure, and post-closure care of their facilities.

Date of Government Version: 06/24/2019 Date Data Arrived at EDR: 06/26/2019 Date Made Active in Reports: 09/23/2019 Number of Days to Update: 89 Source: Environmental Protection Agency Telephone: 202-566-1917 Last EDR Contact: 09/24/2019 Next Scheduled EDR Contact: 01/06/2020 Data Release Frequency: Quarterly

EPA WATCH LIST: EPA WATCH LIST

EPA maintains a "Watch List" to facilitate dialogue between EPA, state and local environmental agencies on enforcement matters relating to facilities with alleged violations identified as either significant or high priority. Being on the Watch List does not mean that the facility has actually violated the law only that an investigation by EPA or a state or local environmental agency has led those organizations to allege that an unproven violation has in fact occurred. Being on the Watch List does not represent a higher level of concern regarding the alleged violations that were detected, but instead indicates cases requiring additional dialogue between EPA, state and local agencies - primarily because of the length of time the alleged violation has gone unaddressed or unresolved.

Date of Government Version: 08/30/2013 Date Data Arrived at EDR: 03/21/2014 Date Made Active in Reports: 06/17/2014 Number of Days to Update: 88 Source: Environmental Protection Agency Telephone: 617-520-3000 Last EDR Contact: 10/31/2019 Next Scheduled EDR Contact: 02/17/2020 Data Release Frequency: Quarterly

2020 COR ACTION: 2020 Corrective Action Program List

The EPA has set ambitious goals for the RCRA Corrective Action program by creating the 2020 Corrective Action Universe. This RCRA cleanup baseline includes facilities expected to need corrective action. The 2020 universe contains a wide variety of sites. Some properties are heavily contaminated while others were contaminated but have since been cleaned up. Still others have not been fully investigated yet, and may require little or no remediation. Inclusion in the 2020 Universe does not necessarily imply failure on the part of a facility to meet its RCRA obligations.

Date of Government Version: 09/30/2017 Date Data Arrived at EDR: 05/08/2018 Date Made Active in Reports: 07/20/2018 Number of Days to Update: 73 Source: Environmental Protection Agency Telephone: 703-308-4044 Last EDR Contact: 11/08/2019 Next Scheduled EDR Contact: 02/17/2020 Data Release Frequency: Varies

TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2016 Date Data Arrived at EDR: 06/21/2017 Date Made Active in Reports: 01/05/2018 Number of Days to Update: 198 Source: EPA Telephone: 202-260-5521 Last EDR Contact: 09/19/2019 Next Scheduled EDR Contact: 12/30/2019 Data Release Frequency: Every 4 Years

TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2017 Date Data Arrived at EDR: 11/16/2018 Date Made Active in Reports: 11/21/2019 Number of Days to Update: 370

Source: EPA Telephone: 202-566-0250 Last EDR Contact: 11/22/2019 Next Scheduled EDR Contact: 03/02/2020 Data Release Frequency: Annually

SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 09/30/2018 Date Data Arrived at EDR: 04/24/2019 Date Made Active in Reports: 08/08/2019 Number of Days to Update: 106 Source: EPA Telephone: 202-564-4203 Last EDR Contact: 10/23/2019 Next Scheduled EDR Contact: 02/03/2020 Data Release Frequency: Annually

ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 10/25/2019 Date Data Arrived at EDR: 11/07/2019 Date Made Active in Reports: 11/20/2019 Number of Days to Update: 13 Source: EPA Telephone: 703-416-0223 Last EDR Contact: 12/09/2019 Next Scheduled EDR Contact: 03/16/2020 Data Release Frequency: Annually

RMP: Risk Management Plans

When Congress passed the Clean Air Act Amendments of 1990, it required EPA to publish regulations and guidance for chemical accident prevention at facilities using extremely hazardous substances. The Risk Management Program Rule (RMP Rule) was written to implement Section 112(r) of these amendments. The rule, which built upon existing industry codes and standards, requires companies of all sizes that use certain flammable and toxic substances to develop a Risk Management Program, which includes a(n): Hazard assessment that details the potential effects of an accidental release, an accident history of the last five years, and an evaluation of worst-case and alternative accidental releases; Prevention program that includes safety precautions and maintenance, monitoring, and employee training measures; and Emergency response program that spells out emergency health care, employee training measures and procedures for informing the public and response agencies (e.g the fire department) should an accident occur.

Date of Government Version: 04/25/2019 Date Data Arrived at EDR: 05/02/2019 Date Made Active in Reports: 05/23/2019 Number of Days to Update: 21 Source: Environmental Protection Agency Telephone: 202-564-8600 Last EDR Contact: 10/21/2019 Next Scheduled EDR Contact: 02/03/2020 Data Release Frequency: Varies

RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995 Date Data Arrived at EDR: 07/03/1995 Date Made Active in Reports: 08/07/1995 Number of Days to Update: 35 Source: EPA Telephone: 202-564-4104 Last EDR Contact: 06/02/2008 Next Scheduled EDR Contact: 09/01/2008 Data Release Frequency: No Update Planned

PRP: Potentially Responsible Parties

A listing of verified Potentially Responsible Parties

Date of Government Version: 10/25/2019	Source: EPA
Date Data Arrived at EDR: 11/07/2019	Telephone: 202-564-6023
Date Made Active in Reports: 11/21/2019	Last EDR Contact: 12/09/2019
Number of Days to Update: 14	Next Scheduled EDR Contact: 02/17/2020
	Data Release Frequency: Quarterly

PADS: PCB Activity Database System

PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 03/20/2019	Source: EPA
Date Data Arrived at EDR: 04/10/2019	Telephone: 202-566-0500
Date Made Active in Reports: 05/14/2019	Last EDR Contact: 10/11/2019
Number of Days to Update: 34	Next Scheduled EDR Contact: 01/20/2020
	Data Release Frequency: Annually

ICIS: Integrated Compliance Information System

The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 11/18/2016 Date Data Arrived at EDR: 11/23/2016 Date Made Active in Reports: 02/10/2017 Number of Days to Update: 79 Source: Environmental Protection Agency Telephone: 202-564-2501 Last EDR Contact: 10/07/2019 Next Scheduled EDR Contact: 01/20/2020 Data Release Frequency: Quarterly

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act) FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009	Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Date Data Arrived at EDR: 04/16/2009	Telephone: 202-566-1667
Date Made Active in Reports: 05/11/2009	Last EDR Contact: 08/18/2017
Number of Days to Update: 25	Next Scheduled EDR Contact: 12/04/2017
	Data Release Frequency: No Update Planned

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act) A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009	Source: EPA
Date Data Arrived at EDR: 04/16/2009	Telephone: 202-566-1667
Date Made Active in Reports: 05/11/2009	Last EDR Contact: 08/18/2017
Number of Days to Update: 25	Next Scheduled EDR Contact: 12/04/2017
	Data Release Frequency: No Update Planned

MLTS: Material Licensing Tracking System

MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 06/20/2019	Source: Nuclear Regulatory Commission
Date Data Arrived at EDR: 06/20/2019	Telephone: 301-415-7169
Date Made Active in Reports: 08/08/2019	Last EDR Contact: 10/25/2019
Number of Days to Update: 49	Next Scheduled EDR Contact: 02/03/2020
	Data Release Frequency: Quarterly

COAL ASH DOE: Steam-Electric Plant Operation Data

A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2005	Source: Department of Energy
Date Data Arrived at EDR: 08/07/2009	Telephone: 202-586-8719
Date Made Active in Reports: 10/22/2009	Last EDR Contact: 12/04/2019
Number of Days to Update: 76	Next Scheduled EDR Contact: 03/16/2020
	Data Release Frequency: Varies

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List

A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 01/12/2017 Date Data Arrived at EDR: 03/05/2019 Date Made Active in Reports: 11/11/2019 Number of Days to Update: 251 Source: Environmental Protection Agency Telephone: N/A Last EDR Contact: 11/25/2019 Next Scheduled EDR Contact: 03/16/2020 Data Release Frequency: Varies

PCB TRANSFORMER: PCB Transformer Registration Database

The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 05/24/2017	Source: Environmental Protection Agency
Date Data Arrived at EDR: 11/30/2017	Telephone: 202-566-0517
Date Made Active in Reports: 12/15/2017	Last EDR Contact: 11/06/2019
Number of Days to Update: 15	Next Scheduled EDR Contact: 02/17/2020
	Data Release Frequency: Varies

RADINFO: Radiation Information Database

The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 07/01/2019 Date Data Arrived at EDR: 07/01/2019 Date Made Active in Reports: 09/23/2019 Number of Days to Update: 84 Source: Environmental Protection Agency Telephone: 202-343-9775 Last EDR Contact: 11/12/2019 Next Scheduled EDR Contact: 01/13/2020 Data Release Frequency: Quarterly

HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing

A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006 Date Data Arrived at EDR: 03/01/2007 Date Made Active in Reports: 04/10/2007 Number of Days to Update: 40

Source: Environmental Protection Agency Telephone: 202-564-2501 Last EDR Contact: 12/17/2007 Next Scheduled EDR Contact: 03/17/2008 Data Release Frequency: No Update Planned

HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing

A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006 Date Data Arrived at EDR: 03/01/2007 Date Made Active in Reports: 04/10/2007 Number of Days to Update: 40 Source: Environmental Protection Agency Telephone: 202-564-2501 Last EDR Contact: 12/17/2008 Next Scheduled EDR Contact: 03/17/2008 Data Release Frequency: No Update Planned

DOT OPS: Incident and Accident Data

Department of Transporation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 07/01/2019	Source: Department of Transporation, Office of Pipeline Safety
Date Data Arrived at EDR: 07/31/2019	Telephone: 202-366-4595
Date Made Active in Reports: 10/24/2019	Last EDR Contact: 10/29/2019
Number of Days to Update: 85	Next Scheduled EDR Contact: 02/10/2020
	Data Release Frequency: Quarterly

CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 06/30/2019	Source: Department of Justice, Consent Decree Library
Date Data Arrived at EDR: 07/16/2019	Telephone: Varies
Date Made Active in Reports: 10/02/2019	Last EDR Contact: 10/02/2019
Number of Days to Update: 78	Next Scheduled EDR Contact: 01/20/2020
	Data Release Frequency: Varies

BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2015 Date Data Arrived at EDR: 02/22/2017 Date Made Active in Reports: 09/28/2017 Number of Days to Update: 218 Source: EPA/NTIS Telephone: 800-424-9346 Last EDR Contact: 09/16/2019 Next Scheduled EDR Contact: 01/06/2020 Data Release Frequency: Biennially

INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Source: USGS
Telephone: 202-208-3710
Last EDR Contact: 10/06/2019
Next Scheduled EDR Contact: 01/19/2020
Data Release Frequency: Semi-Annually

FUSRAP: Formerly Utilized Sites Remedial Action Program

DOE established the Formerly Utilized Sites Remedial Action Program (FUSRAP) in 1974 to remediate sites where radioactive contamination remained from Manhattan Project and early U.S. Atomic Energy Commission (AEC) operations.

Date of Government Version: 08/08/2017	
Date Data Arrived at EDR: 09/11/2018	
Date Made Active in Reports: 09/14/2018	
Number of Days to Update: 3	

Source: Department of Energy Telephone: 202-586-3559 Last EDR Contact: 11/04/2019 Next Scheduled EDR Contact: 02/17/2020 Data Release Frequency: Varies

UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 08/01/2019 Date Data Arrived at EDR: 08/21/2019 Date Made Active in Reports: 11/11/2019 Number of Days to Update: 82 Source: Department of Energy Telephone: 505-845-0011 Last EDR Contact: 11/15/2019 Next Scheduled EDR Contact: 03/02/2020 Data Release Frequency: Varies

LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 10/25/2019SourceDate Data Arrived at EDR: 11/07/2019TelephDate Made Active in Reports: 11/20/2019Last ENumber of Days to Update: 13Next S

Source: Environmental Protection Agency Telephone: 703-603-8787 Last EDR Contact: 12/09/2019 Next Scheduled EDR Contact: 01/13/2020 Data Release Frequency: Varies

LEAD SMELTER 2: Lead Smelter Sites

A list of several hundred sites in the U.S. where secondary lead smelting was done from 1931and 1964. These sites may pose a threat to public health through ingestion or inhalation of contaminated soil or dust

Date of Government Version: 04/05/2001 Date Data Arrived at EDR: 10/27/2010 Date Made Active in Reports: 12/02/2010 Number of Days to Update: 36 Source: American Journal of Public Health Telephone: 703-305-6451 Last EDR Contact: 12/02/2009 Next Scheduled EDR Contact: N/A Data Release Frequency: No Update Planned

US AIRS (AFS): Aerometric Information Retrieval System Facility Subsystem (AFS)

The database is a sub-system of Aerometric Information Retrieval System (AIRS). AFS contains compliance data on air pollution point sources regulated by the U.S. EPA and/or state and local air regulatory agencies. This information comes from source reports by various stationary sources of air pollution, such as electric power plants, steel mills, factories, and universities, and provides information about the air pollutants they produce. Action, air program, air program pollutant, and general level plant data. It is used to track emissions and compliance data from industrial plants.

Date of Government Version: 10/12/2016 Date Data Arrived at EDR: 10/26/2016 Date Made Active in Reports: 02/03/2017 Number of Days to Update: 100	Source: EPA Telephone: 202-564-2496 Last EDR Contact: 09/26/2017 Next Scheduled EDR Contact: 01/08/2018 Data Release Frequency: Annually	
US AIRS MINOR: Air Facility System Data A listing of minor source facilities.		
Date of Government Version: 10/12/2016 Date Data Arrived at EDR: 10/26/2016 Date Made Active in Reports: 02/03/2017 Number of Days to Update: 100	Source: EPA Telephone: 202-564-2496 Last EDR Contact: 09/26/2017 Next Scheduled EDR Contact: 01/08/2018 Data Release Frequency: Annually	
MINES VIOLATIONS: MSHA Violation Assessmen Mines violation and assessment information.	nt Data Department of Labor, Mine Safety & Health Administration.	
Date of Government Version: 09/17/2019 Date Data Arrived at EDR: 09/18/2019 Date Made Active in Reports: 12/03/2019 Number of Days to Update: 76	Source: DOL, Mine Safety & Health Admi Telephone: 202-693-9424 Last EDR Contact: 12/02/2019 Next Scheduled EDR Contact: 03/16/2020 Data Release Frequency: Quarterly	
US MINES: Mines Master Index File Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.		
Date of Government Version: 08/01/2019 Date Data Arrived at EDR: 08/27/2019 Date Made Active in Reports: 11/11/2019 Number of Days to Update: 76	Source: Department of Labor, Mine Safety and Health Administration Telephone: 303-231-5959 Last EDR Contact: 08/27/2019 Next Scheduled EDR Contact: 12/09/2019 Data Release Frequency: Semi-Annually	
	al mines are facilities that extract ferrous metals, such as iron ous metal mines are facilities that extract nonferrous metals, such	
Date of Government Version: 12/05/2005 Date Data Arrived at EDR: 02/29/2008 Date Made Active in Reports: 04/18/2008 Number of Days to Update: 49	Source: USGS Telephone: 703-648-7709 Last EDR Contact: 11/22/2019 Next Scheduled EDR Contact: 03/09/2020 Data Release Frequency: Varies	
US MINES 3: Active Mines & Mineral Plants Datab Active Mines and Mineral Processing Plant o of the USGS.	pase Listing perations for commodities monitored by the Minerals Information Team	
Date of Government Version: 04/14/2011 Date Data Arrived at EDR: 06/08/2011 Date Made Active in Reports: 09/13/2011 Number of Days to Update: 97	Source: USGS Telephone: 703-648-7709 Last EDR Contact: 11/22/2019 Next Scheduled EDR Contact: 03/09/2020 Data Release Frequency: Varies	
ABANDONED MINES: Abandoned Mines An inventory of land and water impacted by past mining (primarily coal mining) is maintained by OSMRE to provide information needed to implement the Surface Mining Control and Reclamation Act of 1977 (SMCRA). The inventory contains information on the location, type, and extent of AML impacts, as well as, information on the cost associated with the reclamation of those problems. The inventory is based upon field surveys by State, Tribal, and OSMRE program officials. It is dynamic to the extent that it is modified as new problems are identified and existing problems are reclaimed.		

Date of Government Version: 09/10/2019 Date Data Arrived at EDR: 09/10/2019 Date Made Active in Reports: 10/17/2019 Number of Days to Update: 37 Source: Department of Interior Telephone: 202-208-2609 Last EDR Contact: 12/04/2019 Next Scheduled EDR Contact: 03/23/2020 Data Release Frequency: Quarterly

FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 08/12/2019	Source: EPA
Date Data Arrived at EDR: 09/04/2019	Telephone: (215) 814-5000
Date Made Active in Reports: 12/03/2019	Last EDR Contact: 12/04/2019
Number of Days to Update: 90	Next Scheduled EDR Contact: 03/16/2020
	Data Release Frequency: Quarterly

UXO: Unexploded Ordnance Sites

A listing of unexploded ordnance site locations

Date of Government Version: 12/31/2017	Source: Department of Defense
Date Data Arrived at EDR: 01/17/2019	Telephone: 703-704-1564
Date Made Active in Reports: 04/01/2019	Last EDR Contact: 10/10/2019
Number of Days to Update: 74	Next Scheduled EDR Contact: 01/27/2020
	Data Release Frequency: Varies

ECHO: Enforcement & Compliance History Information

ECHO provides integrated compliance and enforcement information for about 800,000 regulated facilities nationwide.

Date of Government Version: 07/06/2019	Source: Environmental Protection Agency
Date Data Arrived at EDR: 07/09/2019	Telephone: 202-564-2280
Date Made Active in Reports: 10/02/2019	Last EDR Contact: 10/08/2019
Number of Days to Update: 85	Next Scheduled EDR Contact: 01/20/2020
	Data Release Frequency: Quarterly

DOCKET HWC: Hazardous Waste Compliance Docket Listing

A complete list of the Federal Agency Hazardous Waste Compliance Docket Facilities.

Date of Government Version: 05/31/2018	Source: Environmental Protection Agency
Date Data Arrived at EDR: 07/26/2018	Telephone: 202-564-0527
Date Made Active in Reports: 10/05/2018	Last EDR Contact: 11/20/2019
Number of Days to Update: 71	Next Scheduled EDR Contact: 03/09/2020
	Data Release Frequency: Varies

FUELS PROGRAM: EPA Fuels Program Registered Listing

This listing includes facilities that are registered under the Part 80 (Code of Federal Regulations) EPA Fuels Programs. All companies now are required to submit new and updated registrations.

Date of Government Version: 08/19/2019 Date Data Arrived at EDR: 08/20/2019 Date Made Active in Reports: 11/11/2019 Number of Days to Update: 83 Source: EPA Telephone: 800-385-6164 Last EDR Contact: 11/19/2019 Next Scheduled EDR Contact: 03/02/2020 Data Release Frequency: Quarterly

AIRS: Permit and Facility Information Listing

A listing of permitted facilities and emissions information.

Telephone: 410-537-3220 Last EDR Contact: 09/18/2019

Telephone: 410-537-3809 Last EDR Contact: 09/12/2019

Date of Government Version: 12/31/2017
Date Data Arrived at EDR: 10/23/2018
Date Made Active in Reports: 12/07/2018
Number of Days to Update: 45

ASBESTOS: Asbestos Notification Listing Asbestos sites

> Date of Government Version: 03/31/2019 Date Data Arrived at EDR: 04/18/2019 Date Made Active in Reports: 05/06/2019 Number of Days to Update: 18

COAL ASH: Coal Ash Disposal Site Listing Coal combustion byproduct site locations.

> Date of Government Version: 08/13/2010 Date Data Arrived at EDR: 01/05/2011 Date Made Active in Reports: 01/31/2011 Number of Days to Update: 26

Source: Department of the Environment Telephone: 410-537-3507 Last EDR Contact: 09/19/2019 Next Scheduled EDR Contact: 12/30/2019 Data Release Frequency: Varies

Source: Department of the Environment

Next Scheduled EDR Contact: 01/05/2020 Data Release Frequency: Annually

Source: Department of the Environment

Next Scheduled EDR Contact: 12/30/2019 Data Release Frequency: Varies

DRYCLEANERS: Registered Drycleaning Facilities A listing of registered drycleaning facilities.

> Date of Government Version: 07/24/2019 Date Data Arrived at EDR: 08/20/2019 Date Made Active in Reports: 10/30/2019 Number of Days to Update: 71

Source: Department of the Environmental Telephone: 410-537-3220 Last EDR Contact: 10/02/2019 Next Scheduled EDR Contact: 01/20/2020 Data Release Frequency: Varies

Financial Assurance 1: Financial Assurance Information Listing Financial Assurance information.

Date of Government Version: 06/15/2018 Date Data Arrived at EDR: 08/08/2018 Date Made Active in Reports: 08/27/2018 Number of Days to Update: 19 Source: Department of the Environment Telephone: 410-537-3345 Last EDR Contact: 11/21/2019 Next Scheduled EDR Contact: 02/10/2020 Data Release Frequency: Varies

Financial Assurance 2: Financial Assurance Information Listing A listing of financial assurance information for storage tank sites.

Date of Government Version: 07/12/2019 Date Data Arrived at EDR: 07/16/2019 Date Made Active in Reports: 09/24/2019 Number of Days to Update: 70 Source: Department of the Environment Telephone: 410-537-3461 Last EDR Contact: 11/04/2019 Next Scheduled EDR Contact: 01/20/2020 Data Release Frequency: Semi-Annually

LEAD: Lead Inspection Database

The Childhood Lead Poisoning Prevention Program data of lead inspection for the state.

Date of Government Version: 07/08/2019Source: Department of Environment, Lead Poisoning Prevention ProgramDate Data Arrived at EDR: 07/11/2019Telephone: 410-537-3000Date Made Active in Reports: 09/23/2019Last EDR Contact: 10/02/2019Number of Days to Update: 74Next Scheduled EDR Contact: 01/06/2020Data Release Frequency: Annually

LRP: Land Restoration Program

A listing of Land Restoration Program sites. Site types included in the database are: Voluntary Cleanup Program, National Priority List, Brownfields, Site Assessment, Formerly Used Defense Site, State Master List, Non Master List, Groundwater Investigation and Federal Facility.

Date of Government Version: 07/08/2019	Source: Department of the Environment
Date Data Arrived at EDR: 09/04/2019	Telephone: 410-537-3000
Date Made Active in Reports: 11/12/2019	Last EDR Contact: 12/04/2019
Number of Days to Update: 69	Next Scheduled EDR Contact: 03/16/2020
	Data Release Frequency: Quarterly

MANIFEST: Hazardous Waste Manifest Information Listing

Hazardous waste manifest information for the state of Maryland. Maryland regulations require the generator to submit a copy of the manifest to the Maryland Department of the Environment.

Date of Government Version: 12/31/2017	Source: Department of the Environment
Date Data Arrived at EDR: 03/15/2018	Telephone: 410-537-3314
Date Made Active in Reports: 06/22/2018	Last EDR Contact: 11/15/2019
Number of Days to Update: 99	Next Scheduled EDR Contact: 02/24/2020
	Data Release Frequency: Annually

NPDES: Wastewater Permit Listing

A listing of wastewater permit locations.

Date of Government Version: 08/19/2019 Date Data Arrived at EDR: 08/21/2019 Date Made Active in Reports: 10/31/2019 Number of Days to Update: 71 Source: Department of the Environment Telephone: 410-537-3507 Last EDR Contact: 11/19/2019 Next Scheduled EDR Contact: 03/02/2020 Data Release Frequency: Semi-Annually

UIC: Underground Injection Wells Database

A listing of underground injection well locations. The UIC Program is responsible for regulating the construction, operation, permitting, and closure of injection wells that place fluids underground for storage or disposal.

Date of Government Version: 08/26/2019 Date Data Arrived at EDR: 08/28/2019 Date Made Active in Reports: 11/07/2019 Number of Days to Update: 71 Source: Department of the Environment Telephone: 410-537-3507 Last EDR Contact: 10/31/2019 Next Scheduled EDR Contact: 02/03/2020 Data Release Frequency: Varies

MINES MRDS: Mineral Resources Data System Mineral Resources Data System

> Date of Government Version: 04/06/2018 Date Data Arrived at EDR: 10/21/2019 Date Made Active in Reports: 10/24/2019 Number of Days to Update: 3

Source: USGS Telephone: 703-648-6533 Last EDR Contact: 11/22/2019 Next Scheduled EDR Contact: 03/09/2020 Data Release Frequency: Varies

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP: EDR Proprietary Manufactured Gas Plants

The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A Date Data Arrived at EDR: N/A Date Made Active in Reports: N/A Number of Days to Update: N/A

Source: EDR, Inc. Telephone: N/A Last EDR Contact: N/A Next Scheduled EDR Contact: N/A Data Release Frequency: No Update Planned

EDR Hist Auto: EDR Exclusive Historical Auto Stations

EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A Date Data Arrived at EDR: N/A Date Made Active in Reports: N/A Number of Days to Update: N/A

Source: EDR, Inc. Telephone: N/A Last EDR Contact: N/A Next Scheduled EDR Contact: N/A Data Release Frequency: Varies

EDR Hist Cleaner: EDR Exclusive Historical Cleaners

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A Date Data Arrived at EDR: N/A Date Made Active in Reports: N/A Number of Days to Update: N/A

Source: EDR, Inc. Telephone: N/A Last EDR Contact: N/A Next Scheduled EDR Contact: N/A Data Release Frequency: Varies

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA HWS: Recovered Government Archive State Hazardous Waste Facilities List

The EDR Recovered Government Archive State Hazardous Waste database provides a list of SHWS incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of the Environment in Maryland.

Date of Government Version: N/A Date Data Arrived at EDR: 07/01/2013 Date Made Active in Reports: 01/03/2014 Number of Days to Update: 186

Source: Department of the Environment Telephone: N/A Last EDR Contact: 06/01/2012 Next Scheduled EDR Contact: N/A Data Release Frequency: Varies

RGA LF: Recovered Government Archive Solid Waste Facilities List

The EDR Recovered Government Archive Landfill database provides a list of landfills derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of the Environment in Maryland.

Date of Government Version: N/A	Source: Department of the Environment
Date Data Arrived at EDR: 07/01/2013	Telephone: N/A
Date Made Active in Reports: 01/16/2014	Last EDR Contact: 06/01/2012
Number of Days to Update: 199	Next Scheduled EDR Contact: N/A
	Data Release Frequency: Varies

RGA LUST: Recovered Government Archive Leaking Underground Storage Tank

The EDR Recovered Government Archive Leaking Underground Storage Tank database provides a list of LUST incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of the Environment in Maryland from 1995-1999...

Date of Government Version: N/A Date Data Arrived at EDR: 07/01/2013 Date Made Active in Reports: 01/03/2014 Number of Days to Update: 186

Source: Department of the Environment Telephone: N/A Last EDR Contact: 06/01/2012 Next Scheduled EDR Contact: N/A Data Release Frequency: Varies

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

CT MANIFEST: Hazardous Waste Manifest Data

Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

	Date of Government Version: 05/14/2019 Date Data Arrived at EDR: 05/14/2019 Date Made Active in Reports: 08/05/2019 Number of Days to Update: 83	Source: Department of Energy & Environmental Protection Telephone: 860-424-3375 Last EDR Contact: 11/11/2019 Next Scheduled EDR Contact: 02/24/2020 Data Release Frequency: No Update Planned
NJ N	MANIFEST: Manifest Information Hazardous waste manifest information.	
	Date of Government Version: 12/31/2018 Date Data Arrived at EDR: 04/10/2019 Date Made Active in Reports: 05/16/2019 Number of Days to Update: 36	Source: Department of Environmental Protection Telephone: N/A Last EDR Contact: 10/02/2019 Next Scheduled EDR Contact: 01/20/2020 Data Release Frequency: Annually
NY MANIFEST: Facility and Manifest Data Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.		
	Date of Government Version: 01/01/2019 Date Data Arrived at EDR: 05/01/2019 Date Made Active in Reports: 06/21/2019 Number of Days to Update: 51	Source: Department of Environmental Conservation Telephone: 518-402-8651 Last EDR Contact: 10/29/2019 Next Scheduled EDR Contact: 02/10/2020 Data Release Frequency: Quarterly
PAI	MANIFEST: Manifest Information Hazardous waste manifest information.	
	Date of Government Version: 06/30/2018 Date Data Arrived at EDR: 07/19/2019 Date Made Active in Reports: 09/10/2019 Number of Days to Update: 53	Source: Department of Environmental Protection Telephone: 717-783-8990 Last EDR Contact: 10/09/2019 Next Scheduled EDR Contact: 12/07/2020 Data Release Frequency: Annually
RIM	ANIFEST: Manifest information	

RI MANIFEST: Manifest information Hazardous waste manifest information

Date of Government Version: 12/31/2018 Date Data Arrived at EDR: 10/02/2019 Date Made Active in Reports: 12/10/2019 Number of Days to Update: 69 Source: Department of Environmental Management Telephone: 401-222-2797 Last EDR Contact: 11/14/2019 Next Scheduled EDR Contact: 03/02/2020 Data Release Frequency: Annually

WI MANIFEST: Manifest Information Hazardous waste manifest information.

> Date of Government Version: 05/31/2018 Date Data Arrived at EDR: 06/19/2019 Date Made Active in Reports: 09/03/2019 Number of Days to Update: 76

Source: Department of Natural Resources Telephone: N/A Last EDR Contact: 12/06/2019 Next Scheduled EDR Contact: 03/23/2020 Data Release Frequency: Annually

Oil/Gas Pipelines

Source: Endeavor Business Media

Petroleum Bundle (Crude Oil, Refined Products, Petrochemicals, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)) N = Natural Gas Bundle (Natural Gas, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)). This map includes information copyrighted by Endeavor Business Media. This information is provided on a best effort basis and Endeavor Business Media does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of Endeavor Business Media.

Electric Power Transmission Line Data

Source: Endeavor Business Media

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Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:

Source: American Hospital Association, Inc.

Telephone: 312-280-5991

The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing

Source: Centers for Medicare & Medicaid Services

Telephone: 410-786-3000

A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services,

a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes

Source: National Institutes of Health

Telephone: 301-594-6248

Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on elementary

and secondary public education in the United States. It is a comprehensive, annual, national statistical

database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

Private Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on private school locations in the United States.

Daycare Centers: Child Care Providers

Source: Department of Human Resources

Telephone: 410-767-7805

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.

Source: FEMA Telephone: 877-336-2627 Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

Current USGS 7.5 Minute Topographic Map Source: U.S. Geological Survey

STREET AND ADDRESS INFORMATION

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GEOCHECK ®- PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

FUTURE TANTALLON SQUARE HIGH SCHOOL ASBURY DR FORT WASHINGTON, MD 20744

TARGET PROPERTY COORDINATES

Latitude (North):	38.722794 - 38° 43' 22.06"
Longitude (West):	77.001061 - 77° 0' 3.82''
Universal Tranverse Mercator:	Zone 18
UTM X (Meters):	326038.3
UTM Y (Meters):	4287709.0
Elevation:	48 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	5950527 MOUNT VERNON, VA
Version Date:	2013
Southeast Map:	6051318 PISCATAWAY, MD
Version Date:	2014

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principle investigative components:

- 1. Groundwater flow direction, and
- 2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

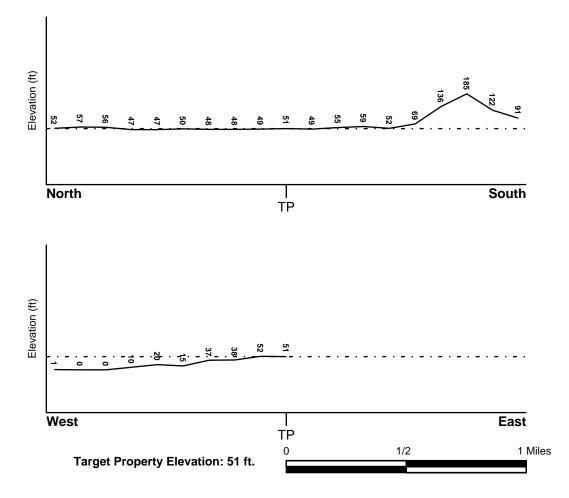
TOPOGRAPHIC INFORMATION

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General NNW

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

Flood Plain Panel at Target Property	FEMA Source Type
51059C0410E	FEMA FIRM Flood data
Additional Panels in search area:	FEMA Source Type
2452080075D 2452080095C	FEMA Q3 Flood data FEMA Q3 Flood data
NATIONAL WETLAND INVENTORY	
NWI Quad at Target Property MOUNT VERNON	NWI Electronic <u>Data Coverage</u> YES - refer to the Overview Map and Detail Map

HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

	LOCATION	GENERAL DIRECTION
MAP ID	FROM TP	GROUNDWATER FLOW
35	1/2 - 1 Mile SE	E
1G	1/2 - 1 Mile SE	E

For additional site information, refer to Physical Setting Source Map Findings.

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

GEOLOGIC AGE IDENTIFICATION

Era:	Cenozoic	Category:	Stratifed Sequence
System:	Tertiary		
Series:	Eocene		
Code:	Te (decoded above as Era, System &	Series)	

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps. The following information is based on Soil Conservation Service STATSGO data.

Soil Component Name:	BELTSVILLE	
Soil Surface Texture:	silt loam	
Hydrologic Group:	Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.	
Soil Drainage Class:	Moderately well drained. Soils have a layer of low hydraulic conductivity, wet state high in the profile. Depth to water table is 3 to 6 feet.	
Hydric Status: Soil does not meet the requirements for a hydric soil.		

Corrosion Potential - Uncoated Steel: HIGH

Depth to Bedrock Min:	> 60 inches
Depth to Deutock Min.	2 00 110103

Depth to Bedrock Max: > 60 inches

Soil Layer Information							
	Boundary			Classification			
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	Permeability Rate (in/hr)	Soil Reaction (pH)
1	0 inches	14 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 2.00 Min: 0.60	Max: 5.50 Min: 3.60
2	14 inches	25 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 2.00 Min: 0.60	Max: 5.50 Min: 3.60
3	25 inches	50 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 0.20 Min: 0.00	Max: 5.50 Min: 3.60
4	50 inches	72 inches	gravelly - sandy loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 6.00 Min: 0.20	Max: 5.50 Min: 3.60

OTHER SOIL TYPES IN AREA

Based on Soil Conservation Service STATSGO data, the following additional subordinant soil types may appear within the general area of target property.

Soil Surface Textures:	gravelly - loam gravelly - sandy loam sandy loam loam
Surficial Soil Types:	gravelly - loam gravelly - sandy loam sandy loam loam
Shallow Soil Types:	very gravelly - sandy clay loam clay loam loam sandy loam
Deeper Soil Types:	very gravelly - sand stratified sandy loam sand

LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

WELL SEARCH DISTANCE INFORMATION

DATABASE	SEARCH DISTANCE (miles)		
Federal USGS	1.000		
Federal FRDS PWS	Nearest PWS within 1 mile		
State Database	1.000		

FEDERAL USGS WELL INFORMATION

		LOCATION
MAP ID	WELL ID	FROM TP
No Wells Found		

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

		LOCATION
MAP ID	WELL ID	FROM TP

No PWS System Found

Note: PWS System location is not always the same as well location.

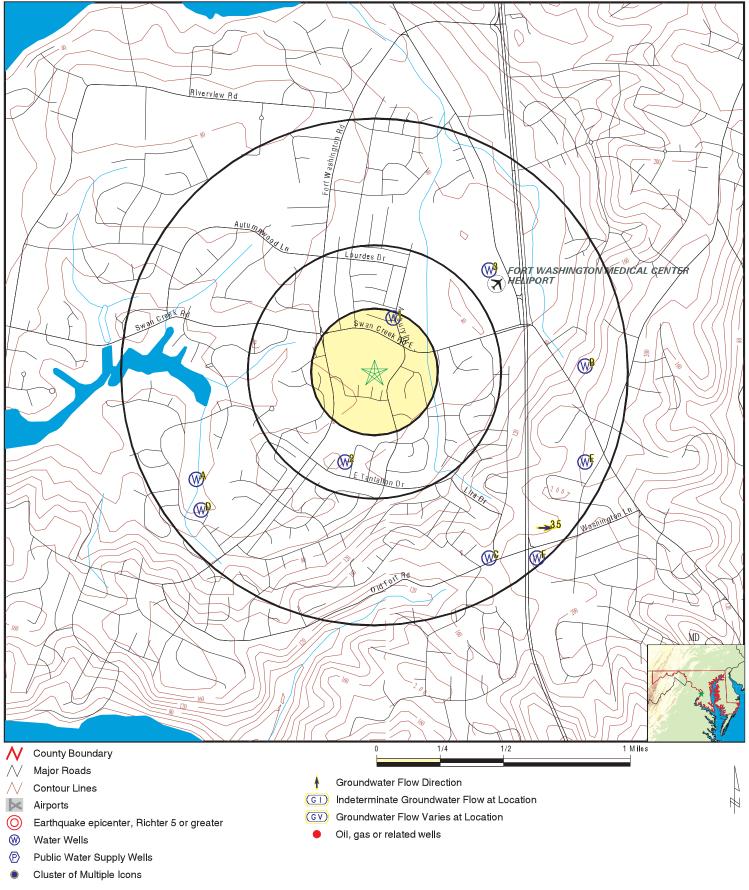
STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
1	MD7000000225715	1/8 - 1/4 Mile NNE
2	MD700000496856	1/4 - 1/2 Mile SSW
3	MD700000257289	1/2 - 1 Mile NE
A4	MD700000370269	1/2 - 1 Mile WSW
A5	MD700000257172	1/2 - 1 Mile WSW
B6	MD700000530898	1/2 - 1 Mile East
B7	MD700000534092	1/2 - 1 Mile East
C8	MD700000484838	1/2 - 1 Mile SSE
C9	MD700000484837	1/2 - 1 Mile SSE
C10	MD700000472857	1/2 - 1 Mile SSE
C11	MD700000484839	1/2 - 1 Mile SSE
C12	MD700000518095	1/2 - 1 Mile SSE
C13	MD700000518094	1/2 - 1 Mile SSE
C14	MD700000518093	1/2 - 1 Mile SSE
C15	MD700000457247	1/2 - 1 Mile SSE
C16	MD700000457233	1/2 - 1 Mile SSE
C17	MD700000472821	1/2 - 1 Mile SSE
C18	MD700000472820	1/2 - 1 Mile SSE
C19	MD700000457249	1/2 - 1 Mile SSE
C20	MD700000457248	1/2 - 1 Mile SSE

STATE DATABASE WELL INFORMATION

		LOCATION
MAP ID	WELL ID	FROM TP
C21	MD7000000472825	1/2 - 1 Mile SSE
C22	MD7000000472838	1/2 - 1 Mile SSE
C23	MD7000000472839	1/2 - 1 Mile SSE
C24	MD7000000472822	1/2 - 1 Mile SSE
C25	MD7000000472823	1/2 - 1 Mile SSE
C26	MD7000000472824	1/2 - 1 Mile SSE
D27	MD700000257906	1/2 - 1 Mile SW
D28	MD700000257907	1/2 - 1 Mile SW
D29	MD700000257908	1/2 - 1 Mile SW
E30	MD700000342172	1/2 - 1 Mile ESE
E31	MD7000000342171	1/2 - 1 Mile ESE
E32	MD7000000348496	1/2 - 1 Mile ESE
E33	MD700000348567	1/2 - 1 Mile ESE
E34	MD7000000348523	1/2 - 1 Mile ESE
F36	MD7000000533604	1/2 - 1 Mile SE
F37	MD7000000414313	1/2 - 1 Mile SE
F38	MD7000000533611	1/2 - 1 Mile SE
F39	MD7000000533610	1/2 - 1 Mile SE
F40	MD700000346987	1/2 - 1 Mile SE
F41	MD700000346992	1/2 - 1 Mile SE
F42	MD700000258683	1/2 - 1 Mile SE
F43	MD700000258684	1/2 - 1 Mile SE
F44	MD7000000347908	1/2 - 1 Mile SE
F45	MD7000000372062	1/2 - 1 Mile SE
F46	MD7000000414312	1/2 - 1 Mile SE
F47	MD7000000370460	1/2 - 1 Mile SE
F48	MD700000372061	1/2 - 1 Mile SE

PHYSICAL SETTING SOURCE MAP - 5901609.29s



SITE NAME: ADDRESS:	Future Tantallon Square High School ASBURY DR
	FORT WASHINGTON MD 20744
LAT/LONG:	38.722794 / 77.001061

GEOCHECK®- PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID Direction Distance Elevation

1 NNE 1/8 - 1/4 Mile Lower			MD WELLS MD700000225715
Objectid:	225715	County let:	НО
Permit:	HO731684	Mgs id:	Not Reported
B1 seq:	Not Reported	B1 recd:	197610 4
City:	ELLICOTT CITY	State:	MD
Zip:	Not Reported	Driller na:	DILLON, HOWARD J
Driller id:	MWD0209	Est gpm pr:	5
Use for wa:	DW	Approx dep:	200
Drill meth:	AIR-PER	Replacemen:	Ν
Wapid:	Not Reported	Subdivisio:	ROSE MARY ESTS
Section:	Not Reported	Lot:	24C
Nearest to:	GLENELG	Town dista:	3 MI
Town direc:	NE	Road name:	TRIADELPHIA
Road side:	Not Reported	Road dista:	200 FT
Tax map:	Not Reported	Block:	Not Reported
Parcel:	Not Reported	N grid83:	117576
E grid83:	400026	Lat dec de:	38.725875
Lon dec de:	-76.999697	Issue date:	1976 929
Special fl:	Not Reported	C1 seq:	Not Reported
C1 recd:	0	Completion:	0
Total dept:	0	Num unsucc:	0
Hydrofract:	Not Reported	Grouted:	Not Reported
Grout type:	Not Reported	Grout top:	0
Grout bott:	0	Casing typ:	Not Reported
Casing dia:	0	Casing dep:	0
Casing hei:	+00	Screen typ:	Not Reported
Top screen:	0	Bottom scr:	0
Screen t 1:	Not Reported	Top scre 1:	0
Bottom s 1:	0	Screen t 2:	Not Reported
Top scre 2:	0	Bottom s 2:	0
Screen dia:	0	Flowing we:	Not Reported
Telescopin:	Not Reported	Log type:	Not Reported
Hrs pumped:	0	Pumping ra:	0
Level befo:	0	Level duri:	0
Test pump:	Not Reported	Pump insta:	Not Reported
Install pu:	Not Reported	Capacity:	0
Pump hp:	0	Column len:	0
Closed:	U	Abandoned:	Not Reported
Abandon da:	0	Site id:	MD700000225715

2 SSW 1/4 - 1/2 Mile Higher

> Objectid: Permit: B1 seq: City: Zip: Driller id: Use for wa: Drill meth: Wapid: Section:

496856 PG950410 6359 ACCOKEEK 20607 MWD 471 DW ROTARY Not Reported Not Reported County let: Mgs id: B1 recd: State: Driller na: Est gpm pr: Approx dep: Replacemen: Subdivisio: Lot: Not Reported Not Reported 2005 613 MD JOHN T YOUNGBAR SR 10 500 Y Not Reported Not Reported

MD700000496856

MD WELLS

Database

EDR ID Number

Nearest to:
Town direc:
Road side:
Tax map:
Parcel:
E grid83:
Lon dec de:
Special fl:
C1 recd:
Total dept:
Hydrofract:
Grout type:
Grout bott:
Casing dia:
Casing hei:
Top screen:
Screen t 1:
Bottom s 1:
Top scre 2:
Screen dia:
Telescopin:
Hrs pumped:
Level befo:
Test pump:
Install pu:
Pump hp:
Closed:

ACCOKEEK NE W 151 36 399722 -77.003202 Not Reported 2005 7 6 447 Not Reported BC 300 4 +1 424 ST 444 0 2 т 5 190 А s 1 А

0

257289

Town dista: Road name: Road dista: Block: N grid83: Lat dec de: Issue date: C1 seq: Completion: Num unsucc: Grouted: Grout top: Casing typ: Casing dep: Screen typ: Bottom scr: Top scre 1: Screen t 2: Bottom s 2: Flowing we: Log type: Pumping ra: Level duri: Pump insta: Capacity: Column len:

Abandoned:

County let:

Mgs id: B1 recd:

State:

Driller na:

Est gpm pr:

Approx dep:

Subdivisio:

Town dista:

Road name:

Road dista:

Block:

N grid83:

C1 seq:

Grouted:

Grout top:

Casing typ:

Casing dep:

Screen typ:

Bottom scr:

Top scre 1:

Lat dec de:

Issue date:

Completion:

Num unsucc:

Lot:

Replacemen:

Site id:

14707 JOHN CLAGETT D 80 FT F1 116662 38.717638 2005 6 8 9875 2005 611 0 Υ 3 ΡL 424 ST 434 434 Not Reported 0 Not Reported Not Reported 60 230 Υ 7 300 Not Reported MD700000496856

MD WELLS MI

MD700000257289

PG Not Reported 1988 524 MD D'AMIANO, ANTHONY R. 0 35 Ν Not Reported Not Reported 1.0 MI LIVINGSTON RD 125 FT Not Reported 117881 38.728621 1988 517 Not Reported 0 0 Not Reported Ω Not Reported 0 Not Reported 0 0

3 NE 1/2 - 1 Mile Higher

Abandon da:

Objectid: Permit: B1 seq: City: Zip: Driller id: Use for wa: Drill meth: Wapid: Section: Nearest to: Town direc: Road side: Tax map: Parcel: E grid83: Lon dec de: Special fl: C1 recd: Total dept: Hydrofract: Grout type: Grout bott: Casing dia: Casing hei: Top screen: Screen t 1:

PG812031 Not Reported OXON HILL 20744 MWD0346 Т AIR-ROT Not Reported Not Reported SILESIA S W Not Reported Not Reported 400636 -76.992687 Not Reported 0 0 Not Reported Not Reported 0 0 +00 0

Not Reported

Bottom s 1: Top scre 2: Screen dia: Telescopin: Hrs pumped: Level befo: Test pump: Install pu: Pump hp: Closed: Abandon da:

A4 WSW 1/2 - 1 Mile

Lower

Objectid: Permit: B1 seq: City: Zip: Driller id: Use for wa: Drill meth: Wapid: Section: Nearest to: Town direc: Road side: Tax map: Parcel: E grid83: Lon dec de: Special fl: C1 recd: Total dept: Hydrofract: Grout type: Grout bott: Casing dia: Casing hei: Top screen: Screen t 1: Bottom s 1: Top scre 2: Screen dia: Telescopin: Hrs pumped: Level befo: Test pump: Install pu: Pump hp: Closed: Abandon da: 0 0 Not Reported 0 Not Reported Not Reported 0 Not Reported 0

370269

5147

20110

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SW

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MSD 33

ROTARY

PG1988G008

Not Reported

Not Reported

Not Reported

Not Reported

398773

-77.014109

1996 925

495

СМ

435

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Not Reported

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FORT WASHINGTON

PG920980

MANASSAS

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Screen t 2: Bottom s 2: Flowing we: Log type: Pumping ra: Level duri: Pump insta: Capacity: Column len: Abandoned: Site id: Not Reported 0 Not Reported 0 0 Not Reported 0 0 Not Reported MD700000257289

MD WELLS MD700000370269

County let: Mgs id: B1 recd: State: Driller na: Est gpm pr: Approx dep: Replacemen: Subdivisio: Lot: Town dista: Road name: Road dista: Block: N grid83: Lat dec de: Issue date: C1 seq: Completion: Num unsucc: Grouted: Grout top: Casing typ: Casing dep: Screen typ: Bottom scr: Top scre 1: Screen t 2: Bottom s 2: Flowing we: Log type: Pumping ra: Level duri: Pump insta: Capacity: Column len: Abandoned: Site id:

PG Not Reported 1996 826 VA ROBERT B FRANK 120 600 Ν TANTALLON GOLF COURS Not Reported 2 300 SAINT ANDREWS DR 100 FT Not Reported 116559 38.71671 1996 8 8 7640 1996 820 0 Υ 0 ST 435 ST 450 450 Not Reported 0 Not Reported Not Reported 200 215 Υ 150 315 Not Reported MD700000370269

Map ID
Direction
Distance
Flovation

Distance Elevation			Database	EDR ID Number
A5 WSW 1/2 - 1 Mile Lower			MD WELLS	MD7000000257172
Objectid:	257172	County let:	PG	
Permit:	PG811887	Mgs id:	Not Reporte	ed
B1 seq:	Not Reported	B1 recd:	1988 419	
City:	FT WASHINGTON	State:	MD	
Zip:	20744	Driller na:	GRIBBLE,	VICHAEL K.
Driller id:	MWD0318	Est gpm pr:	8	
Use for wa:	F	Approx dep:	500	
Drill meth:	ROTARY	Replacemen:	Ν	
Wapid:	PG1988G008	Subdivisio:	TANTALLC	N COUNTRY CL
Section:	Not Reported	Lot:	Not Report	ed
Nearest to:	FT WASHINGTON	Town dista:	2.0 MI	
Town direc:	SW	Road name:	ST ANDRE	WS DR
Road side:	W	Road dista:	60 FT	
Tax map:	Not Reported	Block:	Not Report	ed
Parcel:	Not Reported	N grid83:	116545	
E grid83:	398780	Lat dec de:	38.716584	
Lon dec de:	-77.014028	Issue date:	1988 414	
Special fl:	Not Reported	C1 seq:	Not Reported	
C1 recd:	1989 119	Completion:	198812 9	
Total dept:	380	Num unsucc:	0	
Hydrofract:	Not Reported	Grouted:	Y	
Grout type:	СМ	Grout top:	0	
Grout bott:	50	Casing typ:	ST	
Casing dia:	6	Casing dep:	319	
Casing hei:	+01	Screen typ:	ST	
Top screen:	370	Bottom scr:	380	
Screen t 1:	Not Reported	Top scre 1:	0	
Bottom s 1:	0	Screen t 2:	Not Report	ed
Top scre 2:	0	Bottom s 2:	0	
Screen dia:	2	Flowing we:	Not Report	ed
Telescopin:	т	Log type:	Not Report	
Hrs pumped:	8	Pumping ra:	135	
Level befo:	35	Level duri:	80	
Test pump:	A	Pump insta:	Not Report	ed
Install pu:	S	Capacity:	8	
Pump hp:	15	Column len:	294	
Closed:	Not Reported	Abandoned:	Not Report	ed
Abandon da:	0	Site id:	MD700000	

B6 East 1/2 - 1 Mile Higher

Objectid: Permit: B1 seq: City: Zip: Driller id: Use for wa: Drill meth: Wapid: Section:

530898 PG951966 3749 FORT WASHINGT 20744 MSD 33 DW ROTARY Not Reported Not Reported

County let: Mgs id: B1 recd: State: Driller na: Est gpm pr: Approx dep: Replacemen: Subdivisio: Lot:

Not Reported Not Reported 2009 630 MD ROBERT B FRANK 10 300 Ν Not Reported Not Reported

MD WELLS MD700000530898

Nearest to: Town direc: Road side: Tax map: Parcel: E grid83: Lon dec de: Special fl: C1 recd: Total dept: Hydrofract: Grout type: Grout bott: Casing dia: Casing hei: Top screen: Screen t 1: Bottom s 1: Top scre 2: Screen dia: Telescopin: Hrs pumped: Level befo: Test pump: Install pu: Pump hp: Closed: Abandon da:

FORT WASHINGTON SE Е 132 99 401246 -76.985677 Υ 0 500 Ν BC 63 4 +1 480 ST 500 0 2 Not Reported 3 250 А S 1.5 Not Reported

0

Town dista: Road name: Road dista: Block: N grid83: Lat dec de: Issue date: C1 seq: Completion: Num unsucc: Grouted: Grout top: Casing typ: Casing dep: Screen typ: Bottom scr: Top scre 1: Screen t 2: Bottom s 2: Flowing we: Log type: Pumping ra: Level duri: Pump insta: Capacity: Column len:

Abandoned:

County let:

Mgs id: B1 recd:

State:

Driller na:

Est gpm pr:

Subdivisio:

Town dista:

Road dista:

Lot:

Block:

N grid83:

Lat dec de:

Issue date:

C1 seq:

Grouted:

Grout top:

Casing typ:

Screen typ:

Bottom scr:

Top scre 1:

Site id:

12204 LIVINGSTON RD 450 FT C2 117272 38.723128 2009 611 7921 2009 7 7 0 Υ 0 PL 415 ST 495 49 Not Reported 0 Not Reported Not Reported 60 282 Υ 10 350 Not Reported MD700000530898

B7 East 1/2 - 1 Mile Higher

> Objectid: Permit: B1 seq: City: Zip: Driller id: Use for wa: Drill meth: Wapid: Section: Nearest to: Town direc: Road side: Tax map: Parcel: E grid83: Lon dec de: Special fl: C1 recd: Total dept: Hydrofract: Grout type: Grout bott: Casing dia: Casing hei: Top screen: Screen t 1:

534092 PG951709 8000 FORT WASHINGT 20744 MSD 33 DW ROTARY Not Reported Not Reported FORT WASHINGTON SE Е 132 99 401246 -76.985677 Not Reported 0 0 Not Reported Not Reported 0 0 Not Reported 0 Not Reported

MD WELLS

MD700000534092

Approx dep: Replacemen: Road name: Completion: Num unsucc: Casing dep:

Not Reported Not Reported 2008 2 6 MD **ROBERT B FRANK** 10 300 Ν Not Reported Not Reported 4 12204 LIVINGSTON ROA 450 FT C2 117272 38.723128 2008 129 9999 0 0 Not Reported Ω Not Reported 0 Not Reported 0 0

Bottom s 1: Top scre 2: Screen dia: Telescopin: Hrs pumped: Level befo: Test pump: Install pu: Pump hp: Closed: Abandon da: 0

0

0

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Not Reported

Not Reported

Not Reported

C8 ŠŠE 1/2 - 1 Mile Higher

Objectid: Permit: B1 seq: City: Zip: Driller id: Use for wa: Drill meth: Wapid: Section: Nearest to: Town direc: Road side: Tax map: Parcel: E grid83: Lon dec de: Special fl: C1 recd: Total dept: Hydrofract: Grout type: Grout bott: Casing dia: Casing hei: Top screen: Screen t 1: Bottom s 1: Top scre 2: Screen dia: Telescopin: Hrs pumped: Level befo: Test pump: Install pu: Pump hp: Closed: Abandon da: 484838 PG943002 2611 FORT WASHINGT 20744 **MWD 523** Т BORED Not Reported Not Reported FORT WASHINGTON Т S 132 А 400636 -76.992688 Not Reported 20031031 20 Ν BC 3 4 Not Reported 5 Not Reported 0 0 4 Not Reported 0 0 Not Reported Not Reported 0 Not Reported 2010 413

Screen t 2: Bottom s 2: Flowing we: Log type: Pumping ra: Level duri: Pump insta: Capacity: Column len: Abandoned: Site id:

Not Reported 0 Not Reported Not Reported 0 0 Not Reported 0 0 Not Reported MD700000534092

MD WELLS MD700000484838

County let: Mgs id: B1 recd: State: Driller na: Est gpm pr: Approx dep: Replacemen: Subdivisio: Lot: Town dista: Road name: Road dista: Block: N grid83: Lat dec de: Issue date: C1 seq: Completion: Num unsucc: Grouted: Grout top: Casing typ: Casing dep: Screen typ: Bottom scr: Top scre 1: Screen t 2: Bottom s 2: Flowing we: Log type: Pumping ra: Level duri: Pump insta: Capacity: Column len: Abandoned: Site id:

PG Not Reported 2003 911 MD GREGG MYERS 0 25 Ν 5350 MW-24 Not Reported OLD FORT RD 86 FT Not Reported 116052 38.712146 2003 9 5 0137 2003 930 0 Υ 0 PL 5 PL 20 0 Not Reported 0 Not Reported Not Reported 0 0 N 0 0 MD700000484838

Map ID Direction Distance				
Elevation			Database	EDR ID Number
C9 SSE 1/2 - 1 Mile Higher			MD WELLS	MD7000000484837
Higher Objectid: Permit: B1 seq: City: Zip: Driller id: Use for wa: Drill meth: Wapid: Section: Nearest to: Town direc: Road side: Tax map: Parcel: E grid83: Lon dec de: Special fl: C1 recd: Total dept: Hydrofract: Grout type: Grout bott: Casing dia: Casing hei: Top screen: Screen t 1: Bottom s 1: Top scre 2: Screen dia: Telescopin: Hrs pumped: Level befo: Test pump:	484837 PG943001 6945 FORT WASHINGT 20744 MWD 523 T BORED Not Reported FORT WASHINGTON T S 132 A 400636 -76.992688 Not Reported 20031031 20 N BC 3 4 Not Reported 5 Not Reported 5 Not Reported 0 0 4 Not Reported 0 0 N Not Reported 0 0 N Not Reported 0 0 N N N N N N N N N N N N N	County let: Mgs id: B1 recd: State: Driller na: Est gpm pr: Approx dep: Replacemen: Subdivisio: Lot: Town dista: Road name: Road dista: Block: N grid83: Lat dec de: Issue date: C1 seq: Completion: Num unsucc: Grout de: Grout top: Casing dep: Screen typ: Bottom scr: Top scre 1: Screen t 2: Bottom s 2: Flowing we: Log type: Pumping ra: Level duri: Pump insta:	PG Not Reporta 2003 911 MD GREGG P 0 25 N 5350 MW-25 Not Reporta 0LD FORT 240 FT Not Reporta 116052 38.712146 2003 9 5 0138 2003 930 0 Y 0 PL 5 PL 20 0 Not Reporta 0 Not Reporta Not Reporta No	MYERS ed ROAD ed ed
Install pu: Pump hp:	Not Reported 0	Capacity: Column len:	0 0	
Closed: Abandon da:	Not Reported 2010 413	Abandoned: Site id:	Y MD700000	0484837

C10 SSE 1/2 - 1 Mile Higher

Objectid: Permit: B1 seq: City: Zip: Driller id: Use for wa: Drill meth: Wapid:

Section:

472857 PG942650 7857 FORT WASHINGT Not Reported MWD 421 T DR-POINT Not Reported Not Reported

County let: Mgs id: B1 recd: State: Driller na: Est gpm pr: Approx dep: Replacemen: Subdivisio: Lot:

Not Reported Not Reported 2003 212 MD STEVE SAUL 0 25 N Not Reported Not Reported

MD WELLS

MD700000472857

Nearest to: Town direc: Road side: Tax map: Parcel: E grid83: Lon dec de: Special fl: C1 recd: Total dept: Hydrofract: Grout type: Grout bott: Casing dia: Casing hei: Top screen: Screen t 1: Bottom s 1: Top scre 2: Screen dia: Telescopin: Hrs pumped: Level befo: Test pump: Install pu: Pump hp: Closed: Abandon da:

FORT WASHINGTON S S 132 Not Reported 400636 -76.992688 Not Reported 2003 5 7 26 Ν Not Reported 0 0 Not Reported 0 Not Reported 0 0 0 Not Reported 0 0 Not Reported Not Reported 0 Not Reported 0

Town dista: Road name: Road dista: Block: N grid83: Lat dec de: Issue date: C1 seq: Completion: Num unsucc: Grouted: Grout top: Casing typ: Casing dep: Screen typ: Bottom scr: Top scre 1: Screen t 2: Bottom s 2: Flowing we: Log type: Pumping ra: Level duri: Pump insta: Capacity: Column len: Abandoned:

Site id:

OLD FORT RD Not Reported Not Reported 116052 38.712146 2003 210 9757 2003 4 2 0 Υ 0 Not Reported 0 Not Reported 0 0 Not Reported 0 Not Reported Not Reported 0 0 Ν 0 0 Not Reported MD700000472857

MD WELLS

MD700000484839

	484839	County let:	PG
	PG943003	Mgs id:	Not Reported
	6950	B1 recd:	2003 911
	FORT WASHINGT	State:	MD
	20744	Driller na:	GREGG P MYERS
	MWD 523	Est gpm pr:	0
a:	Т	Approx dep:	25
	BORED	Replacemen:	N
	Not Reported	Subdivisio:	5350
	Not Reported	Lot:	MW-23
:	FORT WASHINGTON	Town dista:	Not Reported
c:	Т	Road name:	OLD FORT ROAD
:	S	Road dista:	86 FT
	132	Block:	Not Reported
	A	N grid83:	116052
	400636	Lat dec de:	38.712146
e:	-76.992688	Issue date:	2003 9 5
	Not Reported	C1 seq:	0136
	20031031	Completion:	2003 930
	25	Num unsucc:	0
	Ν	Grouted:	Y
:	BC	Grout top:	0
	6	Casing typ:	PL
a:	4	Casing dep:	10
i:	Not Reported	Screen typ:	PL
n:	10	Bottom scr:	25
:	Not Reported	Top scre 1:	0

Objectid:

Permit: B1 seq: City: Zip: Driller id: Use for wa: Drill meth: Wapid: Section: Nearest to: Town direc: Road side: Tax map: Parcel: E grid83: Lon dec de: Special fl: C1 recd: Total dept: Hydrofract: Grout type: Grout bott: Casing dia: Casing hei: Top screen: Screen t 1:

Bottom s 1: Top scre 2: Screen dia: Telescopin: Hrs pumped: Level befo: Test pump: Install pu: Pump hp: Closed: Abandon da:

C12 SSE 1/2 - 1 Mile Higher

Objectid: Permit: B1 seq: City: Zip: Driller id: Use for wa: Drill meth: Wapid: Section: Nearest to: Town direc: Road side: Tax map: Parcel: E grid83: Lon dec de: Special fl: C1 recd: Total dept: Hydrofract: Grout type: Grout bott: Casing dia: Casing hei: Top screen: Screen t 1: Bottom s 1: Top scre 2: Screen dia: Telescopin: Hrs pumped: Level befo: Test pump: Install pu: Pump hp: Closed: Abandon da: 4 Not Reported 0 0 Not Reported Not Reported 0 Not Reported 2010 413

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-76.992688

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СМ

Not Reported

MGD 67

BORED

PG951094

ROCKVILLE

Not Reported

Not Reported

FORT WASHINGTON

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Screen t 2: Bottom s 2: Flowing we: Log type: Pumping ra: Level duri: Pump insta: Capacity: Column len: Abandoned: Site id:

Not Reported 0 Not Reported Not Reported 0 0 Ν 0 0 Y MD700000484839

MD WELLS MD700000518095

County let: Mgs id: B1 recd: State: Driller na: Est gpm pr: Approx dep: Replacemen: Subdivisio: Lot: Town dista: Road name: Road dista: Block: N grid83: Lat dec de: Issue date: C1 seq: Completion: Num unsucc: Grouted: Grout top: Casing typ: Casing dep: Screen typ: Bottom scr: Top scre 1: Screen t 2: Bottom s 2: Flowing we: Log type: Pumping ra: Level duri: Pump insta: Capacity: Column len: Abandoned: Site id:

Not Reported Not Reported 2007 529 MD **R ATKINSON** 0 25 Ν 5350 MW-28 Not Reported 12766 OLD FORT RD 100 FT B4 116052 38.712146 2007 518 5321 2007 618 0 Υ 0 PL 13 PL 33 0 Not Reported 0 Not Reported Not Reported 1 1 Ν 0 0 Not Reported MD700000518095

vistance levation			Database	EDR ID Numbe
13 SE /2 - 1 Mile igher			MD WELLS	MD7000000518094
Objectid:	518094	County let:	Not Reporte	ed
, Permit:	PG951093	Mgs id:	Not Reporte	
B1 seq:	9658	B1 recd:	2007 529	
City:	ROCKVILLE	State:	MD	
Zip:	20852	Driller na:	R ATKINSC)N
Driller id:	MGD 67	Est gpm pr:	0	
Use for wa:	T	Approx dep:	25	
Drill meth:	BORED	Replacemen:	N	
Wapid:	Not Reported	Subdivisio:	5350	
Section:	Not Reported	Lot:	MW-27	
Nearest to:	FORT WASHINGTON	Town dista:	Not Reporte	vd.
Town direc:	T	Road name:	12766 OLD	
Road side:	S	Road dista:	30 FT	FURI RD
	132		B4	
Tax map:	-	Block:		
Parcel:	A2479	N grid83:	116052	
E grid83:	400636	Lat dec de:	38.712146	
Lon dec de:	-76.992688	Issue date:	2007 518	
Special fl:	Not Reported	C1 seq:	5322	
C1 recd:	2007 727	Completion:	2007 615	
Total dept:	32	Num unsucc:	0	
Hydrofract:	Ν	Grouted:	Y	
Grout type:	CM	Grout top:	0	
Grout bott:	7	Casing typ:	PL	
Casing dia:	4	Casing dep:	12	
Casing hei:	Not Reported	Screen typ:	PL	
Top screen:	12	Bottom scr:	32	
Screen t 1:	Not Reported	Top scre 1:	0	
Bottom s 1:	0	Screen t 2:	Not Reporte	ed
Top scre 2:	0	Bottom s 2:	0	
Screen dia:	4	Flowing we:	Not Reporte	ed
Telescopin:	Not Reported	Log type:	Not Reporte	ed
Hrs pumped:	1	Pumping ra:	1	
Level befo:	1	Level duri:	1	
Test pump:	Not Reported	Pump insta:	Ň	
Install pu:	Not Reported	Capacity:	0	
Pump hp:	0	Column len:	0	
Closed:	Not Reported	Abandoned:	Not Reporte	he
Abandon da:	0	Site id:	MD700000	

C14 SSE 1/2 - 1 Mile Higher

> Objectid: Permit: B1 seq: City: Zip: Driller id: Use for wa: Drill meth: Wapid: Section:

518093 PG951092 9658 ROCKVILLE 20852 MGD 67 T BORED Not Reported Not Reported County let: Mgs id: B1 recd: State: Driller na: Est gpm pr: Approx dep: Replacemen: Subdivisio: Lot: Not Reported Not Reported 2007 529 MD R ATKINSON 0 25 N 5350 MW-26

MD WELLS MD700000518093

Nearest to: Town direc: Road side: Tax map: Parcel: E grid83: Lon dec de: Special fl: C1 recd: Total dept: Hydrofract: Grout type: Grout bott: Casing dia: Casing hei: Top screen: Screen t 1: Bottom s 1: Top scre 2: Screen dia: Telescopin: Hrs pumped: Level befo: Test pump: Install pu: Pump hp: Closed: Abandon da: FORT WASHINGTON т S 132 A2479 400636 -76.992688 Not Reported 2007 727 34 Ν СМ 11 4 Not Reported 14 Not Reported 0 0 4 Not Reported 1 1 Not Reported Not Reported 0 Not Reported 0

Town dista: Road name: Road dista: Block: N grid83: Lat dec de: Issue date: C1 seq: Completion: Num unsucc: Grouted: Grout top: Casing typ: Casing dep: Screen typ: Bottom scr: Top scre 1: Screen t 2: Bottom s 2: Flowing we: Log type: Pumping ra: Level duri: Pump insta: Capacity: Column len: Abandoned:

Site id:

Not Reported 12766 OLD FORT RD 25 FT Β4 116052 38.712146 2007 518 5323 2007 618 0 Υ 0 ΡL 14 PL 34 0 Not Reported 0 Not Reported Not Reported 1 1 Ν 0 0 Not Reported MD700000518093

MD WELLS

MD700000457247

457247 County let: PG PG941653 Not Reported Mgs id: B1 recd: 20001024 0802 FT WASHINGTON State: MD 20744 Driller na: TOM CHEW MGD 62 Est gpm pr: 0 Approx dep: 30 Т BORED Replacemen: Ν Not Reported Not Reported Subdivisio: Not Reported Lot: Not Reported SILESIA Town dista: Ν Road name: OLD FT RD S 200 FT Road dista: Not Reported Block: Not Reported Not Reported N grid83: 116052 400636 Lat dec de: 38.712146 -76.992688 Issue date: 0 Υ C1 seq: 8760 20001027 Completion: 2000106 15 Num unsucc: 0 Ν Grouted: Υ 0 СМ Grout top: 3 Casing typ: PL 2 Casing dep: 5 ΡL Not Reported Screen typ: Bottom scr: 15 5 Not Reported Top scre 1: 0

C15 SSE 1/2 - 1 Mile Higher

> Objectid: Permit: B1 seq: City: Zip: Driller id: Use for wa: Drill meth: Wapid: Section: Nearest to: Town direc: Road side: Tax map: Parcel: E grid83: Lon dec de: Special fl: C1 recd: Total dept: Hydrofract: Grout type: Grout bott: Casing dia: Casing hei: Top screen: Screen t 1:

Bottom s 1: Top scre 2: Screen dia: Telescopin: Hrs pumped: Level befo: Test pump: Install pu: Pump hp: Closed: Abandon da: 0

0

2

1

1

0

0

Not Reported

Not Reported

Not Reported

Not Reported

C16 SSE 1/2 - 1 M

1/2 - 1 Mile Higher

Objectid: Permit: B1 seq: City: Zip: Driller id: Use for wa: Drill meth: Wapid: Section: Nearest to: Town direc: Road side: Tax map: Parcel: E grid83: Lon dec de: Special fl: C1 recd: Total dept: Hydrofract: Grout type: Grout bott: Casing dia: Casing hei: Top screen: Screen t 1: Bottom s 1: Top scre 2: Screen dia: Telescopin: Hrs pumped: Level befo: Test pump: Install pu: Pump hp: Closed: Abandon da:

457233 PG941656 0886 FORT WASHINGO 20744 MGD 62 Т AIR-ROT Not Reported Not Reported SILESIA Т S Not Reported Not Reported 400636 -76.992688 Υ 20001027 27 Ν СМ 23 2 Not Reported 25 Not Reported 0 0 2 Not Reported 1 1 Not Reported Not Reported 0 Not Reported 0

Screen t 2: Bottom s 2: Flowing we: Log type: Pumping ra: Level duri: Pump insta: Capacity: Column len: Abandoned: Site id: Not Reported 0 Not Reported 1 1 N 0 0 Not Reported MD700000457247

MD WELLS MD700000457233

County let: Mgs id: B1 recd: State: Driller na: Est gpm pr: Approx dep: Replacemen: Subdivisio: Lot: Town dista: Road name: Road dista: Block: N grid83: Lat dec de: Issue date: C1 seq: Completion: Num unsucc: Grouted: Grout top: Casing typ: Casing dep: Screen typ: Bottom scr: Top scre 1: Screen t 2: Bottom s 2: Flowing we: Log type: Pumping ra: Level duri: Pump insta: Capacity: Column len: Abandoned: Site id:

PG Not Reported 20001024 MD TOM CHEW 0 30 Ν Not Reported Not Reported Not Reported OLD FT RD 100 FT Not Reported 116052 38.712146 0 8763 200010 9 0 Υ 0 PL 25 PL 27 0 Not Reported 0 Not Reported Not Reported 1 1 Ν 0 0 Not Reported MD700000457233

istance levation			Database	EDR ID Numbe
17 SE 2 - 1 Mile igher			MD WELLS	MD700000047282
Objectid:	472821	County let:	Not Reporte	d
Permit:	PG942654	Mgs id:	Not Reporte	
B1 seq:	7853	B1 recd:	2003 212	
City:	FORT WASHINGT	State:	MD	
Zip:	Not Reported	Driller na:	STEVE SAU	JI
Driller id:	MWD 421	Est gpm pr:	0	-
Use for wa:	T	Approx dep:	25	
Drill meth:	DR-POINT	Replacemen:	N	
Wapid:	Not Reported	Subdivisio:	Not Reporte	h
Section:	Not Reported	Lot:	Not Reporte	
Nearest to:	FORT WASHINGTON	Town dista:	1	,u
Town direc:	S	Road name:	OLD FORT	PD
Road side:	S	Road dista:	190 FT	ΝD
Tax map:	132	Block:	Not Reporte	d
Parcel:	Not Reported	N grid83:	116052	iu i
E grid83:	400636	Lat dec de:	38.712146	
Lon dec de:	-76.992688	Issue date:		
			2003 210	
Special fl:	Not Reported	C1 seq:	7343	
C1 recd:	2003 5 7	Completion:	2003 4 4	
Total dept:	18	Num unsucc:	0	
Hydrofract:	N	Grouted:	Y	
Grout type:	BC	Grout top:	0	
Grout bott:	6	Casing typ:	PL	
Casing dia:	4	Casing dep:	8	
Casing hei:	Not Reported	Screen typ:	PL	
Top screen:	8	Bottom scr:	18	
Screen t 1:	Not Reported	Top scre 1:	0	
Bottom s 1:	0	Screen t 2:	Not Reporte	ed
Top scre 2:	0	Bottom s 2:	0	
Screen dia:	4	Flowing we:	Not Reporte	
Telescopin:	Not Reported	Log type:	Not Reporte	ed
Hrs pumped:	0	Pumping ra:	0	
Level befo:	0	Level duri:	0	
Test pump:	Not Reported	Pump insta:	N	
Install pu:	Not Reported	Capacity:	0	
Pump hp:	0	Column len:	0	
Closed:	Not Reported	Abandoned:	Not Reporte	ed
Abandon da:	0	Site id:	MD700000	472821

C18 SSE 1/2 - 1 Mile Higher

Objectid: Permit: B1 seq: City: Zip: Driller id: Use for wa: Drill meth: Wapid: Section:

472820 PG942653 7854 FORT WASHINGT Not Reported MWD 421 T DR-POINT Not Reported Not Reported

County let: Mgs id: B1 recd: State: Driller na: Est gpm pr: Approx dep: Replacemen: Subdivisio: Lot:

Not Reported Not Reported 2003 212 MD STEVE SAUL 0 25 N Not Reported Not Reported

MD WELLS MD700000472820

Nearest to: Town direc: Road side: Tax map: Parcel: E grid83: Lon dec de: Special fl: C1 recd: Total dept: Hydrofract: Grout type: Grout bott: Casing dia: Casing hei: Top screen: Screen t 1: Bottom s 1: Top scre 2: Screen dia: Telescopin: Hrs pumped: Level befo: Test pump: Install pu: Pump hp: Closed: Abandon da: FORT WASHINGTON S S 132 Not Reported 400636 -76.992688 Not Reported 2003 5 7 21 Ν BC 9 1 Not Reported 11 Not Reported 0 0 1 Not Reported 0 0 Not Reported Not Reported 0 Not Reported 0

Town dista: Road name: Road dista: Block: N grid83: Lat dec de: Issue date: C1 seq: Completion: Num unsucc: Grouted: Grout top: Casing typ: Casing dep: Screen typ: Bottom scr: Top scre 1: Screen t 2: Bottom s 2: Flowing we: Log type: Pumping ra: Level duri: Pump insta: Capacity: Column len: Abandoned:

Site id:

County let:

Mgs id: B1 recd:

State:

Driller na:

Est gpm pr:

Approx dep:

Subdivisio:

Town dista:

Road name:

Road dista:

Lat dec de:

Issue date:

Completion:

Num unsucc:

C1 seq:

Grouted:

Grout top:

Casing typ:

Casing dep:

Screen typ:

Bottom scr:

Top scre 1:

Lot:

Block:

N grid83:

Replacemen:

OLD FORT RD 190 FT Not Reported 116052 38.712146 2003 210 9755 2003 4 1 0 Υ 0 ΡL 11 PL 21 0 Not Reported 0 Not Reported Not Reported 0 0 Ν 0 0 Not Reported MD700000472820

MD WELLS

MD700000457249

PG MD 0 30 Ν 0 8762 0 Υ 0 PL 20 PL 22 0

TC5901609.29s Page A-22

C19 SSE 1/2 - 1 Mile Higher

> Objectid: Permit: B1 seq: City: Zip: Driller id: Use for wa: Drill meth: Wapid: Section: Nearest to: Town direc: Road side: Tax map: Parcel: E grid83: Lon dec de: Special fl: C1 recd: Total dept: Hydrofract: Grout type: Grout bott: Casing dia: Casing hei: Top screen: Screen t 1:

PG941655 0887 FT WASH 20744 MGD 62 Т BORED Not Reported Not Reported SILESIA Ν S Not Reported Not Reported 400636 -76.992688 Υ 20001027 22 Ν СМ 18 2 Not Reported

20

Not Reported

457249

Not Reported 20001024 TOM CHEW Not Reported Not Reported OLD FT RD 100 FT Not Reported 116052 38.712146 200010 9

Bottom s 1: Top scre 2: Screen dia: Telescopin: Hrs pumped: Level befo: Test pump: Install pu: Pump hp: Closed: Abandon da:

C20 SSE 1/2 - 1 I

1/2 - 1 Mile Higher

Objectid: Permit: B1 seq: City: Zip: Driller id: Use for wa: Drill meth: Wapid: Section: Nearest to: Town direc: Road side: Tax map: Parcel: E grid83: Lon dec de: Special fl: C1 recd: Total dept: Hydrofract: Grout type: Grout bott: Casing dia: Casing hei: Top screen: Screen t 1: Bottom s 1: Top scre 2: Screen dia: Telescopin: Hrs pumped: Level befo: Test pump: Install pu: Pump hp: Closed: Abandon da:

1 Not Reported Not Reported 0 Not Reported 0 457248 PG941654 0888 FT WASHINGTON 20744 MGD 62 Т BORED Not Reported Not Reported

SILESIA

400636

Not Reported

Not Reported

-76.992688

20001027

Not Reported

Not Reported

Not Reported

Not Reported

Not Reported

Not Reported

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17

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СМ

13

15

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2

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0

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2

0

0

2

1

Not Reported

Screen t 2: Bottom s 2: Flowing we: Log type: Pumping ra: Level duri: Pump insta: Capacity: Column len: Abandoned: Site id: Not Reported 0 Not Reported 1 1 N 0 0 Not Reported MD700000457249

MD WELLS MD700000457248

County let: Mgs id: B1 recd: State: Driller na: Est gpm pr: Approx dep: Replacemen: Subdivisio: Lot: Town dista: Road name: Road dista: Block: N grid83: Lat dec de: Issue date: C1 seq: Completion: Num unsucc: Grouted: Grout top: Casing typ: Casing dep: Screen typ: Bottom scr: Top scre 1: Screen t 2: Bottom s 2: Flowing we: Log type: Pumping ra: Level duri: Pump insta: Capacity: Column len: Abandoned: Site id:

PG Not Reported 20001024 MD TOM CHEW 0 40 Ν Not Reported Not Reported OLD FT RD 200 FT Not Reported 116052 38.712146 0 8761 2000106 0 Υ 0 PL 15 PL 17 0 Not Reported 0 Not Reported Not Reported 1 1 Ν 0 0 Not Reported MD700000457248

istance levation			Database	EDR ID Numbe
21 SE 2 - 1 Mile igher			MD WELLS	MD70000047282
Objectid:	472825	County let:	Not Reporte	ad
Permit:	PG942658	Mgs id:	Not Reporte	
B1 seg:	7842	B1 recd:	2003 212	
City:	FORT WASHINGT	State:	MD	
Zip:	Not Reported	Driller na:	STEVE SAU	П
Driller id:	MWD 421	Est gpm pr:	0	JL
Use for wa:	T	Approx dep:	25	
Drill meth:	BORED	Replacemen:	N N	
	-	Subdivisio:		. d
Wapid:	Not Reported		Not Reporte	
Section:	Not Reported	Lot:	Not Reporte	a
Nearest to:	FORT WASHINGTON	Town dista:	1	DD
Town direc:	S	Road name:		RD
Road side:	S	Road dista:	70 FT	
Tax map:	132	Block:	Not Reporte	bd
Parcel:	Not Reported	N grid83:	116052	
E grid83:	400636	Lat dec de:	38.712146	
Lon dec de:	-76.992688	Issue date:	2003 210	
Special fl:	Not Reported	C1 seq:	9758	
C1 recd:	2003 5 7	Completion:	2003 4 2	
Total dept:	25	Num unsucc:	0	
Hydrofract:	Ν	Grouted:	Y	
Grout type:	BC	Grout top:	0	
Grout bott:	8	Casing typ:	PL	
Casing dia:	4	Casing dep:	10	
Casing hei:	Not Reported	Screen typ:	PL	
Top screen:	10	Bottom scr:	25	
Screen t 1:	Not Reported	Top scre 1:	0	
Bottom s 1:	0	Screen t 2:	Not Reporte	ed
Top scre 2:	0	Bottom s 2:	0	
Screen dia:	4	Flowing we:	Not Reporte	ed
Telescopin:	Not Reported	Log type:	Not Reporte	ed
Hrs pumped:	0	Pumping ra:	0	
Level befo:	0	Level duri:	0	
Test pump:	Not Reported	Pump insta:	Ν	
Install pu:	Not Reported	Capacity:	0	
Pump hp:	0	Column len:	0	
Closed:	Not Reported	Abandoned:	Not Reporte	ed
Abandon da:	0	Site id:	MD7000000	

C22 SSE 1/2 - 1 Mile Higher

> Objectid: Permit: B1 seq: City: Zip: Driller id: Use for wa: Drill meth: Wapid: Section:

472838 PG942651 7856 FORT WASHINGT Not Reported MWD 421 T DR-POINT Not Reported Not Reported

County let: Mgs id: B1 recd: State: Driller na: Est gpm pr: Approx dep: Replacemen: Subdivisio: Lot:

Not Reported Not Reported 2003 212 MD STEVE SAUL 0 25 N Not Reported Not Reported

MD700000472838

MD WELLS

Nearest to: Town direc: Road side: Tax map: Parcel: E grid83: Lon dec de: Special fl: C1 recd: Total dept: Hydrofract: Grout type: Grout bott: Casing dia: Casing hei: Top screen: Screen t 1: Bottom s 1: Top scre 2: Screen dia: Telescopin: Hrs pumped: Level befo: Test pump: Install pu: Pump hp: Closed: Abandon da: FORT WASHINGTON S S 132 Not Reported 400636 -76.992688 Not Reported 2003 5 7 22 Ν BC 10 1 Not Reported 12 Not Reported 0 0 1 Not Reported 0 0 Not Reported Not Reported 0 Not Reported 0

Town dista: Road name: Road dista: Block: N grid83: Lat dec de: Issue date: C1 seq: Completion: Num unsucc: Grouted: Grout top: Casing typ: Casing dep: Screen typ: Bottom scr: Top scre 1: Screen t 2: Bottom s 2: Flowing we: Log type: Pumping ra: Level duri: Pump insta: Capacity: Column len: Abandoned: Site id:

County let:

Mgs id: B1 recd:

State:

Driller na:

Est gpm pr:

Approx dep:

Replacemen:

Subdivisio:

Town dista:

Road name:

Road dista:

Lot:

Block:

N grid83:

C1 seq:

Grouted:

Grout top:

Casing typ:

Casing dep:

Screen typ:

Bottom scr:

Top scre 1:

Lat dec de:

Issue date:

Completion:

Num unsucc:

OLD FORT RD 70 FT Not Reported 116052 38.712146 2003 210 9753 2003 331 0 Υ 0 ΡL 12 PL 22 0 Not Reported 0 Not Reported Not Reported 0 0 Ν 0 0 Not Reported MD700000472838

MD WELLS

MD700000472839

Not Reported Not Reported 2003 212 MD STEVE SAUL 0 25 Ν Not Reported Not Reported OLD FORT RD 160 FT Not Reported 116052 38.712146 2003 210 9756 2003 4 2 0 Υ 0 PL 10 PL 20 0

C23 SSE 1/2 - 1 Mile Higher

Objectid: Permit: B1 seq: City: Zip: Driller id: Use for wa: Drill meth: Wapid: Section: Nearest to: Town direc: Road side: Tax map: Parcel: E grid83: Lon dec de: Special fl: C1 recd: Total dept: Hydrofract: Grout type: Grout bott: Casing dia: Casing hei: Top screen: Screen t 1:

PG942652 7855 FORT WASHINGT Not Reported MWD 421 Т **DR-POINT** Not Reported Not Reported FORT WASHINGTON S S 132 Not Reported 400636 -76.992688 Not Reported 2003 5 7 20 Ν BC 8 1 Not Reported 10 Not Reported

472839

Bottom s 1: Top scre 2: Screen dia: Telescopin: Hrs pumped: Level befo: Test pump: Install pu: Pump hp: Closed: Abandon da: 0

0

1

0

0

0

0

Not Reported

Not Reported

Not Reported

Not Reported

C24 SSE 1/2 - 1 |

1/2 - 1 Mile Higher

Objectid: Permit: B1 seq: City: Zip: Driller id: Use for wa: Drill meth: Wapid: Section: Nearest to: Town direc: Road side: Tax map: Parcel: E grid83: Lon dec de: Special fl: C1 recd: Total dept: Hydrofract: Grout type: Grout bott: Casing dia: Casing hei: Top screen: Screen t 1: Bottom s 1: Top scre 2: Screen dia: Telescopin: Hrs pumped: Level befo: Test pump: Install pu: Pump hp: Closed: Abandon da: 472822 PG942655 7852 FORT WASHINGT Not Reported MWD 421 Т BORED Not Reported Not Reported FORT WASHINGTON S S 132 Not Reported 400636 -76.992688 Not Reported 2003 5 7 28 Ν BC 8 4 Not Reported 10 Not Reported 0 0 4 Not Reported 0 0 Not Reported Not Reported 0 Not Reported 0

Screen t 2: Bottom s 2: Flowing we: Log type: Pumping ra: Level duri: Pump insta: Capacity: Column len: Abandoned: Site id: Not Reported 0 Not Reported 0 0 N 0 0 Not Reported MD700000472839

MD WELLS MD700000472822

County let: Mgs id: B1 recd: State: Driller na: Est gpm pr: Approx dep: Replacemen: Subdivisio: Lot: Town dista: Road name: Road dista: Block: N grid83: Lat dec de: Issue date: C1 seq: Completion: Num unsucc: Grouted: Grout top: Casing typ: Casing dep: Screen typ: Bottom scr: Top scre 1: Screen t 2: Bottom s 2: Flowing we: Log type: Pumping ra: Level duri: Pump insta: Capacity: Column len: Abandoned: Site id:

Not Reported Not Reported 2003 212 MD STEVE SAUL 0 25 Ν Not Reported MW19 OLD FORT RD 20 FT Not Reported 116052 38.712146 2003 210 9760 2003 4 3 0 Υ 0 PL 10 PL 28 0 Not Reported 0 Not Reported Not Reported 0 0 Ν 0 0 Not Reported

MD700000472822

Map ID				
Direction				
Distance				
Elevation			Database	EDR ID Number
C25 SSE 1/2 - 1 Mile Higher			MD WELLS	MD7000000472823
C				
Objectid:	472823	County let:	Not Reporte	
Permit:	PG942656	Mgs id:	Not Reporte	ed
B1 seq:	7851	B1 recd:	2003 212	
City:	FORT WASHINGT	State:	MD	
Zip:	Not Reported	Driller na:	STEVE SA	JL
Driller id:	MWD 421	Est gpm pr:	0	
Use for wa:	T	Approx dep:	25	
Drill meth:	BORED	Replacemen:	N	
Wapid:	Not Reported	Subdivisio:	Not Reporte	ed
Section:	Not Reported	Lot:	MW18	
Nearest to:	FORT WASHINGTON	Town dista:	1	
Town direc:	S	Road name:	OLD FORT	RD
Road side:	S	Road dista:	70 FT	
Tax map:	132	Block:	Not Reporte	ed
Parcel:	Not Reported	N grid83:	116052	
E grid83:	400636	Lat dec de:	38.712146	
Lon dec de:	-76.992688	Issue date:	2003 210	
Special fl:	Not Reported	C1 seq:	9759	
C1 recd:	2003 5 7	Completion:	2003 4 3	
Total dept:	27	Num unsucc:	0	
Hydrofract:	N	Grouted:	Y	
Grout type:	BC	Grout top:	0	
Grout bott:	8	Casing typ:	PL	
Casing dia:	4	Casing dep:	10	
Casing hei:	Not Reported	Screen typ:	PL	
Top screen:	10	Bottom scr:	27	
Screen t 1:	Not Reported	Top scre 1:	0	1
Bottom s 1:	0	Screen t 2:	Not Reporte	bd
Top scre 2:	0	Bottom s 2:	0	
Screen dia:	4 Not Demonto d	Flowing we:	Not Reporte	
Telescopin:	Not Reported	Log type:	Not Reporte	ed
Hrs pumped:	0	Pumping ra:	0	
Level befo:	0	Level duri:	0	
Test pump:	Not Reported	Pump insta:	N	
Install pu:	Not Reported	Capacity:	0	
Pump hp:	0 Nat Danasta d	Column len:	0	1
Closed:	Not Reported	Abandoned:	Not Reporte	
Abandon da:	0	Site id:	MD700000	0472823

C26 SSE 1/2 - 1 Mile Higher

Objectid: Permit: B1 seq:

B1 seq: City: Zip: Driller id: Use for wa: Drill meth: Wapid: Section:

472824 PG942657 7850 FORT WASHINGT Not Reported MWD 421 T BORED Not Reported Not Reported

County let: Mgs id: B1 recd: State: Driller na: Est gpm pr: Approx dep: Replacemen: Subdivisio: Lot: Not Reported Not Reported 2003 212 MD STEVE SAUL 0 25 N Not Reported Not Reported

MD WELLS

MD700000472824

Nearest to: Town direc: Road side: Tax map: Parcel: E grid83: Lon dec de: Special fl: C1 recd: Total dept: Hydrofract: Grout type: Grout bott: Casing dia: Casing hei: Top screen: Screen t 1: Bottom s 1: Top scre 2: Screen dia: Telescopin: Hrs pumped: Level befo: Test pump: Install pu: Pump hp: Closed: Abandon da:

FORT WASHINGTON S S 132 Not Reported 400636 -76.992688 Not Reported 2003 5 7 20 Ν BC 3 4 Not Reported 5 Not Reported 0 0 4 Not Reported 0 0 Not Reported Not Reported 0 Not Reported 0

Town dista: Road name: Road dista: Block: N grid83: Lat dec de: Issue date: C1 seq: Completion: Num unsucc: Grouted: Grout top: Casing typ: Casing dep: Screen typ: Bottom scr: Top scre 1: Screen t 2: Bottom s 2: Flowing we: Log type: Pumping ra: Level duri: Pump insta: Capacity: Column len: Abandoned: Site id:

1 OLD FORT RD 210 FT Not Reported 116052 38.712146 2003 210 9761 2003 4 4 0 Y 0 PL 5 PL 20 0 Not Reported 0 Not Reported Not Reported 0 0 Ν 0 0 Not Reported MD700000472824

MD WELLS

MD700000257906

Objectid:	257906	County let:	PG
Permit:	PG880470	Mgs id:	Not Reported
B1 seq:	7652	B1 recd:	1989 724
City:	FT WASHINGTON	State:	MD
•	20022	Driller na:	MICHAEL W. HUBER
Zip: Driller id:	20022 MWD0336		
		Est gpm pr:	0
Use for wa:	T	Approx dep:	15
Drill meth:	BORED	Replacemen:	N
Wapid:	Not Reported	Subdivisio:	Not Reported
Section:	Not Reported	Lot:	Not Reported
Nearest to:	FORT WASHINGTON	Town dista:	0
Town direc:	Т	Road name:	WEST TANTALLON DR
Road side:	Ν	Road dista:	400 FT
Tax map:	Not Reported	Block:	Not Reported
Parcel:	Not Reported	N grid83:	116357
E grid83:	398807	Lat dec de:	38.714891
Lon dec de:	-77.013716	Issue date:	1989 717
Special fl:	Ν	C1 seq:	9653
C1 recd:	1989 926	Completion:	1989 725
Total dept:	14	Num unsucc:	0
Hydrofract:	Not Reported	Grouted:	Y
Grout type:	CM	Grout top:	0
Grout bott:	3	Casing typ:	PL
Casing dia:	4	Casing dep:	5
Casing hei:	+	Screen typ:	PL
Top screen:	5	Bottom scr:	14
Screen t 1:	Not Reported	Top scre 1:	0
	•	•	

Bottom s 1: Top scre 2: Screen dia: Telescopin: Hrs pumped: Level befo: Test pump: Install pu: Pump hp: Closed: Abandon da: 0

0

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0

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Not Reported

Not Reported

D28 SW

1/2 - 1 Mile Lower

Objectid: Permit: B1 seq: City: Zip: Driller id: Use for wa: Drill meth: Wapid: Section: Nearest to: Town direc: Road side: Tax map: Parcel: E grid83: Lon dec de: Special fl: C1 recd: Total dept: Hydrofract: Grout type: Grout bott: Casing dia: Casing hei: Top screen: Screen t 1: Bottom s 1: Top scre 2: Screen dia: Telescopin: Hrs pumped: Level befo: Test pump: Install pu: Pump hp: Closed: Abandon da:

257907 PG880471 7654 FT WASHINGTON 20022 MWD0336 Т BORED Not Reported Not Reported FORT WASHINGTON Т Ν Not Reported Not Reported 398807 -77.013716 Ν 1989 925 14 Not Reported СМ 3 4 + 4 Not Reported 0 0 4 Not Reported 1 1 0 0 0 Not Reported 0

Screen t 2: Bottom s 2: Flowing we: Log type: Pumping ra: Level duri: Pump insta: Capacity: Column len: Abandoned: Site id: Not Reported 0 Not Reported 1 1 N 0 0 Not Reported MD700000257906

MD WELLS MD700000257907

County let: Mgs id: B1 recd: State: Driller na: Est gpm pr: Approx dep: Replacemen: Subdivisio: Lot: Town dista: Road name: Road dista: Block: N grid83: Lat dec de: Issue date: C1 seq: Completion: Num unsucc: Grouted: Grout top: Casing typ: Casing dep: Screen typ: Bottom scr: Top scre 1: Screen t 2: Bottom s 2: Flowing we: Log type: Pumping ra: Level duri: Pump insta: Capacity: Column len: Abandoned: Site id:

PG Not Reported 1989 724 MD MICHAEL W. HUBER 0 15 Ν Not Reported Not Reported 0 WEST TANTALLON DR 350 FT Not Reported 116357 38.714891 1989 717 9654 1989 726 0 Υ 0 PL 4 PL 14 0 Not Reported 0 Not Reported Not Reported 1 1 Ν 0 0 Not Reported MD700000257907

istance levation			Database	EDR ID Numbe
29 W /2 - 1 Mile ower			MD WELLS	MD70000025790
Objectid:	257908	County let:	PG	
Permit:	PG880472	Mgs id:	Not Reporte	ed
B1 seq:	7657	B1 recd:	1989 724	
City:	FT WASHINGTON	State:	MD	
Zip:	20022	Driller na:	MICHAEL V	V. HUBER
Driller id:	MWD0336	Est gpm pr:	0	
Use for wa:	Т	Approx dep:	15	
Drill meth:	BORED	Replacemen:	Ν	
Wapid:	Not Reported	Subdivisio:	Not Reporte	ed
Section:	Not Reported	Lot:	Not Reporte	
Nearest to:	FORT WASHINGTON	Town dista:	0	-
Town direc:	Т	Road name:	WEST TAN	TALLON DR
Road side:	Ň	Road dista:	370 FT	
Tax map:	Not Reported	Block:	Not Reporte	h
Parcel:	Not Reported	N grid83:	116357	
E grid83:	398807	Lat dec de:	38.714891	
Lon dec de:	-77.013716	Issue date:	1989 717	
Special fl:	N	C1 seq:	9655	
C1 recd:	1989 925	Completion:	1989 727	
Total dept:	14	Num unsucc:	0	
Hydrofract:	Not Reported	Grouted:	Ŷ	
Grout type:	CM	Grout top:	0	
Grout bott:	2	Casing typ:	PL	
Casing dia:	4	Casing dep:	4	
Casing hei:	+	Screen typ:	PL	
Top screen:	4	Bottom scr:	14	
Screen t 1:	Not Reported	Top scre 1:	0	
Bottom s 1:	0	Screen t 2:	Not Reporte	ad .
Top scre 2:	0	Bottom s 2:		,u
Screen dia:	4	Flowing we:	Not Reporte	, d
Telescopin:	4 Not Reported	Log type:	Not Reporte	
	1	0 11	1	u
Hrs pumped: Level befo:		Pumping ra: Level duri:		
	1 O		1 N	
Test pump:	0	Pump insta:	0	
Install pu:	-	Capacity:		
Pump hp:	0 Not Reported	Column len:	0 Not Roporte	, d
Closed:	Not Reported	Abandoned:	Not Reporte	
Abandon da:	0	Site id:	MD700000	0257908

E30 ESE 1/2 - 1 Mile Higher

Objectid: Permit: B1 seq: City: Zip: Driller id: Use for wa: Drill meth: Wapid: Section:

PG882275 5840 WALDORF 20601 MWD379 Т BORED Not Reported Not Reported

342172

County let: Mgs id: B1 recd: State: Driller na: Est gpm pr: Approx dep: Replacemen: Subdivisio: Lot:

PG Not Reported 1992 313 MD PATRICK MIRFIELD 0 30 Ν Not Reported Not Reported

MD700000342172

MD WELLS

Nearest to: Town direc: Road side: Tax map: Parcel: E grid83: Lon dec de: Special fl: C1 recd: Total dept: Hydrofract: Grout type: Grout bott: Casing dia: Casing hei: Top screen: Screen t 1: Bottom s 1: Top scre 2: Screen dia: Telescopin: Hrs pumped: Level befo: Test pump: Install pu: Pump hp: Closed: Abandon da: CHAPEL HILL Т Е Not Reported Not Reported 401246 -76.985678 Not Reported 0 0 Not Reported Not Reported 0 0 Not Reported 0 Not Reported 0 0 0 Not Reported 0 0 Not Reported Not Reported 0 Not Reported 1996104

Town dista: Road name: Road dista: Block: N grid83: Lat dec de: Issue date: C1 seq: Completion: Num unsucc: Grouted: Grout top: Casing typ: Casing dep: Screen typ: Bottom scr: Top scre 1: Screen t 2: Bottom s 2: Flowing we: Log type: Pumping ra: Level duri: Pump insta: Capacity: Column len: Abandoned:

Site id:

County let:

Mgs id: B1 recd:

State:

Driller na:

Est gpm pr:

Approx dep:

Subdivisio:

Town dista: Road name:

Road dista:

Lot:

Block:

N grid83:

Lat dec de:

Issue date:

Completion:

Num unsucc:

C1 seq:

Grouted:

Grout top:

Casing typ:

Casing dep:

Screen typ:

Bottom scr:

Top scre 1:

Replacemen:

0 LIVINGSTON RD 5 FT Not Reported 116662 38.717637 1992 320 Not Reported 0 0 Not Reported 0 Not Reported 0 Not Reported 0 0 Not Reported 0 Not Reported Not Reported 0 0 Not Reported 0 0 Υ MD700000342172

MD WELLS

MD700000342171

PG Not Reported 1992 313 MD PATRICK MIRFIELD 0 30 Ν Not Reported Not Reported LIVINGSTON RD 35 FT Not Reported 116662 38.717637 1992 320 Not Reported 0 0 Not Reported Ω Not Reported 0 Not Reported 0 0

E31 ESE 1/2 - 1 Mile Higher

Objectid: Permit: B1 seq: City: Zip: Driller id: Use for wa: Drill meth: Wapid: Section: Nearest to: Town direc: Road side: Tax map: Parcel: E grid83: Lon dec de: Special fl: C1 recd: Total dept: Hydrofract: Grout type: Grout bott: Casing dia: Casing hei: Top screen: Screen t 1:

PG882273 5839 WALDORF 20601 **MWD379** Т BORED Not Reported Not Reported CHAPEL HILL Т Е Not Reported Not Reported 401246 -76.985678 Not Reported 0 0 Not Reported Not Reported 0 0 Not Reported 0 Not Reported

342171

Bottom s 1: Top scre 2: Screen dia: Telescopin: Hrs pumped: Level befo: Test pump: Install pu: Pump hp: Closed: Abandon da:

E32 ESE 1/2 - 1 N

1/2 - 1 Mile Higher

Objectid: Permit: B1 seq: City: Zip: Driller id: Use for wa: Drill meth: Wapid: Section: Nearest to: Town direc: Road side: Tax map: Parcel: E grid83: Lon dec de: Special fl: C1 recd: Total dept: Hydrofract: Grout type: Grout bott: Casing dia: Casing hei: Top screen: Screen t 1: Bottom s 1: Top scre 2: Screen dia: Telescopin: Hrs pumped: Level befo: Test pump: Install pu: Pump hp: Closed: Abandon da: 0 0 Not Reported 0 Not Reported Not Reported 0 Not Reported 199610 4

348496

5814

20601

Т

Т

Е

Ν

30

BC

18

-01

20

0

0

4

0

25

0

0

4

PG882184

WALDORF

MWD0379

Not Reported

Not Reported

CHAPEL HILL

Not Reported

Not Reported

-76.985678

Not Reported

Not Reported

Not Reported

Not Reported

Not Reported

Not Reported

401246

1992 4 1

BORED

0

Screen t 2: Bottom s 2: Flowing we: Log type: Pumping ra: Level duri: Pump insta: Capacity: Column len: Abandoned: Site id: Not Reported 0 Not Reported 0 0 Not Reported 0 0 Y MD7000000342171

MD WELLS MD700000348496

County let: Mgs id: B1 recd: State: Driller na: Est gpm pr: Approx dep: Replacemen: Subdivisio: Lot: Town dista: Road name: Road dista: Block: N grid83: Lat dec de: Issue date: C1 seq: Completion: Num unsucc: Grouted: Grout top: Casing typ: Casing dep: Screen typ: Bottom scr: Top scre 1: Screen t 2: Bottom s 2: Flowing we: Log type: Pumping ra: Level duri: Pump insta: Capacity: Column len: Abandoned: Site id:

PG Not Reported 19911224 MD PAT MIRFIELD 0 40 Ν Not Reported Not Reported 0 LIVINGSTON ROAD 15 FT Not Reported 116662 38.717637 1992 1 3 6288 1992 217 0 Υ 1 PL 20 PL 30 0 Not Reported 0 Not Reported Not Reported 0 0 Ν 0 0 Not Reported MD700000348496

istance levation			Database	EDR ID Numbe
33 SE /2 - 1 Mile			MD WELLS	MD70000034856
igher				
Objectid:	348567	County let:	PG	
Permit:	PG882274	Mgs id:	Not Reporte	d
B1 seq:	5841	B1 recd:	1992 313	
City:	WALDORF	State:	MD	
Zip:	20601	Driller na:	PAT MIRFIE	LD
Driller id:	MWD0379	Est gpm pr:	0	
Use for wa:	Т	Approx dep:	30	
Drill meth:	BORED	Replacemen:	Ν	
Wapid:	Not Reported	Subdivisio:	Not Reporte	d
Section:	Not Reported	Lot:	Not Reporte	
Nearest to:	CHAPEL HILL	Town dista:	0	
Town direc:	T	Road name:	LIVINGSTO	N RD.
Road side:	E	Road dista:	15 FT	
Tax map:	Not Reported	Block:	Not Reporte	d
Parcel:	Not Reported	N grid83:	116662	
E grid83:	401246	Lat dec de:	38.717637	
Lon dec de:	-76.985678	Issue date:	1992 320	
Special fl:	N	C1 seq:	6182	
C1 recd:	1992 4 1	Completion:	1992 217	
Total dept:	30	Num unsucc:	0	
Hydrofract:	Not Reported	Grouted:	Ŷ	
Grout type:	BC	Grout top:	1	
Grout bott:	18	Casing typ:	PL	
Casing dia:	4	Casing typ:	20	
Casing hei:	-1	Screen typ:	PL	
Top screen:	20	Bottom scr:	30	
Screen t 1:	Not Reported	Top scre 1:	0	
Bottom s 1:	0	Screen t 2:	Not Reporte	d
Top scre 2:	0	Bottom s 2:		u
Screen dia:	4		-	d
		Flowing we:	Not Reporte	
Telescopin:	Not Reported 0	Log type:	Not Reporte	a
Hrs pumped:	-	Pumping ra:	0	
Level befo:	25 Not Departed	Level duri:	0	
Test pump:	Not Reported	Pump insta:	N	
Install pu:	Not Reported	Capacity:	0	
Pump hp:	0	Column len:	0	
Closed:	Not Reported	Abandoned:	Not Reporte	
Abandon da:	0	Site id:	MD700000	348567

E34 ESE 1/2 - 1 Mile Higher

> Objectid: Permit: B1 seq: City: Zip: Driller id: Use for wa: Drill meth: Wapid: Section:

PG882214 5898 WALDORF 20601 MWD0379 T BORED Not Reported Not Reported

348523

County let: Mgs id: B1 recd: State: Driller na: Est gpm pr: Approx dep: Replacemen: Subdivisio:

Lot:

PG Not Reported 1992 124 MD PAT MIRFIELD 0 40 N Not Reported Not Reported

MD700000348523

MD WELLS

Nearest to:	CHAPEL HILL		Town dista:	0		
Town direc:	Т		Road name:	LIVINGSTO	ON ROAD	
Road side:	E		Road dista:	70 FT		
Tax map:	arcel: Not Reported		Block:	Not Reported 116662 38.717637		
Parcel:			N grid83: Lat dec de:			
E grid83:						
5		Issue date:	1992 2 5			
	Lon dec de: -76.985678					
Special fl:	Y		C1 seq:	8980		
C1 recd:	1992 4 1		Completion:	1992 214		
Total dept:	40		Num unsucc:	0		
Hydrofract:	Not Reported		Grouted:	Y 1 PL		
Grout type:	BC		Grout top:			
Grout bott:	30		Casing typ:			
Casing dia:	4		Casing dep:	30		
Casing hei:	-01		Screen typ:	PL		
Top screen:	20		Bottom scr:	30		
•						
Screen t 1:	Not Reported		Top scre 1:	0		
Bottom s 1:	0		Screen t 2:	Not Report	eu	
Top scre 2:	0		Bottom s 2:	0		
Screen dia:	4		Flowing we:	Not Report		
Telescopin:	Not Reported		Log type:	Not Report	ed	
Hrs pumped:	: 0		Pumping ra:	0		
Level befo:	35		Level duri:	0		
Test pump:	Not Reported		Pump insta:	N		
Install pu: Not Reported		Capacity:	0			
	Pump hp: 0		Column len:	0		
Closed:	Not Reported		Abandoned:	Not Reported MD7000000348523		
Abandon da:	: 0		Site id:	MD700000	0340023	
35 SE 1/2 - 1 Mile Higher	Site ID: Groundwater Flow: Shallowest Water Table Depth: Deepest Water Table Depth: Average Water Table Depth: Date:	9-2027PG E 3.10 18.72 Not Reported 01/08/1992		AQUIFLOW	47105	
F36 SE 1/2 - 1 Mile Higher				MD WELLS	MD700000533604	
Objectid:	533604		County let:	Not Report	ed	
Permit:	PG952353		Mgs id:	Not Report		
B1 seq:	8631		B1 recd:	2009 522		
City:	BOWIE		State:	MD		
Zip:			Driller na:			
•	20720 MM/D 424			STEPHEN SAUL		
Driller id:	MWD 421		Est gpm pr:	0		
Use for wa:	Т		Approx dep:	15		
Drill meth:	Not Reported		Replacemen:	Ν		
Wapid:	t to: FORT WASHINGTON		Subdivisio:		Not Reported	
Section:			Lot:	Not Reported		
Nearest to:						
Town direc:						
Road side:	S		Road dista:	50 FT		
Tax map:	132		Block:	Not Report	he	
					50	
Parcel:	A2479		N grid83:	116052		
E grid83:			Lat dec de:	38.712146		
Lon dec de:	-76.989184		Issue date:	2009 520		
Special fly	Not Departed		C1 0001	7705		

C1 seq:

Completion:

Special fl:

C1 recd:

Not Reported

2009 610

7705

2001 521

Total dept: Hydrofract: Grout type: Grout bott: Casing dia: Casing hei: Top screen: Screen t 1: Bottom s 1: Top scre 2: Screen dia: Telescopin: Hrs pumped: Level befo: Test pump: Install pu: Pump hp: Closed: Abandon da:

F37

SE 1/2 - 1 Mile Higher 0 0 Not Reported 0 Not Reported 0 0 Not Reported 0 Not Reported 0 Not Reported 0 Not Reported

2009 521

Not Reported

20

Ν

Num unsucc: Grouted: Grout top: Casing typ: Casing dep: Screen typ: Bottom scr: Top scre 1: Screen t 2: Bottom s 2: Flowing we: Log type: Pumping ra: Level duri: Pump insta: Capacity: Column len: Abandoned: Site id:

Not Reported 0 Not Reported 0 Not Reported 0 0 Not Reported 0 Not Reported Not Reported 0 0 Not Reported 0 0 γ MD700000533604

0

MD WELLS M

MD700000414313

Objectid: Permit: B1 seq: City: Zip: Driller id: Use for wa: Drill meth: Wapid: Section: Nearest to: Town direc: Road side: Tax map: Parcel: E grid83: Lon dec de: Special fl: C1 recd: Total dept: Hydrofract: Grout type: Grout bott: Casing dia: Casing hei: Top screen: Screen t 1: Bottom s 1: Top scre 2: Screen dia: Telescopin: Hrs pumped: Level befo: Test pump: Install pu: Pump hp:

414313 PG941352 8989 FORT WASHINGT 20744 MGD 39 т BORED Not Reported Not Reported TANTALLON Е S Not Reported Not Reported 400941 -76.989184 Not Reported 2000 321 25 Ν CM 8 4 -1 10 Not Reported 0 0 4 Not Reported 0 0 Not Reported Not Reported 0

County let: Mgs id: B1 recd: State: Driller na: Est gpm pr: Approx dep: Replacemen: Subdivisio: Lot: Town dista: Road name: Road dista: Block: N grid83: Lat dec de: Issue date: C1 seq: Completion: Num unsucc: Grouted: Grout top: Casing typ: Casing dep: Screen typ: Bottom scr: Top scre 1: Screen t 2: Bottom s 2: Flowing we: Log type: Pumping ra: Level duri: Pump insta: Capacity: Column len:

PG Not Reported 2000 124 MD STEVE SAUL 0 35 N FORT WASHINGTON FORE Not Reported OLD FORT ROAD 50 FT Not Reported 116052 38.712146 2000 131 6245 2000 224 0 Υ 0 PL 10 PL 25 0 Not Reported 0 Not Reported Not Reported 0 0 Ν 0 0

Closed:	Not Reported	Abandoned:	Not Reported	
Abandon da:	0	Site id:	MD7000000414313	
F38 SE 1/2 - 1 Mile Higher			MD WELLS MD700000533611	
Objectid:	533611	County let:	Not Reported	
Permit:	PG952360	Mgs id:	Not Reported	
B1 seq:	4396	B1 recd:	2009 924	
City:	ROCKVILLE	State:	MD	
Zip:	20852	Driller na:	SAMUEL A CONNELLY	
Driller id:	MWD 572	Est gpm pr:	0	
Use for wa:	T	Approx dep:	30	
Drill meth: Wapid:	BORED Not Reported	Replacemen: Subdivisio: Lot:	N Not Reported	
Section:	Not Reported	Lot.	Not Reported	
Nearest to:	FORT WASHINGTON	Town dista:	Not Reported	
Town direc:	T	Road name:	OLD FORT RD	
Road side:	S	Road dista:	75 FT	
Tax map:	Not Reported	Block:	Not Reported	
Parcel:	Not Reported	N grid83:	116052	
E grid83:	400941	Lat dec de:	38.712146	
Lon dec de:	-76.989184	Issue date:	2009 916	
Special fl: C1 recd:	Not Reported 2009 924	C1 seq: Completion:	2009 916 7968 2009 918	
Total dept:	30	Num unsucc:	0	
Hydrofract:	N	Grouted:	Y	
Grout type:	BC	Grout top:	1	
Grout bott:	8	Casing typ:	PL	
Casing dia:	2	Casing dep:	10	
Casing hei:	Not Reported	Screen typ:	PL	
Top screen:	10	Bottom scr:	30	
Screen t 1:	Not Reported	Top scre 1:	0	
Bottom s 1:	0	Screen t 2:	Not Reported	
Top scre 2:	0	Bottom s 2:	0	
Screen dia:	2	Flowing we:	Not Reported	
Telescopin:	Not Reported	Log type:	Not Reported	
Hrs pumped:	1	Pumping ra:	1	
Level befo:	1	Level duri:	1	
Test pump:	Not Reported	Pump insta:	N	
Install pu:	Not Reported	Capacity:	0	
Pump hp:	0	Column len:	0	
Closed:	Not Reported	Abandoned:	Not Reported	
Abandon da:	0	Site id:	MD700000533611	

F39 SE 1/2 - 1 Mile Higher

> Objectid: Permit: B1 seq: City: Zip: Driller id: Use for wa: Drill meth:

533610 PG952359 4397 ROCKVILLE 20852 MWD 572 T BORED MD WELLS

County let:

Mgs id:

State:

B1 recd:

Driller na:

Est gpm pr:

Approx dep:

Replacemen:

MD700000533610

Not Reported Not Reported 2009 924 MD SAMUEL A CONNELLY 0 30 N

Wapid: Section: Nearest to: Town direc: Road side: Tax map: Parcel: E grid83: Lon dec de: Special fl: C1 recd: Total dept: Hydrofract: Grout type: Grout bott: Casing dia: Casing hei: Top screen: Screen t 1: Bottom s 1: Top scre 2: Screen dia: Telescopin: Hrs pumped: Level befo: Test pump: Install pu: Pump hp: Closed: Abandon da: Not Reported Not Reported FORT WASHINGTON Т S Not Reported Not Reported 400941 -76.989184 Not Reported 2009 924 30 Ν BC 8 2 Not Reported 10 Not Reported 0 0 2 Not Reported 1 1 Not Reported Not Reported 0 Not Reported

0

Subdivisio: Lot: Town dista: Road name: Road dista: Block: N grid83: Lat dec de: Issue date: C1 seq: Completion: Num unsucc: Grouted: Grout top: Casing typ: Casing dep: Screen typ: Bottom scr: Top scre 1: Screen t 2: Bottom s 2: Flowing we: Log type: Pumping ra: Level duri: Pump insta: Capacity: Column len: Abandoned: Site id:

County let:

Mgs id:

State:

B1 recd:

Driller na:

Est gpm pr:

Approx dep:

Subdivisio:

Town dista:

Road name:

Road dista:

Block:

N grid83:

C1 seq:

Grouted:

Grout top:

Casing typ:

Casing dep:

Screen typ:

Lat dec de:

Issue date:

Completion:

Num unsucc:

Lot:

Replacemen:

Not Reported Not Reported Not Reported OLD FORT RD 180 FT Not Reported 116052 38.712146 2009 916 7969 2009 918 0 Υ 1 PL 10 PL 30 0 Not Reported 0 Not Reported Not Reported 1 1 Ν 0 0 Not Reported MD700000533610

MD WELLS

MD700000346987

PG Not Reported 1990 110 MD **BRENARD TAYLOR** 0 40 Ν TANTALLION MW5 1 INDIAN HEAD HWY RT 2 150 FT Not Reported 116052 38.712146 1990 1 9 Not Reported 0 0 Not Reported 0 Not Reported 0 Not Reported

F40 SE 1/2 - 1 Mile Higher

Objectid: Permit: B1 seq: City: Zip: Driller id: Use for wa: Drill meth: Wapid: Section: Nearest to: Town direc: Road side: Tax map: Parcel: E grid83: Lon dec de: Special fl: C1 recd: Total dept: Hydrofract: Grout type: Grout bott: Casing dia: Casing hei:

346987 PG880856 1699 FORT WASH 20744 MWD 430 Т BORED Not Reported Not Reported Not Reported NE Е Not Reported Not Reported 400941 -76.989184 Not Reported 0 0 Not Reported Not Reported 0 0

Not Reported

Top screen: Screen t 1: Bottom s 1: Top scre 2: Screen dia: Telescopin: Hrs pumped: Level befo: Test pump: Install pu: Pump hp: Closed: Abandon da:

Not Reported 0 0 Not Reported 0 Not Reported 0 Not Reported 0 Not Reported 0

0

Bottom scr: Top scre 1: Screen t 2: Bottom s 2: Flowing we: Log type: Pumping ra: Level duri: Pump insta: Capacity: Column len: Abandoned: Site id:

0 Not Reported 0 Not Reported 0 0 Not Reported 0 0 Not Reported MD700000346987

0

MD WELLS MD700000346992

County let: Mgs id: B1 recd: State: Driller na: Est gpm pr: Approx dep: Replacemen: Subdivisio: Lot: Town dista: Road name: Road dista: Block: N grid83: Lat dec de: Issue date: C1 seq: Completion: Num unsucc: Grouted: Grout top: Casing typ: Casing dep: Screen typ: Bottom scr: Top scre 1: Screen t 2: Bottom s 2: Flowing we: Log type: Pumping ra: Level duri: Pump insta: Capacity: Column len: Abandoned: Site id:

PG Not Reported 1990 110 MD **BRENARD TAYLOR** 0 40 Ν TANTALLION MW1 1 INDIAN HEAD HIGHWAY 280 FT Not Reported 116052 38.712146 1990 1 9 Not Reported 0 0 Not Reported 0 Not Reported 0 Not Reported 0 0 Not Reported 0 Not Reported Not Reported 0 0 Not Reported 0 0 Not Reported MD700000346992

F41 SE 1/2 - 1 Mile Higher

Objectid: Permit: B1 seq: City: Zip: Driller id: Use for wa: Drill meth: Wapid: Section: Nearest to: Town direc: Road side: Tax map: Parcel: E grid83: Lon dec de: Special fl: C1 recd: Total dept: Hydrofract: Grout type: Grout bott: Casing dia: Casing hei: Top screen: Screen t 1: Bottom s 1: Top scre 2: Screen dia: Telescopin: Hrs pumped: Level befo: Test pump: Install pu: Pump hp: Closed: Abandon da:

346992 PG880855 1698 FORT WASHINGT 20744 MWD 430 т BORED Not Reported Not Reported Not Reported NE F Not Reported Not Reported 400941 -76.989184 Not Reported 0 0 Not Reported Not Reported 0 0 Not Reported 0 Not Reported 0 0 0 Not Reported 0 0 Not Reported Not Reported 0 Not Reported 0

istance levation			Database	EDR ID Numbe
42 E ⁄2 - 1 Mile igher			MD WELLS	MD7000000258683
Objectid:	258683	County let:	PG	
Permit:	PG881792	Mgs id:	Not Reporte	ed
B1 seq:	6367	B1 recd:	1991 4 8	
City:	HOUSTON	State:	ТХ	
Zip:	77002	Driller na:	BRENARD	J TAYLOR
Driller id:	MWD0430	Est gpm pr:	0	
Use for wa:	Т	Approx dep:	30	
Drill meth:	BORED	Replacemen:	Ν	
Wapid:	Not Reported	Subdivisio:	Not Reporte	ed
Section:	Not Reported	Lot:	Not Reporte	
Nearest to:	CLINTON	Town dista:	6.44	
Town direc:	SW	Road name:	OLD FORT	RD
Road side:	S	Road dista:	230 FT	
Tax map:	Not Reported	Block:	Not Reporte	ed
Parcel:	Not Reported	N grid83:	116052	
E grid83:	400941	Lat dec de:	38.712146	
Lon dec de:	-76.989184	Issue date:	1991 4 1	
Special fl:	Y	C1 seq:	9171	
C1 recd:	199110 2	Completion:	19911017	
Total dept:	35	Num unsucc:	0	
Hydrofract:	Not Reported	Grouted:	Ŷ	
Grout type:	BC	Grout top:	3	
Grout bott:	4	Casing typ:	PL	
Casing dia:	6	Casing dep:	5	
Casing hei:	+1	Screen typ:	PL	
Top screen:	5	Bottom scr:	35	
Screen t 1:	Not Reported	Top scre 1:	0	
Bottom s 1:	0	Screen t 2:	Not Reporte	h
Top scre 2:	0	Bottom s 2:	0	^{ju}
Screen dia:	6	Flowing we:	Not Reporte	ad
Telescopin:	Not Reported	Log type:	Not Reporte	
Hrs pumped:	1	Pumping ra:	1	^{ju}
Level befo:	1	Level duri:	1	
Test pump:	0	Pump insta:	N	
Install pu:	0	Capacity:	0	
Pump hp:	0	Capacity. Column len:	0	
Closed:	Not Reported	Abandoned:	Not Reporte	h
Abandon da:		Site id:	MD700000	
ADdituon ud.	U	Sile Iu.	1000000	1200000

F43 SE 1/2 - 1 Mile Higher

Objectid: Permit: B1 seq: City: Zip: Driller id: Use for wa: Drill meth: Wapid: Section:

PG881793 6368 HOUSTON 77002 MWD0430 Т BORED Not Reported Not Reported

258684

County let: Mgs id: B1 recd: State: Driller na: Est gpm pr: Approx dep: Replacemen: Subdivisio: Lot:

PG Not Reported 1991 4 8 ТΧ **BRENARD J TAYLOR** 0 30 Ν Not Reported Not Reported

MD700000258684

MD WELLS

Nearest to: Town direc: Road side: Tax map: Parcel: E grid83: Lon dec de: Special fl: C1 recd: Total dept: Hydrofract: Grout type: Grout bott: Casing dia: Casing hei: Top screen: Screen t 1: Bottom s 1: Top scre 2: Screen dia: Telescopin: Hrs pumped: Level befo: Test pump: Install pu: Pump hp: Closed: Abandon da:

CLINTON SW S Not Reported Not Reported 400941 -76.989184 Υ 19911022 35 Not Reported BC 4 6 +1 5 Not Reported 0 0 6 Not Reported 1 1 0 0 0

Not Reported

0

Town dista: Road name: Road dista: Block: N grid83: Lat dec de: Issue date: C1 seq: Completion: Num unsucc: Grouted: Grout top: Casing typ: Casing dep: Screen typ: Bottom scr: Top scre 1: Screen t 2: Bottom s 2: Flowing we: Log type: Pumping ra: Level duri: Pump insta: Capacity: Column len: Abandoned:

6.44 OLD FORT RD 120 FT Not Reported 116052 38.712146 1991 4 1 9170 19911016 0 Υ 3 ΡL 5 PL 35 0 Not Reported 0 Not Reported Not Reported 1 1 Ν 0 0 Not Reported MD700000258684

F44 SE 1/2 - 1 Mile Higher

> Objectid: Permit: B1 seq: City: Zip: Driller id: Use for wa: Drill meth: Wapid: Section: Nearest to: Town direc: Road side: Tax map: Parcel: E grid83: Lon dec de: Special fl: C1 recd: Total dept: Hydrofract: Grout type: Grout bott: Casing dia: Casing hei: Top screen: Screen t 1:

347908 PG880854 1697 FORT WASH 20744 MWD 430 Т BORED Not Reported Not Reported Not Reported NE Е Not Reported Not Reported 400941 -76.989184 Not Reported 0 Not Reported Not Reported 0 0 Not Reported 0

Not Reported

0

MD WELLS

MD700000347908

County let: Mgs id: B1 recd: State: Driller na: Est gpm pr: Approx dep: Replacemen: Subdivisio: Lot: Town dista: Road name: Road dista: Block: N grid83: Lat dec de: Issue date: C1 seq: Completion: Num unsucc: Grouted: Grout top: Casing typ: Casing dep: Screen typ: Bottom scr: Top scre 1:

Site id:

PG Not Reported 1990 110 MD **BRENARD TAYLOR** 0 40 Ν TANTALLION MW2 INDIAN HEAD HWY RT 2 280 FT Not Reported 116052 38.712146 1990 1 9 Not Reported 0 0 Not Reported Ω Not Reported 0 Not Reported 0 0

Bottom s 1: Top scre 2: Screen dia: Telescopin: Hrs pumped: Level befo: Test pump: Install pu: Pump hp: Closed: Abandon da: 0

0

0

0

0

0

0

Not Reported

Not Reported

Not Reported

Not Reported

F45 SE 1/2 - 1 Mile

Higher

Objectid: Permit: B1 seq: City: Zip: Driller id: Use for wa: Drill meth: Wapid: Section: Nearest to: Town direc: Road side: Tax map: Parcel: E grid83: Lon dec de: Special fl: C1 recd: Total dept: Hydrofract: Grout type: Grout bott: Casing dia: Casing hei: Top screen: Screen t 1: Bottom s 1: Top scre 2: Screen dia: Telescopin: Hrs pumped: Level befo: Test pump: Install pu: Pump hp: Closed: Abandon da:

372062 PG880853 1696 FORT WASH 20744 **MWD 430** Т BORED Not Reported Not Reported Not Reported NE Е Not Reported Not Reported 400941 -76.989184 Not Reported 0 0 Not Reported Not Reported 0 0 Not Reported 0 Not Reported 0 0 0 Not Reported 0 0 Not Reported Not Reported 0 Not Reported 0

Screen t 2: Bottom s 2: Flowing we: Log type: Pumping ra: Level duri: Pump insta: Capacity: Column len: Abandoned: Site id: Not Reported 0 Not Reported 0 0 Not Reported 0 0 Not Reported MD700000347908

MD WELLS MD700000372062

County let: Mgs id: B1 recd: State: Driller na: Est gpm pr: Approx dep: Replacemen: Subdivisio: Lot: Town dista: Road name: Road dista: Block: N grid83: Lat dec de: Issue date: C1 seq: Completion: Num unsucc: Grouted: Grout top: Casing typ: Casing dep: Screen typ: Bottom scr: Top scre 1: Screen t 2: Bottom s 2: Flowing we: Log type: Pumping ra: Level duri: Pump insta: Capacity: Column len: Abandoned: Site id:

PG Not Reported 1990 110 MD **BRENARD TAYLOR** 0 40 Ν TANTALLION MW3 **INDIAN HEAD HWY RT 2** 180 FT Not Reported 116052 38.712146 1990 1 9 Not Reported 0 0 Not Reported 0 Not Reported 0 Not Reported 0 0 Not Reported 0 Not Reported Not Reported 0 0 Not Reported 0 0 Not Reported MD700000372062

istance levation			Database	EDR ID Numbe
l6 E 2 - 1 Mile Igher			MD WELLS	MD70000041431
Objectid:	414312	County let:	PG	
Permit:	PG941351	Mgs id:	Not Reporte	ed
B1 seq:	8993	B1 recd:	2000 124	
City:	FORT WASHINGT	State:	MD	
Zip:	20744	Driller na:	STEVE SAU	JL
Driller id:	MGD 38	Est gpm pr:	0	
Use for wa:	Т	Approx dep:	35	
Drill meth:	BORED	Replacemen:	N	
Wapid:	Not Reported	Subdivisio:	FORT WAS	HINGTON FORE
Section:	Not Reported	Lot:	Not Reporte	
Nearest to:	TANTALLON	Town dista:	1	
Town direc:	E	Road name:	OLD FORT	ROAD
Road side:	S	Road dista:	100 FT	
Tax map:	Not Reported	Block:	Not Reporte	ed
Parcel:	Not Reported	N grid83:	116052	
E grid83:	400941	Lat dec de:	38.712146	
Lon dec de:	-76.989184	Issue date:	2000 131	
Special fl:	Not Reported	C1 seq:	6244	
C1 recd:	2000 321	Completion:	2000 224	
Total dept:	22	Num unsucc:	0	
Hydrofract:	 N	Grouted:	Ŷ	
Grout type:	CM	Grout top:	0	
Grout bott:	19	Casing typ:	PL	
Casing dia:	4	Casing dep:	20	
Casing hei:	-1	Screen typ:	PL	
Top screen:	20	Bottom scr:	22	
Screen t 1:	Not Reported	Top scre 1:	0	
Bottom s 1:	0	Screen t 2:	Not Reporte	'n
Top scre 2:	0	Bottom s 2:	0	
Screen dia:	2	Flowing we:	Not Reporte	h
Telescopin:	Not Reported	Log type:	Not Reporte	
Hrs pumped:	0	Pumping ra:	0	
Level befo:	0	Level duri:	0	
Test pump:	Not Reported	Pump insta:	Ň	
Install pu:	Not Reported	Capacity:	0	
Pump hp:	0	Column len:	0	
Closed:	Not Reported	Abandoned:	Not Reporte	hé
Abandon da:	0	Site id:	MD700000	

F47 SE 1/2 - 1 Mile Higher

Objectid: Permit: B1 seq: City: Zip: Driller id: Use for wa: Drill meth: Wapid: Section:

370460 PG920765 9745 FORT WASHINGT 20744 MWD 450 Т BORED Not Reported Not Reported

County let: Mgs id: B1 recd: State: Driller na: Est gpm pr: Approx dep: Replacemen: Subdivisio: Lot:

PG Not Reported 1995 5 1 MD **BRENARD J TAYLOR** 0 25 Ν Not Reported Not Reported

MD700000370460

MD WELLS

Nearest to: Town direc: Road side: Tax map: Parcel: E grid83: Lon dec de: Special fl: C1 recd: Total dept: Hydrofract: Grout type: Grout bott: Casing dia: Casing hei: Top screen: Screen t 1: Bottom s 1: Top scre 2: Screen dia: Telescopin: Hrs pumped: Level befo: Test pump: Install pu: Pump hp: Closed: Abandon da: FORT WASHINGTON т S Not Reported Not Reported 400941 -76.989184 Not Reported 1995 6 8 25 Not Reported СМ 0 4 Not Reported 5 Not Reported 0 0 4 Not Reported 0 0 Not Reported Not Reported 0 Not Reported 2010 413

Town dista: Road name: Road dista: Block: N grid83: Lat dec de: Issue date: C1 seq: Completion: Num unsucc: Grouted: Grout top: Casing typ: Casing dep: Screen typ: Bottom scr: Top scre 1: Screen t 2: Bottom s 2: Flowing we: Log type: Pumping ra: Level duri: Pump insta: Capacity: Column len: Abandoned:

Site id:

County let:

Mgs id: B1 recd:

State:

Driller na:

Est gpm pr:

Approx dep:

Subdivisio:

Town dista:

Road name:

Road dista:

Lot:

Block:

N grid83:

Lat dec de:

Issue date:

Completion:

Num unsucc:

C1 seq:

Grouted:

Grout top:

Casing typ:

Casing dep:

Screen typ:

Bottom scr:

Top scre 1:

Replacemen:

Not Reported OLD FORT ROAD 25 FT Not Reported 116052 38.712146 1995 5 4 4728 1995 5 8 0 Υ 0 ΡL 5 PL 25 0 Not Reported 0 Not Reported Not Reported 0 0 N 0 0 Υ MD700000370460

MD WELLS

MD700000372061

PG Not Reported 1990 110 MD **BRENARD TAYLOR** 0 40 Ν TANTALLION MW4 INDIAN HEAD HWY RT 2 113 FT Not Reported 116052 38.712146 1990 1 9 Not Reported 0 0 Not Reported Ω Not Reported 0 Not Reported 0 0

F48 SE 1/2 - 1 Mile Higher

Objectid: Permit: B1 seq: City: Zip: Driller id: Use for wa: Drill meth: Wapid: Section: Nearest to: Town direc: Road side: Tax map: Parcel: E grid83: Lon dec de: Special fl: C1 recd: Total dept: Hydrofract: Grout type: Grout bott: Casing dia: Casing hei: Top screen: Screen t 1:

PG880852 1695 FORT WASH 20744 MWD 430 Т BORED Not Reported Not Reported Not Reported NE Е Not Reported Not Reported 400941 -76.989184 Not Reported 0 0 Not Reported Not Reported 0 0 Not Reported 0 Not Reported

372061

Bottom s 1:	0	Screen t 2:	Not Reported
Top scre 2:	0	Bottom s 2:	0
Screen dia:	0	Flowing we:	Not Reported
Telescopin:	Not Reported	Log type:	Not Reported
Hrs pumped:	0	Pumping ra:	0
Level befo:	0	Level duri:	0
Test pump:	Not Reported	Pump insta:	Not Reported
Install pu:	Not Reported	Capacity:	0
Pump hp:	0	Column len:	0
Closed:	Not Reported	Abandoned:	Not Reported
Abandon da:	0	Site id:	MD700000372061

1G SE 1/2 - 1 Mile Lower

Site ID: 9-2027PG Groundwater Flow: Е Shallowest Water Table Depth: 3.10 Deepest Water Table Depth: 18.72 Average Water Table Depth: Date:

Not Reported 01/08/1992

AQUIFLOW 47105

AREA RADON INFORMATION

EPA Region 3 Statistical Summary Readings for Zip Code: 20744

Number of sites tested: 863.

Maximum Radon Level: 42.3 pCi/L. Minimum Radon Level: -0.1 pCi/L.

pCi/L	pCi/L	pCi/L	pCi/L	pCi/L	pCi/L
<4	4-10	10-20	20-50	50-100	>100
719 (83.31%)	117 (13.56%)	23 (2.67%)	4 (0.46%)	0 (0.00%)	0 (0.00%)

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)

Source: United States Geologic Survey

EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Current USGS 7.5 Minute Topographic Map Source: U.S. Geological Survey

HYDROLOGIC INFORMATION

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.

Source: FEMA Telephone: 877-336-2627 Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

HYDROGEOLOGIC INFORMATION

AQUIFLOW^R Information System

Source: EDR proprietary database of groundwater flow information

EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit

Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)

The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Service (NRCS) Telephone: 800-672-5559

SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Service, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS) This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

STATE RECORDS

Maryland Public Supply Wells Source: Department of the Environment Telephone: 410-537-3702 Water use types included are farm (livestock watering and agricultural irrigation), geo-thermal, industrial-commercial-state and federal government, municipal, test-observation-monitoring.

OTHER STATE DATABASE INFORMATION

Oil and Gas Well Location Information Source: Department of the Environment. Telephone: 410-537-3557

RADON

Area Radon Information Source: USGS Telephone: 703-356-4020 The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

EPA Radon Zones

Source: EPA Telephone: 703-356-4020 Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

EPA Region 3 Statistical Summary Readings Source: Region 3 EPA Telephone: 215-814-2082 Radon readings for Delaware, D.C., Maryland, Pennsylvania, Virginia and West Virginia.

OTHER

Airport Landing Facilities: Private and public use landing facilities Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater Source: Department of Commerce, National Oceanic and Atmospheric Administration

Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary faultlines, prepared in 1975 by the United State Geological Survey

PHYSICAL SETTING SOURCE RECORDS SEARCHED

STREET AND ADDRESS INFORMATION

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Appendix IV: Historical Research Documentation

Future Tantallon Square High School ASBURY DR FORT WASHINGTON, MD 20744

Inquiry Number: 5901609.36 December 11, 2019

The EDR Aerial Photo Decade Package



6 Armstrong Road, 4th floor Shelton, CT 06484 Toll Free: 800.352.0050 www.edrnet.com

Site Name:

Client Name:

Future Tantallon Square High ASBURY DR FORT WASHINGTON, MD 207 EDR Inquiry # 5901609.36 ECS Mid Atlantic, LLC 14026 Thunderbolt Place Chantilly, VA 20151 Contact: Andrew Geraci



12/11/19

Environmental Data Resources, Inc. (EDR) Aerial Photo Decade Package is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's professional researchers provide digitally reproduced historical aerial photographs, and when available, provide one photo per decade.

Search	Results:			
Year	Scale	Details	Source	
2017	1"=500'	Flight Year: 2017	USDA/NAIP	
2011	1"=500'	Flight Year: 2011	USDA/NAIP	
2008	1"=500'	Flight Year: 2008	USDA/NAIP	
2005	1"=500'	Flight Year: 2005	USDA/NAIP	
1998	1"=750'	Flight Date: April 03, 1998	USGS	
1988	1"=500'	Acquisition Date: April 05, 1988	USGS/DOQQ	
1981	1"=500'	Flight Date: February 04, 1981	NHAP	
1972	1"=500'	Flight Date: March 26, 1972	USGS	
1970	1"=500'	Flight Date: September 01, 1970	USDA	
1963	1"=500'	Flight Date: March 15, 1963	USGS	
1960	1"=500'	Flight Date: February 12, 1960	USGS	
1957	1"=500'	Flight Date: July 25, 1957	USDA	
1952	1"=500'	Flight Date: October 17, 1952	USDA	
1938	1"=500'	Flight Date: May 01, 1938	USDA	

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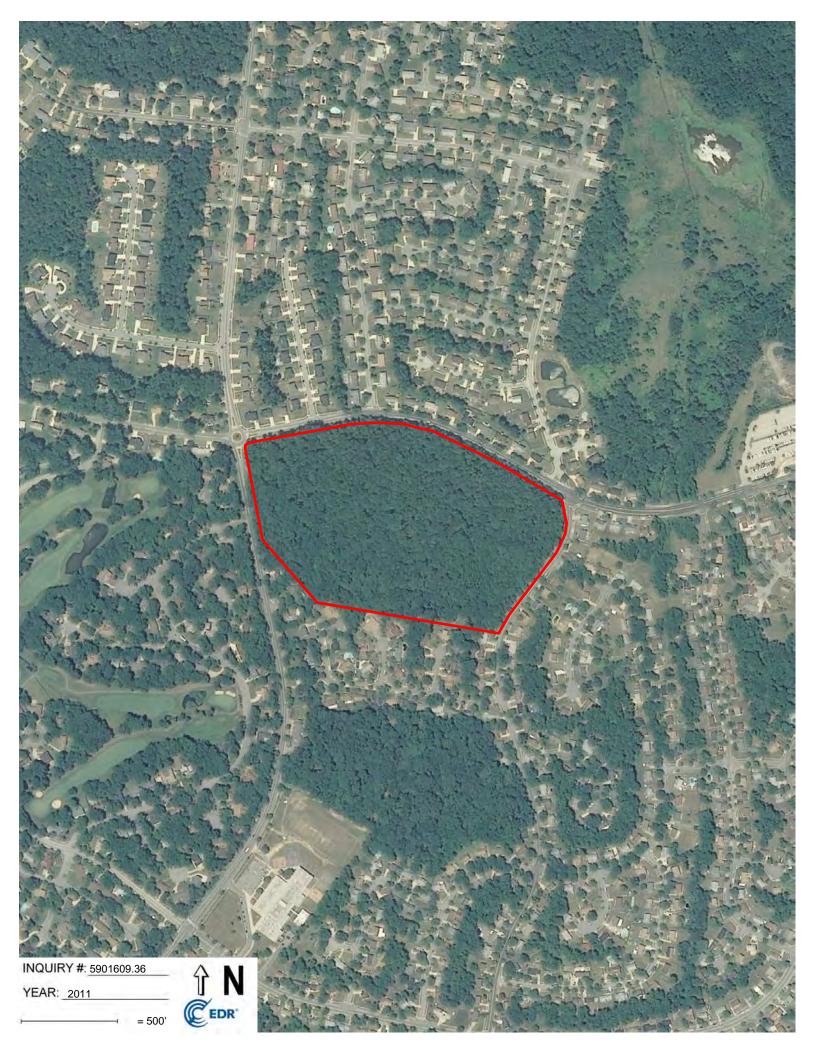
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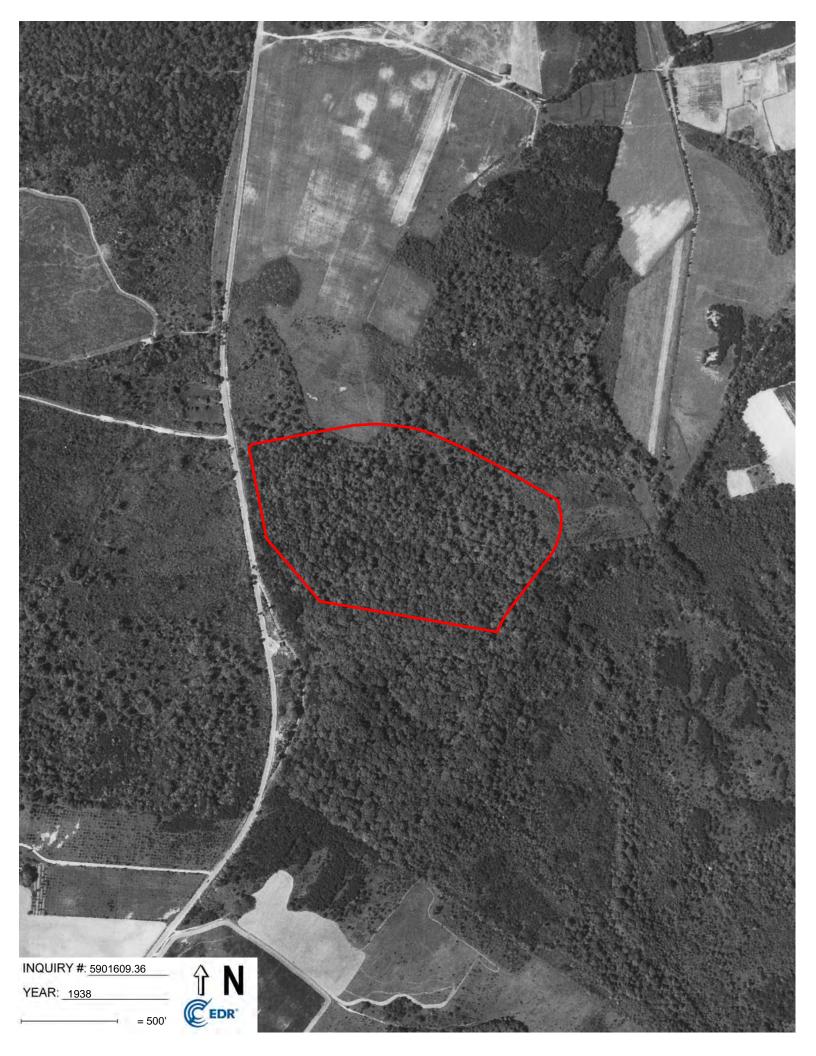


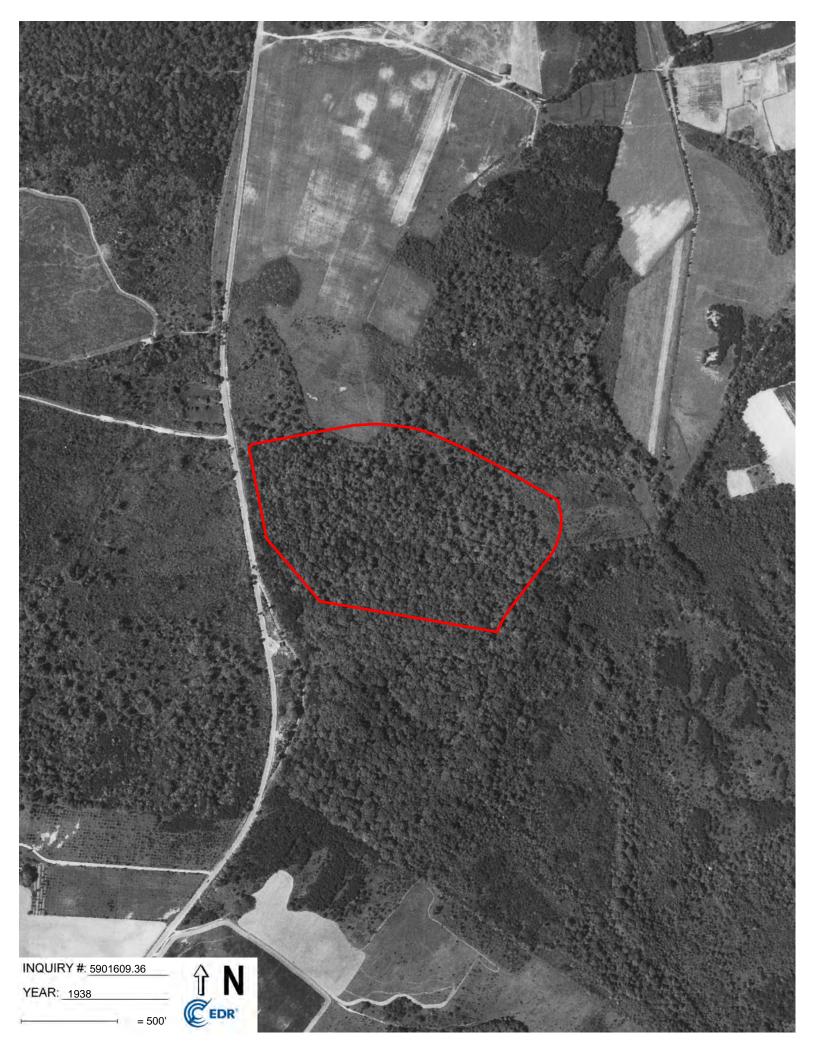












Future Tantallon Square High School ASBURY DR FORT WASHINGTON, MD 20744

Inquiry Number: 5901609.30 December 11, 2019

Certified Sanborn® Map Report



6 Armstrong Road, 4th floor Shelton, CT 06484 Toll Free: 800.352.0050 www.edrnet.com

Certified Sanborn® Map Report

Site Name:

Future Tantallon Square High ASBURY DR FORT WASHINGTON, MD 207 EDR Inquiry # 5901609.30

Client Name:

ECS Mid Atlantic, LLC 14026 Thunderbolt Place Chantilly, VA 20151 Contact: Andrew Geraci



12/11/19

The Sanborn Library has been searched by EDR and maps covering the target property location as provided by ECS Mid Atlantic, LLC were identified for the years listed below. The Sanborn Library is the largest, most complete collection of fire insurance maps. The collection includes maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow, and others. Only Environmental Data Resources Inc. (EDR) is authorized to grant rights for commercial reproduction of maps by the Sanborn Library LLC, the copyright holder for the collection. Results can be authenticated by visiting www.edrnet.com/sanborn.

The Sanborn Library is continually enhanced with newly identified map archives. This report accesses all maps in the collection as of the day this report was generated.

Certified Sanborn Results:

Certification # 903E-470C-BD33

PO # 9541

Project Future Tantallon Square High S

UNMAPPED PROPERTY

This report certifies that the complete holdings of the Sanborn Library, LLC collection have been searched based on client supplied target property information, and fire insurance maps covering the target property were not found.



Sanborn® Library search results Certification #: 903E-470C-BD33

The Sanborn Library includes more than 1.2 million fire insurance maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow and others which track historical property usage in approximately 12,000 American cities and towns. Collections searched:

University Publications of America

EDR Private Collection

The Sanborn Library LLC Since 1866™

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Future Tantallon Square High School ASBURY DR FORT WASHINGTON, MD 20744

Inquiry Number: 5901609.31 December 11, 2019

EDR Historical Topo Map Report with QuadMatch™



6 Armstrong Road, 4th floor Shelton, CT 06484 Toll Free: 800.352.0050 www.edrnet.com

Site Name:

Client Name:

Future Tantallon Square High ASBURY DR FORT WASHINGTON, MD 207 EDR Inquiry # 5901609.31 ECS Mid Atlantic, LLC 14026 Thunderbolt Place Chantilly, VA 20151 Contact: Andrew Geraci



12/11/19

EDR Topographic Map Library has been searched by EDR and maps covering the target property location as provided by ECS Mid Atlantic, LLC were identified for the years listed below. EDR's Historical Topo Map Report is designed to assist professionals in evaluating potential liability on a target property resulting from past activities. EDRs Historical Topo Map Report includes a search of a collection of public and private color historical topographic maps, dating back to the late 1800s.

Search Result	s:	Coordinates:	
P.O.#	9541	Latitude:	38.722794 38° 43' 22" North
Project:	Future Tantallon Square High {	Longitude:	-77.001061 -77° 0' 4" West
-		UTM Zone:	Zone 18 North
		UTM X Meters:	326042.77
		UTM Y Meters:	4287916.17
		Elevation:	51.00' above sea level
Maps Provide	:		
2013, 2014	1957	1911	
1994	1956	1906	
1988	1951	1897, 1899	
1985	1944	1895	
1983	1938	1894	
1978, 1980	1925	1892	
1971	1923	1891	
1966	1913	1890	

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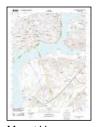
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This EDR Topo Map Report is based upon the following USGS topographic map sheets.

2013, 2014 Source Sheets





Mount Vernon 2013 7.5-minute, 24000

2014 7.5-minute, 24000

1994 Source Sheets



INDIAN HEAD 1994 15-minute, 50000

1988 Source Sheets



LA PLATA 1988 15-minute, 50000

1985 Source Sheets



Piscataway 1985 7.5-minute, 24000 Aerial Photo Revised 1981

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

1983 Source Sheets



Mount Vernon 1983 7.5-minute, 24000 Aerial Photo Revised 1980

1978, 1980 Source Sheets





Piscataway 1978 7.5-minute, 24000 Aerial Photo Revised 1977

Mount Vernon 1980 7.5-minute, 24000 Aerial Photo Revised 1977

1971 Source Sheets



Piscataway 1971 7.5-minute, 24000 Aerial Photo Revised 1971

1966 Source Sheets



Mount Vernon 1966 7.5-minute, 24000 Aerial Photo Revised 1964



Mount Vernon 1971 7.5-minute, 24000 Aerial Photo Revised 1971

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

1957 Source Sheets



Piscataway 1957 7.5-minute, 24000 Aerial Photo Revised 1943

1956 Source Sheets



Mount Vernon 1956 7.5-minute, 24000 Aerial Photo Revised 1955

1951 Source Sheets





Mt Vernon 1951 7.5-minute, 24000 Aerial Photo Revised 1950

1951 7.5-minute, 24000 Aerial Photo Revised 1950

1944 Source Sheets



Piscataway 1944 7.5-minute, 31680 Aerial Photo Revised 1943



Mount Vernon 1944 7.5-minute, 31680 Aerial Photo Revised 1943

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

1938 Source Sheets



Indian Head 1938 15-minute, 62500

1925 Source Sheets



Indian Head 1925 15-minute, 62500

1923 Source Sheets

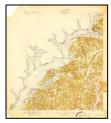


Indian Head 1923 15-minute, 48000

1913 Source Sheets



Brandywine 1913 15-minute, 62500



Indian Head 1913 15-minute, 62500

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

1911 Source Sheets



Brandywine 1911 15-minute, 62500

1906 Source Sheets



Patuxent 1906 30-minute, 125000

1897, 1899 Source Sheets



Mt. Vernon 1897 30-minute, 125000



Patuxent 1899 30-minute, 125000

1895 Source Sheets



Brandywine 1895 15-minute, 62500

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

1894 Source Sheets



Mt. Vernon 1894 30-minute, 125000

1892 Source Sheets



Brandywine 1892 15-minute, 62500

1891 Source Sheets

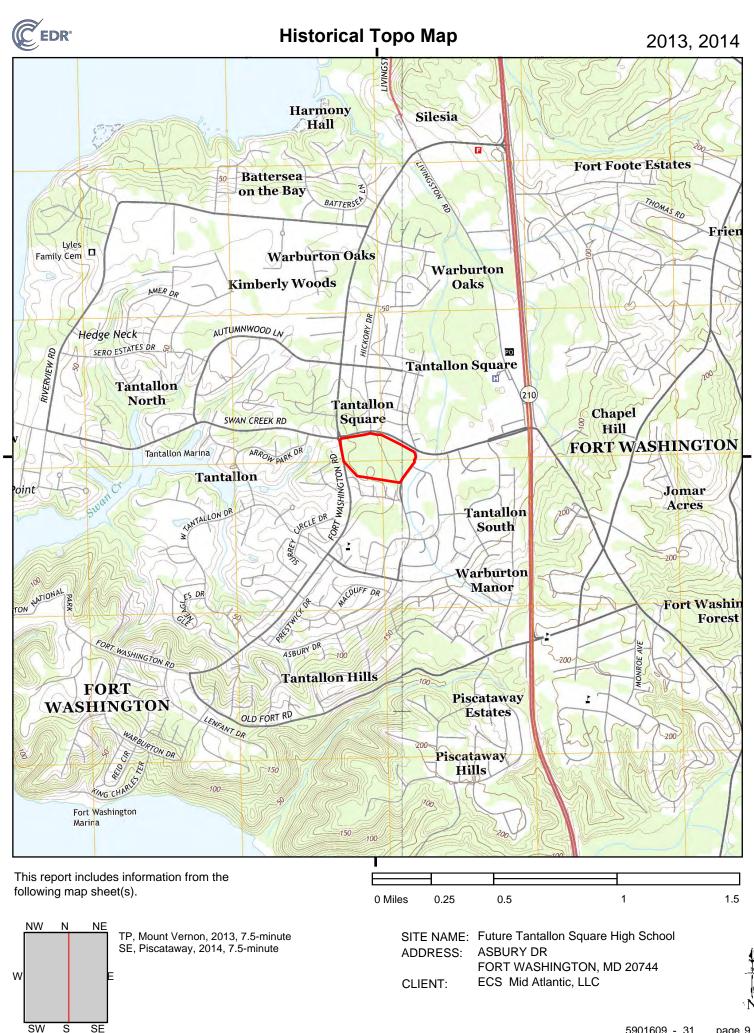


Mt. Vernon 1891 30-minute, 125000

1890 Source Sheets



Mt. Vernon 1890 30-minute, 125000





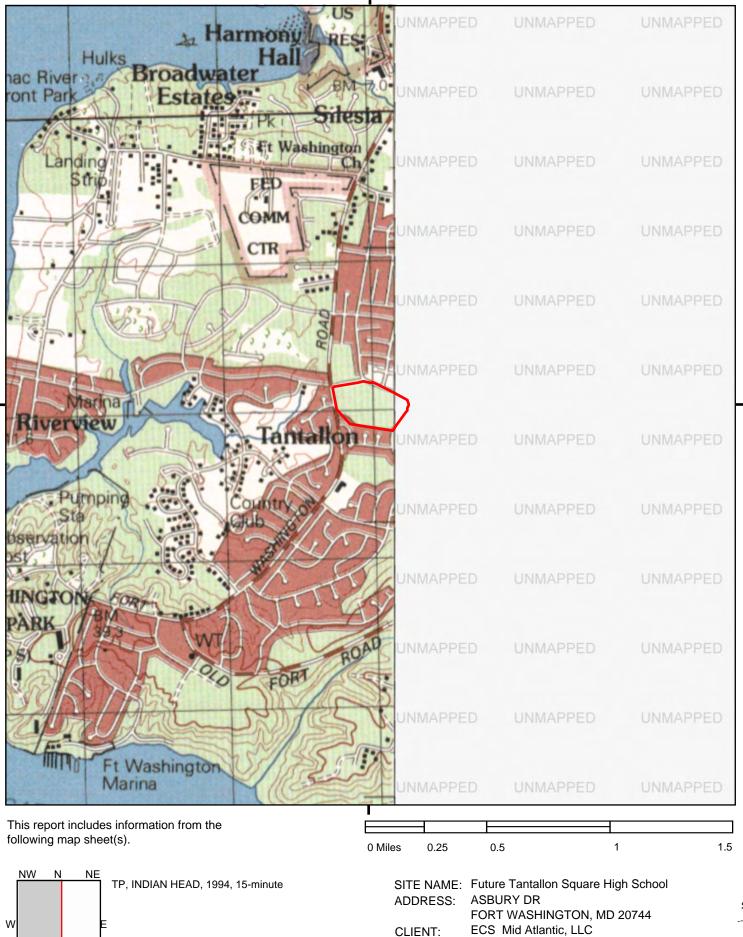
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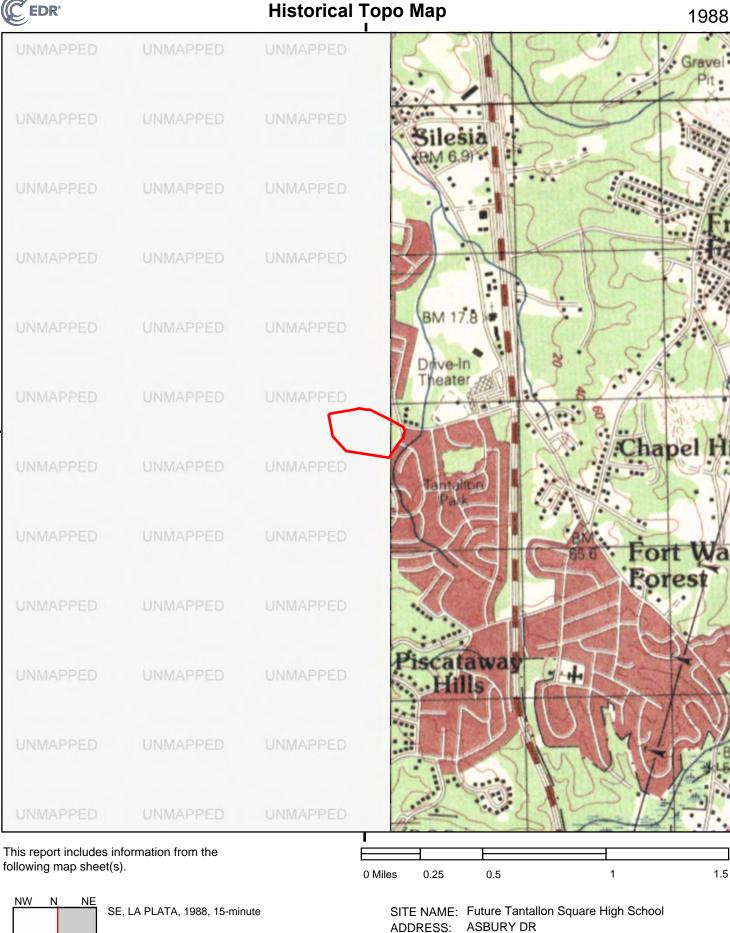
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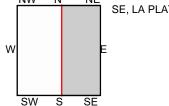
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Historical Topo Map

1994



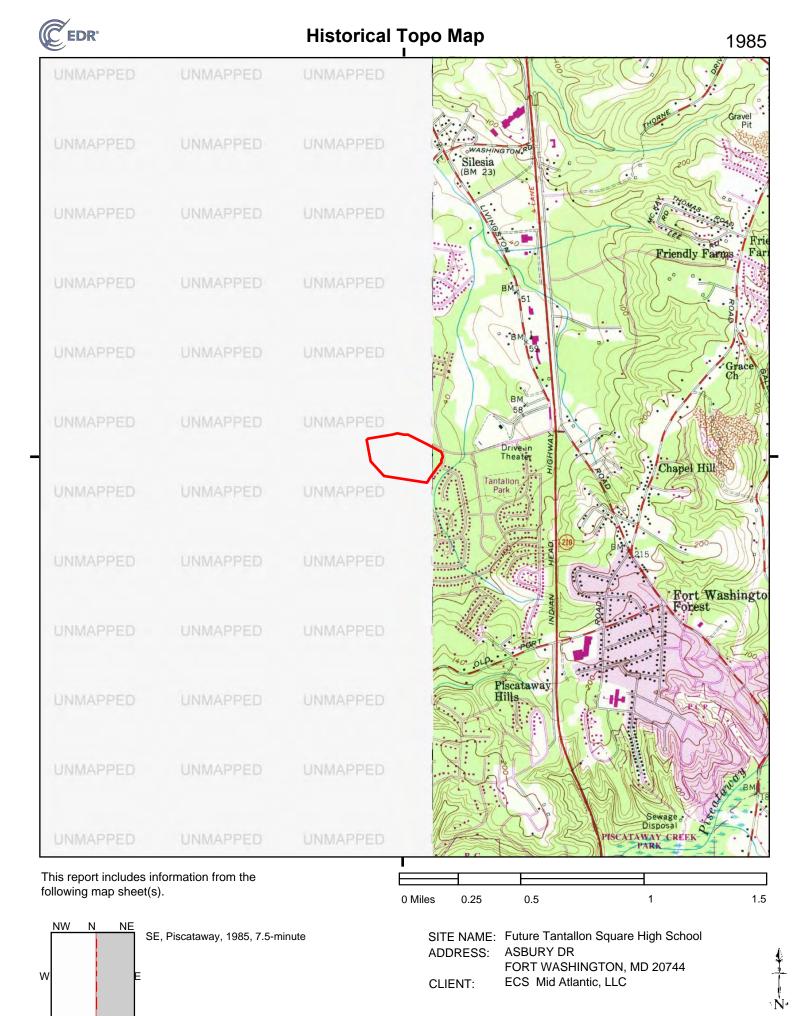




FORT WASHINGTON, MD 20744

ECS Mid Atlantic, LLC

CLIENT:



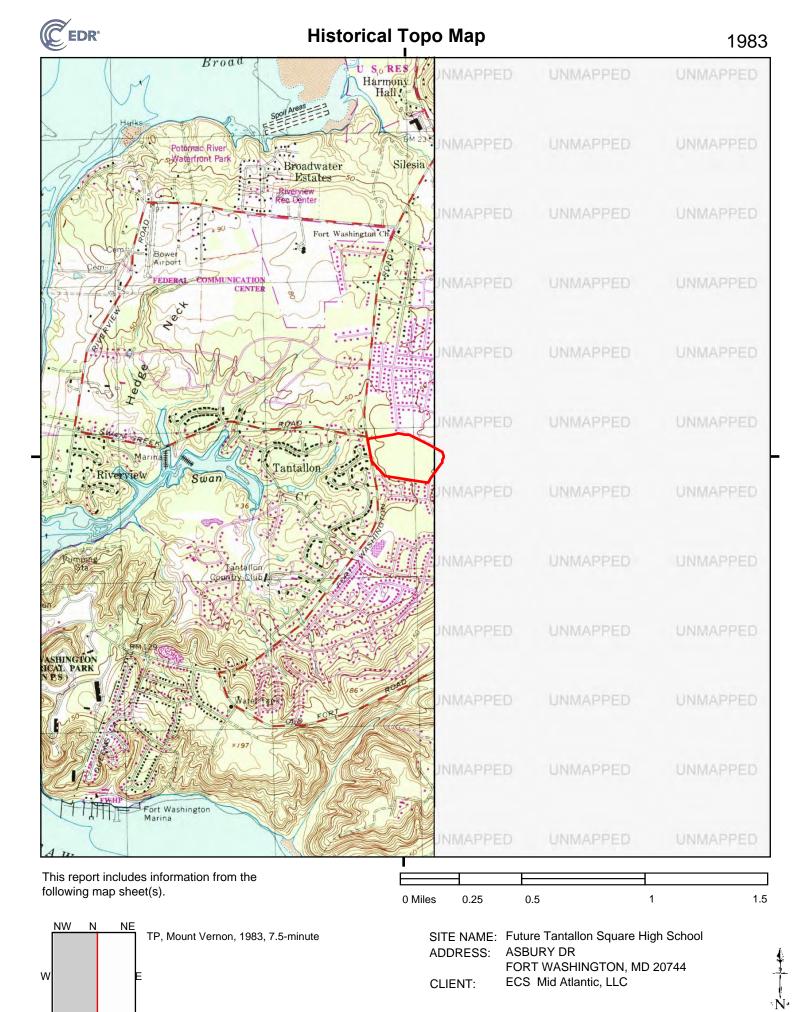
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S

SE

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SW

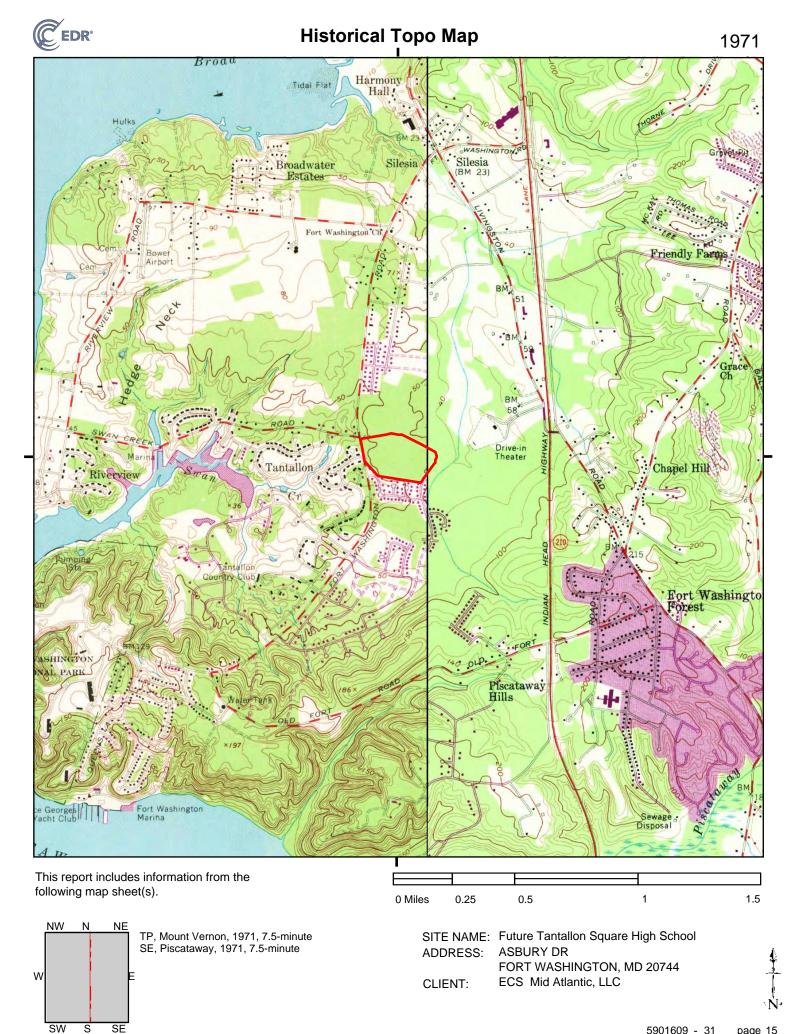
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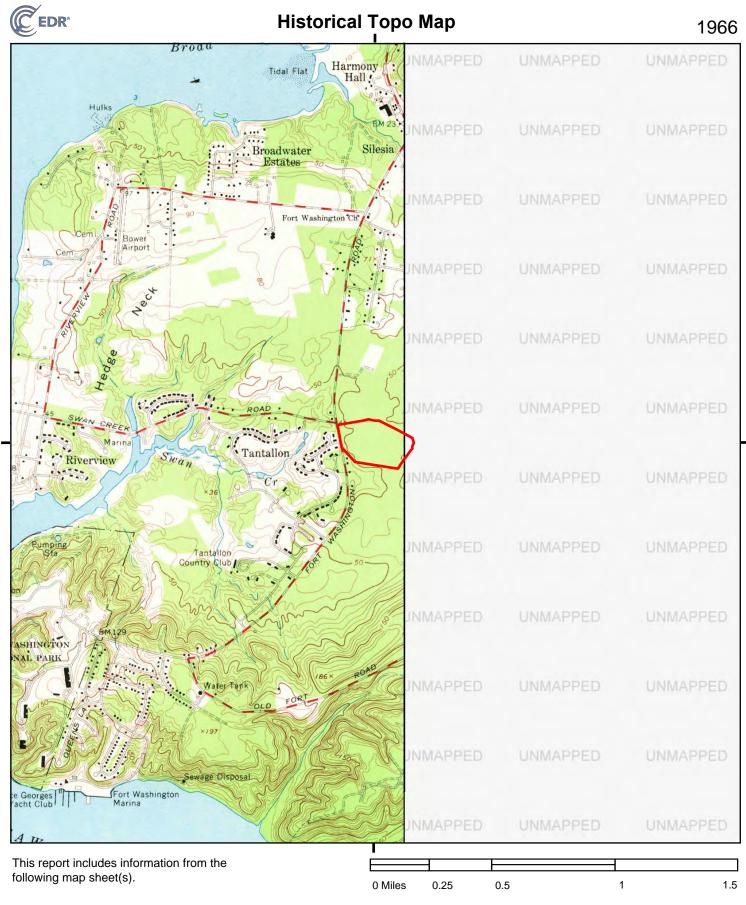
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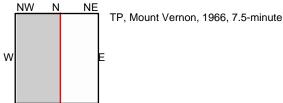
5901609 - 31

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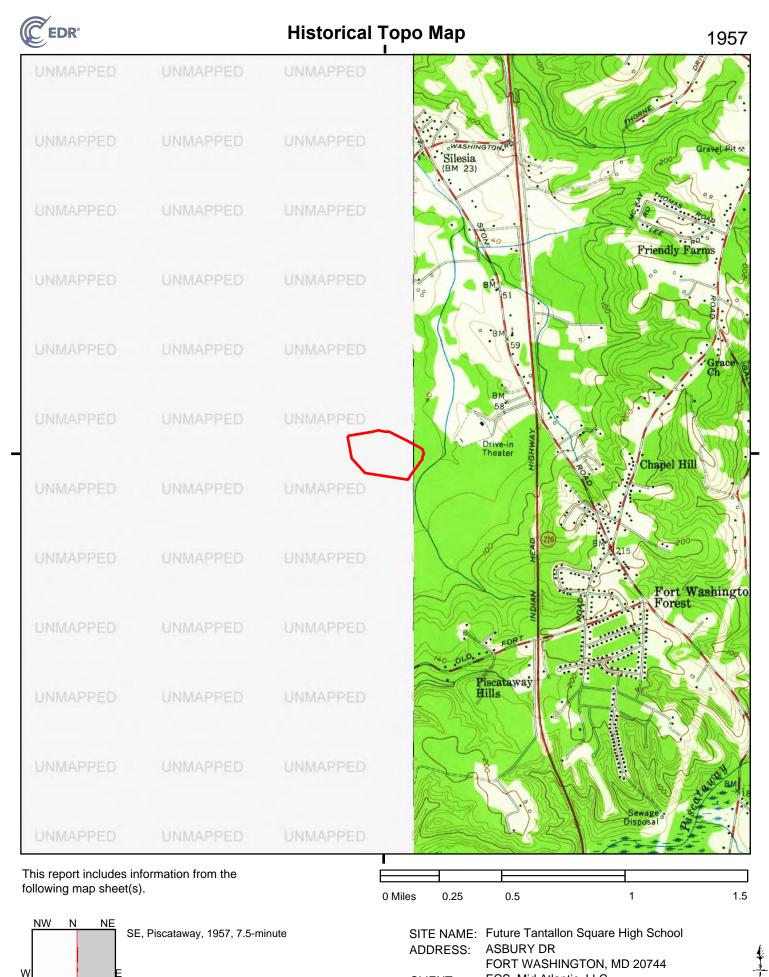




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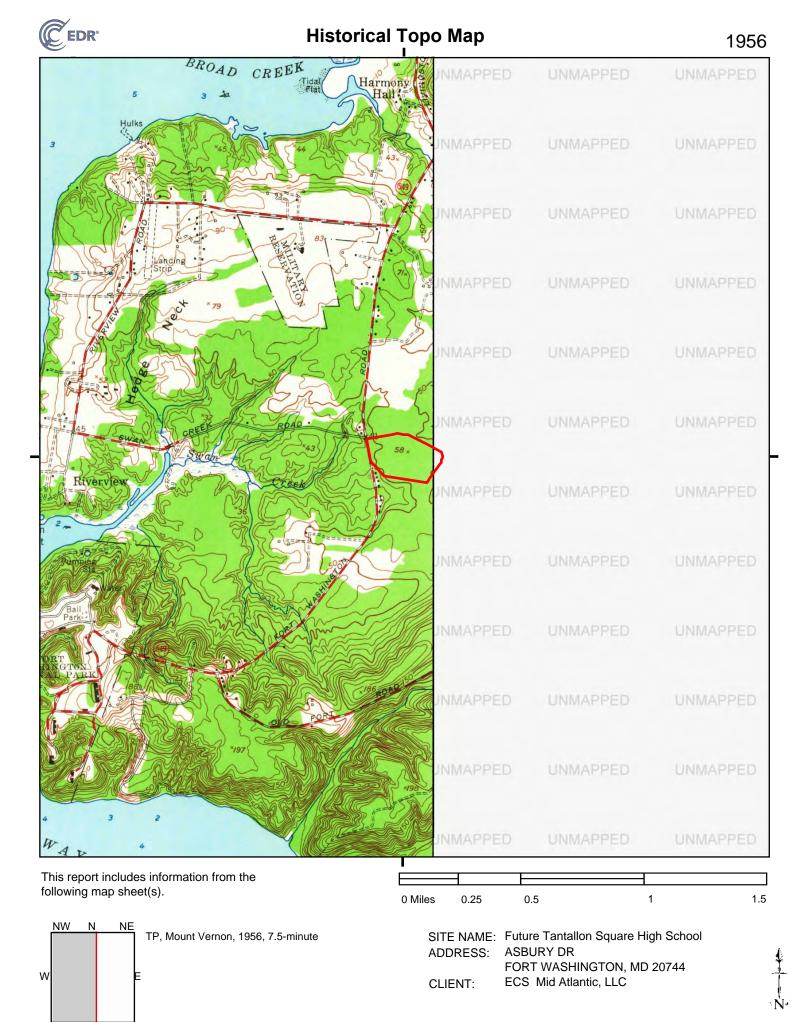
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ECS Mid Atlantic, LLC



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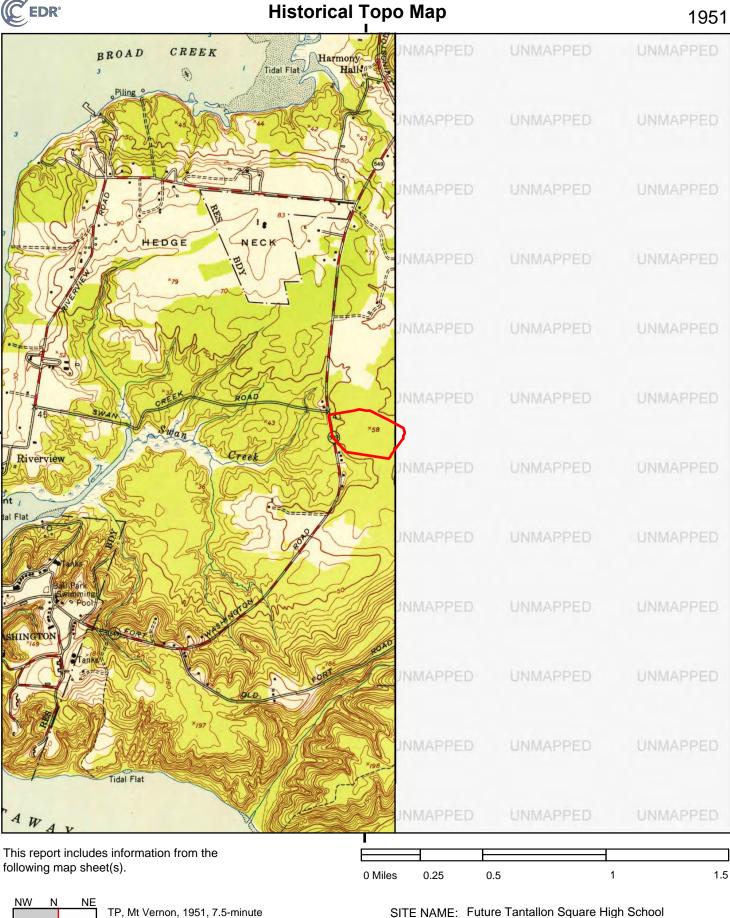


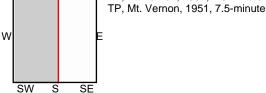
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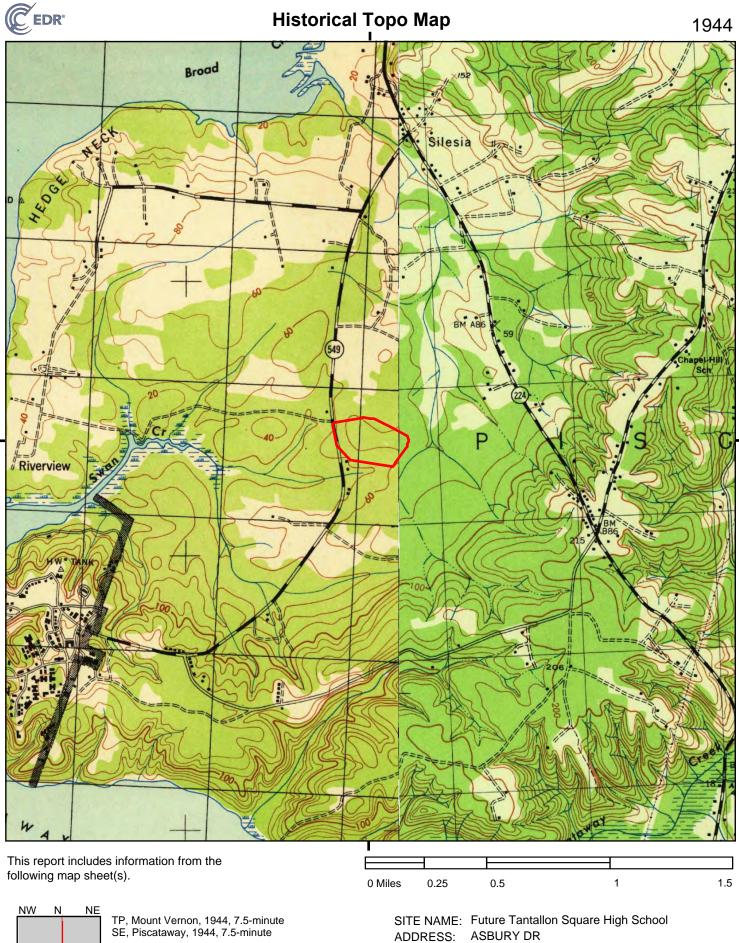
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SITE NAME: Future Tantallon Square High School ADDRESS: ASBURY DR FORT WASHINGTON, MD 20744 CLIENT: ECS Mid Atlantic, LLC

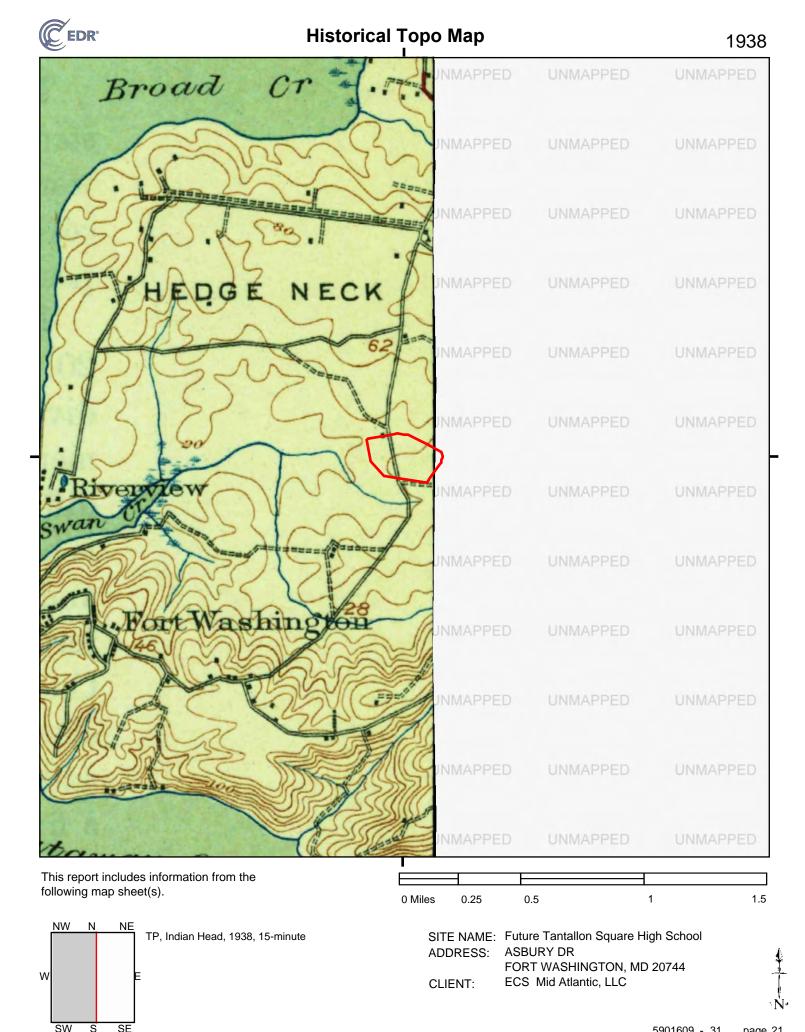


W S SE

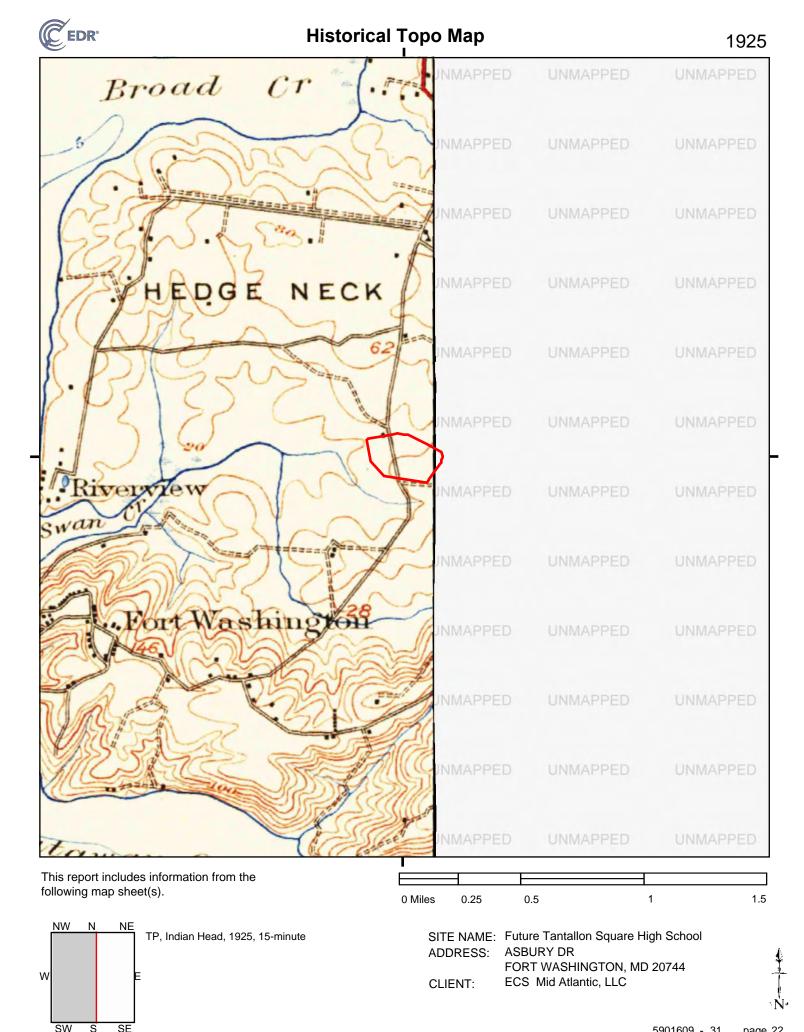
FORT WASHINGTON, MD 20744

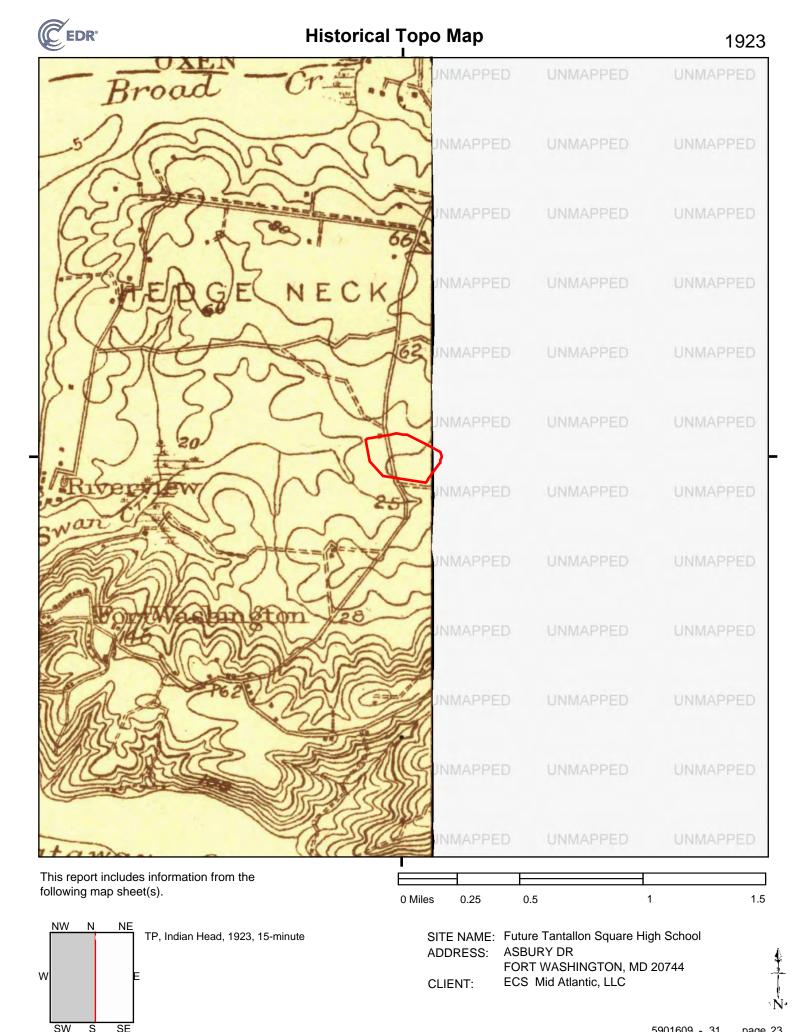
ECS Mid Atlantic, LLC

CLIENT:

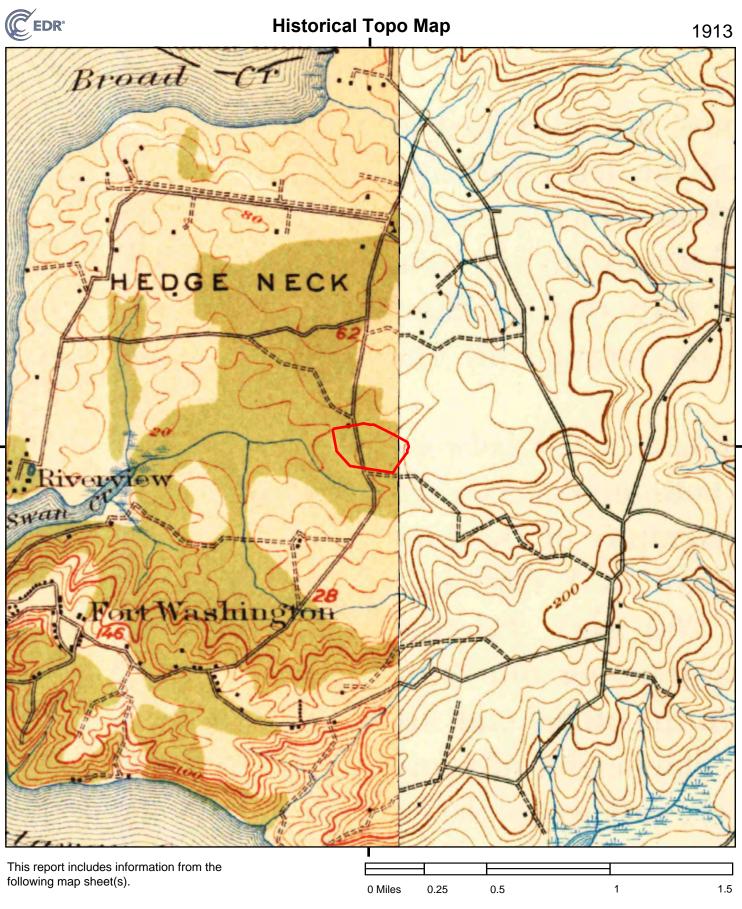


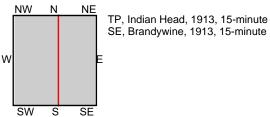
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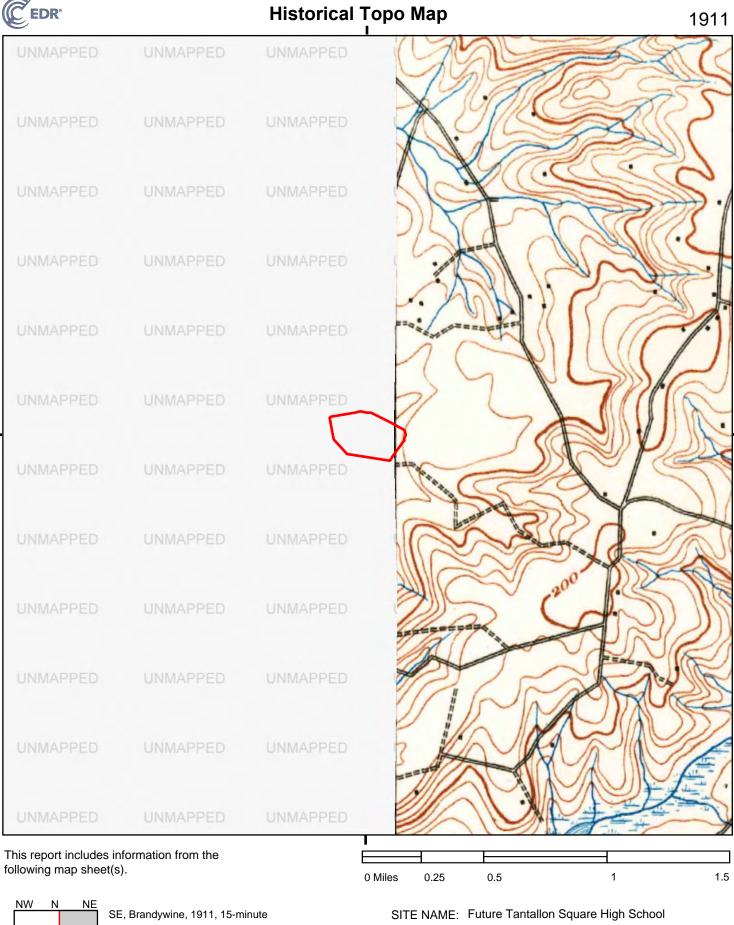


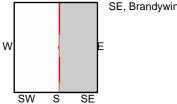
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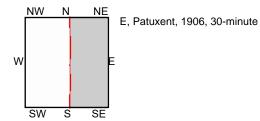


SITE NAME:	Future Tantallon Square High School
ADDRESS:	ASBURY DR
	FORT WASHINGTON, MD 20744
CLIENT:	ECS Mid Atlantic, LLC



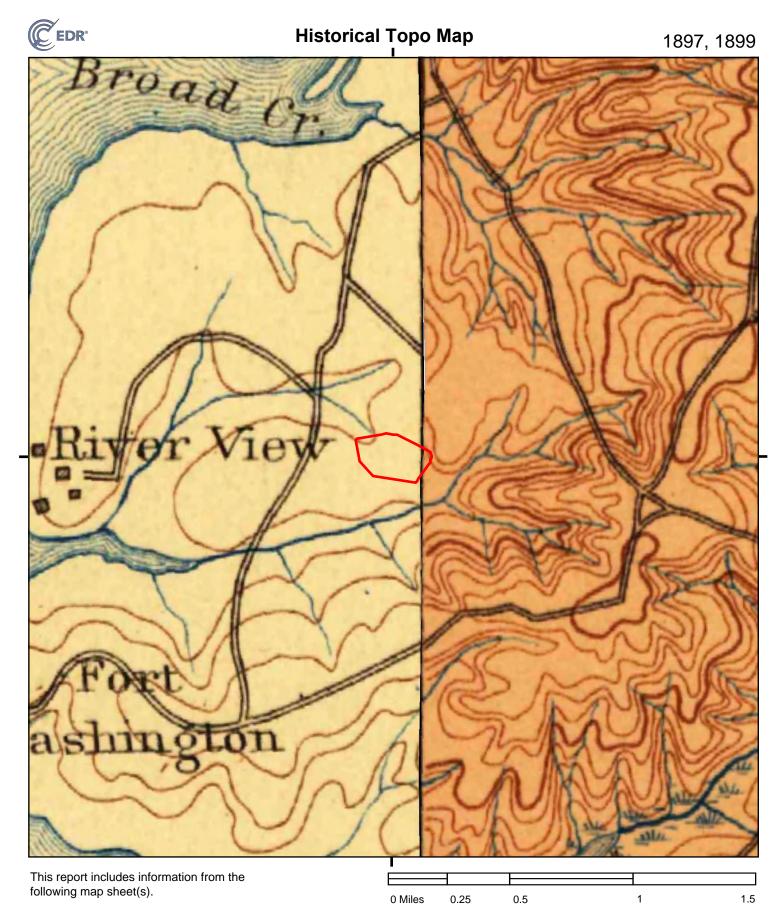


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SITE NAME:	Future Tantallon Square High School
ADDRESS:	ASBURY DR
	FORT WASHINGTON, MD 20744
CLIENT:	ECS Mid Atlantic, LLC

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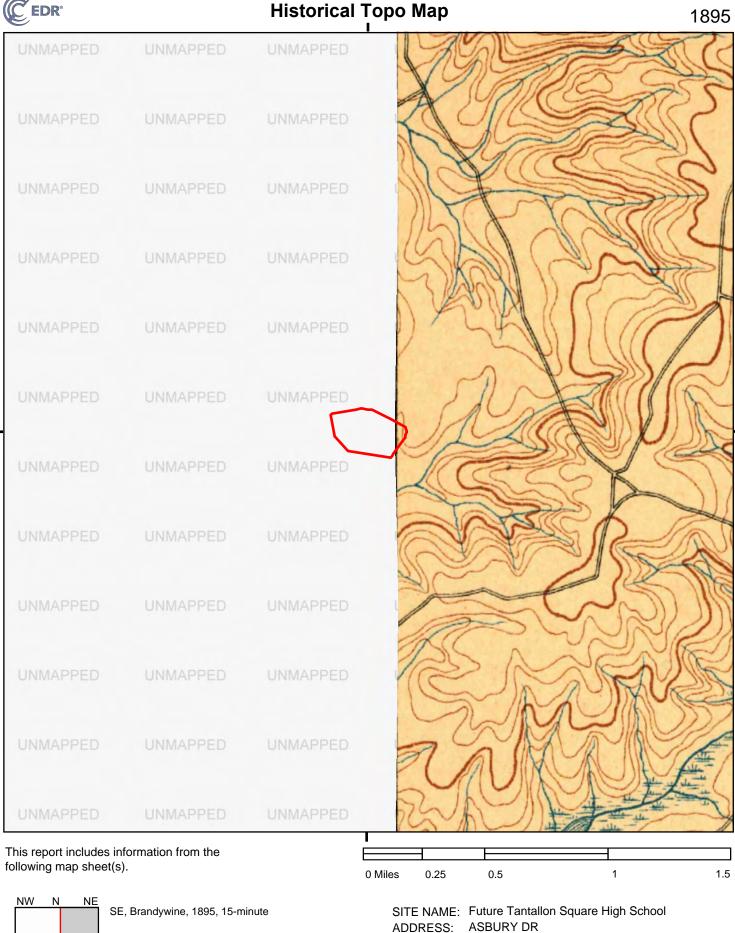


NW Ν NE TP, Mt. Vernon, 1897, 30-minute E, Patuxent, 1899, 30-minute W SW SE

S

SITE NAME:	Future Tantallon Square High School
ADDRESS:	ASBURY DR
	FORT WASHINGTON, MD 20744
CLIENT:	ECS Mid Atlantic, LLC

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FORT WASHINGTON, MD 20744

ECS Mid Atlantic, LLC

CLIENT:



SW

S

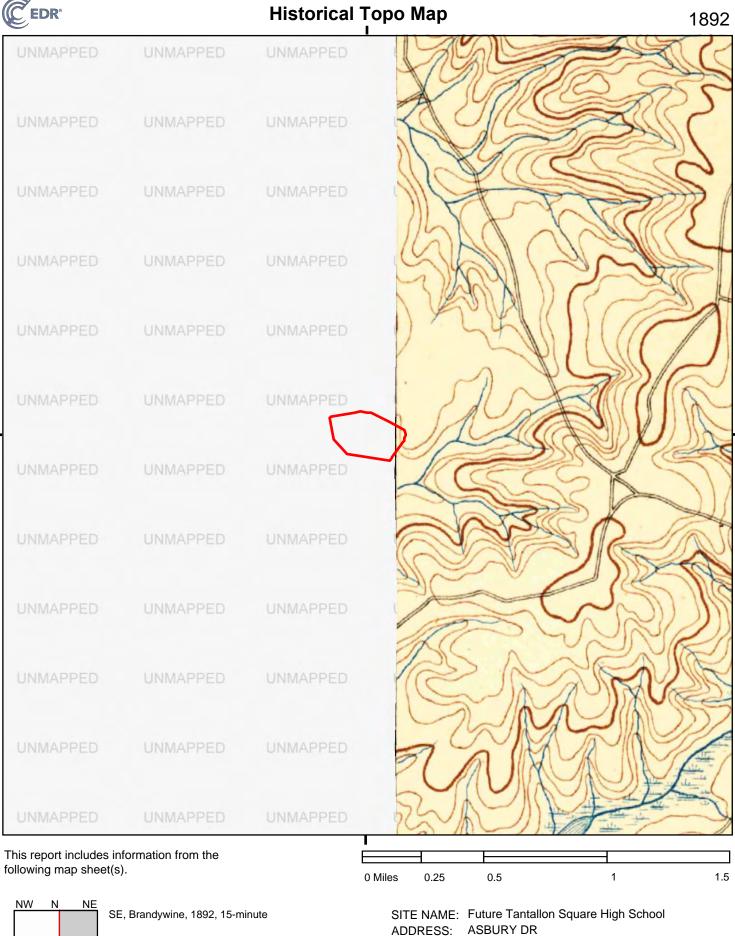
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Historical Topo Map

1894

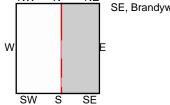
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		UNMAPPED	UNMAPPED
1 may	INMAPPED	UNMAPPED	UNMAPPED
12 , 27	INMAPPED	UNMAPPED	UNMAPPED
Int	INMAPPED	UNMAPPED	UNMAPPED
RiverView	INMAPPED	UNMAPPED	UNMAPPED
3/ L	INMAPPED	UNMAPPED	UNMAPPED
AC		UNMAPPED	UNMAPPED
ALY	NMAPPED	UNMAPPED	UNMAPPED
AT PORT	NMAPPED	UNMAPPED	UNMAPPED
ashington	BINMAPPED	UNMAPPED	UNMAPPED
		UNMAPPED	UNMAPPED
his report includes information from the blowing map sheet(s).			

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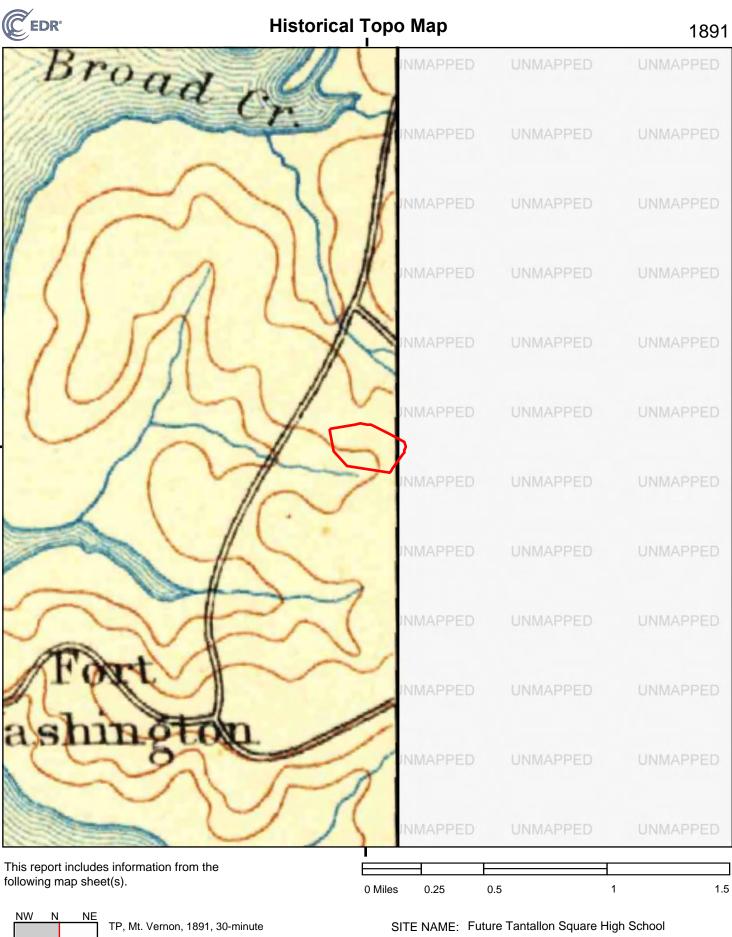
ADDRESS:

CLIENT:

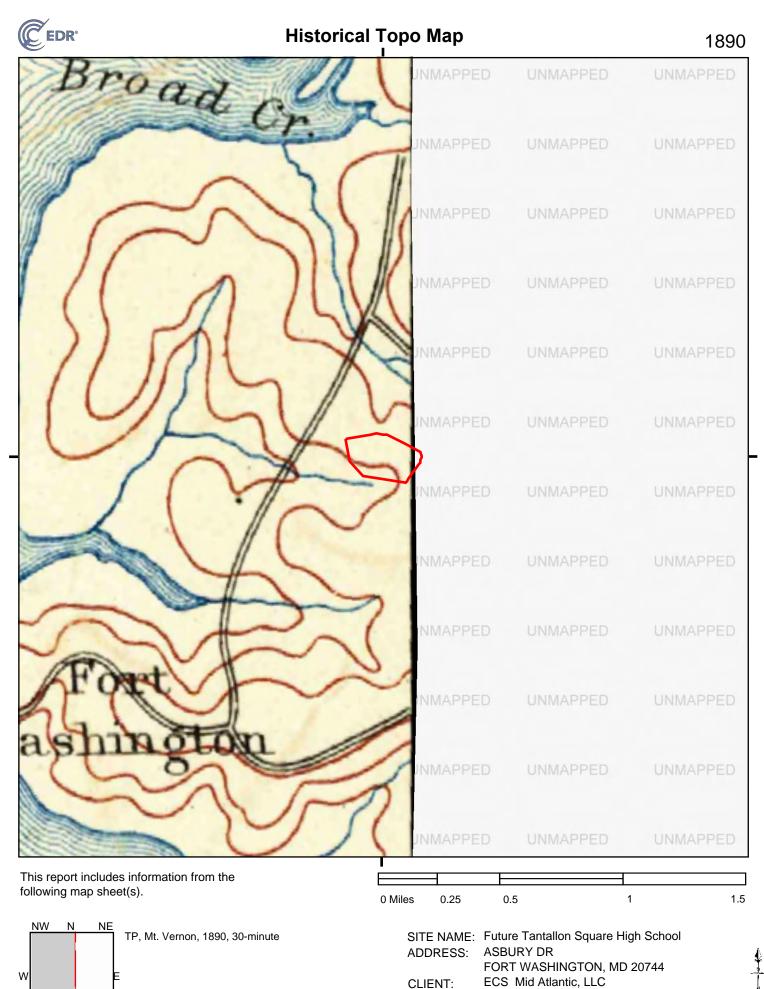


FORT WASHINGTON, MD 20744

ECS Mid Atlantic, LLC



TP, Mt. Vernon, 1891, W S SE



SW

S

SE

Future Tantallon Square High School ASBURY DR FORT WASHINGTON, MD 20744

Inquiry Number: 5901609.33 December 13, 2019

The EDR-City Directory Image Report



6 Armstrong Road Shelton, CT 06484 800.352.0050 www.edrnet.com

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City Directory Images

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EXECUTIVE SUMMARY

DESCRIPTION

Environmental Data Resources, Inc.'s (EDR) City Directory Report is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's City Directory Report includes a search of available city directory data at 5 year intervals.

RECORD SOURCES

EDR's Digital Archive combines historical directory listings from sources such as Cole Information and Dun & Bradstreet. These standard sources of property information complement and enhance each other to provide a more comprehensive report.

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RESEARCH SUMMARY

The following research sources were consulted in the preparation of this report. A check mark indicates where information was identified in the source and provided in this report.

<u>Year</u>	<u>Target Street</u>	<u>Cross Street</u>	<u>Source</u>
2014	\checkmark		EDR Digital Archive
2010	\checkmark		EDR Digital Archive
2005	\checkmark		EDR Digital Archive
2000	\checkmark		EDR Digital Archive
1995	\checkmark		EDR Digital Archive
1992	\checkmark		EDR Digital Archive
1987	\checkmark		Haines Criss-Cross Directory
1982	\checkmark		Haines Criss-Cross Directory
1976	\checkmark		Haines Criss-Cross Directory

FINDINGS

TARGET PROPERTY STREET

ASBURY DR FORT WASHINGTON, MD 20744

<u>Year</u>	<u>CD Image</u>	<u>Source</u>
ASBURY DR		
2014	pg A1	EDR Digital Archive
2010	pg A3	EDR Digital Archive
2005	pg A5	EDR Digital Archive
2000	pg A7	EDR Digital Archive
1995	pg A9	EDR Digital Archive
1992	pg A11	EDR Digital Archive
1987	pg A13	Haines Criss-Cross Directory
1987	pg A14	Haines Criss-Cross Directory
1982	pg A16	Haines Criss-Cross Directory
1976	pg A18	Haines Criss-Cross Directory
1976	pg A19	Haines Criss-Cross Directory
FORT WASHIN	GTON RD	

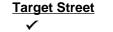
2014	pg A2	EDR Digital Archive
2010	pg A4	EDR Digital Archive
2005	pg A6	EDR Digital Archive
2000	pg A8	EDR Digital Archive
1995	pg A10	EDR Digital Archive
1992	pg A12	EDR Digital Archive
1987	pg A15	Haines Criss-Cross Directory
1982	pg A17	Haines Criss-Cross Directory
1976	pg A20	Haines Criss-Cross Directory

FINDINGS

CROSS STREETS

No Cross Streets Identified

City Directory Images

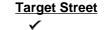


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Source EDR Digital Archive

ASBURY DR 2014

12103	BARRON LAWN SERVICE
12110	GREGORY K SCOTT
12204	OCCUPANT UNKNOWN,
12208	ESTUPINAN JOSE BALTAZAR
	PEREZ, JOSE D
12210	BURNETT, KAREN D
12212	BELL, BARON J
	COMMUNITY DEVELOPEMNT EXPERTS
12214	BELLAMY, LEVON D
12216	OCCUPANT UNKNOWN,
12217	BERRY, KAYLAN
12218	BOBO, DORIS A
12219	HAIGHT, MICHAEL A
12220	HUSSAIN, UMAR A
12221	H-3 INSURANCE
	HERNANDEZ, MAYRA E
12222	BYWATERS, JOHN A
12223	JONES, CLEVELAND
12300	BOBBY VERNON RICHARDSON
12301	CRUZ, JASON B
12302	OCCUPANT UNKNOWN,
12303	OCCUPANT UNKNOWN,
12304	STRONG, DEANNA
12305	JONES, WENDELL
12307	BRYANT, BROWN
	HAIRSTON, WARREN K
12312	,
12314	TILAHUN, DEREJE

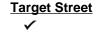


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Source EDR Digital Archive

FORT WASHINGTON RD 2014

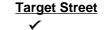
- 12400 ANDREA JACKSON CANNON
- 12500 FORT WASH BYS & GIRLS CLB PRINCE GORGES CNTY PUB SCHOOLS



-

ASBURY DR 2010

12103	BARRON LAWN SERVICE
12110	GREGORY K SCOTT
12200	
12204	
12208	BALTAZAR, ESTUPINAN J
	E & S CNSTR & DRYWALL INC
	ESTUPINAN JOSE BALTAZAR
12210	
12212	,
	COMMUNITY DEVELOPEMNT EXPERTS
12214	JACKSON, HATTIE B
12216	EDWARDS, CHARLENE
12217	SINGH, SHIVASTI U
12218	BOBO, WILTON C
12219	
12220	
12221	GARDNER, CYNTHIA
	HAPPY TIME DAYCARE
12222	BYWATERS, JOHN A
12223	
	OKAT PROPERTIES LLC
12300	TIPPS, LOUIE K
12301	CRUZ, ENRIQUE C
12302	COLBERT, MARC A
12303	SMITH, JUAN D
12304	
12305	JONES, ANGELA M
	RAY VELASQUEZ
12307	
12312	····_, ···_, ··· ·
12314	TILAHUN, DEREJE



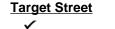
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Source EDR Digital Archive

FORT WASHINGTON RD 2010

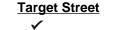
12400 ANDREA JACKSON CANNON

12500 0 7 7 DAY EMERGENCY A 24 HOUR 124 HOUR 7 DAY EMERG A LOCK A BOARD OF EDUCATION OF FORT WASH BYS & GIRLS CLB



ASBURY DR 2005

- 12103 BARRON LAWN SERVICE
- 12200 ALEXIS BRIDAL EMPORIUM INC
- 12204 AHMAD, MUBARIK
- 12208 WILLIAMS, W
- 12210 BURNETTE, KAREN D
- 12212 BELL, BARON J
- COMMUNITY DEVELOPMENT EXPERTS
- 12214 JACKSON, HATTIE B
- 12216 FORTUNATO, EDWARD L
- 12217 BEACHAM, DAVID
- 12218 BOBO, WILTON C
- 12219 FANNING, THOMAS R
- 12220 HUSSAIN, UMAR A PREVENTION MAINTENANCE CORP
- 12221 BROWN, RICARDO R
- 12222 BYWATER, JOHN A
- 12223 JOHNSON, ANNETTE M
- 12300 RICHARDSON, BOBBY R
- 12301 OCCUPANT UNKNOWN,
- 12302 COLBERT, MARC A
- 12303 OCCUPANT UNKNOWN,
- 12304 HARRY, JOHN C
- 12305 VELASQUEZ RAY ATTY VELASQUEZ, RAY H
- 12307 BROWN, EARLTON A
- 12312 BOLDEN, JOHNNY J
- 12314 TILAHUN, DEREJE

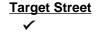


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Source EDR Digital Archive

FORT WASHINGTON RD 2005

12500 0 7 7 DAY EMERGENCY A 24 HOUR 124 HOUR 7 DAY EMERG A LOCK A BOARD OF EDUCATION OF PRMD INC FORT WASH BYS & GIRLS CLB PRINCE GEORGES COUNTY OF

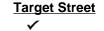


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Source EDR Digital Archive

ASBURY DR 2000

12103	BARRON LAWN SERVICE
12208	MCDONALD, RALPH
12210	SCRIVENS, D G
12214	JACKSON, DARYL N
12216	FORTUNATO, EDWARD
12217	LAMA, M N
12218	BOBO, WILTON C
12219	OCCUPANT UNKNOWN,
12220	PREVENTION MAINTENANCE CORP
	WELBORN, TONARRA M
12221	GOFF, SYLVIA A
12222	BYWATERS, JOHN A
12223	JOHNSON, ANNETTE
12300	RICHARDSON, B
12301	OCCUPANT UNKNOWN,
12302	WILLIAMS, RUFUS H
12303	ROCLAD & ASSOC INC
	WATERHOUSE, LOIS
12304	HARRY, JOHN C
12305	RAY VELASQUEZ ATTY
	VELASQUEZ, RAY
12307	BROWN, GLORIA J
12312	OCCUPANT UNKNOWN,
12314	OCCUPANT UNKNOWN,

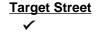


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Source EDR Digital Archive

FORT WASHINGTON RD 2000

12500 BOARD EDCTN PRNC GRG CNTY FORT WASH BYS & GIRLS CLB

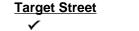


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Source EDR Digital Archive

ASBURY DR 1995

12208	MCDONALD, RALPH
12210	DOWNEY, ANDREW L
12212	WOODS, DANNY
12214	JACKSON, DARYL N
12216	FORTUNATO, EDWARD
12217	HOLMES, DAVID W
12218	BOBO, WILTON C
12219	FANNING, THOMAS R
12220	FOWLER, TARIQ
	JOHNSON, DONNA R
	WASHINGTON, LOUISE
12222	BYWATERS, JOHN A
12223	MARTIN, JOSEPH
12300	RICHARDSON, ROBERT
12301	OCCUPANT UNKNOWNN
12302	OCCUPANT UNKNOWNN
12303	WATERHOUSE, TIM
12304	HARRY, JOHN C
12305	VELASQUEZ, RAY
12307	BROWN, GLORIA
12312	JACKSON, MARY K
	JENZANO, CAROL A
12314	NESSIBU, T



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Source EDR Digital Archive

FORT WASHINGTON RD 1995

12500 BOARD EDCTN PRNC GRG CNTY PRINCE GEORGES COUNTY MD

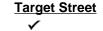


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Source EDR Digital Archive

ASBURY DR 1992

12208 MCDONALD, RALPH 12212 LOFTIN, ALBERT 12214 JACKSON, HATTIE B 12216 FORTUNATO, EDWARD 12217 HOLMES, DAVID W 12219 FANNING, THOMAS R 12220 WASHZNGTON, LOUISE 12221 HALE, MARK A 12300 RICHARDSON, ROBERT 12304 HARRY, JOHN 12305 VELASQUEZ, RAY 12307 **BROWN, GLORIA** 12312 JACKSON, MARY PYLE, TROY 12314 NESSIBU, T



Cross Street

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Source EDR Digital Archive

FORT WASHINGTON RD 1992

12340 LOPEZ MANUEL G SERVICE INC12500 PRINCE GEORGES COUNTY MD

Target	<u>Street</u>
\checkmark	

Cross Street

-

Source Haines Criss-Cross Directory

ASBURY DR 1987

	URY DR 20744 VASHINGTON M	D	
11908	XXXX	00	
11909	OBANION S	292-6464	6
11912	FORD S	292-4006	3
11914	XXXX	00	
12002	CHENETTE GEORGE 3D	292-3606	+7
E	CHENETTE JUSTINE	292-3606	+7
12004	MCNAUGHTON CHARLES	292-9379	+7
12006	HARRISON MCKINLEY	292-8271	

Target Street Cross Street √ ✓

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<u>Source</u> Haines Criss-Cross Directory

ASBURY DR 1987

ASBUR	Y DR	20744 CONT
12007	XXXX	00
12012	CHEN HUA	292-6944 6
12014	DETURRIS DAWN	292-7839 +7
10 100	DETURRIS GEORGE	292-7839 +7
12200	XXXX	00
12208	MCDONALD RALPH E	292-3049
12212	XXXX	00
12214	JACKSON HATTIE B	292-4656
12215	XXXX	00
12216	FORTUNATO EDWARD	292-6276 2
12217	HOLMES DAVID W	292-5373
12218	XXXX	00
12219	LUSK GENE F	292-6326 9
12220	XXXX	00
12221	HALE MARK A	292-7585 5
12222	BYWATERS JOHN A	292-5841
12223	BERGERT LOIS	292-5243 0
12300	PIPPIN DOUG	292-6019 6
1000	PIPPIN SUE	292-6019
12301	XXXX	00
12302	PLATT P	292-7549 5
12303	WATERHOUSE LOIS	292-5608 +7
12304	HARRY JOHN	292-4525
1	HARRY KEIKO	292-4525
12305	VELASQUEZ RAY	292-2120
12307	BROWN GLORIA	292-4929 6
12312	XXXX	00
12314	JORDON DONALD L	292-4763 8

✓

Target StreetCross Street

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Source Haines Criss-Cross Directory

FORT WASHINGTON RD 1987

12000	XXXX AMONG DOWN MON	00	210
12001	XXXX	00	10
12002	NEELON JAMES	292-3327	24
12003	XXXX	00	101-
12004	ELDRIDGE JOANA G	292-4111	110
12007	XXXX	00	20
12011	BARNARD MARVIN	292-0435	4
12013	XXXX	00	12
12015	GOODE CONSTANCE	292-9186	6
	GOODE STEVEN	292-9186	14
12101	COLE SAMUEL E	292-9530	10.1
12105	XXXX	00	10
12208	ROSIER ETHEL	292-3466	86
12.19	ROSIER MICHAEL	292-3466	6
12301	XXXX	00	11
12400	POOLE HERBERT T	292-1527	101
12500	*FORT WASH REC CNCL	292-3978	3
1.00	*PR GEO SC PTMC LNDG	292-6100	1
12902	DEVERGIE ALAIN C	292-2336	0
12904	POULOS CHARLES D	292-8309	+7
12906	PARKERSON ROCHARD L	292-1799	0
12908	HATTON MAURICE	292-3733	11
1.000	HATTON YVONNE W	292-3733	10
13101	RUBINICH FRANCES	292-9214	1
13105	HAHN T	292-7009	6
1 644	PLUMMER GEORGE H	292-1470	19.
13109	PLUMMET G	292-1470	6
13110	MICHALEK JOSEPH L	292-1326	N
0.0101	MICHALEK MARGARET H	292-1326	11
13121	TOMPKINS GEO E SR	292-1208	100
Veen al	A 44 44 44 4		

Target Street ✓ Cross Street

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Source Haines Criss-Cross Directory

ASBURY DR 1982

ASR	URY DR 20744	0042	
FT WASHINGTON MD			
	ASTINGTON		
12208	MCDONALD RALPH E	292-3049 7	
12212	XXXXX	00	
12214	JACKSON HATTIE B	292-4656 7	
12215	XXXX	00	
12216	FORTUNATO EDWARD	292-6276 +2	
12217	HOLMES DAVID W	292-5373 7	
12218	BOBO WILTON C	292-6049 +2	
12219	LUSK GENE F	292-6326 9	
12220	HODSDON DENNIS LTC ANDERSON BOYD D	292-1395 1	
12222	BYWATERS JOHN A	292-5129 8	
12223	BERGERT LOIS MRS	292-5841 7 292-5243 0	
12300	DOUG PIPPIN PHOTO	292-5789+2	
12000	PIPPIN D W	292-5789 1	
12301	XXXX	00	
12302	EDDY WILLIAM C CAPT	292-6736 9	
12303	DONNELL KAREN	292-6942 +2	
12000	WARDLAW DORIS C	292-1628 1	
12304	HARRY JOHN	292-4525 0	
12305	VELASQUEZ RAY	292-2120	
12307	WAZEKA GEO C	292-3581 6	
12312	LITTLE BOBBY J	292-2118	
12314	JORDON DONALD L	292-4763 8	
12400	LOUIE W W	292-4132 0	
12401	FALK GEORGE D	292-4669 1	
12402	LAZARO ROBERT A	292-9270 8	
12408	GEDDINGS LANARD M	292-5806 +2	
12410	FITCH ROBERT J MAJ	292-5632 1	
12411	COCCA THEODORE	292-2786 0	
12412	PATE GEORGE W	292-5247 8	
12413	POTES DOMINADOR	292-6268 9	
12414	RILEY J R	292-3418 +2	
12415	WOODARD BOOKER T	292-1062 4	
12416	HOISINGTON KENT MAJ	292-5731 1	
12417	SHAHVARI M DR	292-5259 8	
12419	KLEIN ROBERT E	292-2467 8	
12421	COHEN EDWARD	292-6255 +2	

Target Street

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Cross Street

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Source Haines Criss-Cross Directory

FORT WASHINGTON RD 1982

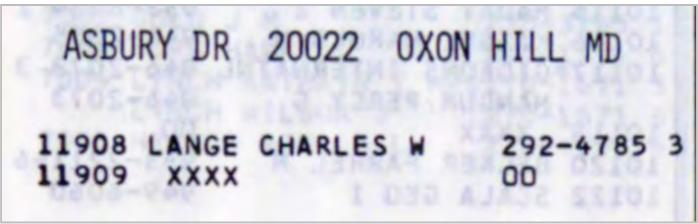
	FORT WASHINGTON RD	1982
12000	XXXX	00
12002	NEELON JAMES	292-3327
12004	ELDRIDGE JOANA G	292-4111
12006	XXXX	00
12007	ZALUSKY DAVID	292-3481 +2
	ZALUSKY JOHN	292-5971 +2
12008	XXXX	00
12010	XXXX	00
12015	TORRADO MIGUEL	292-3670 1
12101	COLE SAMUEL E	292-9530 4
12105	PALMER D K	292-4217 1
12208	WIELGA JOS T	292-2666
12301	XXXX	00
12400	POOLE HERBERT T	292-1527
12500	PR GEO CO PK CTR	292-9191+2
	PR GEO SC PTMC LNDG	292-6100 1
12902	DEVERGIE ALAIN C	292-2336 0
12906	PARKERSON ROCHARD L	292-1799 0
12908	HATTON MAURICE	292-3733 0
	HATTON YVONNE W	292-3733 0
13101	RUBINICH FRANCES	292-9214 1
13105	PLUMMER GEORGE H C	292-1470 3
13109	PLUMMER FOREST C	292-1623
13110	MICHALEK JOS L	292-1326
13121	TOMPKINS GEO E SR	292-1208
1.1	TOMPKINS PATRICIA	292-5156 +2
13201	XXXX	00
13300	XXXX	00
13302	XXXX	00
13304	BESSLER LAWRENCE H	292-2731
13306	ROSS DAVID J	292-1666 3
13308	FULLER WALTER T	292-1652
13310	COOGAN FRANCIS COL	292-2580
13312	KALINOWSKI RAYMOND	292-9139 5
13314	STEPHANSON CHAS	292-2353
13316	XXXX	00
13318	LEWIS BERNARD L	292-4879 4
13320	STARK A B	292-4573 5



Cross Street

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ASBURY DR 1976



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Source Haines Criss-Cross Directory

ASBURY DR 1976

		CURAT CONTENT
ASBU	JRY DR	20022 CONT
11912	FRINK EDWARD J	292-4768 3
11914	SUTTON MORRIS L	292-4581 3
122154	RYAN HOMES INC	292-9235+6
12217	COOK EDWIN C	292-2004 1
12218	BRUNNER JAMES J	292-5016 5
12219	STATHAM LORETTA	292-5574+6
12220	MOORE N LESLIE	292-1244 3
12221	REGAN CHARLES A	292-1221 2
12222	DODLEY THOMAS E	4D 292-4188 2
12223	XXXX	00
12300	WILSON WENDELL W	292-4025 4
12301	MCWHORTER HUGH A	292-2435+6
12302	GALLAGHER RICHARD	292-2409+6
12303	LEFFLER DONALD L	TC 292-4787 3
- wear	LEFFLER T	292-4792 3
12304	STAPLES DAVID N	292-3460 2
12305	VELASQUEZ RAY	292-2120 1
12307	WAZEKA GEO C	292-3581+6
12312	LITTLE BOBBY J	292-2118 2
12314	XXXX	00

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Target StreetCross Street

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Source Haines Criss-Cross Directory

FORT WASHINGTON RD 1976

12000 LYNN STEPHEN E DDS	292-4144 2
12002 NEELON JAMES	292-3327 2
12004 ELDRIDGE JOANA G	292-4111 2
12006 XXXX	00
12008 MANLEY LAWRENCE W	292-3510 2
12101 COLE SAMUEL E	292-9530 4
12105 GREEN A F	292-2022 2
12208 WIELGA JOS T	292-2666 2
12301 XXXX	00
12400 POOLE HERBERT T	292-1527 1
13101 PLUMMER MINNIE MRS	292-1290 5
13105 PLUMMER GEORGE H C	292-1470 3
13109 PLUMMER FOREST C	292-1623 1
13110 MICHALEK JOS L	292-1326
13121 TOMPKINS GEO E SR	292-1208
13201 BREEDEN E	292-1557+6
13300 XXXX	00
13302 XXXX	00
13304 BESSLER LAWRENCE H	292-2731 0
13306 ROSS DAVID J	292-1666 3
13308 FULLER WALTER T	292-1652 2
13310 COOGAN FRANCIS COL	292-2580 1
13312 KALINOWSKI RAYMOND	292-9139 5
13314 STEPHANSON CHAS	292-2353
13316 NIGRA VINCENT	292-5742+6
13318 LEWIS BERNARD L	292-4879 4
13320 STARK A B	292-4573 5
NO #*AMER SERVICE CORP	292-4467 5

Appendix V: Additional Information

"Setting the Standard for Service"



December 11, 2019

Lori Byrne DNR Wildlife & Heritage Service 580 Taylor Ave. Tawes Office Bldg E-1 Annapolis MD 21401

Reference: ECS Project No. 47: 9541, Tantallon Square High School Environmental Review Request Latitude 38.722792, Longitude-77.000861

Ms. Byrne:

I am respectfully submitting a request for an environmental review of the Tantallon Square High School project. This includes any information you may have on rare, threatened, or endangered species within or near the vicinity of the project boundaries. Appended to this request is a site location map for your use.

The site is located on two parcels that do not have a physical address. This site contains two wooded parcels: Map 131 Grid F2 Parcel 000 & Map 131 Grid F3 Parcel 000 in Fort Washington, Prince Georges County, Maryland. It is approximately 30-acres in size located south of Swan Creek Road and east of Fort Washington Road. Based on information from aerial imagery, the study area is wooded land. Proposed development includes a potential new high school.

If you have any questions regarding the contents of this letter or need additional information to conduct your search, please do not hesitate to contact us at 703-471-8400.

Sincerely,

ECS MID-ATLANTIC, LL

unifer Auderson

Jannifer Anderson Environmental Project Manager Jannifer.Anderson@ecslimited.com

Site Boundary





United States Department of the Interior

FISH AND WILDLIFE SERVICE Chesapeake Bay Ecological Services Field Office 177 Admiral Cochrane Drive Annapolis, MD 21401-7307 Phone: (410) 573-4599 Fax: (410) 266-9127 <u>http://www.fws.gov/chesapeakebay/</u> http://www.fws.gov/chesapeakebay/endsppweb/ProjectReview/Index.html



IPaC Record Locator: 020-19444231

December 27, 2019

Subject: Consistency letter for the 'Tantallon Square High School' project indicating that any take of the northern long-eared bat that may occur as a result of the Action is not prohibited under the ESA Section 4(d) rule adopted for this species at 50 CFR §17.40(o).

Dear Jannifer Anderson:

The U.S. Fish and Wildlife Service (Service) received on December 11, 2019 your effects determination for the 'Tantallon Square High School' (the Action) using the northern long-eared bat (*Myotis septentrionalis*) key within the Information for Planning and Consultation (IPaC) system. You indicated that no Federal agencies are involved in funding or authorizing this Action. This IPaC key assists users in determining whether a non-Federal action may cause "take"^[1] of the northern long-eared bat that is prohibited under the Endangered Species Act of 1973 (ESA) (87 Stat.884, as amended; 16 U.S.C. 1531 et seq.).

Based upon your IPaC submission, any take of the northern long-eared bat that may occur as a result of the Action is not prohibited under the ESA Section 4(d) rule adopted for this species at 50 CFR §17.40(o). Unless the Service advises you within 30 days of the date of this letter that your IPaC-assisted determination was incorrect, this letter verifies that the Action is not likely to result in unauthorized take of the northern long-eared bat.

Please report to our office any changes to the information about the Action that you entered into IPaC, the results of any bat surveys conducted in the Action area, and any dead, injured, or sick northern long-eared bats that are found during Action implementation.

If your Action proceeds as described and no additional information about the Action's effects on species protected under the ESA becomes available, no further coordination with the Service is required with respect to the northern long-eared bat.

2

[1]Take means to harass, harm, pursue, hunt, shoot, wound, kill, trap, capture, or collect, or to attempt to engage in any such conduct [ESA Section 3(19)].

Action Description

You provided to IPaC the following name and description for the subject Action.

1. Name

Tantallon Square High School

2. Description

The following description was provided for the project 'Tantallon Square High School':

30 Acre wooded area in a residential zone of Prince Georges County, Maryland. Site of a proposed new high school

Approximate location of the project can be viewed in Google Maps: <u>https://www.google.com/</u> <u>maps/place/38.72369703752768N77.00168038771781W</u>



Determination Key Result

This non-Federal Action may affect the northern long-eared bat; however, any take of this species that may occur incidental to this Action is not prohibited under the final 4(d) rule at 50 CFR §17.40(o).

Determination Key Description: Northern Long-eared Bat 4(d) Rule

This key was last updated in IPaC on **May 15, 2017**. Keys are subject to periodic revision.

This key is intended for actions that may affect the threatened northern long-eared bat.

The purpose of the key for non-Federal actions is to assist determinations as to whether proposed actions are excepted from take prohibitions under the northern long-eared bat 4(d) rule.

If a non-Federal action may cause prohibited take of northern long-eared bats or other ESA-listed animal species, we recommend that you coordinate with the Service.

5

Determination Key Result

Based upon your IPaC submission, any take of the northern long-eared bat that may occur as a result of the Action is not prohibited under the ESA Section 4(d) rule adopted for this species at 50 CFR §17.40(o).

Qualification Interview

- 1. Is the action authorized, funded, or being carried out by a Federal agency? *No*
- 2. Will your activity purposefully **Take** northern long-eared bats? *No*
- 3. Is the project action area located wholly outside the White-nose Syndrome Zone? **Automatically answered** *No*
- 4. Have you contacted the appropriate agency to determine if your project is near a known hibernaculum or maternity roost tree?

Location information for northern long-eared bat hibernacula is generally kept in state Natural Heritage Inventory databases – the availability of this data varies state-by-state. Many states provide online access to their data, either directly by providing maps or by providing the opportunity to make a data request. In some cases, to protect those resources, access to the information may be limited. A web page with links to state Natural Heritage Inventory databases is available at <u>www.fws.gov/midwest/endangered/mammals/nleb/</u> <u>nhisites.html.</u>

Yes

5. Will the action affect a cave or mine where northern long-eared bats are known to hibernate (i.e., hibernaculum) or could it alter the entrance or the environment (physical or other alteration) of a hibernaculum?

No

- 6. Will the action involve Tree Removal? *Yes*
- 7. Will the action only remove hazardous trees for the protection of human life or property? *No*

8. Will the action remove trees within 0.25 miles of a known northern long-eared bat hibernaculum at any time of year?

No

9. Will the action remove a known occupied northern long-eared bat maternity roost tree or any trees within 150 feet of a known occupied maternity roost tree from June 1 through July 31?

No

Project Questionnaire

If the project includes forest conversion, report the appropriate acreages below. Otherwise, type '0' in questions 1-3.

1. Estimated total acres of forest conversion:

30

2. If known, estimated acres of forest conversion from April 1 to October 31 *30*

3. If known, estimated acres of forest conversion from June 1 to July 31 *30*

If the project includes timber harvest, report the appropriate acreages below. Otherwise, type '0' in questions 4-6.

4. Estimated total acres of timber harvest

0

5. If known, estimated acres of timber harvest from April 1 to October 31 *0*

6. If known, estimated acres of timber harvest from June 1 to July 31 *0*

If the project includes prescribed fire, report the appropriate acreages below. Otherwise, type '0' in questions 7-9.

7. Estimated total acres of prescribed fire

0

8. If known, estimated acres of prescribed fire from April 1 to October 31

0

9. If known, estimated acres of prescribed fire from June 1 to July 31

0

If the project includes new wind turbines, report the megawatts of wind capacity below. Otherwise, type '0' in question 10.

10. What is the estimated wind capacity (in megawatts) of the new turbine(s)?

0

Appendix VI: Site Photographs



1 - Debris in center of forest



2 - Dumping along south of property





3 - Dumping along south side of property (2)



4 - dumping along south side of property





5 - Eastern adjoining properties



6 - Southern adjoining property





7 - Southeast portion property



8 - Southwest corner of property





9 - Western adjoining property



10 - Interior of forest





11 - Northwest portion of property



12 - Northwest portion of property





13 - Dry stream onsite



Appendix VII: Statement of Qualifications

Firm Profile

Overview

The ECS family of Companies (ECS) is a geotechnical, environmental, construction materials testing and facilities consulting engineering firm headquartered in Chantilly, Virginia. An employee-owned Subchapter S Corporation whose principal owners are engineers, ECS employs more than 900 personnel and is ranked 107 in *Engineering News-Record's* Top 500 Design Firms (ENR, April 2012).

ECS consistently provides our clients with "out of the box" thinking that is aimed toward helping them achieve their strategic goals. We accomplish this at the local level with staff that includes creative individuals who have an interest in supporting our clients' needs as they relate to specific project goals.

ECS delivers creative, value-added solutions through our core service lines:

- geotechnical engineering
- environmental consulting
- construction materials testing
- integrated building / facilities consulting services

RESPONSIVENESS

We pride ourselves on the timely and effective services we provide to our clients. They know that we're part of the team that can help them assess and analyze current field conditions, determine an appropriate course of action, and assist them in reaching project goals with cost-effective, professional and practical solutions. ECS engineers review field and laboratory data and deliver test reports to the project team within 48 hours of observation and testing. ECS provides field and laboratory reports to the project team with the vital information they need — when they need it.

QUALITY AND PROJECT CONTROL

Quality is integrated into our tasks. Our high repeat customer volume and the recommendations from our clients and professional associates are measures of our commitment to quality.

The quality control process includes ECS personnel ranging from field technicians to senior management. As a team and as individuals, we strive to achieve consistent quality during each step of a project. Elements of this process include:

- Maintain an effective, ongoing quality control program to measure and verify performance;
- Monitor daily operational performance of the team and provide timely corrective action;
- Track corrective actions for resolution and appropriateness;
- Review data and reporting requirements for accuracy, precision and completeness;
- Maintain field data records and reports generated by the team;
- Maintain a data review process; and
- Provide training to employees and other team members to educate them and increase their understanding of operating procedures and their roles and responsibilities as they apply to specific project tasks.



Quality control is focused on preventive actions and review of ongoing activities, rather than fixing problems 'after the fact.' It is important that team members be educated regarding site safety protocols, quality control measures, testing procedures and workmanship required prior to their arrival at the job site.

A team review in the initial phase is followed by daily checks to assure continuing compliance with contract requirements. The team leader for each type of work assigned is responsible to ensure that these procedures are communicated and followed by team members. Our internal quality assurance review program exceeds industry standards. At ECS, it's not just about getting the job done — it's about getting the job done right.

Through our internal project management and accounting systems, we track various tasks and associated timing for deliverables to assist in meeting project deadlines. Our internal controls also allow ECS project managers to follow each project's progress with regard to cost expenditures (including subconsultants).

Client success is a core value of our company. ECS provides creative, value-added solutions to satisfy customer objectives, overcome project challenges and help meet applicable federal, state and municipal regulatory requirements. These needs are met by understanding field conditions and having realistic expectations of how they can potentially impact your project's budget and timeline. ECS personnel provide information and make recommendations that offer practical solutions. We anticipate and help moderate project delays as practicable, and proactively prepare the team for project contingencies. These details are relayed early in the project timeline, so that the project team can determine timely, cost-effective technical solutions.

ENVIRONMENTAL SERVICES

The environmental services group performs several types of environmental studies and assessments. ECS's experience with due diligence requirements and knowledge of federal, state and local regulations helps clients manage environmental conditions encountered on project sites.

- Phase I Environmental Site Assessments (ESA) An initial stage in the environmental due diligence process, the Phase I ESA is performed to determine if current and historical site and surrounding area activities and uses have resulted in environmental impacts to the property being studied.
- Phase II, Soil and Groundwater Exploration and Sampling Study A Phase II environmental study is generally performed to determine the presence and extent of contamination on a property. In most cases, the Phase II Study is performed based on the results of a previous study, such as a Phase I ESA, that has concluded the presence or likely presence of an environmental impact or recognized environmental condition on the subject property. However, Phase II studies can be performed based on a known event, such as a release of potential contaminants at the site which warrants further investigation.
- Phase III, Feasibility Study and Remedial Design— These studies are specific to the site and environmental condition(s) encountered and based on identified contaminants of concern and impacted media. During these studies various remedial alternatives may be explored to determine the most feasible approach to effectively remediate the site. Both active and passive alternatives are considered, as applicable. Current site conditions/development, future development considerations, federal, state and local regulations and guidelines, and site specific constraints are considered in these studies.



Corrective Action Plans – These plans outline the actions to be taken to perform remediation of a known and identified condition and are generally completed in accordance with federal, state and local regulations and guidelines. In general a corrective action plan will discuss the site history, the environmental concerns, the extent of the contamination, the impacted media and remedial requirements and remedial endpoints (i.e. clean up goals). The plans may also discuss post remedial activity such as periodic monitoring and engineering controls which may be needed to ensure clean up goals are achieved and sustained and that risk tolerances are acceptable. Often times corrective action plans are approved by a regulating agency prior to implementation; however, depending on the jurisdiction and intended outcome, they may not need to be pre-approved or approved at all.

INDUSTRIAL HYGIENE SERVICES - INDOOR AIR QUALITY

Since most daily life puts us indoors, it is important to provide an office or work environment with good air quality. Indoor air quality is important not only for overall worker health, but also to improve comfort in the workplace and to show that the environment is both safe and healthy for people to work in. Poor indoor air quality may typically produce headaches; eye and throat irritation and can cause or increase respiratory symptoms such as coughing, breathing difficulty, or a full-blown asthma attack. Indoor contaminates can also cause cancer and other diseases such as Pontiac Fever and Histoplasmosis.

Improvements in energy efficiency can have a negative impact on indoor air quality. In some instances, overly tight buildings have been shown to have indoor air quality concerns simply because there is a lack of adequate fresh air ventilation. Other conditions can also contribute to poor air quality. These may be related to activities occurring inside the building (or in the case of a past building renovation, activities which previously occurred in the building), such as improperly vented combustion sources, poor dust control or cleaning practices, smoking, the release of volatile organic compounds from building materials (including furnishings, carpet, paints, woods, and other substances), improper storage or use of chemicals, personal hygiene, or pesticide applications. Other problem conditions may arise in a building from other concerns, including moisture intrusion, sewage backflow, and excessive humidity.

IAQ Investigations should take a holistic approach to evaluate multiple potential concerns, ultimately identifying the underlying cause (or causes) of the problem(s). A key factor is understanding the nature of the complaints by interviewing building occupants. In general, solutions must be approached analytically and scientifically to find more successful, cost-effective measure(s) to address the underlying indoor air quality complaint. ECS will often recommend outside resources to assist with corrective measures to find the most effective means of addressing the problem. It is important to note, however, that there are some instances where our investigation does not find an environmental concern. In these instances, we will stand behind our findings and report the data. There are numerous studies that show poor indoor air quality **perception** can be influenced by social factors, poor working conditions, lack of comfort and/or space, etc. and are not necessarily related to an environmental factor.

ECS provides comprehensive IAQ testing services, including:

- Sick Building / Indoor contaminant studies (including asbestos, formaldehyde, mold, soot, dust, volatile organic hydrocarbons, and formaldehyde)
- Unknown contaminant identification
- Mold and moisture intrusion diagnosis initial and post remediation testing, including remediation protocols, building envelope review, cause and origin diagnosis
- Bird droppings (histoplasmosis) sampling



- Gray and/or black water contamination testing, including remediation protocols
- Legionella / Pontiac Fever sampling
- Ventilation studies
- Methamphetamine contamination sampling
- Radon exposure sampling
- Litigation support
- Moisture intrusion / infrared camera surveys
- LEED[®] credit testing and analysis
- General Industrial Hygiene consulting

ASBESTOS AND LEAD-BASED PAINT SERVICES

ECS performs a variety of industrial hygiene services to identify the presence and location of asbestos (ACM) and lead-based paint (LBP). ECS can perform surveys to identify the presence of these materials using licensed and accredited staff. We also have accredited staff that can prepare abatement specifications and conduct pre-bid meetings, and assist with contractor selection. Once abatement work starts, ECS has additional licensed staff that can perform contractor oversight and post-abatement testing following completion of asbestos or LBP removal. ECS can prepare plans and specifications for removal projects, conduct pre-bid meetings, assist with contractor selection, prepare operations and maintenance programs and perform air monitoring during and post-ACM and LBP removal.

MOLD

Mold is type of fungi without chlorophyll that reproduces by spores and lives by absorbing nutrients from organic matter. It lives in the soil, on plants, and on dead or decaying matter. Mold produces spores to reproduce, which then settle on surfaces. As surfaces begin to dry, these spores release mycotoxins. When ingested or inhaled, the spores may cause allergic reactions, including flu-like symptoms – itchy, watery eyes, coughing, bronchial and nasal passage irritation and inflammation, runny nose and sneezing. One of the most difficult challenges in properly handling mold is that once mold is present, dispersion can easily occur into unaffected areas, such as into and through HVAC systems. Cross contamination occurs as mold spores move from the initial area of contamination via HVAC systems through the air, possibly reaching interior spaces throughout the entire building.

Mold will not be present without adequate moisture; therefore as part of any sampling program, identification of the moisture intrusion sources is key. Before any mold problem can be corrected, these moisture sources need to be identified and corrected. Mitigation is the correction/restoration of conditions within the first 24-48 hours of a moisture release. These measures can include water extraction, material removal, dehumidification, and use of fans to completely dry the area. Proactive steps are necessary to reduce the potential for mold growth, as several molds will begin to grow within 24-48 hours of a water release event (i.e. Aspergillus sp.) These procedures should be performed by certified/accredited personnel. ECS's building envelope specialists can assist with the diagnosis and corrective measures needed to address mold issues within buildings. As needed, our staff of industrial hygienists can also perform sampling (air, surface, bulk, vacuum) to help determine the presence, type and quantity of fungal spores in the environment. Using this data, ECS staff can prepare remediation guidelines to address building contamination.

Mold Remediation is the identification and correction of the conditions that caused mold growth and the safe removal of mold-impacted materials. Remediation is the appropriate course of action when visible mold is present and/or elevated spore levels are present in the air remedial activity should be



performed by trained and accredited personnel. Accredited personnel can safely remove mold from the indoor environment without causing harm to building workers or occupants.

The final step in resolving a mold concern is post-remediation testing, in which an industrial hygienist returns to the environment to perform visual observations in an effort to evaluate if the remediated areas are dry, visibly clean and free of debris, and that all repairs have been completed. As needed these personnel will take additional surface/air samples 24-48 hours after remedial activities are concluded. Residual air concentrations will be checked against background outdoor concentrations, and testing will be performed to determine whether all materials register at normal moisture levels prior to build back activities. The environmental team will then document the remedial efforts performed, as well as the effectiveness of the final results.

LEED® IAQ TESTING

IAQ testing is a way to obtain credit in a project's path toward LEED[®] certification. It is important to note that certification can only be granted by the Green Building Certification Institute, which will require third party verification of project compliance with LEED requirements. ECS has significant experience in performing standardized tests on buildings such as educational facilities, high-rise office buildings, hotels, community centers, and individual tenant spaces. While ECS can make recommendations on proper test procedures, the method selected is solely up to the client.

For new construction and major renovations in accordance with Credit 3.2 IAQ Management Plan (part of the LEED rating system for the design, construction and operation of 'green' properties in which credits are allocated, based in part, upon compliance with environmental laws and regulations), two testing options are available:

Air Testing

IAQ air testing protocol requires sampling the indoor air using standard EPA methods for a four- to eight-hour event during normal ventilation operations. Sampling parameters are measured after the installation of all interior finishes, but prior to occupancy, and include total volatile organic compounds, carbon monoxide, formaldehyde, PM-10 (Particulate Matter), and 4-phenylcyclohexane. ECS can advise on proper test procedures and discuss common problems encountered with the testing, so that we can help increase the chances of a successful sampling event. These factors include completing activities such as painting, and the application of adhesives and cleaning chemicals well before testing can help prevent false positive sample results.

IAQ testing can provide a cost-effective method of securing this LEED[®] point. ECS personnel will provide expert consultation, prepare the necessary documentation and streamline the LEED[®] certification process.

Clean Air Flush-Out Option

This option is sometimes a more cost effective alternative when compared with IAQ air testing. Due to temperature and humidity requirements, the flush-out option has seasonal limitations, which often prohibit testing during either summer or winter months. This option requires running the building's ventilation systems 24-hours a day for multiple weeks to obtain the required flush-out volume. When combined with the tracking costs charged by mechanical consultants, this can sometimes lead to a significant cost and time component.

OSHA COMPLIANCE SAMPLING

The United States Department of Labor – Occupational Health and Safety Administration (OSHA) regulations state that "Each employer shall furnish to each of his employees employment and a place of employment which are free from recognized hazards that are causing or are likely to cause death or



serious physical harm to his employees " (General Duty clause under 29 CFR 1910). In the work place, employees can be exposed to a variety of chemical and physical hazards, including dust, vapors, noise, radiation, etc. OSHA and other government and non-government entities have various exposure limits to protect employees from illness or death due to the existence of hazardous conditions.

ECS's staff of trained industrial hygienists and environmental scientists can work with employers in evaluating various types of occupational exposures and determine employee exposure levels, as well as evaluating whether they are in compliance with regulatory standards and voluntary guidelines. In addition, ECS can assist employers in correcting workplace settings where overexposure situations may exist. ECS can work with employers to develop long-term sampling programs and supply trained staff to perform monitoring at your facility.

ECS's safety and health services also include:

- Environmental, Health and Safety Audits
- Qualitative and quantitative Industrial Hygiene Studies
- Various types of OSHA-compliance surveys, including noise
- Preparation and presentation of Safety Programs

Training

ECS's staff of trained industrial hygienists and environmental scientists can also perform training for the individual needs of our clients. ECS staff includes OSHA-authorized instructors who can perform both OSHA 10- and 30-hour safety courses, HAZWOPER classes (both 24- and 40-hour, along with refresher classes), and Mold Inspector, Mold Supervisor, and Mold Worker classes. We can also perform specific safety training dependent upon specific client needs, including respirator training, HAZCOM, lockout tag out, confined space, etc. ECS can also perform lead awareness training under OSHA construction standards.

HAZARDOUS MATERIALS STUDIES FOR BUILDING RENOVATION/DEMOLITION

When it comes to tearing down a building, the process is not as easy as it once was. In addition to requirements for asbestos testing, there may also be concerns involving lead-based paint, mercury, polychlorinated biphenyl, chlorofluorocarbon, hydraulic oils (such as in elevator lifts), radioactive materials (in some emergency exit signs) and so on.

ECS's staff of trained industrial hygienists and environmental scientists can assist the building owner by conducting surveys tailored to the building type being renovated or demolished. Following the surveys, our staff can develop abatement specifications to address specific hazardous materials identified and help the owner through the "regulatory morass" of trying to demolish or renovate a building. During actual abatement activities, ECS can provide project oversight /Title II services and monitor the abatement through project completion.

Our staff has significant experience with large, complex projects, including the demolition of entire hospitals, industrial complexes, school buildings and Department of Defense structures. With an understanding of the applicable hazardous waste regulations, ECS works with our clients to evaluate and implement innovative alternatives and potential cost-savings options.

Hazardous materials identification and management services include:

- Initial surveys, inspections and analysis
- Preparation of plans and specifications
- Conduct pre-bid meetings
- Contractor selection assistance
- Preparation of removal specifications, operation and management programs



MICHAELA MARIA HUMBY ENVIRONMENTAL STAFF PROJECT MANAGER

EDUCATION

Bachelor of Science, 2018 University of Tennessee Environmental and Soil Sciences

REGISTRATIONS, CERTIFICATIONS AND AFFILIATIONS

Level 1 Tennessee Erosion Prevention and Sediment Control Virginia Asbestos Inspector Initial

PROFESSIONAL ACTIVITIES

Phase I & II Assessments Soil and Groundwater Sample Collection

Wetland Delineations

Wetland and Water Permit Preparation

EXPERIENCE

Environmental Staff Project Manager– ECS Mid-Atlantic, LLC - Ms. Humby is an Environmental Staff Project Manager with 1 year of experience. Her responsibilities include Phase I Environmental Site Assessments, wetland and stream delineations, wetland and water permit preparation, and completing Phase II Environmental Site Assessments.

PROJECT EXPERIENCE

Ms. Humby has completed environmental projects in Virginia, Maryland, and Washington D.C. on properties ranging from undeveloped or agricultural land to industrial sites. These studies have involved the identification and evaluation of wetlands and natural resources, sampling of soil and groundwater, and Phase I and II Environmental Assessments.





EDUCATION

Bachelor of Science George Washington University Environmental Studies with Geology Minor

REGISTRATIONS, CERTIFICATIONS AND AFFILIATIONS

- OSHA 40 Hour Hazardous Waste Operations Training Certification (HAZWOPER)
- 8-Hour Hazardous Waste and Emergency Response Refresher
- OSHA Outreach 30 Hour Training Course – Construction Safety and Health Construction Quality Management for Contractors
- OTI 500 Trainer Course in OSHA Standards for Construction

PROFESSIONAL ACTIVITIES

Phase I, II, and III Assessments Soil & Groundwater Sample Collection Site Characterizations Risk Assessments Underground Storage Tank Investigation and Remediation Corrective Action Plans Contaminated Soil Excavation

Project Design and Monitoring Health and Safety Plans

CHRISTOPHER M. ELLIOTT SENIOR ENVIRONMENTAL PROJECT MANAGER

EXPERIENCE

Senior Environmental Project Manager– ECS Mid-Atlantic, LLC - Mr. Elliott is an Environmental Scientist with over 15 years of experience. Mr. Elliott is responsible for coordination and preparation of Phase I and Phase II Environmental Site Assessments and environmental soil and groundwater sampling. Mr. Elliott is tasked with performing environmental investigations at sites impacted by petroleum hydrocarbons, historic landfills, industrial properties and rail yards, including several sites enrolled in the Virginia Department of Environmental Quality (VDEQ) Voluntary Remediation Program (VRP).

Mr. Elliott also spent four years as a secondary school teacher, and provides environmental and construction safety training on a variety of topics.

PROJECT EXPERIENCE

- Carlyle Section of Alexandria, VA. The area is a former landfill located to the north of Interstate 495. Project Geologist responsible for overseeing the site full time observation and documentation of initial soil characterization of contaminated soils for future excavation activities. Screened the soils using a portable photoionization detector (PID) and methane gas meter. Conducted permit-required confined space entry air monitoring. Conducted delineation sampling to define hazardous concentrations of lead detected in soils. Oversaw and coordinated soil excavation monitoring and documentation.
- Potomac Yards Alexandria, Virginia The property is a former rail yard extending from southern Arlington into northern Alexandria, and encompassing multiple sections and landbays, each of which is in the process of being developed separately. Mr. Elliott has worked with several developers, the original owners of the Potomac Yards site, and the VDEQ to coordinate the characterization, clean up, and redevelopment of multiple former brownfields within the Potomac Yard development area.





- Phase I Environmental Site Assessments Various Locations – Mr. Elliott has completed over 100 Phase I Environmental Site Assessments in Maryland, Virginia, Washington, DC, and Ohio on properties ranging from undeveloped vacant or agricultural land to heavy industrial sites. These studies have involved the identification of potential recognized environmental conditions related to petroleum or chemical spills or releases, hazardous substances, underground storage tanks, lead-based paint, and similar environmental concerns.
- Army National Guard Readiness Center Arlington, VA – Mr. Elliott provided rapid response environmental consulting when petroleum-contaminated soil was discovered during an ongoing construction excavation project. Without significant delays to the project timeline, Mr. Elliott was able to perform a site characterization study to delineate the magnitude and extent of contaminated soils and groundwater. Mr. Elliott also provided project management and oversight monitoring the excavation of contaminated soils; including representing our client when the excavation contractor was caught by state regulators hauling contaminated soil to a non-approved disposal facility.
- DC USA Washington, DC Mr. Elliott coordinated the environmental response when an unknown underground storage tank was discovered during site excavation activities on a major shopping center development in northwest Washington, DC. As the progressed, additional unknown project and undocumented tanks were discovered scattered throughout the property at depths of up to 30 feet below original surface grades. Ultimately, a total of 17 underground storage tanks and a hydraulic oil reservoir were discovered buried beneath the site. Mr. Elliott provided in-progress site characterization to identify and delineate multiple pockets of contaminated material associated with each separate tank, coordinated excavation monitoring and oversight, and worked on behalf of our client to obtain a No Further Action determination from the DDOE at the end of the project.





Jannifer Anderson

Environmental Project Manager

EDUCATION

Bachelor of Science, 2013, Environmental Science, Towson University, Towson, MD

Biological concentration

CERTIFICATIONS

- Environmental Professional
- Maryland Qualified Professional in Forestry
- 40 Hour Wetlands Certificate
- 32-hour Wetland Botany Certification (NJ)
- Maryland and New York asbestos inspector
- OSHA 40-Hour Hazardous Waste Operations and Emergency Response
- Maryland Lead Inspector Technician

Ms. Anderson is an Environmental Project Manager for ECS Mid-Atlantic, LLC. Duties include developing Natural Resource projects, Forest Stand Delineations, Forest Conservation Plans, Wetland Delineations, Migratory Bird Evaluation, Phase I and Phase II Environmental Site Assessments; performing Hazardous Materials Surveys, including Asbestos-Containing Materials and Lead-Based Paint surveys.

ENVIRONMENTAL ASSESSMENTS

Ms. Anderson has experience conducting a wide range of natural resource projects including: Forest Stand Delineations, Forest Conservation Plans, Water quality and benthic invertebrate studies, Wetland Delineations in Maryland and migratory bird surveys throughout the Northeast. In addition Ms. Anderson has performed Phase I Environmental Site Assessments in Maryland on properties ranging from undeveloped or agricultural land, commercial and industrial sites. These studies have involved the identification of recognized environmental conditions related to petroleum or chemical spills or releases, hazardous substances, underground storage tanks, asbestos, lead-based paint, and similar environmental concerns. She has also performed lead-based paint assessments, ACM/hazmat surveys, indoor air quality assessments, and mold surveys.

PROJECT EXPERIENCE

- East New Market Solar Environmental Services, East New Market, MD-Performed Phase I environmental assessment, Forest Stand Delineation, Preliminary Wetland Delineation, Forest Conservation plan
- Morgnec Solar Environmental Service, Chestertown, MD–Forest Stand Delineation, and Forest Conservation plan
- Prime Group Holding Natural Resource, Glen Burnie, MD – Performed wetland delineation and GPS survey
- Mountain Road Property, Pasadena, MD- Forest Stand Delineation, Preliminary Wetland Delineation, Forest Conservation plan



Appendix VIII: Acronyms

List of Common Acronyms

AULs	Activity and Use Limitations				
AST	Aboveground Storage Tank				
ASTM	American Society for Testing and Materials				
ACM	Asbestos Containing Materials				
BER	Business Environmental Risk				
CORRACTS	CERCLA Corrective Action List				
NPL	CERCLA National Priorities List				
NFRAP	CERCLA No Further Remedial Action Planned				
CERCLA	Comprehnsive Environmental Response Cleanup Liability Act				
CESQG	Conditionally Exempt Small Quantity Generator				
CREC	Controlled Recognized Environmental Condition				
ERNS	Emergency Response Notification System				
EC	Engineering Controls				
HIST LF	Historical Landfill				
HREC	Historical Recognized Environmental Condition				
IC	Institutional Controls				
LQG	Large Quantity Generator				
LBP	Lead Based Paint				
LTANKS	Leaking Tanks				
LUST	Leaking Underground Storage Tank				
REC	Recognized Environmental Condition				
RCRA	Resource Conservation and Recovery Act				
RCRIS	Resource Conservation and Recovery Information System				
SQG	Small Quantity Generator				
SWF/LF	Solid Waste Facility/Landfill				
SHWS	State Hazardous Waste Sites				
UST	Underground Storage Tank				
USGS	United States Geological Survey				



EXHIBIT E-5

CONCEPTUAL DESIGN FOR SOUTHERN AREA K-8 SCHOOL

EXHIBIT E-5 (CONCEPTUAL DESIGN FOR SOUTHERN AREA K-8 SCHOOL)

- 1. For the purposes of the Project Agreement, the Conceptual Design for Southern Area K-8 School means, collectively, the following documents:
 - (a) the comments by PGCPS on the Exhibit E-5 Developer Proposal Documents identified in Part A of this Exhibit E-5 Conceptual Design for Southern Area K-8 School, which Developer shall consider and respond to, in the time and manner provided in Article 7 (Design and Construction) of the Project Agreement;
 - (b) the negotiating period design development documents identified in Part B of this Exhibit E-5 Conceptual Design for Southern Area K-8 School (collectively, the "Exhibit E-5 Negotiation Period Documents"); and
 - (c) those applicable portions of Developer's design proposal for the Project delivered in response to the Request for Proposals identified in Part C of this Exhibit E-5 Conceptual Design for Southern Area K-8 School (collectively, the "**Exhibit E-5 Developer Proposal Documents**").
- In the event of any ambiguities, conflicts or inconsistencies between or among any of the documents comprising the Exhibit E-5 Developer Proposal Documents and the Exhibit E-5 Negotiation Period Documents, the Exhibit E-5 Negotiation Period Documents shall prevail in all matters; and
- 3. For greater certainty, where any element, sketch, feature or other document or item contained in any part of the Exhibit E-5 Developer Proposal Documents is modified, superseded, qualified, conflicts with or is otherwise amended by a subsequently finalized or dated part of the Exhibit E-5 Negotiation Period Documents, the subsequently finalized or dated part of the Exhibit E-5 Negotiation Period Documents shall prevail.

PART A

EXHIBIT E-5 PGCPS DESIGN REVIEW COMMENTS



December 7, 2020 (revised)

To: PGCECP (Prince George's County Education & Community Partners)

From: Jason Washington Director, Public-Private Partnerships Department

> Shawn Matlock, Esq. Director, Department of Capital Programs

Subject: Initial Planning and Design Staff Review of PGCECP Design

Pursuant to the review of your design book submission for compliance with the Educational Specifications set forth in the Project Agreement, our planning and design staff have the following comments that require a response from PGECP. Additionally, we will have additional comments and questions as designs advance and after review of the Educational Specifications Comparison Chart.

Please note: page numbers generally refer to the middle school Educational Specifications (Ed Spec) as amended 8.31.20, unless otherwise indicated.

As soon as possible, please provide a Square Foot Comparison Chart for all spaces required by the Ed Specs based on the proposed design. The Comparison Chart needs to include Requested SF, Proposed SF, and Deviation in SF % for every space in the building as shown in the design submission Room by Room. Please do not provide a general, average deviation. The requirement is that all spaces are provided and that they are within 10% of the Educational Specification requirements.

General Plan Review of all 3 Prototype Designs:

- General Weaknesses in all Designs:
 - Slide 27/160: Interior classroom windows a plus. Allows eyes on the street and blinds for lockdown and room darkening when needed. Please elaborate on shelter in place during lockdown with full size windows. (Pg 9/266 Ed Spec)
 - 28/160: Location of Energy dashboard is limited in the main entrance. Could be in the dining or Media area where it can be seen and used throughout the day.

- 28/160: Outdoor classrooms appear to have limited solar exposure for growing plants, etc. Good classroom space; not for raised beds with plants. A SE/SW corner is best for veggies and herbs. (51/266 Ed Spec)
- 28/160: How does the local Community get involved in picking beauty/ local cultural displays? Community Engagement?
- 30/160: North/South orientation missing from most site plans.
- How many corridor lockers are you providing? 1260 required. (37/266 Ed Spec) 1260 lockers double height to be provided as per amended Ed Spec as of 12/7/20.
- 12 & 13 /160: Please describe the CPTED principles applied. (9/266 Ed Spec)
- 100-106/160:
 - Entrances:
 - The main entrance meets the requirements of the ed spec for visitors and late arriving students with a double vestibule and access through the Welcome Center. (13/266 Ed Spec).
 - However (Generic MS), the single set of double doors will be inadequate for 1200 students arriving and leaving all at the same time. A 'student entrance' directly into the cafeteria commons is a recommendation in the ed spec. (76/266 Ed Spec).
 - Toilets/Admin:
 - All toilets in the classroom wings must be gender neutral. (7/266 Ed Spec)
 - There must be a staff toilet in the classroom wing (they cannot share with students)
 - Lactation Room is missing. (38/266 Ed Spec)
 - Parent Resource ideally can be accessed from a corridor rather than through admin/guidance. (110/266 Ed Spec)
 - Media Center
 - The media specialist needs a quiet teaching area as per the 'on-line learning area'. This could be an alcove off the

commons with 14 two person desks and a place for a mobile interactive board. (139/266 Ed Spec)

- The TV studio needs to be adjacent to a classroom. For the generic MS, this may be accomplished by placing it adjacent (accessible to the STEAM Lab). All other designs are OK. (148/266 Ed Spec)
- The primary library (PK-8) should be (at least partially) enclosed to manage sound.
- Please discuss acoustics for the middle school media commons. (26/266 Ed Spec)
- Special Education Suites
 - The classrooms seem 'isolated'. Consider rearranging spaces. (218/266 Ed Spec)
 - In the K-8 school, the Grades 6-8 students need to be with their peers on an upper floor. (229/266 Ed Spec)
- Stage/Gymnasium
 - This is not the preferred adjacency. PGCPS prefers a cafetorium because the acoustics for assemblies, performances and plays can be better managed. Please discuss how you will address acoustics. (168/266 Ed Spec.)
 - For Hyattsville MS, a performing arts school, acoustics will be critical. Please discuss how the control room on the stage will function?
 - The bleacher seating is not appropriate for stage use. Need an unobstructed view of the stage at all times. Can the gym floor be rotated so that bleachers can face the stage? (171/266 Ed Spec)
- Performing Arts/Media
 - We need to know the sizes of these spaces. Provide Space Comparison Chart prior to further analysis. For example, Hyattsville media lab appears too small for a class of 25....The choral and orchestra/drama for the generic MS may be interchangeable. The general music rooms in the K- 8 look too small, etc. Practice rooms must be accessed from within the studios for supervision. (166/266 Ed Spec)

- Cafeteria
 - Access to outside seating should have double doors from dining commons.

General Design/Construction/Performance Review of all Designs:

• General Weaknesses in all Designs

- Slide 20/160: Clerestory windows are preferred over tubular skylights to meet 50% daylight and sustainability goals. (31 & 34/266 Ed Spec)
- 21/160: The energy and lighting analysis is based on the 4 story bldg, which is probably the worst case scenario with classroom daylighting at 50%. Please show us what the daylighting is in the 2 story building. (34/266, Ed Spec)
- 26/160: Acoustical Consideration address noise consideration. Consider giving us more information above and beyond addressing the main corridor space. PGCPS would like to evaluate the acoustical report of the schools for all 3 schemes. (27/266, Ed Spec)
- 100 & 101/160: Please provide roof height for stage to accommodate equipment lighting, scrim, etc. per ed spec. (168/266, Ed Spec)
- 20/160: The MEP area is an exclusively 1 story cluster behind the kitchen. All the RTUs are located on the roof above the Media Center. Are there any serviceability issues? (26/266, Ed Spec)
- 16/160: The entrance to the building needs to be easily identifiable. Needs to be better defined. (13/266, Ed Spec)
- PGCPS has reiterated that the main corridors walls in addition will require durable wall protection materials that are easy to clean and will protect the walls from damage and unusual wear and tear. The wall protections will need to be over walls that have met the acoustical requirements. (10/266, Ed Spec)
- 48 & 49/160: Please describe the prominent roof soffit finishes for K-8 school per the color options. (25/266 Ed Spec)
- 48/160: Provide Exterior wall assembly finishes for review. (25/266, Ed Spec)

- 48/160: Provide height of brick base and elaborate on wall protection for protection against vandalism and abuse. Is the brick base along all exterior walls?
- 37 & 153/160: The Room Data Schedule needs to be revised. Developers shall provide a minimum of three (3) options for color palettes, textures or finishes for county selection and approvals. (25/266, Ed Spec)
- Submit proposed FF&E designs, layouts and model numbers for approval prior to procurement. (25/266, Ed Spec)

Specific Review of Adelphi MS:

• Design Weaknesses:

31/160: Significant deviation SF for Special Education classrooms in excess of 10%. (244/266 Ed Spec)

Specific Review of 4-Story MS for Hyattsville:

- Design Weaknesses:
 - Provide detailed explanation how the permitting process for this 4-story building will be executed.
 - PGCPS reiterates that the location of the building serves us as a disadvantage. Please provide sections through the site to show how the plan fits on the site and why this particular location was chosen.
 - Please show the structural framing for the 4 story building which is missing from the submission.

Specific Review of K-8 School:

- Design Weaknesses:
 - 106/160: Community Clinic Entrance needs outside entrance and accessibility at grade. Show walkway and ADA parking on site plan. (241/258, Ed Spec)

General Site Plan Review of all Designs:

• 12/160: What is the team proposing to comply with Territorial Reinforcement principles (CPTED)? A fence, curbs, or tree canopy at the prescribed heights set forth in the ed spec. (9/266, Ed Spec)

- 49/266: Perimeter fence required around campus per Ed Spec. The 6' fence not encompassing the site, which is consistently shown throughout all the design schemes. (9/266, Ed Spec)
- May need fire accessibility all around the schools per code. (17/266, Ed Spec)
- 82, 84, 86, 88, 90/160: Buses not allowed to back-up. Explain how buses don't back up in these plans. (80/160, Adelphi MS works) (17/266, Ed Spec)
- Verify the bioretention area has sufficient capacity per code.

Specific Site Plan Review per School:

- Adelphi MS (Slide 80/160)
 - Cars and buses entrance cannot be mixed per Ed Spec. Did the team explore other opportunities like a second entrance on riggs? However, The triple stacking of the bus lots, parking spaces and parent drop off works well. (17/266, Ed Spec)
 - Gym does not have direct access to outdoor athletic fields per the Ed Spec. (179/266, Ed Spec)
 - Only 1 practice field. Adelphi must have artificial turf. (19/266, Ed Spec)

• Kenmoor MS (Slide 84/160)

- Cars and buses entrance cannot be mixed per Ed Spec. Did the team explore connecting to Kenmoor ECC? (17/266, Ed Spec)
- 84/160: Gym has access to outdoor athletic fields but needs to cross staff parking. Please address safety of crossing. (179/266, Ed Spec)
- Walker Mill MS (Slide 86/160)
 - 86/160: Gym does not have direct access to outdoor athletic fields per the Ed Spec. (179/266, Ed Spec)
 - Entire facility must be ADA accessible including universal access to all athletic fields. (7/266, Ed Spec)
 - Why is bldg tucked closer towards the residential areas. Design Philosophy? LOD Limitation?
 - Do we have sufficient Parking spaces count? (19/266, Ed Spec)

• Hyattsville MS (Slide 88/160)

- Site location of the New School building is at the highest point of the site and dwarfs the neighborhood residences. How will the team mitigate the size of the 4 story building? It is likely to receive negative feedback from the neighborhood residents.
- K-8 (Slide 90/160)

\circ **STRENGTHS**

• School and sport field configurations work well with the existing wetland configuration. Although, the final ESC report does not show them this significantly large. However, the site layout configuration works well.

• WEAKNESSES

- Gym does not have direct access to outdoor athletic fields per the Ed Spec. (179/266, Ed Spec)
- Car and bus entrance is mixed. Explore more separation. (17/258, Ed Spec)
- Primary/Intermediate playgrounds are far from the cafeteria and across parking lot. Explore safety options. Interim June Ed Spec (pg 106/121) has details for all play areas (41/258, Ed Spec)

PART B

EXHIBIT E-5 NEGOTIATION PERIOD DOCUMENTS

PROGRAM AREA COMPARISON SUMMARY CHART (2020.11.25)

The updated program area comparison chart titled "PGCPS Program Area Comparison Summary_201125" and dated November 25, 2020 is incorporated and attached.

PROGRAM SUMMARY	Adelphi	Walker Mill		Drew Freeman		Kenmore	Hyattsville	South Area K-8 Academy
AC Academic/Science AD Administrative/ Guidance/ Health	55,660 3,930	Drawing % Program Program Program Actual SF Deviation Quantity Room SF SF Total 55,660 3,930	Drawing %	55,660 3,930	POSAL PROG Drawing % Program Prog Actual SF Deviation Quantity Roor	55,660 3,930	Drawing % Program Program Program	PROPOSAL PROGRAM TECHNICAL PROPOSAL Drawing % Level Actual SF Program Program Program Program Program 91,328 5,480
GSS HS MCS Maintenance & Custodial Services MC Media Center PE PE/Indoor PA Performing Arts SE Special Education (See Appendix A)*	1,770 775 1,350 5,360 13,250 9,815 5,400	1,770 775 1,350 5,360 13,250 9,655 4,640		1,770 775 1,350 5,360 13,250 9,655 4,640		1,770 775 1,350 5,360 13,250 9,655 4,640	1,770 775 1,350 5,600 13,250 12,020 4,640	2,140 1,155 1,600 7,110 17,950 10,765 6,360
DC Student Dining & Food Service VA Visual Arts Building Support Areas [corridors, bathrooms, storage, stairwells, elev Total Community Use (Wellness Clinic) Appendix B +Construction factor	10,120 3,100 vators] Includes 1260 corridor 37,944 148,474 1,600 161,734	10,120 3,100 37,944 147,554 1,600 160,805		10,120 3,100 37,944 147,554 1,600 160,913		10,120 3,100 37,944 147,554 1,600 160,913	10,120 3,100 37,944 149,259 1,600 163,408	16,340 4,600 65,000 229,828 1,600 249,261
Academic Core AC Academic Classrooms (PreK-K)								9 1100 9,900 9,157 -8% 1 1100 P-K1 1 1,002 -9% 1 1100 P-K2 1 987 -10% 1 1100 P-K3 1 987 -10% 1 1100 P-K4 1 1,019 -7% 1 1100 K-1 1 1,041 -5%
AC Academic Classroom/ Studio (1st – 3rd)								1 1100 K-2 1 1,041 -5% 1 1100 K-3 1 1,041 -5% 1 1100 K-3 1 1,041 -5% 1 1100 K-4 1 1,081 -2% 1 1100 K-5 1 958 -13% 15 950 14,250 13,420 -6% 1 950 1-1 1 856 -10%
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AC Academic Classroom/Studio (4th – 5th)								$\begin{array}{c c c c c c c c c c c c c c c c c c c $
AC Academic Classroom/ Studios (6-8th)	37 900 33,300	30,033 -10% 37 900 33,300	30,033 -10%	37 900 33,300	30,033 -10% 37	900 33,300	30,033 -10% 36 900 32,400	1 900 4-5 3 894 1% 1 900 5-1 3 894 1% 1 900 5-2 3 894 -1% 1 900 5-2 3 929 3% 1 900 5-3 3 929 3% 1 900 5-4 3 894 -1% 1 900 5-5 3 894 -1% 29103 -10% 37 900 33,300 29,734 -11%
	1 900 CR 6-1 1 1 900 CR 6-2 1 1 900 CR 6-3 1 1 900 CR 6-4 1 1 900 CR 6-5 1 1 900 CR 6-5 1 1 900 CR 6-6 1	819 -9% 1 900 CR 6-1 814 -10% 1 900 CR 6-2 831 -8% 1 900 CR 6-3 801 -11% 1 900 CR 6-4 802 -11% 1 900 CR 6-5 802 -11% 1 900 CR 6-6	819 -9% 1 814 -10% 1 831 -8% 1 801 -11% 1 802 -11% 1 802 -11%	1 900 CR 6-1 1 900 CR 6-2 1 900 CR 6-3 1 900 CR 6-4 1 900 CR 6-5 1 900 CR 6-6	819 -9% 1 814 -10% 1 831 -8% 1 801 -11% 1 802 -11% 1 802 -11% 1	900 CR 6-1 1 900 CR 6-2 1 900 CR 6-3 1 900 CR 6-4 1 900 CR 6-5 1 900 CR 6-5 1 900 CR 6-6 1	819 -9% 1 900 6-1 814 -10% 1 900 6-2 831 -8% 1 900 6-3 801 -11% 1 900 6-4 802 -11% 1 900 6-5 802 -11% 1 900 6-6	2 801 -11% 1 900 6-1 2 819 -9% 2 832 -8% 1 900 6-2 2 827 -8% 2 802 -11% 1 900 6-3 2 796 -12% 2 801 -11% 1 900 6-5 2 796 -12% 2 801 -11% 1 900 6-5 2 796 -12% 2 802 -11% 1 900 6-6 2 796 -12%
	1 900 CR 6-7 1 1 900 CR 6-8 1 1 900 CR 6-9 1 1 900 CR 6-10 1 1 900 CR 6-10 1 1 900 CR 6-11 1 1 900 CR 6-12 1 1 900 CR 6-12 1 1 900 FLEX 1	801 -11% 1 900 CR 6-7 801 -11% 1 900 CR 6-8 802 -11% 1 900 CR 6-9 802 -11% 1 900 CR 6-10 802 -11% 1 900 CR 6-11 802 -11% 1 900 CR 6-12 907 1% 1 900 CR 6-12	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1 900 CR 6-7 1 900 CR 6-8 1 900 CR 6-9 1 900 CR 6-10 1 900 CR 6-10 1 900 CR 6-11 1 900 CR 6-12 1 900 FLEX	801 -11% 1 802 -11% 1 802 -11% 1 802 -11% 1 802 -11% 1 802 -11% 1	900 CR 6-7 1 900 CR 6-8 1 900 CR 6-9 1 900 CR 6-10 1 900 CR 6-11 1 900 CR 6-12 1 900 CR 6-12 1	801 -11% 1 900 6-7 801 -11% 1 900 6-8 802 -11% 1 900 6-9 802 -11% 1 900 6-10 802 -11% 1 900 6-11 802 -11% 1 900 6-11 832 -8% 1 900 6-12 907 1% 1 900 7-1	2 802 -11% 1 900 6-7 2 794 -12% 2 832 -8% 1 900 6-8 2 794 -12% 2 832 -8% 1 900 6-9 2 796 -12% 2 825 -8% 1 900 6-9 2 796 -12% 2 801 -11% 1 900 6-10 2 796 -12% 2 801 -11% 1 900 6-11 2 796 -12% 2 801 -11% 1 900 6-12 2 827 -8% 3 801 -11% 1 900 6-12 2 827 -8%
	1 900 CR 7-1 2 1 900 CR 7-2 2 1 900 CR 7-3 2 1 900 CR 7-4 2 1 900 CR 7-5 2 1 900 CR 7-5 2 1 900 CR 7-6 2	826 -8% 1 900 CR 7-1 806 -10% 1 900 CR 7-2 832 -8% 1 900 CR 7-3 802 -11% 1 900 CR 7-4 802 -11% 1 900 CR 7-5 802 -11% 1 900 CR 7-6	2 826 -8% 2 806 -10% 2 832 -8% 2 802 -11% 2 802 -11% 2 802 -11%	1 900 CR 7-1 1 900 CR 7-2 1 900 CR 7-3 1 900 CR 7-4 1 900 CR 7-5 1 900 CR 7-5 1 900 CR 7-6	2 826 -8% 1 2 806 -10% 1 2 832 -8% 1 2 802 -11% 1 2 802 -11% 1	900 CR 7-1 2 900 CR 7-2 2 900 CR 7-3 2 900 CR 7-4 2 900 CR 7-5 2 900 CR 7-5 2 900 CR 7-6 2	826 -8% 1 900 7-2 806 -10% 1 900 7-3 832 -8% 1 900 7-4 802 -11% 1 900 7-5 802 -11% 1 900 7-6 802 -11% 1 900 7-6 802 -11% 1 900 7-7	3 832 -8% 1 900 7-2 3 827 -8% 3 802 -11% 1 900 7-3 3 796 -12% 3 801 -11% 1 900 7-4 3 796 -12% 3 801 -11% 1 900 7-5 3 796 -12% 3 802 -11% 1 900 7-6 3 796 -12% 3 802 -11% 1 900 7-6 3 796 -12% 3 802 -11% 1 900 7-7 3 794 -12%
	1 900 CR 7-7 2 1 900 CR 7-8 2 1 900 CR 7-9 2 1 900 CR 7-10 2 1 900 CR 7-11 2 1 900 CR 7-11 2 1 900 CR 7-12 2 1 900 CR 7-12 2 1 900 CR 8-1 2	801 -11% 1 900 CR 7-7 801 -11% 1 900 CR 7-8 802 -11% 1 900 CR 7-9 802 -11% 1 900 CR 7-10 801 -11% 1 900 CR 7-10 801 -11% 1 900 CR 7-11 831 -8% 1 900 CR 7-12 819 -9% 1 900 CR 8-1	2 801 -11% 2 801 -11% 2 802 -11% 2 802 -11% 2 802 -11% 2 801 -11% 2 831 -8% 2 839 -9%	1 900 CR 7-7	2 801 -11% 1 2 802 -11% 1 2 802 -11% 1 2 802 -11% 1 2 801 -11% 1 2 831 -8% 1	900 CR 7-7 2 900 CR 7-8 2 900 CR 7-9 2 900 CR 7-10 2 900 CR 7-11 2 900 CR 7-12 2 900 CR 7-12 2	801 -11% 1 900 7-8 801 -11% 1 900 7-9 802 -11% 1 900 7-10 802 -11% 1 900 7-11 801 -11% 1 900 7-12 831 -8% 1 900 8-1 819 -9% 1 900 8-2	3 832 -8% 1 900 7.8 3 794 -12% 3 825 -8% 1 900 7.9 3 796 -12% 3 801 -11% 1 900 7.10 3 796 -12% 3 801 -11% 1 900 7.11 3 796 -12% 3 801 -11% 1 900 7.12 3 827 -8% 4 801 -11% 1 900 8-1 4 823 -9% 4 832 -8% 1 900 8-2 4 827 -8%
	1 900 CR 8-2 2 1 900 CR 8-3 2 1 900 CR 8-3 2 1 900 CR 8-4 2 1 900 CR 8-5 2 1 900 CR 8-6 2 1 900 CR 8-7 2	814 -10% 1 900 CR 8-2 831 -8% 1 900 CR 8-3 801 -11% 1 900 CR 8-4 802 -11% 1 900 CR 8-5 802 -11% 1 900 CR 8-5 801 -11% 1 900 CR 8-6 801 -11% 1 900 CR 8-7	2 814 -10% 2 831 -8% 2 801 -11% 2 802 -11% 2 802 -11% 2 801 -11%	1 900 CR 8-2 1 900 CR 8-3 1 900 CR 8-4 1 900 CR 8-5 1 900 CR 8-5 1 900 CR 8-6 1 900 CR 8-7	2 814 -10% 1 2 831 -8% 1 2 801 -11% 1 2 802 -11% 1 2 802 -11% 1 2 801 -11% 1	900 CR 8-2 2 900 CR 8-3 2 900 CR 8-4 2 900 CR 8-5 2 900 CR 8-6 2 900 CR 8-6 2 900 CR 8-7 2	814 -10% 1 900 8-3 831 -8% 1 900 8-4 801 -11% 1 900 8-5 802 -11% 1 900 8-6 802 -11% 1 900 8-7 801 -11% 1 900 8-8	4 802 -11% 1 900 8-3 4 796 -12% 4 801 -11% 1 900 8-4 4 796 -12% 4 801 -11% 1 900 8-5 4 796 -12% 4 801 -11% 1 900 8-5 4 796 -12% 4 802 -11% 1 900 8-6 4 796 -12% 4 802 -11% 1 900 8-7 4 794 -12% 4 832 -8% 1 900 8-8 4 794 -12%
AC Collaborative Learning Areas (informal)	1 900 CR 8-8 2 1 900 CR 8-9 2 1 900 CR 8-10 2 1 900 CR 8-10 2 1 900 CR 8-11 2 1 900 CR 8-12 2 1 900 CR 8-12 2 1 900 CR 8-12 2 varies 3,060	801 -11% 1 900 CR 8-8 802 -11% 1 900 CR 8-9 802 -11% 1 900 CR 8-10 802 -11% 1 900 CR 8-11 802 -11% 1 900 CR 8-11 832 -8% 1 900 CR 8-12 3,857 26% varies 3,060 2,151 LEVEL 1 1	2 801 -11% 2 802 -11% 2 802 -11% 2 802 -11% 2 802 -11% 2 802 -11% 3 857 26% 1 2,151 -	1 900 CR 8-8 1 900 CR 8-9 1 900 CR 8-10 1 900 CR 8-10 1 900 CR 8-11 1 900 CR 8-12 varies 3,060 LEVEL 1	2 802 -11% 1 2 802 -11% 1 2 802 -11% 1 2 802 -11% 1	900 CR 8-8 2 900 CR 8-9 2 900 CR 8-10 2 900 CR 8-11 2 900 CR 8-12 2 900 CR 8-12 2 900 LEVEL 1 1	801 -11% 1 900 8-9 802 -11% 1 900 8-10 802 -11% 1 900 8-11 802 -11% 1 900 8-12 832 -8% - - 3,857 26% varies 3,060 2,151 LEVEL 1 -	4 825 -8% 1 900 8-9 4 796 -12% 4 801 -11% 1 900 8-10 4 796 -12% 4 801 -11% 1 900 8-11 4 796 -12% 4 801 -11% 1 900 8-11 4 796 -12% 4 801 -11% 1 900 8-12 4 827 -8% 1 900 FLEX (6-8) 4 827 -8% 8381 174% varies 4,628 5,090 10% 1 499 LEVEL 1 1 311
AC Outdoor Learning Areas (patios, porches, green roofs) AC Science Classroom/ Lab	LEVEL 2 2 varies 0 9 1,200 10,800 1 1,200 SCI 6-1 1	1,706 LEVEL 2 LEVEL 2 varies 0 8,603 -20% 9 1,200 10,800 956 -20% 1 1,200 SCI 6-1	2 1,706 8,603 -20% 1 956 -20%	LEVEL 2	1 956 -20% 1 1	LEVEL 2 2 ss 0 1,200 10,800 1,200 SCI 6-1 1	1,706 LEVEL 2 LEVEL 3 LEVEL 3 Varies 0 8,603 -20% 9 1,200 10,800 956 20% 1 1,200 SCI 6-1	2 3080 LEVEL 2 2 1,780 3 2050 LEVEL 3 3 1,735 4 2752 LEVEL 4 4 1,264 varies 0 9316 -14% 9 1,200 10,800 9,098 -16% 2 1004 -16% 1 1,200 SCI 6-1 2 1,007 -16%
	1 1,200 SCI 6-2 1 1 1,200 SCI 6-3 1 1 1,200 SCI 7-1 2 1 1,200 SCI 7-2 2 1 1,200 SCI 7-3 2 1 1,200 SCI 7-3 2 1 1,200 SCI 8-1 2 1 1,200 SCI 8-2 2	956 -20% 1 1,200 SCI 6-2 956 -20% 1 1,200 SCI 6-3 955 -20% 1 1,200 SCI 7-1 956 -20% 1 1,200 SCI 7-2 956 -20% 1 1,200 SCI 7-3 956 -20% 1 1,200 SCI 8-1 956 -20% 1 1,200 SCI 8-2	1 956 -20% 1 956 -20% 2 955 -20% 2 956 -20% 2 956 -20% 2 956 -20% 2 956 -20% 2 956 -20% 2 956 -20%	1 1,200 SCI 6-2 1 1,200 SCI 7-1 1 1,200 SCI 7-1 1 1,200 SCI 7-2 1 1,200 SCI 7-3 1 1,200 SCI 7-3 1 1,200 SCI 8-1 1 1,200 SCI 8-2	1 956 -20% 1 1 2 955 -20% 1 1 2 956 -20% 1 1 2 956 -20% 1 1 2 956 -20% 1 1 2 956 -20% 1 1 2 956 -20% 1 1	1,200 SCI 7-1 2 1,200 SCI 7-2 2 1,200 SCI 7-3 2	956 -20% 1 1,200 SCI 6-2 956 -20% 1 1,200 SCI 6-3 955 -20% 1 1,200 SCI 7-1 956 -20% 1 1,200 SCI 7-2 956 -20% 1 1,200 SCI 7-3 956 -20% 1 1,200 SCI 8-1 956 -20% 1 1,200 SCI 8-1 956 -20% 1 1,200 SCI 8-2	2 1004 -16% 1 1,200 SCI 6-2 2 1,011 -16% 2 1106 -8% 1 1,200 SCI 6-3 2 1,012 -16% 3 1004 -16% 1 1,200 SCI 7-1 3 1,014 -16% 3 1004 -16% 1 1,200 SCI 7-2 3 1,012 -16% 3 1098 -9% 1 1,200 SCI 7-3 3 1,008 -16% 4 1003 -16% 1 1,200 SCI 8-1 4 1,014 -16% 4 995 -17% 1 1,200 SCI 8-2 4 1,012 -16%
AC Science Prep	1 1,200 SCI8-3 2 3 300 900 PREP 6-1 1 1 300 PREP 6-2 1 1 1 300 PREP 7-1 2 PREP 7-2 2 1 300 PREP 7-2 2 2 1	956 -20% 1 1,200 SCI 8-3 951 6% 3 300 900 214 6% 1 300 PREP 6-1 103 6% 1 300 PREP 7-2 103 6% 1 300 PREP 7-1 214 0% 1 00 PREP 7-1 214 0% 0 0% 0%	2 956 -20% 2 956 -20% 951 6% 1 214 6% 1 103 6% 2 103 6% 2 214 6%	1 1,200 SCI 8-3 3 300 900 PREP 6-1 1 300 PREP 6-1 1 300 PREP 7-1 PREP 7-2 PREP 8-1	2 956 -20% 1 1 951 6% 3 1 214 6% 1 1 103 6% 1 2 103 6% 1 2 214 6% 1	1,200 SCI 8-3 2 300 900 PREP 6-1 1 300 PREP 6-2 1 300 PREP 7-1 2 PREP 7-2 2 PREP 8-1 2	956 20% 1 1,200 SCI8-3 951 6% 3 300 900 214 6% 1 300 PREP 6-1 103 6% 1 300 PREP 6-2 103 6% 1 300 PREP 7-1 214 6% 1 300 PREP 7-1 214 00 0000 0000 0000	4 1098 -9% 1 1,200 SCI 8-3 4 1,008 -16% 1018 13% 3 300 900 REP 6-1 2 95 -3% 2 202 14% 1 300 PREP 6-2 2 197 -3% 3 202 13% 1 300 PREP 7-1 3 197 -2% 3 138 1 300 PREP 7-1 3 197 -2% 4 199 PREP 7-1 3 197 -2% 3 96
AC Small Group Instruction/ Resource Rooms	1 300 PREP 8-1 PREP 8-2 2 6 400 2,400 1 400 RES 6-1 1 1 400 RES 6-1 1 1 400 RES 7-1 2 1 400 RES 7-2 2	214 6% 1 300 PREP 8-1 PREP 8-2 2,400 0% 6 400 2,400 400 0% 1 400 RES 6-1 400 0% 1 400 RES 6-1 400 0% 1 400 RES 7-1 400 0% 1 400 RES 7-2	2 214 6% 2 103 6% 1 400 0% 1 400 0% 2 400 0% 2 400 0%	1 300 PREP 8-1 PREP 8-2 6 400 2,400 1 400 RES 6-1 1 400 RES 6-1 1 400 RES 7-1 1 400 RES 7-2	1 400 0% 1 1 400 0% 1 2 400 0% 1 2 400 0% 1	PREP 8-2 2 400 2,400 400 RES 6-1 1 400 RES 6-1 1 400 RES 7-1 2 400 RES 7-2 2	214 6% 1 300 PREP 8-1 PREP 8-2 2,400 0 6 400 2,400 400 0 1 400 RES 1 400 0 1 400 RES 2 400 0 1 400 RES 3 400 0 1 400 RES 4	4 199 1 300 PREP 8-1 4 197 -2% 4 138 12% 1 200 PREP 8-2 4 96 -2% 2 2575 7% 12 250 3,000 3,064 2% 2 331 -17% 1 250 RES. 1 1 248 -1% 3 331 -17% 1 250 RES. 2 1 248 -1% 3 331 -17% 1 250 RES. 3 2 284 14% 3 405 1% 1 250 RES. 4 2 286 14%
	1 400 RES 8-1 2 1 400 RES 8-2 2	400 0% 1 400 RES 8-1 400 0% 1 400 RES 8-2	2 400 0% 2 400 0%	1 400 RES 8-1	2 400 0% 1	400 RES 8-1 2 400 RES 8-2 2	400 0 1 400 RES 5 400 0 1 400 RES 6 0 0 0 RES 7	4 331 -17% 1 250 RES. 5 2 250 0% 4 405 1% 1 250 RES. 6 2 251 0% 4 364 1 250 RES. 7 3 249 0% 4 364 1 250 RES. 8 3 249 0% 1 250 RES. 9 3 250 0% 1 250 RES. 10 3 251 0% 1 250 RES. 10 3 251 0% 1 250 RES. 10 3 251 0%
AC Special Needs Classroom/ Studios AC Speech/OT/PT Room AC STEAM Lab	0 1 300 300 SPEECH/OT/PT 1 1 2,200 2,200 STEAM 1 6 150 900	0 272 -9% 1 300 300 SPEECH/OT/PT 2,085 -5% 1 2,200 2,200 STEAM 889 -1% 6 150 900	1 272 -9% 1 2,085 -5% 889 -1%	0 1 300 300 SPEECH/OT/PT 1 2,200 2,200 STEAM 6 150 900	1 2,085 -5% 1 2	0 300 300 SPEECH/OT/PT 1 2,200 2,200 STEAM 1 150 900	0 272 -9% 1 300 300 SPEECH / OT / PT 2,085 -5% 1 2,200 2,200 STEAM 889 -1% 6 150 900	Image: style
	6 150 900 1 150 SSO 1 1 1 150 SSO 2 1 1 150 SSO 3 2 1 150 SSO 4 2 1 150 SSO 5 2 1 150 SSO 5 2 1 150 SSO 5 2 1 150 SSO 6 2	889 -1% 6 150 900 150 0% 1 150 SSO 1 150 0% 1 150 SSO 2 150 0% 1 150 SSO 3 140 -7% 1 150 SSO 4 150 0% 1 150 SSO 4 140 -7% 1 150 SSO 5 149 -1% 1 150 SSO 6	889 1% 1 150 0% 1 150 0% 2 150 0% 2 150 0% 2 140 -7% 2 150 0% 2 150 0% 2 140 -7% 2 140 -1%	6 150 900 1 150 SSO 1 1 1 150 SSO 2 1 1 150 SSO 3 1 1 150 SSO 4 1 1 150 SSO 5 1 1 150 SSO 5 1 1 150 SSO 5 1 1 150 SSO 6 1	1 150 0% 1 1 150 0% 1	150 SSO 5 2	889 -1% 6 150 900 150 0% 1 150 SSO 1 150 0% 1 150 SSO 2 150 0% 1 150 SSO 3 140 -7% 1 150 SSO 4 150 0% 1 150 SSO 4 140 -7% 1 150 SSO 5 149 -1% 1 150 SSO 6	2 147 -2% 1 150 SSO 2-1 2 159 6% 2 164 9% 1 150 SSO 3-1 2 159 6% 3 150 0% 1 150 SSO 6-1 2 163 9% 3 164 9% 1 150 SSO 6-2 2 163 9% 4 150 0% 1 150 SSO 7-1 3 163 9% 4 164 9% 1 150 SSO 7-2 3 163 9%
AC Teacher Support Rooms	3 400 1,200 1 400 T.S. 1 1	1,049 -13% 3 400 1,200 122 -14% 1 400 T.S. 1 7.S. 2 - - 1	1,049 -13% 1 122 -14% 1 224	3 400 1,200 <i>1 400</i> <i>T.S. 1</i> <i>T.S. 2</i>		400 1,200 T S 1 1 1	1,049 -13% 3 400 1,200 122 -14% 1 400 TEACH. SUPPORT 1 224 -14% 1 400 TEACH. SUPPORT 2	Image: style
AC Technology Storage	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	1 224 2 122 2 234 2 122 2 225 620 3% 1 99 1 102	1 400 T.S. 3 1 400 T.S. 5 1 400 T.S. 5 1 5.5 T.S. 6 3 200 600 1 200 T. STOR 1	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	T.S. 2 1 400 T.S. 3 2 f.S. 4 2 400 T.S. 5 2 f.S. 5 2 200 600 1 200 F.S. 7 1	122 -11% 1 400 TEACH. SUPPORT 3 122 -13% - - 225 - - - 620 3% 3 200 600 99 1x 1 200 TECH. STOR 1	4 415 4% 1 250 T.R. 3 254 2% 1 250 T.S.R. 3 404 62% 1 250 T.S.R. 3 404 62% 1 250 T.R. 4 254 2% 315 -48% 3 100 300 399 33% 2 105 -48% 1 100 TECH STOR. 1 2 95 -5%
Total Administration AD Lobby (Main)	1 200 T. STOR 2 1 1 200 TECH. STOR 3 2 1 200 TECH. STOR 4 2 1 200 TECH. STOR 5 2 55,660 1 1 1	102 1% 1 200 T. STOR 2 117 8% 1 200 TECH. STOR 3 99 203 2% 1 200 TECH. STOR 4 203 2% 1 200 TECH. STOR 5 46,902 -16% 55,660 1 1 1	1 102 2 117 2 99 2 203 46,902 -16%	1 200 T. STOR 2 1 1 200 TECH. STOR 3 1 1 200 TECH. STOR 4 1 1 200 TECH. STOR 5 1 55,660 1 1 1	2 117 2 99 2 203 2% 1 46,902 -16% 1	200 T. STOR 2 1 200 TECH. STOR 3 2 7ECH. STOR 4 2 200 TECH. STOR 5 2 55,660	102 1% 1 200 TECH. STOR 2 117 8% 1 200 TECH. STOR 3 99 8 203 2% 46,902 -16% 54,760 1	3 105 -48% 1 100 TECH STOR. 3 95 -5% 4 105 -48% 1 100 TECH STOR. 3 114 14% 0 0 TECH STOR. 4 95 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
AD Reception/ Waiting Area AD Principal's Office AD Assistant Principal's Office AD Administrative Assistant's Office	1 600 600 RECEPTION 1 1 230 230 PRINCIPAL 1 1 120 120 ASSISTANT 1	577 -4% 1 600 600 RECEPTION 230 0% 1 230 230 PRINCIPAL 117 -3% 1 120 120 ASSISTANT	1 577 -4% 1 230 0% 1 117 -3%	1 600 600 RECEPTION 1 230 230 PRINCIPAL 1 120 120 ASSISTANT	1 230 0% 1 1 117 -3% 1	600 600 RECEPTION 1 230 230 PRINCIPAL 1 120 120 ASSISTANT 1	577 -4% 1 600 600 RECEPTION 230 0% 1 230 230 PRINCIPAL 117 -3% 1 120 120 ASSISTANT	1 542 -10% 1 800 800 RECEPTION 1 744 -7% 1 222 -3% 1 230 230 PRINCIPAL 1 246 7% 2 250 500 523 5% 1 250 A.P. OFFICE 1 2 272 9% 1 250 A.P. OFFICE 2 2 251 0% 1 132 10% 1 120 ASST. 1 121 1%
AD Administrative Workroom AD Business Manager's Office AD Conference Room AD Mail Room AD Security Center/ Office Suite	1 200 200 WKRM 1 1 150 150 BSN MG 1 1 300 300 CONF 1 150 150 MAIL 1 1 150 150 MAIL 1 1 200 200 SEC. 1	200 0% 1 200 200 WKRM 158 5% 1 150 BSN MG 1 311 4% 1 300 CONF 1 149 -1% 1 150 IS0 MAIL 180 -10% 1 200 SEC. 1	1 200 0% 1 158 5% 311 4% 1 149 -1% 1 180 -10%	1 200 200 WKRM 1 150 150 BSN MG 1 300 300 CONF 1 150 150 MAIL 1 200 200 SEC.	1 149 -1% 1	200 200 WKRM 11 150 150 BSN MG 1 300 300 CONF	200 0% 1 200 200 WKRM 158 5% 1 150 BSN MG 311 4% 1 300 200 CONF - ADMIN 149 -1% 1 150 MAIL 180 -10% 1 200 200 SECURITY	1 187 -7% 1 200 200 WKRM 1 200 0% 1 150 0% 1 150 BSN. MG. 1 147 -2% 1 240 -20% 2 250 500 489 -2% 1 250 CONF. ADMIN 1 1 241 -4% 1 250 CONF. ADMIN 2 1 248 -1% 1 142 -5% 1 150 MAIL 1 149 -1% 1 193 -4% 1 200 200 SEC 1 203 2%
AD Staff Break Room AD Supply (General)/ Administrative Storage AD Text Book Room AD Lactation Room	1 800 800 BREAK 1 1 250 250 ADMIN STOR 1 1 800 800 BOOK STORAGE 1 1 80 80 LACTATION 1	809 1% 1 800 800 BREAK 221 -12% 1 250 250 ADMIN STOR 527 -34% 1 800 800 BOOK STORAGE 74 74 -8% 1 80 80 LACTATION	1 201 1% 1 201 -12% 1 221 -12% 1 527 -34% 1 74 -8%	1 800 BREAK 1 250 250 ADMIN STOR 1 800 BOOK STORAGE BOOK STORAGE 1 80 80 LACTATION	1 221 -12% 1 1 730 -9% 1	800 800 BREAK 1 250 250 ADMIN STOR 1 800 800 BOOK STORAGE 1 800 BOOK STORAGE 1 800 BOOK STORAGE 1 800 BOOK STORAGE 1 80 80 LACTATION 1	809 1% 1 800 800 BREAK 221 -12% 1 250 250 ADMIN STOR 730 -9% 1 800 800 BOOK STOR. 527 7%	1 735 -1% 2 600 1/200 57AFF BRAK RM 1 1,252 4% 1 234 -6% 2 125 250 STORADMIN 1 1,252 4% 1 795 -1% 2 500 1,000 658 -34% 1 795 -1% 2 500 1,000 658 -34% 1 73 -9% 1 80 80 LACT. 1 65 -19%
AD Toilet (Adult) Total Guidance and Student Services GSS Reception/ Welcome Center GSS Conference/Testing Rooms	1 50 50 T 1 3,930 1 300 300 GUIDANCE 1 1 250 250 TEST 1	51 2% 1 50 50 T 3,604 -8% 3,930 297 -1% 1 300 300 GUIDANCE 223 -11% 1 250 250 TEST	1 51 2% 3,604 -8% 1 297 -1% 1 223 -11%	1 50 50 T 3,930 1 300 300 GUIDANCE 1 250 250 TEST		50 50 T 11 3,930 300 300 GUIDANCE 297 250 250 TEST 223	51 2% 1 50 50 T-A 3,807 -3% 3,930	1 53 6% 2 50 100 103 3% 1 50 7.1 1 51 2% 3,758 -4% 5.480 5.150 -6% 1 259 -14% 1 300 300 GUIDANCE RECEPTION 1 286 -5% 226 -10% 1 200 200 CONF. / TEST 1 200 0%
GSS Guidance Offices	6 120 720 1 120 G.O.1 1 1 120 G.O.2 1 1 120 G.O.3 1 1 120 G.O.4 1 1 120 G.O.3 1 1 120 G.O.4 1 1 120 G.O.5 1	654 -9% 6 120 720 108 -10% 1 120 G.O.1 108 -10% 1 120 G.O.2 108 -10% 1 120 G.O.3 108 -10% 1 120 G.O.4 110 -8% 1 120 G.O.4 110 -8% 1 120 G.O.5 110 -8% 1 120 G.O.6	654 -9% 1 108 -10% 1 108 -10% 1 108 -10% 1 108 -8% 1 110 -8% 1 110 -8% 1 100 -8%	6 120 720 1 120 G.O. 1 1 120 G.O. 2 1 120 G.O. 3 1 120 G.O. 4 1 120 G.O. 5	654 -9% 6 1 108 -10% 1 1 108 -10% 1 1 108 -10% 1 1 108 -8% 1 1 110 -8% 1	120 720 654 120 G.O. 1 108 120 G.O.2 108 120 G.O.3 108 120 G.O.4 1 120 G.O.5 1	-9% -3% 6 120 720 -10% 7% 1 120 G.01 -10% 0% 1 120 G.02 -10% 0% 1 120 G.03 110 -8% 1 120 G.04 110 -8% 1 120 G.05	727 1% 7 120 840 842 0% 1 119 -1% 1 120 G.O. 1 1 120 0% 1 120 0% 1 120 G.O. 2 1 118 -2% 1 119 -1% 1 120 G.O. 3 1 118 -2% 1 1126 5% 1 120 G.O. 4 1 118 -2% 1 121 1% 1 120 G.O. 5 1 120 0%
GSS Parent Resource Center GSS Records Storage GSS After School Storage GSS PTA Storage GSS Toilet (Adult)	1 120 G.O. 6 1 1 300 300 PAR RES 1 1 150 150 REC 1 1 50 50 T 1	350 17% 1 300 300 PAR RES 81 -46% 1 150 150 REC	1 350 17% 1 81 -46% 1 51 2%	1 120 G.O. 6 1 300 300 PAR RES 1 150 150 REC 1 50 50 T	1 350 17% 1 1 81 46% 1	120 G.O. 6 1 300 300 PAR RES 1 150 150 REC 1 50 50 T 11	110 -8% 1 120 G.06 350 17% 1 300 300 P.R.C. 81 -46% 1 150 150 REC. 51 2% 1 50 50 T-G	1 122 2% 1 120 6.0.6 1 124 3% 1 120 6.0.7 1 124 3% 1 294 -2% 1 350 350 PARENT R.C. 1 351 0% 1 153 2% 1 150 150 REC. 1 139 -7% 1 153 2% 1 150 REC. 1 139 -7% 1 150 150 REC. 1 148 -26% 1 50 70 PA ST. 1 47 -6% 50 0% 1 50 50 Tr.G 1 54 8%
Total Health Services HS Reception/Waiting Area HS Cot Rooms	1,770 1 200 200 HEALTH 1 2 100 200 1 1 1 100 COT 1 1 1 1 100 COT 2 1 1	1,551 2,70 1 30 1,770 292 46% 1 200 200 HEALTH 2111 11% 1 100 COT 1 1117 17% 1 100 COT 2	1 51 2% 1,656 6% 1 292 46% 228 14% 1 111 11% 1 117 17%	1,770 1 200 2 100 1 100 1 100 1 100 2 COT 1 1 100	228 14% 2 1 111 11% 1	50 50 1 1 1,770	51 2% 1 50 50 T-G 1,656 6% 1,770 1 100 HEALTH 292 46% 1 200 200 HEALTH 228 14% 2 100 200 111 11% 1 100 COT 1 117 17% 1 100 COT 2	1,709 -3% 2,140 2,067 -3% 201 1% 1 200 200 1 161 -20% 197 -2% 3 130 390 356 -9% 1 98 -2% 1 130 COT 1 1 121 -7% 1 99 -1% 1 130 COT 2 1 117 -10%
HS Exam Room/ Treatment Area HS Office HS Storage HS Toilet	1 125 125 EXAM 1 1 100 0FF 1 1 50 50 STOR 1 2 50 100	143 14% 1 125 125 EXAM 98 -2% 1 100 100 OFF 61 22% 1 50 50 STOR 122 22% 2 50 100 Image: Control of the second se	1 143 14% 1 98 -2% 1 61 22% 122 22%	1 125 125 EXAM 1 100 100 OFF 1 50 50 STOR 2 50 100		125 125 EXAM 1 100 100 OFF 1 50 50 STOR 1 50 100	143 14% 1 125 125 EXAM 98 -2% 1 100 100 OFF 61 22% 1 50 50 STOR 122 22% 2 50 100	1 130 COT 3 1 118 -9% 1 118 -6% 1 125 125 EXAM 1 118 -6% 1 98 -2% 2 120 240 250 4% 1 120 0FFICE 1 1 120 0% 1 120 0FFICE 2 1 130 8% 1 55 10% 1 50 5S STOR. 1 51 2% 100 0% 3 50 150 150 150 150
Total Maintenance & Custodial Services MCS Receiving and storage MCS Custodial Office	1 50 T1 1 1 50 T2 1 775 1 1 600 600 RECEIVING 1 1 150 150 OFF 1	61 22% 1 50 T 1 61 22% 1 50 T 2 944 22% 775	1 61 22% 1 61 22% 944 22% 1 574 -4%	1 50 T1 1 50 T2 775 1 600 600 RECEIVING 1 150 150 OFF	944 22% 1 574 -4% 1	50 T 1 1 50 T 2 1 775 1 1 600 600 RECEIVING 1 150 150 OFF 1	61 22% 1 50 7.1 61 22% 1 50 7.2 944 22% 775 574 -4% 1 600 RECEIVING 137 -9% 1 150 150 OFFICE	52 4% 1 50 TH-1 1 50 0% 48 -4% 1 50 TH-2 1 50 0% 1 50 TH-2 1 50 0% 769 -1% 1,155 1 50 0% 1 50 TH-3 1 50 0% 1 583 -3% 1 800 RECEIVING 1 903 13% 129 -14% 2 120 240 236 -2%
MCS Custodial Storage MCS Toilet/Shower/Lockers	1 300 300 STOR. 1 2 150 300 1 1 1 150 T/S/L 1 1 1 1 150 T/S/L 2 1 1	284 -5% 1 300 STOR. 278 -7% 2 150 300 139 139 -7% 1 150 T/S/L 1 150	1 284 -5% 278 -7% 1 139 -7% 1 139 -7%	1 300 300 STOR. 2 150 300 1 1 150 T/5/L 1 1 1 150 T/5/L 2 1	1 284 -5% 1 278 -7% 2 1 139 -7% 1 1 139 -7% 1	300 300 STOR. 1 150 300 1 150 T/S/L 1 1 150 T/S/L 2 1	284 -5% 1 300 300 STOR. 278 -7% 2 150 300 139 -7% 1 150 T/S/L 1 139 -7% 1 150 T/S/L 2	Image: 1 state of the
Total Media Commons MC Media Commons (includes previous 800sf Online Learning) MC Primary Library MC Equipment Storage	1,350 1 3,300 3,300 MEDIA 1 1 150 150 EQP ST 1	1,273 -6% 1,350 3,478 5% 1 3,300 MEDIA 1 1,300 1,300 1,000 MEDIA	1,273 -6%	1,350 1 3,300 3,300 MEDIA 1 150 150 EQP ST		1,350 3,300 3,300 MEDIA 1 150 150 EQP ST 1	1,273 -6% 1,350 3,478 5% 1 3,200 3,200 1 3,200 MEDIA MEDIA MEDIA	1,199 -11% 1,600 1,694 6% 4168 30% 1 3,300 1 3,342 1% 1 2184 30% - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
MC Head End Room MC Digital Media Suite (Previously Innovation Suite) MC Production Multi-media Studio MC Control Room MC Editing Learning Studio MC Storage	1 250 250 HEAD-END 1 1 1360 1,360 I I 1 360 PROD. STUDIO 1 I 1 100 CTRL 1 I I 100 STOR. 1	240 -4% 1 250 250 HEAD-END 1,407 3% 1 1360 1,360 355 -1% 1 360 PROD. STUDIO 100 0% 1 100 CTRL 95 -5% 1 100 STOR.	1 148 -1% 1 240 -4% 1,407 3% 1 355 -1% 1 100 0% 1 95 -5%	1 250 250 HEAD-END 1 1360 1,360	1 240 -4% 1 1,407 3% 1 1 355 -1% 1 1 100 0% 1 1 95 -5% 1	250 250 HEAD-END 1 1360 1,360	240 -4% 1 190 190 HEAD- END 1,407 3% 1 1760 1,760 355 -1% 1 460 PRODUCTION STUDIO 100 0% 1 100 CTRL 1 800 EDITING LEARNING STU 95 -5% 0 0	1 176 -7% 1 250 250 HEAD END 1 221 -12% 1853 5% 1 1360 1,360 1,357 0% 1 440 -4% 1 360 PROD. STUDIO 1 363 1% 1 110 10% 1 100 CTRL. RM 1 93 -7% 1 730 -9% - - - - -
MC Media Lab (Previously Innovation Lab) MC Innovation Center/Elementary Maker Space MC Toilet (Staff) MC Workroom/Office Total	1 800 MEDIA LAB 1 1 50 50 T 1 1 250 250 WRK RM 1 5,360	857 7% 1 800 MEDIA LAB 51 2% 1 50 50 T 246 -2% 1 250 250 WRK RM 5,570 4% 5,360 5 5	1 857 7% 1 51 2% 1 246 -2% 5,570 4%	1 800 MEDIA LAB 1 50 50 T 1 250 250 WRK RM 5,360	1 857 7% 1 1 51 2% 1 1 246 -2% 1 5,570 4% 4%	50 50 T 1	857 7% 1 400 MEDIA LAB 51 2% 1 50 50 T 246 -2% 1 250 250 WKK RM 5,570 4% 5,600 5 5	1 573 43% 1 800 MEDIA LAB 1 800 0% 1 600 600 INNOV. CENTER 2 756 26% 1 60 20% 2 50 100 101 1% 1 60 20% 7-1 1 51 2% 1 50 7-2 1 50 0% 1 278 11% 1 250 VK RM / OFF. 1 222 -11% 6,701 20% 7,110 7,497 5% 5% 5%
Performing Arts PA General Music PA Band Room PA Choral/ Keyboard/ Guitar PA Choral/ Keyboard	1 1,800 1,800 BAND 1 1 1,400 1,400 CHORAL / KEYBOARD / (1	1,615 -10% 1 1,800 1,800 BAND 1,260 -10% 1 1,400 1,400 CHORAL / KEYBOARD / 0	1 1,615 -10% 1 1,260 -10%	1 1,800 1,800 1 1,400 1,400 CHORAL / KEYBOARD / C	1 1,615 -10% 1 1 1 1,260 -10% 1 1	1,800 1,800 BAND 1 1,400 1,400 CHORAL / KEYBOARD / 1	1,615 -10% 1 1,800 1,800 BAND 1,260 -10% 1 1,400 1,400 CHORAL / KEYBOARD / 0	2 1,250 2.00 1 2,242 -10% 1 1,250 GENERAL MUSIC 1 1 1,121 -10% 1 1,250 GENERAL MUSIC 2 1 1,121 -10% 1 1617 -10% 1 1,800 1,800 BAND/ORCH.RM 1 1,620 -10% 1 1256 -10% 1 1,400 1,400 CHORAL / KEYBOARD / 0 1 1,428 2%
PA Choral Practice Rooms PA Choral Storage PA Instrument Storage	2 100 200 1 100 PRAC C-1 1 1 100 PRAC C-2 1 1 350 350 STOR - INSTRUMENT 1	200 0% 2 100 200 100 0% 1 100 PRAC C-1 100 0% 1 100 PRAC C-2 311 -11% 1 350 350 STOR - INSTRUMENT	200 0% 1 100 0% 1 100 0% 1 311 -11%	2 100 200 1 100 PRAC C-1 1 100 PRAC C-2 1 350 350	1 100 0% 1 1 100 0% 1		200 0% 2 100 200 100 0% 1 100 PRAC 1 100 0% 1 100 PRAC 2 0 200 0 0 311 -11% 2 350 700 1 315 STOR - BAND 1	201 1% 2 100 200 1 200 0% 1 100 0% 1 100 PRAC. 1 1 100 0% 1 101 1% 1 100 PRAC. 2 1 100 0% 636 -9% 1 350 350 INST. STOR. 1 314 -10% 1 318 1%
PA Instrumental Practice Rooms PA Stage Ch Stage	2 80 160 1 1 80 PRAC I-1 1 1 80 PRAC I-2 1 1 80 PRAC I-2 1 1 1 1 1 1 1 1 1 1 1	160 0% 2 80 160 80 0% 1 80 PRAC I-1 80 0% 1 80 PRAC I-2 1,028 -14% 1 1,200 1,200	1 160 0% 1 80 0% 1 80 0% 1 1,028 -14%	2 80 160 1 80 PRAC I-1 1 80 PRAC I-2 1 1,200 1,200 STAGE	1 80 0% 1 80 0% 1 1 1,028 -14% 1 2	80 PRAC I-2 1 1,200 1,200 STAGE 1	1 315 STOR - ORCH 160 0% 4 80 320 80 0% 1 80 PRAC 1 80 0% 1 80 PRAC 2 1 80 PRAC 2 1 1 80 PRAC 3 1 1 80 PRAC 4 1,028 14% 1 1,200 STAGE	1 318 1%
PA Stage Sound and Light Control Room PA Stage Storage PA Drama Lab PA School Specific Arts Space PA Generic PA Orchestra PA Drama	1 75 75 CTRL 1 1 170 170 STOR 1 1 4,300 4,300 1 1,900 GENERIC/ORCH./ 1	79 5% 1 75 75 CTRL. 171 1% 1 170 170 STOR. 3,670 -15% 1 4,300 4,300 1,710 -10% 1 1,900 GENERIC / ORCH. /	1 79 5% 1 171 1% 3,670 -15% 1 1,710 -10%	1 75 75 CTRL. 1 170 170 STOR. 1 4,300 4,300 1 1,900 GENERIC / ORCH. / DRA	1 79 5% 1 1 171 1% 1	75 75 CTRL. 1 170 170 STOR. 1 4,300 4,300	79 5% 1 75 CONTROL/STORAGE 171 1% 1 450 3,670 -15% 1 6,400 6,400 1,710 -10% 1 1,900 ORCH	1 521 -1% 1 75 CTRL 1 75 0% 1 350 350 STAGE STOR.1 1 379 8% 5942 -7% 1 2,530 2,530 2,530 2,903 15% 1 1716 -10% GENERIC MUSIC 1 918 13%
PA Dance PA Storage PA Practice room PA Dance Office	1 1,800 DANCE 1 1 180 STOR 1 2 80 160 1 1 80 PRAC 1 1 1 80 PRAC 2 1 1 100 DANCE OFF. 1	1,615 -10% 1 1,800 DANCE 82 -54% 1 180 STOR 163 2% 2 80 82 3% 1 80 PRAC 1 81 1% 1 80 PRAC 2 100 0% 1 100 DANCE OFF.	1 1,615 -10% 1 82 -54% 163 2% 1 82 3% 1 81 1% 1 100 0%	1 1,800 DANCE 1 180 STOR 2 80 France 1 80 PRAC 1 1 80 PRAC 2 1 100 DANCE OFF.	1 1,615 -10% 1 1 1 82 -54% 1 163 2% 2 1 82 3% 1 1 81 1% 1 100 0% 1 1	180 STOR 1 80	1,615 -10% 1 1,800 DANCE 82 -54% 0 0 STOR-DRAMA 163 2%	1 1672 -7% 1 1,620 DANCE STUDIO 1 1,879 16% 1 129 - - - - - - - 16% 1 106 6% 1 100 DANCE OFF. 1 106 6%
PA Bathrooms w/ changing area Total Physical Education PE Lobby PE Gymnasium PE Gymnasium Floor PE Bleacher Seating (600)	2 0 9,815 1 1,000 1,000 1 1 8,200 8,200 11 1 5,800 GYM 1 1 2,400	2 0 8,494 -13% 9,655 1,032 3% 1 1,000 1,000 7,545 .8% 1 8,200 8,200 5,435 -6% 1 5,800 GYM 2,110 -12% 1 2,400 GYM	8,494 -13% 1 1,032 3% 7,545 -8% 1 5,435 -6% 2,110 -12%	2 0 9,655 1 1,000 1,000 1 8,200 8,200 1 5,800 GYM 1 2,400 GYM	7,545 -8% 1 8 1 5,435 -6% 1 5 2,110 -12% 1 2	9,655 1,000 1,000 1 8,200 8,200 5,800 GYM 1 2,400	2 0 8,494 -13% 12,020 1,032 3% 1 1,000 7,545 -8% 1 8,200 8,200 5,435 -6% 1 5,800 GYM 2,110 -12% 1 2,400	2 0 10,765 10,892 10,892 1% 1 1032 3% 1 1,000 1 1,631 63% 7 7602 -7% 1 9,800 9,800 9,438 -4% 1 5434 -6% 1 5,800 GYM 1 6,162 6% 2168 -10% 1 4,000 0.000 1 3,276 -18%
PE Bleacher Seating (600) PE Auxilliary Gym PE Wellness Lab PE Laundry PE PE or Dance Lab PE Offices (Department/ Athletic)	1 2,400 BLEACHERS 1 1 1,200 BLEACHERS 1 1 1,200 BLEACHERS 1 1 1,200 WELLNESS LAB 1 1 100 100 LAUND 1 3 150 450 450 1	1,084 -10% 1 1,200 BLEACHERS 1,026 -15% 1 1,200 BLEACHERS 880 -2% 1 900 900 WELLNESS LAB 69 -31% 1 100 100 LAUND	2,110 -12% 1 1,084 -10% 1 1,026 -15% 1 880 -2% 1 69 -31% 388 -14%	1 2,400 BLEACHERS 1 1,200 BLEACHERS 1 1,200 BLEACHERS 1 900 900 WELLNESS LAB 1 100 100 LAUND 3 150 450	1 1,084 -10% 1 1 1 1,025 -15% 1 1 1 880 -2% 1 1 1 69 -31% 1 1	1,200 BLEACHERS 1	2,110 1.2% 1 2,400 BLEACHERS 1,026 -15% 1 2,400 BLEACHERS 1,026 -15% 1 900 900 WELLNESS LAB 69 -31% 1 100 100 LAUND 388 -14% 3 150 450	1 1084 -10% 1 4,000 BLEACHERS 1 1,638 -18% 1 1084 -10% 1 4,000 BLEACHERS 1 1,638 -18% 1 1084 -1 3,000 3,000 SMALL GYM 1 2,729 -9% 1 1216 35% 1 1000 1,000 WELLNESS 1 954 -5% 1 105 5% 1 100 100 LAUND. 1 101 1%
PE P.E. Locker Rooms/Showers	1 150 OFF 1 1 1 150 OFF 2 1 1 150 OFF 3 1 2 850 1,700 1 1 850 LOCKER 1 1 1 850 LOCKER 2 1	388 -14% 3 150 450 130 -13% 1 150 OFF 1 129 -14% 1 150 OFF 2 129 -14% 1 150 OFF 3 1402 -18% 2 850 1,700 700 -18% 1 850 LOCKER 1 702 -17% 1 850 LOCKER 2	388 -14% 1 130 -13% 1 129 -14% 1 129 -14% 1 129 -14% 1 700 -18% 1 700 -18% 1 702 -17%	1 150 OFF 1	1 130 -13% 1 1 129 -14% 1 1 129 -14% 1 1 129 -14% 1 1 129 -14% 2 1 700 -18% 2 1 700 -17% 1	150 OFF 1 1 150 OFF 2 1 150 OFF 3 1 850 1,700 850 850 LOCKER 1 1 850 LOCKER 2 1	130 13% 1 150 OFF 1 129 -14% 1 150 OFF 2 129 -14% 1 150 OFF 3 149 1 150 OFF 3 1402 -18% 2 850 1,700 700 -18% 1 850 LOCKER 1 702 -17% 1 850 LOCKER 2	391 -13% 3 150 450 405 -10% 1 131 -13% 1 150 OFF 1 1 135 -10% 1 130 -13% 1 150 OFF 2 1 134 -11% 1 130 -13% 1 150 OFF 3 1 136 -9% 1 1362 -20% 2 850 1,700 1,534 -10% 1 680 -20% 1 850 LOCKER 1 1 772 -9% 1 682 -20% 1 850 LOCKER 2 1 762 -10%
PE Storage PE Partner Office (optional) Total	3 300 900 1 300 GYM STOR 1 1 1 300 GYM STOR 2 1 1 300 GYM STOR 3 1 1 300 GYM STOR 3 1 0 200 0 1	763 -15% 3 300 900 267 -11% 1 300 GYM STOR 1 126 -16% 1 300 GYM STOR 2 125 -16% 1 300 GYM STOR 3 245 -18% 1 300 GYM STOR 4 0 200 0 1 12,079 -9% 13,250 1	763 -15% 1 267 -11% 1 126 -16% 1 245 -18% 1 245 -9%	3 300 900 1 300 GYM STOR 1 1 300 GYM STOR.2 1 300 GYM STOR.3 1 300 GYM STOR.4 0 200 0 13,250	763 -15% 3 1 267 -11% 1 1 126 -16% 1 1 125 -16% 1	300 900 300 GYM STOR 1 1 300 GYM STOR. 2 1 300 GYM STOR. 3 1 300 GYM STOR. 3 1	763 -15% 3 300 900 267 -11% 1 300 STOR 1 126 -16% 1 300 STOR 2 125 1 300 STOR 2 245 -18%	1107 23% 3 300 900 744 -17% 1 390 1 300 570R. 1 524 -13% 1 217 -28% 1 300 STORAGE 1 220 -27% 1 217 -28% 1 300 STORAGE 1 220 -27% 1 12,815 -3% 17,950 17,950 17,536 -2%
Dining Commons DC Cafeteria/Commons DC Chair Storage	1 6,000 6,000 1 1 600 600 1 600 570R.1 1 570R.2 1	11,073 -570 13,230 6,232 4% 1 6,000 6,000 544 -9% 1 600 600 2772 -9% 1 600 5TOR. 1 5772 -9% 1 600 5TOR. 1	1 6,232 4% 544 -9% 1 272 -9%	1 6,000 6,000 1 600 600 1 600 STOR. 1 STOR. 2	1 6,232 4% 1 (544 -9% 1 272 -9% 1	6,000 6,000 1 600 600 STOP 1 1	11,073 -570 13,230 6,232 4% 1 6,000 DINING 544 -9% 1 600 600 272 -9% 1 600 STORAGE 1 272 572 570 1 600	1 6051 1% 1 10,000 DINING - LOWER 1 3,864 -6% 1 10,000 DINING - LOWER 1 3,864 -6% 562 -6% 1 900 900 CHAIR STORAGE 289 -68% 1 272 -55% - - - - - - -
DC Kitchen DC Serving Area	STOR. 2 1 1 2,000 2,000 KITCHEN 1 1 1,000 SERVING 1 1 1 1,000 SERVING 1 1 1 1,000 SERVING 1 1	272 STOR. 2 1,805 -10% 1 2,000 2,000 KITCHEN 905 -10% 1 1,000 1,000 SERVING 111 -8% 1 120 120 OFF	1 272 1 1,805 -10% 1 905 -10% 1 111 -8%	STOR. 2 STOR. 2 1 2,000 2,000 KITCHEN 1 1,000 1,000 SERVING 1 120 120 OFF	1 1,805 -10% 1 2 1 905 -10% 1 2	STOR. 2 1 2,000 2,000 KITCHEN 1 1,000 1,000 SERVING 1 120 120 OFF 1	272 STORAGE 2 1,805 -10% 1 2,000 2,000 KITCHEN 905 -10% 1 1,000 1,000 SERVING 111 -8% 1 120 120 OFF	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
DC Receiving/ Maintenance Closet DC Toilet/Shower/ Locker area	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	173 14% 1 200 200 1 102 -14% 1 200 CLOSET 1 CLOSET 2 71 2% 2 100 200 1 1 102 2% 1 100 T/S/L 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	173 -14% 1 102 -14% 1 71 -14% 204 2% 2% 1 102 2%	1 200 200 1 200 CLOSET 1 CLOSET 2 200 2 100 200 200 1 100 T/S/L 1 200	1 102 14% 1 71 204 2% 2 1 102 2% 1 1 102 2% 1	200 200 200 CLOSET 1 200 CLOSET 2 100 200 100 T/S/L 1 100 T/S/L 2	173 -14% 1 200 200 1 102 -14% 1 200 200 1 1 200 1 1 200 1 1 200 1 1 200 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1<	I 120 FS OFF 2 1 121 1% 173 -14% 1 300 300 CLOSET 1 316 5% 1 71 -65% - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
Total Visual Arts VA Multi-Purpose Art Studios VA Kiln Room	10,120 1 2 1,300 2,600 1 1 1,300 ART 1 1 1 1,300 ART 2 1 KILN 1 1 1	9,974 -1% 10,120 1,729 -34% 2 1,300 2,600 916 -30% 1 1,300 ART 1 813 -37% 1 1,300 ART 2 152	1 102 2% 9,974 -1% 1,729 -34% 1 916 -30% 1 813 -37%	10,120 2 1,300 2,600 1 1,300 ART 1 1 1,300 ART 2	9,974 -1% 1,729 -34% 2 2 916 -30% 1 1 813 -37% 1 1	10,120 1,300 2,600 1,300 ART 1 1	9,974 -1% 10,120 1,729 -34% 2 1,300 2,600 916 -30% 1 1,300 ART 1 813 -37% 1 1,300 ART 2	9,811 -3% 16,340 14,845 -9% 2356 -9% 3 Varies 4,000 3,832 -4% 1 1171 -10% 1 1,400 ART (K-5) 1 1,681 20% 1 1185 -9% 1 1,200 ART (6-8) 1 1 1,086 -10% 1 1,200 ART (6-8) 2 1 1,065 -11%
VA Kiln Room VA Storage Total Health Clinic	1 100 100 KILN 1 2 200 400 1 1 1 200 STOR. 1 1 1 1 200 STOR. 2 1 1	185 -54% 2 200 400 133 -34% 1 200 STOR. 1 52 -74% 1 200 STOR. 2 2,066 -33% 3,100	185 -54% 1 133 -34% 1 52 -74% 1,914 -33% -33%	2 200 400 1 200 STOR.1 1 200 STOR.2 3,100	185 -54% 2 133 -34% 1 52 -74% 1 1,914 -33% 1	200 400 200 STOR. 1 1 200 STOR. 2 1 3,100	185 -54% 2 200 400 133 -34% 1 200 STOR 1 52 -74% 1 200 STOR 2 1,914 -33% 3,100	1 100 0% 1 150 150 KIN 1 132 -12% 588 47% 3 150 450 466 4% 1 304 52% 1 150 ART STOR. 1 160 7% 1 284 42% 1 150 STOR 1 306 2% 3,044 -2% 1 150 ART STOR. 1 4430 4430 4 -2% 4,600 4,630 4430 4430
HC Reception/Waiting Area HC Exam Rms.#1 HC Exam and Dental #2 HC Lab/charting area HC Provider Offices	1 150 150 COM. HEALTH 1 1 80 80 EXAM 1 1 1 160 160 EXAM 2 1 1 100 100 LAB 1 2 120 240 1 1 120 OFF 1 1 1 120 OFF 2 1	224 49% 1 150 150 COM. HEALTH 88 10% 1 80 80 EXAM 1 141 -12% 1 160 160 EXAM 2 100 0% 1 100 100 LAB 225 -6% 2 120 240 112 -7% 1 120 OFF 1 113 -6% 1 120 OFF 2	1 224 49% 1 88 10% 1 141 -12% 1 100 0% 225 -6% 1 112 -7% 1 113 -6%	1 150 150 COM. HEALTH 1 80 80 EXAM 1 1 160 160 EXAM 2 1 100 100 LAB 2 120 240 1 120 OFF 1 1 1 120 OFF 2 1	1 224 49% 1 1 88 10% 1 1 141 -12% 1 1 100 0% 1 225 -6% 2 1 112 -7% 1 1 113 -6% 1	150 150 COM. HEALTH 1 80 80 EXAM 1 1 160 160 EXAM 2 1 100 100 LAB 1 120 240 1 120 OFF 1 1 120 OFF 2 1	224 49% 1 150 150 HEALTH CLINIC 88 10% 1 80 80 EXAM 1 141 -12% 1 160 160 EXAM 2 100 0% 1 100 100 LAB 225 -6% 2 120 240 112 -7% 1 120 OFF 1 113 -6% 1 120 OFF 2	1 231 54% 1 150 150 COM. HEALTH 1 245 63% 1 165 106% 1 80 80 EXAM 1 1 96 20% 1 159 -1% 1 160 160 EXAM 2 1 163 2% 1 126 26% 1 100 100 LAB 1 98 -2% 226 -6% 2 120 20 238 -1% 1 127 6% 1 120 OFF 1 1 120 0% 1 99 -18% 1 120 OFF 2 1 118 -2%
HC Mental Health conference rm HC Storage HC Toilet Total Special ED	1 120 0H 2 1 1 200 200 CONF 1 1 130 130 STOR 1 2 50 100 1 1 1 50 T1 1 1 1 50 T2 1 1	113 -5% 1 120 0H-2 223 12% 1 200 200 CONF 103 -21% 1 130 130 STOR 131 31% 2 50 100 65 30% 1 50 T1 66 32% 1 50 T2 1,235 6% 1,160 1	1 113>% 1 223 12% 1 103 -21% 1 131 31% 1 65 30% 1 66 32% 1,235 6%	1 120 0FF2 1 200 200 CONF 1 130 130 STOR 2 50 100 1 50 T1 1 50 T2	1 113 -6% 1 1 223 12% 1 1 103 -21% 1 1 131 31% 2 1 65 30% 1 1 66 32% 1 1 66 36% 1	120 0FF2 1 200 200 CONF 1 130 130 STOR 1 50 100	113 -6% 1 120 0FF 2 223 12% 1 200 200 CONF - CLINIC 103 -21% 1 130 130 131 31% 2 50 100 65 30% 1 50 T 1 66 32% 1 50 T 2 1,235 6% 1,160	1 99 -18% 1 120 0H-2 1 118 -2% 1 159 -21% 1 200 200 CONF-CH 1 207 4% 1 161 24% 1 130 130 STOR-CH 1 82 -37% 1 116 16% 2 50 100 102 2% 1 58 16% 1 50 T CH-1 1 51 2% 1 58 16% 1 50 T CH-2 1 51 2% 1 58 16% 1 50 T CH-2 1 51 2% 1 1,343 16% 1,160 1,231 6%
Special ED SE Classrooms SE Toilet/Changing Rooms	3 900 2,700 1 900 SPED 1 1 1 900 SPED 2 1 1 900 SPED 3 1 3 100 300 1 1 100 T1 1	2,266 -16% 770 -14% 778 -17% 748 -17% 126 -58% 42 -58%						
SE OT/PT SE Life Skills Lab w/ Laundry SE Office	1 100 T 2 1 1 100 T 3 1 1 800 800 OT/PT 1 1 800 800 UIFE SKILLS LAB 1 2 150 300 1 1 1 150 OFF. 1 1 1	42 -58% 42 -58% 799 0% 722 -10% 280 -7% 140 -7%						
SE Conference Room SE Teacher Support Room Total Emotionally Disabled - Walker Mill SE Classrooms	1 150 OFF. 2 1 1 250 250 CONF 1 1 250 250 T.S.R. 1 5,400 7 1 5,400 7 1 150 7 1 150 7 1 150 7 1 1 1 150 7 1 150	140 -7% 251 0% 215 -14% 4,659 -14% 0	2,987 1% 1 737 0%	o 			o	
SE Student Support Room SE Independent Support Room		1 740 SPED 1 1 740 SPED 2 1 740 SPED 3 1 740 SPED 4 1 350 350 2 80 160 1 80 ISR 1 1 80 ISR 2	1 737 0% 1 742 0% 1 767 4% 1 741 0% 1 350 0% 170 6% 1 86 8% 1 84 5%					
SE Office SE Conference Room SE Teacher Support Room SE Program Transition Room		3 140 420 1 140 OFFICE 1 1 140 OFFICE 2 1 140 OFFICE 3 1 300 300 CONF 1 150 150	1 84 5% 396 -6% 1 134 -4% 1 131 -6% 1 131 -6% 1 295 -2% 1 156 4% 1 193 -4%					
SE Program Transition Room SE Toilets Total Autism: Kenmoor, Hyattsville, Drew Freeman, Southern Area SE Classrooms		1 200 200 P.T.R. 2 50 100 1 50 T1 1 50 T2	1 193 -4% 105 5% 1 1 52 4% 4,652 0%	0 3 800 2,400		0 800 2,400	0 2,345 -2% 3 800 2,400	2253 -6% 6 800 4,800 5,841 22%
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SE Classrooms SE Sensory Room SE Independent Support Room				1 900 900 SPED 1 1 600 600 SENSORY 1 200 200 ISR	1 550 -8% 1 1 216 8% 1	600 600 SENSORY 1	550 -8% 1 600 SENSORY 216 8% 1 200 200 ISR	4 775 -14% <th< th=""> <th< th=""> <</th<></th<>
SE Office SE Conference Room SE Toilets				1 140 140 OFF 1 300 300 CONF 2 50 100 1 1 50 T1 1 1 50 T2 1	1 299 0% 1 105 5% 2 1 52 4% 1 2 53 6% 1	140 140 OFF 1 300 300 CONF 1 50 100 1 1 50 71 1 1 50 72 1 1	134 -4% 1 140 OFFICE 299 0% 1 300 300 CONF 105 5% 2 50 100 57 53 6% 1 50 T S-1 57 0 0 T S-3 0 0 T S-3	2 131 -6% 1 120 120 OFF 143 19% 2 315 5% 1 200 200 CONF 200 0% 202 102% 4 50 200 199 -1% 3 51 2% 1 50 T1 1 47 -6% 3 55 10% 1 50 T2 1 48 -4% 4 51 1 50 T1 1 51 2%
Total	0	0		4,640	4,481 -3%	4,640	4,481 -3% 0 T S-4	4 45 - 1 50 T2 1 53 6% 4,410 -5% 6,360 72 7,382 16%

PROTECTIVE WALL FINISH (2020.11.19)

Addition of Acrovyn or similar protective wall finish in high traffic areas of the corridors/gathering spaces, excluding walls that are masonry block. Minimum 4'-0" above finished floor.

The conceptual sketch titled "Wall Protection Concept" and dated November 10, 2020, which is representative of the types of high traffic/gathering spaces, is incorporated and attached.

WALL PROTECTION CONCEPT

November 10, 2020



MINIMUM 4'-0 TALL WALL PROTECTION

PART C

EXHIBIT E-5 DEVELOPER PROPOSAL DOCUMENTS



1.4 Design Approach and Considerations

1.4.1 DESIGN APPROACH AND CONSIDERATIONS

i. The design methodology and general approach

INTRODUCTION

Contained herein is the design for a pre-K8 school for 2000 students that meets the requirements set forth in the Project Agreement, Educational Specifications, and Master Specifications for each school. In addition, the design conforms with your level of quality guidelines and specifications. The school has been located on its respective site as identified by PGCPS within the parameters noted in the Project Agreement and accounting for existing facilities to remain.

We have prepared a Design Supplement book, which illustrates our strategies for creating green buildings, **innovative and engaging learning environments.**



METHODOLOGY AND APPROACH

The requirements noted above represent the minimum standard, and

you should expect no less. What you may not be expecting, though, are future-ready designs that deliver on the promise of today's forward-leaning learning needs while at the same time providing the flexibility to adapt as best practices for teaching and learning evolve and your needs change. Additionally, the adaptable spaces, collaboration areas, and flexible furnishings allow schools to respond to any needs for social distancing or other requirements in a constantly changing world.

Our proposed design leverages modern educational space types to bridge the gap between now and the future to build upon your vision and the 14 attributes that **Prince George's County identified as indicative of "communities of learning". We also** understand that, well into the 21st Century, you desire your schools to promote Next Generation educational qualities that respond to the needs for student equity and **differentiated learning needs.**

Furthermore, we recognize that this opportunity is equally about connecting with the community served by this new school. Therefore, along with our design for modern educational facilities and sites, this volume contains our ideas about how to be good neighbors both through ways in which the building was sited and opportunities created for shared usage.

Our goal is to deliver everything you asked for and then some. We offer you the ultimate in flexibility while staying true to your vision, mission, and budget. In order to do so, the Team we have assembled are **national leaders in K-12 school design and construction and experts in facility services.**



Integration of Maintenance Services

ii. How consideration of maintenance services will be integrated into the design

With regard to facilities operations and management, our entire team, including Fengate's Asset Management team , was involved in design discussions from the outset helping shape the design of the buildings to maximize longevity and facilitate ease of maintenance of the facilities.

A few ideas that resulted from their involvement included strategically located maintenance areas and custodial rooms, walk-out roofs, multiple roof access ladders, consolidation of roof top equipment, single elevation

- strategically located maintenance areas and custodial rooms
- walk-out roofs for and multiple roof access ladders for ease of maintenance
- consolidation of roof top equipment
- single elevation mechanical equipment rooms
- low-maintenance standing-seam metal roofs

mechanical equipment rooms, and low-maintenance standing-seam meal roofs among other things. The facility is also carefully designed and engineered so that after-hours use can be both secure and independent of other areas allowing each to operate more efficiently when the entire facility is not engaged. These improvements will result in services the operate smoothly and minimize disruptions to school operations.

As we move forward into design development with the PGCPS, Honeywell will have a seat at the table to provide maintenance and efficiency analysis and insight to facilitate the best design possible for the 30-plus year life span of the project. Ultimately our goal is to streamline maintenance services and limit unnecessary maintenance and replacement cost to PGCPS.

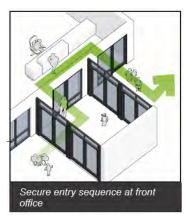
School Safety and Security

iii. Security and IT integration

APPROACH TO SECURITY INTEGRATION

Our approach, which is consistent with the principles of **Crime Prevention Through Environmental Design (CPTED)**, creates layers of security between occupants and threats. This begins at the front door with a strategically designed security vestibule and continues into the learning zones where specific doors can be locked down to create safe sub-zones for the schools. The strategy includes safe means of egress from within each of the protected zones and, importantly, a great deal of internal visibility to create greater line-of sight, facilitate better active/passive supervision, and perhaps most importantly, foster a sense of community within the building. Passive security measures are augmented through technology and the latest in digital surveillance and response.

At the site level, creating a landscape that is clear about what is and what is not public access is the first step toward establishing a secure property. The designs consolidate single points of





The Design Supplement (Appendix A) illustrates security concepts for the proposed buildings.



access to the buildings and control the flow of the public and occupants. In addition, site furnishings that impede vehicular access past the road, perimeter fencing around the school, and clean sight lines from the administrative suite overlooking the entrance plaza are included in the design.

APPROACH TO IT INTEGRATION

Our instructional technology partner was involved in design from the outset helping to shape the buildings from the perspective of IT/AV. From the perspective of students and teachers, technology will be seamless, invisible, and ubiquitous. Design includes telecommunications; audio-visual systems for common areas, offices, gymnasiums, and dining areas; audiovisual systems for classrooms, laboratories, and other learning spaces; and intercom, public address, and the clock and bell systems. Further, design includes access control, CCTC video surveillance, and intrusion detection. As we move forward into design development with the PGCPS, our instructional technology partner will remain at the table to continue to provide insight and guide design.

Ultimately our goal is to promote Next Generation learning while providing the most robust, flexible IT/AV infrastructure possible and limiting unnecessary cost to the PGCPS. The IT/AV systems will be flexible enough to support Blended or Distance Learning should students need to attend classes remotely. This adaptability will help ensure that the Community of Learning is strong, even if socially distant.

Quality Assurance

iv. Approach to quality assurance

Quality Management during design is critical to delivering a successful project. Concise, clear, well-coordinated construction documents are essential to accurately scope and plan to execute the work and avoid delays and rework in the field.

Stantec is committed to comply with the rigorous **ISO9001:2105** *Quality Management Standards*, and we are unique among our peer architectural firms in doing so. Our Stantec Project Management Framework (PM Framework) is a mandatory process we undertake on every project to document an auditable trail and ensure compliance with the ISO standards and the guiding principles therein.. Per ISO9001, both the Professional of Record review and peer review must be



documented and will be available for review by PGCPS.

For the PGCPS project, we have identified Derk Jeffrey, AIA (Key Personnel) a highly experienced K-12 design leader as the Design Excellence and Quality Assurance Manager responsible for overseeing implementation of the quality assurance plan. Each design



deliverable in the Project Schedule has an associated QC/QA activity to assist in tracking and advance planning of required resources. Since the detailed mechanical and plumbing engineering for the project will be performed by Shapiro & Duncan, Inc. under a designbuild contract, we have assigned Setty & Associates (our MEP/FP Design Engineer) as the independent peer review professionals for these critical disciplines. This will further ensure conformance with the basis of design for M/E/P systems.

The design quality assurance program is a critical part of the overall design-build quality management plan that will govern quality assurance from notice-to-proceed through testing, commissioning, and turnover to the operations team of the FM Service Provider.

The Design-Builder will have a PGCPS project dedicated Design Integration Manager responsible for generating cross-discipline collaboration and innovative solutions, while ensuring compliance with the Project Requirements. The Design Integration Manager will also facilitate interface between the design-built team, in particular, the Design Manager and the Operations Start Up & Mobilization Manager.

Considerations for Constructability

vi. How constructability considerations will be included in the design process

Gilbane has been actively involved in the design process from the outset helping to shape the buildings from the perspective of constructability, cost, and value. With that in mind we employed cost-saving measures like:

- maximizing building efficiency for alignment with the PGCPS program;
- designing appropriately simple building forms to reduce needlessly complex conditions and tricky construction details which can impact the construction schedule, create cost over-runs, and complicate maintenance;
- designing the building on a regular module so that it can be fabricated and erected efficiently with pre-engineered steel structures where possible;
- limiting the amount of interior masonry to decrease the amount of steel required to carry its weight;
- designing an attractive but simple building façade with a carefully selected palette to reduce the number of trades required to coordinate completion;
- disrupting as few of your existing site amenities as possible so that funds are not diverted from the project to needlessly redo anything that is currently serving you well; and
- leaving the existing facilities untouched during construction so you do not have to bear costs to temporarily relocate programs and students.



As we move forward into design development with the PGCPS, Gilbane and our other subconsultant design-build partners will remain at the table to continue to provide insight. Ultimately our goal is streamline construction, improve quality, and limit unnecessary cost to PGCPS.

Post-Close Flexibility

PGCECP is committed to collaborating with PGCPS and its key stakeholders. The Project Agreement contemplates that the school will make minor design revisions and we have included the allowance stipulated to accommodate there programmatic or aesthetic changes.

Upon award of the Project, the Design-Build Team will hold a kick-off meeting with PGCPS to review the design and obtain confirmation of intent. If the Project Agreement program is not changed, minor modifications to building interiors can be efficiently managed through the above noted process. With consideration to PGCECP's highly beneficial Project schedule, as well as the efficiency required to achieve these July 2023 delivery dates, the building footprint and site plan (in compliance with the Project Agreement) must remain unchanged (i.e. not open to adjustment as part of the post-close flexibility regime) to meet the Scheduled School Occupancy Date.

In all cases, changes related to post-close flexibility reviews will need to be identified, discussed and realized as soon as possible following close. Flexibility to accommodate revisions is the highest at the start of the project when the impact (in relation to both schedule realization and Project Agreement design revision cost allowances) is the lowest.

1.4.2 DESIGN STATEMENT – state the principles and goals of its proposed designs and how, specifically, each design achieves these and meets or exceeds the requirements set forth in the Agreement.

Design Principles

Based on our review of your documents and our subsequent one-on-one conversations, we understand what is essential to Prince George's County Public Schools and those whom you serve. We sorted through our notes and your documents and note 26 essential points, which we have compiled into 3 overarching design principles, along with a few other considerations to keep in mind. The 3 main design principles which have informed our designs are:

- **Support Student Outcomes** Following the example set forth in your Educational Specifications, our designs feature student-centered learning environments that have vibrant common spaces, useful collaboration areas, adaptable classrooms, flexible FF&E, and are healthy, bright, and comfortable. The designs embody Next Generation learning.
- **Create Community Assets** -- While supporting student outcomes (and honoring the professionals who teach, administer, and serve the students) your new facilities should empower the larger communities and neighborhoods they serve.
- **Be Environmentally Friendly** We aim to capture all of the benefits of green construction, from being an example to younger generations of how to be good stewards, to the economic advantages of energy efficient buildings, to the health benefits of clean air, peaceful learning spaces, and daylit rooms.



The following graphic illustrates the 26 essential points we have identified and how they have been sorted into the 3 Design Principles, along with a few other considerations. Each of these Principles served as touchstones as we worked. All of these and more are reflected in the design concepts we are proposing. Please see section 1.4.3 – Project Designs below and our Design Supplement (Appendix A) for additional details on how our proposed designs meet or exceed the requirements set forth in the Agreement.

SUPPORT STUDENT OUTCOMES	providing the ability for 8,000 students to receive an education from qualified teachers in buildings that are safe, effective, efficient, and conducive to learning	to the extent possible within the limits of educational equity (i.e. fairness and inclusion), providing every advantage possible to your students, teachers, and community
promoting equity of access through universal design	fostering the social and emotional wellness of students and teachers by providing facilities that are not only safe and secure but also warm and welcoming	fostering an environment in which close, trusting relationships between adults and students create a climate for students' personal growth and intellectual development
providing space to foster teacher collaboration and allow them to link across the curriculum and meet the unique needs of their students	providing differentiated places for teaching and learning to encourage and allow teachers to adjust instruction as necessary to enhance student learning	supporting the continued growth and development of students with special needs as integral members of their larger learning communities
providing space intended to create opportunities for students to explore, develop interests, and acquire knowledge and abilities related to the fine and performing arts, technology, family and independent living, and other electives	providing access for teachers and students to local, regional, and global learning opportunities through technology and other means	maintaining safe ingress and egress to and from the site including, but not limited to, considerations for separation of car and bus traffic, pedestrians and bicycle riders, and parking
CREATE COMMUNITY ASSETS	to the extent possible within the limits of parity, creating a sense of identity within each of six schools to foster pride in both the school and the community it serves	providing space for parents and community volunteers to encourage and facilitate their continued involvement in the schools and the lives of their teachers and students
safeguarding against future obsolescence by designing flexible and adaptable schools that can effectively and affordably evolve over time to keep pace with changes in community needs and educational best practices	offering site-specific solutions that respond to the unique community, cultural, topographical, and geotechnical conditions at each location	planning for community use of the school buildings and grounds so that secure access can logically and securely be granted to designated spaces within the building without having to open or operate private zones in part or in whole
accommodating community use of the buildings through the inclusion of on-site, school-based community health centers	BE ENVIRONMENTALLY FRIENDLY	ensuring the long-term viability of these facilities through the exclusive use of sturdy, stable, long-lasting materials and systems in their construction
practicing stewardship of municipal resources by operating facilities that are affordable, efficient, and sustainable both now and in the future	integrating maintenance services in an affordable, efficient, and sustainable manner such that inspection and maintenance are safe, efficient, and less costly now and in the future	in support of all the above, providing school facilities that are consistently aesthetically pleasing and reflect the site conditions, local community and culture, sustainable best practices, and universal design
OTHER CONSIDERATIONS	providing school facilities that are consistently aesthetically pleasing and reflect the site conditions, local community and culture, sustainable best practices, and universal design	supporting the middle school model by identifying small learning communities – cohorts of students supported by a teams of core instructors – within each of three grade-level houses; and
offering learning environments that meet the developmentally diverse intellectual, physical, psychological, and social needs of students transitioning from children to adolescents	eliminating a transition by creating a combined pre-K8 campus with a single administration and shared resources	capitalizing on economies of scale and opportunities to share resources to more fully leverage the capital opportunity

We sorted your principles into several overarching design categories which became the touchstones for our designs. The accompanying Design Supplement (Appendix A) illustrates the strategies for creating green buildings, innovative and engaging learning environments, and customizing schools for the communities they serve.



1.4.3 PROJECT DESIGNS – For each School, provide written and graphical summaries to demonstrate the Proposer's understanding of the School design specifications, as described in the Technical Requirements. Each Proposer shall include a narrative of the design and aesthetics approach to each School, detailing key elements, such as design criteria, materials, architecture, signage, safety and security, Site layout, and similar.

Design Criteria

In addition to addressing the essential considerations listed above, we identified several design *criteria* that guided our thinking. They are consistent with your vision but go broader and deeper to tap into the core of Next Generation learning both today and tomorrow. The design detailed in Design Supplement (Appendix A) addresses the following *criteria*:

Architecture. Incorporating everything in your educational program is a challenging puzzle with infinite combinations, but finding the one that will result in thoughtful, efficient, safe, and effective facilities takes more than just making the pieces fit. Developing a truly inspired solution requires successfully leveraging architecture in support of teaching and learning. The proposed designs detailed in the Design Supplement do just that.

The designs we are proposing get at the essence of creating diversified and engaging learning

environments by incorporating a variety spaces into the overall fabric of the designs in support of learning today and tomorrow. This is what we call Next Generation learning. For example, spaces for peer collaboration are strategically placed throughout the plan, always coupled with other instructional areas so that options to support different activities and needs are always right at hand.

Materials and Adaptability. While it is impossible to know what the future holds, we can be certain that it will not resemble the past. The educational programs, instructional technologies, and teaching methodologies that serve students today will give way to new ones that better serve the next generation. With that in mind we were careful to design facilities that meet your requirements today with an eye toward tomorrow. By designing on a grid around a regular module and limiting the amount of masonry on the interior, the facility can easily and economically adapt as future needs dictate. In other words, the facility is not frozen in time and you will not be stuck tomorrow with a facility designed exclusively for today.

In a similar manner, the materials chosen to adorn the interior and clad the exterior were intentionally selected for both their durability and adaptability. For example, walls are high-impact gypsum board with 5' exterior corner guards. Materials are easily maintained, and variations the color of the exterior cladding, the interior color palette, or customized wall graphics offer the school its unique identity and sense of place.



Signage and Wayfinding. Wayfinding is integral to the design allowing the building to be easily understood and navigated by its occupants. Through massing, line-of-sight, changes in volume and texture, and variations in lighting, occupants are able to intuit the flow of traffic, the location of programs, the difference between public and private, and how to enter and exit the building. The single entrance to the building as is easily understood upon entry to the site as the halls inside the building are to navigate.

In support of the intuitive design, we have included signage for wayfinding typical of schools. Accessible signage is standard, and there are opportunities to use signage to promote the building as a teaching tool, too.

Safety and security. The safety and security of the buildings' occupants is paramount, but we must also seek to balance the potential risk of an event against the health and well-being of the students, educators, and staff who occupy the building every day. In other words, as we considered reasonable measures to guard against the unthinkable, we were equally careful not to overly "harden" the buildings and create a prison-like setting that could weigh heavily on the psyche.

As noted previously, our approach, which is consistent with CPTED, is to create a series of barriers between occupants and anyone wishing to do them harm. This begins at the front door with a strategically designed security vestibule and continues into the learning zones where automatic doors or gates are connected to the building security system. The strategy includes safe means of egress from within each of the protected zones and, importantly, internal transparency to create greater line-of sight, facilitate better active/passive supervision, and, importantly, foster a sense of community within the building. Passive security measures are augmented through technology and the latest in digital surveillance and response.

As for the site, similar tactics have been employed with site furnishings that impede vehicular access past the road, perimeter fencing around the school, and clean sight lines from the administrative suite overlooking the entrance plaza and the dining room and terrace overlooking the back.

Site layout. Design for the site is community-, vehicle-, and pedestrian-friendly. For further descriptions and additional details, please see narrative below and reference the Design Supplement (Appendix A).

Community-friendly. As much as this project is about accommodating additional capacity, it is equally about the surrounding neighborhoods and communities it serves. As we thought about how this school could have a positive impact on the community, we looked at locating fields, playgrounds, and spaces within the school like the gymnasium, performance spaces, and other common areas in ways that were easy to use after hours as neighborhood amenities.

Vehicle-friendly. We planned the site to respond to the unique neighborhood, topographical, and geotechnical conditions, considering carefully the experience of arriving on or departing from the site. In addition to identifying clear points of access, we were careful to separate bus and car traffic while still providing a single entrance to the school. Bus parking is separate from staff parking, bus doors face the entrance to the building, and the bus parking configuration allows for pull-through of all buses (i.e., no backing). Visitor, staff, and event parking is conveniently located and wayfinding is intuitive.



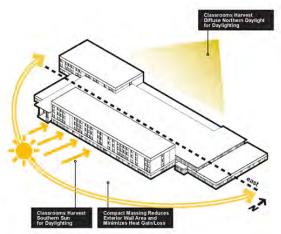
Section 1.4 -Design Approach and Considerations

Pedestrian-friendly. Pedestrian safety – whether arriving on foot or continuing on foot upon arrival in car or bus – drove site design. Gracious plazas in front of the schools provide safe access and create a sense of arrival for students, staff, and visitors before they head under canopies and through the front doors. Safe access to other parts of the sites is clearly delineate via paths and walkways.

Environmentally-friendly. The proposed design is organized into simple, compact shapes to limit the amount of surface area from which energy can escape, thereby reducing the carbon footprint. The building's envelope is engineered with a high R-value of continuous insulation to retain conditioned air, buffer humidity, and shield against passive solar heat gain. The building's mechanical system works in concert with the compact massing and effective envelope to operate at maximum efficiency.

These strategies adhere to LEED Silver requirements for energy usage, but we also thoughtfully adhered to the other LEED for Schools standards including, but not limited to, location and transportation, sustainable sites, water efficiency, energy and atmosphere, materials and resources, and indoor environmental quality.

Operationally-efficient. We understand that effectiveness should not come at the cost of durability, so we selected systems that are simple, reliable, and efficient. See greater detail and examples in our responses to your question about operationally-efficient design below.



Buildings are positioned for optimum solar orientation. See the Design Supplement (Appendix A) for additional information.

Reduced-cost. We understand that design is not a commodity and that a school constructed for several million dollars can be vastly better (or worse) than another school constructed for the same amount. Design does matter. At the same time, though, we recognize the importance of being judicious with public funds.

With that in mind, the previously mentioned constructability measures also serve as cost-saving strategies like:

- designing appropriately simple building forms to reduce needlessly complex conditions, tricky construction details, that can impact the construction schedule and likely cost over-runs.
- designing the building on a regular module so that it can be erected efficiently with preengineered steel structure (see "Materials" above) where possible;



- limiting the amount of interior masonry to decrease the amount of steel required to carry its weight;
- designing an attractive but simple building façade with a carefully selected palette to reduce the number of trades required to coordinate completion
- disrupting as few of your existing site amenities as possible so that funds are not diverted from the project to needlessly redo anything that is currently serving you well; and
- leaving the existing facilities untouched during construction so you don't have to bear costs to temporarily relocate programs and students (see "Uninterrupted-operation" below).

Uninterrupted-operations. We were careful to design and sequence construction of the new facilities so that they will not interfere with the operations of other facilities on the sites that are scheduled to remain in use during construction. At no point do we encroach on the building footprints or restrict access to, from, or around existing-to-remain facilities. We understand that moving students into temporary trailers, for instance, is disruptive, inconvenient, and costly, so we purposely avoided that (see "Reduced-cost" above).

We understand that rerouting traffic is likewise disruptive and inconvenient (and potentially costly, too) so have avoided that as well. Any changes in circulation will be implemented over the summer break to avoid disruption. We aim for as little disruption as possible.

Expandable. We believe part of our assignment is to provide options for future expansion, so when locating the new facility on the site we were careful not to paint you into a corner or limit future options. In addition, the flexible nature of the floorplan grid and the regular pattern of circulation will not limit options (see "Materials" above). When the time comes, the facility can be renovated, retrofitted, or expanded with as little interruption and cost as possible.

Design Overview

i. general description of the conceptual design of each school, describing the engineering and design philosophy and detailing how the design addresses each of the design evaluation factors set forth in this RFP

• **Designing from the inside out.** The building exterior combines modern materials for a contemporary aesthetic that will stand the test time, but the "look" of the building was the last element designed. Working from the inside out, we began the process by combining your program elements with our educational design best practices to develop thoughtful, efficient, safe, and effective floor plans and spatial experiences for the pre-K8 school. It was not until we were satisfied that the floor plans championed learning that we began to consider the look and feel of the building.

Also note that we avoided a lot of needless "ins and outs" around the perimeter of the building that not only drive up first costs but also create more surface area and create nooks and crannies that are harder to maintain and supervise. The straightforward building massing led to floorplans that are intuitive, easily understood, and easy to supervise.



Section 1.4 -Design Approach and Considerations



Simple massing and materials create elegant, modern facades that will stand the test of time.

• **Pre-K8 massing**. The pre-K8 school's compact mass consists of three simple bars. The three-story bar contains the elementary school, the four-story bar contains the middle school, and the connecting two-story bar, which is the "heart of the school" contains shared functions like the dining and food services, physical education, and the library .

The ways in which these designs address your evaluation criteria are noted throughout the technical proposal, in general, and the Design Supplement (Appendix A), in particular.

Compliance with Standards

ii. a design statement setting out the Proposer's approach to the design of the Project according to the Technical Requirements, including descriptions of technical standards and specifications that will be used or are proposed for the proposed design

a. LEED checklist. Please see the Design Supplement (Appendix A) for our LEED Silver checklist.

b. Structural systems.

- a. Design Basis IBC/ASCE risk category III
- b. Foundation Systems:

i. The basis of design for the foundation system will be cast-in-place steel reinforced concrete spread footings and foundations. Based on the preliminary subsurface exploration performed by ECS, the Proposed Net Allowable Bearing Pressure is 4000 psf. However, from documents received, the existing building's allowable bearing pressure design of the existing building foundation were of higher capacities.



This very conservative proposed net allowable bearing pressure, although preliminarily, will result in an unnecessarily large footings, with volume of concrete and steel reinforcing required. A follow up test boring should be considered, and locations as determined by the Design Structural Engineer.

c. Slabs -On-Grade:

i. Slab-on-grade will be 5 inches thick reinforced with 6x6 – 2.1 x 2.1 welded wire fabric, on vapor barrier and granular capillary break, drainage layer. The slab subgrade should be compacted, proof-rolled to 95% maximum dry density per ASTM D698, prior to placing the granular material, as recommended by ECS.

d. Superstructure:

i. The structural approach to the school is to provide a cost-effective system that complies with all relevant building codes, including the PGCPS Technical Specifications. The proposed prototypical design, where essentially four buildings with each separate function conjoined in a central courtyard area. The classroom and administrative area are a two-story structure (four-story on Hyattsville), while the Gymnasium is a single-story structure with high roof. The Food service and Performing Arts areas are also a single-story structure with high roof.

e. Floor Construction:

i. The superstructure is proposed to be supported by steel columns and steel beams, with 1 ½ inches metal deck with 4 ½ inches normal weigh concrete, with a total slab thickness of 6 inches. The design approach is to utilized composite steel beam action, utilizing the effective section of the concrete slab, connected to the steel beam with shear studs. This will allow for an optimum size and depth of steel beam.

f. Roof Construction:

i. The roof will be supported with open web steel joist with 1 $\frac{1}{2}$ inches metal roof deck, supported on structural steel beams and girders. At the Gymnasium, long span open web joist will be utilized to provide clear span over the basketball court.

g. Lateral Resisting Systems:

i. It is anticipated that wind load will be the controlling lateral load, for the longitudinal surface of the building, while seismic forces will control transversely. It proposed to utilize Moment-resisting Frame of steel, for the three and four-story structures and Shear walls of Concrete Masonry Units (CMU), for a portion of the single-story structures.

h. Structural Design Loads:

i. Floor Live Load:

Live loads are those type of gravity induced loads intended to provide for the transient requirements of the occupancy.

1. Classrooms = 40 psf



Section 1.4 -Design Approach and Considerations

- 2. Corridors above first floor = 80 psf
- 3. Partition Loads = 15 psf
- 4. First-floor corridors = 100 psf
- 5. Stairs and exit ways = 100 psf
- 6. Reading rooms = 60 psf
- 7. Book Stack rooms = 150 psf
- 8. Offices = 50 psf
- 9. Assembly areas & Labs = 100 psf
- ii. Roof Live Load: Minimum 30 psf
- iii. Snow Load: 30 psf
- iv. Roof Superimposed Dead Load:

Interior loads hung from structural slab are designed as 15 psf. The load accounts for ductwork, piping or electrical conduits hung from the existing roof slab and ceilings.

v. Wind Load: 120 MPH, which is based on a Risk Category of III

vi. Seismic Load: will be based on Risk Category III and Site Class of D in the development of seismic loads, as recommended in ECS' Geotechnical Report.

c. Exterior cladding – walls. The basis of design for the exterior wall enclosure is a combination of brick veneer, insulated metal panels and glazed aluminum storefront. The brick veneer will be attached to metal stud sub-framing, with exterior sheathing, and code compliant insulation, air & vapor barriers. Interior wall facing of the brick veneer system to be painted gypsum board. Insulated metal panels to be attached directly to the Z-girts or other metal stud sub-framing. Painted gypsum board at interior of occupied spaces. Gymnasium walls to have CMU to 10' AFF with high impact gyp board above. Performance rating of R-20 for exterior walls.

Exterior cladding – windows. The window systems will be thermally broken aluminum storefront glazing systems with 1" insulated glass with Low E coating. The other windows in the building will be thermally broken Aluminum commercial grade singular punched windows with 1" insulated glass with Low E coating. Exterior storefronts will be limited to 12'-0" in height, and window walls will be designed to span floor-to-floor at glazed elevations of the building; system design and details must be adjusted to utilize window wall components (not curtainwall). Interior roller shades required in all academic and workplace spaces. Window assembly U-Value: 0.38 / SHGC: 0.39 / VLT:70%

Exterior cladding – doors. The doors on the exterior will be medium-style thermally broken aluminum commercial-grade doors and frames with 1" insulated, clear glass. All exposed exterior fire and service doors will be hollow metal. These steel doors and frames will be galvanized and painted.

Exterior cladding - designed for snow and freeze resistance.

i. Brick wall bases on all perimeter walls will provide wall protection at areas where snow might accumulate.

ii. Snow melt will be provided in gutters or other elements subject to damage from repeated freeze/thaw cycles.



Exterior soffits and canopies.

i. Soffits will be gypsum based hung on Exterior-grade framing and finished with a cementitious exterior-grade material and then painted for a smooth monolithic look.

ii.Entrance canopy designs will include metal fascia, metal soffits, and, where needed, internal drains.

d. Roofing. The roof will be supported with open web steel joist with 1 ½ inches metal roof deck, supported on structural steel beams and girders. At the Gymnasium, long span open web joist will be utilized to provide clear span over the basketball court.

The roofing material will be a combination of insulated standing seamed metal roofing panels and single-ply Thermoplastic Polyolefin (TPO) roofing membrane over rigid insulated boards to meet the energy code requirements. Insulated standing seam roof panels will be attached to roof purlins. Performance rating of R-30 for roofing system. Roof Warranty Period: 20 years from date of Substantial Completion.

The roofing systems will be a fully adhered single ply TPO 60 mil. Membrane over tapered insulation as needed to roof drains. Roof-expansion joints will be installed at strategic locations for building expansion and as needed to protect the roof. Metal gutters and downspouts will be heavy gauge custom profiles to match the drawings.

Equipment & Roof Access: Roof access will be through stairs and insulated metal roof hatches with stair access. Walkways will be provided to and around the roof top equipment. Walkway pads are heavy-duty, slip-resisting, surface-textured, approximately 3/16 inches thick and acceptable to roofing system manufacturer. The upper mechanical equipment will be screened with a galvanized metal steel framing system covered with open air architectural metal panels.

e. Interior construction – partitions. Interior partitions will be metal stud with 5/8" gypsum board full height floor to deck. Metal studs to be 20 gage metal min. Walls will be designed to meet STC ratings as required by the Educational Specs. Interior CMU partitions as noted on floor plans.

Interior construction – windows. Depending on the size and fire rating, interior windows frames to be either hollow metal or aluminum. Horizontal blinds or roll-down shades as indicated in Ed Specifications in academic teaching spaces.

Interior construction – doors. All door frames to be welded 16G hollow metal with solid core 5-ply factory-finished wood veneer doors except those noted to be hollow metal. Hollow metal door locations include the mechanical, electrical, and fire-protection equipment rooms. Vision glass in classroom doors, where indicated. UL rated where applicable. Interior boiler room door frames are to be grouted.

Door STC rating will be based on the appropriate rating given the STC rating for room's wall construction.



Section 1.4 -Design Approach and Considerations

- f. Stair construction. General construction will provide for a 2-hour rated drywall enclosure. Steel members. Reinforced walls will extend from the concrete foundations up. Steel members will be designed to support the main and intermediate floor landings. Steel stringers, angles, and pan sections will be set and prepared for poured in placed concrete filled stairs and landings. Stair handrails and guardrails are steel with painted finish.
- **g. Interior finishes**. The interior finishes vary slightly from program area to program area as appropriate (e.g. the cafeteria finishes differ from the classroom finishes which differ from the gymnasium finishes). What follows is a description of proposed finishes for a typical classroom or science lab. Finishes elsewhere in the buildings will be commiserate.

a. **Interior finishes – floors**. Academic and Administrative spaces to have resilient tile flooring with 4" vinyl base. Science labs, prep rooms, and STEAM and STEM labs to have moisture and stain-resistant flooring.

i. Toilets/Locker rooms/Showers to have ceramic tile flooring.

ii. Gymnasium, Dance and Stage to have wood strip flooring.

iii. Wellness Lab to have resilient athletic flooring.

iv. Kitchen to have quarry tile flooring.

b. **Interior finishes – walls**. Painted gypsum wallboard: up to two field wall colors, one trim color on doors, frames and trim where used; eggshell finish to walls and semi-gloss finish to trim.

- i. Painted CMU at athletic and performing arts spaces as indicated.
- ii. Ceramic Tile at Toilets/Locker rooms/Shower spaces as indicated.
- c. Interior finishes ceilings. Acoustical Ceiling Tiles (2'x2') typical.
 - i. Painted gypsum wallboard at Toilets.

ii. Acoustical baffle ceiling system at media center, gymnasium, performing arts, dining, and common areas as indicated.

d. **Interior finishes – window treatments**. Manual room darkening roller shades in classrooms, studios, science classrooms and small group/resource rooms.

e. **Interior finishes – finish carpentry**. Solid-surface windowsills with 1/2" thickness, eased-edge profile. Countertops in science classrooms, prep rooms, and STEAM and STEM labs to be heat & chemical resistant (to acids, etc.)

f. **Interior finishes – impact resistance.** High impact resistant gypsum wall board will be standard wall finish (up to 5' above finish floor) with metal corner guards in all high traffic areas. Painted CMU in athletic and performing arts spaces as indicated.

h. Elevators. General construction of the elevator-shaft towers will be concrete masonry units on cast-in-place walls. Reinforced walls will extend up from the first floor. The elevator-shaft walls below the first floor will be made of cast in place concrete or CMU. Steel members will be designed to support the hoist way beam, rails and door sills and door operators.



The elevators will include gearless electric passenger elevators with a machine room less (MRL) basis of design. All elevators will be load rated at 4,000 pounds, will be rated at 200 fpm speed, will have two speed siding doors and the openings will be 4' wide by minimum 7' tall.

i. Plumbing systems.

a. Domestic Water. A 6-inch combined water/fire service will be provided to the building and tied to the municipal water supply at the street. A main shutoff valve will be installed once the service enters the building before splitting into a 4-inch domestic and 6-inch fire service. After the lines split, an indoor meter assembly and bypass complying with WSSC requirements will be installed. A double check valve backflow preventer will be installed immediately downstream of the meter complying with ASSE 1015.

Internal water distribution piping will route from the main backflow preventer to a domestic booster pump. The duplex pump skid will be sized for 200 GPM at 60 FT of head. From the booster skid, domestic water will be distributed throughout the building to all plumbing fixtures as well as the hot water heating system. All domestic distribution piping within the building will be Type 'L' hard drawn copper tubing. Accessible shutoff valves will be installed at branches serving fixture groups. Water hammer arrestors will be installed on branch piping serving fixtures with quick closing valves. Hammer arrestors will be installed per PDI standards and have access panels installed for maintenance

b. Hot Water System. To meet the school's hot water demands, two gas fired, tank type water heaters each sized for 65% of the building hot water demand will be installed in the mechanical room. The heaters will be sized to meet the peak hot water demands for the plumbing fixtures and kitchen equipment. Water will be stored at 140 degrees Fahrenheit and regulated down to 120 degrees Fahrenheit with a main thermostatic mixing valve assembly complying with ASSE 1017. A separate distribution loop serving the kitchen fixtures will be supplied at 140 degrees Fahrenheit, bypassing the main TMV at the water heater. Additional scald protection will be implemented through thermostatic mixing valves complying with ASSE 1070 which will be installed at all lavatory and ADA faucets. All tempering valves will be thermostatic and pressure sensitive. Recirculation piping will be installed for any hot water pipe runs that exceed the allowed distance/ volume requirements of the energy code. All new domestic hot water piping will be Type 'L' hard drawn copper. All hot water supply and return piping will be insulated to meet the minimum energy code requirements with a minimum 1-inch thickness.

A recirculating system will be implemented with an in-line pump serving the 120°F distribution loop and another pump for the 140°F supply/return system serving the kitchen. The pump shall be controlled by a timer and aquastat to maintain the desired supply temperature within the piping system.

c. Sanitary System. The building sanitary waste system will consist of waste/vent risers located within the chase enclosure at group restrooms, as well as at designated vertical enclosures to serve classroom sinks and other remote fixtures. Horizontal mains below the first-floor slab will pick up all branch lines and vertical risers before exiting the building. A 6-inch sanitary main will be shown to a point 5 feet from the building wall and coordinated with the civil engineer for size, location, and invert elevation. Schedule



40 PVC piping will be allowed for below grade installation, but it is not permitted as vertical risers or above grade installations. Piping above grade including wye/tee fittings extending from below grade horizontal mains will be no-hub cast iron.

A large volume-based grease interceptor will be provided outside the kitchen area with a capacity of 1600 gallons. The interceptor shall be sized and installed per WSSC requirements. Cleanout will be provided up and downstream of the unit with a dedicated vent line extending from the interceptor up through the roof. Manhole covers will be provided at grade for servicing the interceptor.

d. Storm System. The building will be provided with internal primary and secondary storm drainage system. Roof drains will be installed at every roof surface and connect to internal storm piping placed within a plumbing chase.

Roof drains and overflow drains will have a cast iron body with an aluminum dome, they will be equipped with deck clamp and drain receiver. Interior portions of the storm and overflow system will be insulated including the drain body and the vertical riser. All risers will turn horizontal below the first-floor slab and route to the exterior of the structure. Once outside the building, the piping will tie into the site storm main or a stormwater management system as proposed by the civil engineer. Emergency overflow drains will terminate through an exterior wall with a downpour nozzle and stainless steel screen. Discharge points will be coordinated with the architect and placed at visible locations 12-18 inches above finished grade. As an alternative to internal overflow piping system, scuppers can be provided on raised parapets as a means of emergency overflow to the roof.

e. Natural Gas. The exact service size, meter installation, and pressure requirement will be coordinated with the local gas utility based on the connected gas load and available street pressure/capacity. The system will serve mechanical systems, domestic water heaters, and gas fired kitchen equipment. Gas runs through the structure will be run at 2 psi with local pressure regulators at the individual pieces of equipment. Regulators will have vent lines terminating to the outside, or be specified to be of the vent limiting variety. Downstream of the meter, a separate supply line with identification will serve the emergency generator.

f. Plumbing Fixtures. Fixture selection, ADA compliance and exact installation location will be coordinated with PGCPS design guidelines. All restroom fixtures will be vitreous china, with manual faucets/valves and comply with current code flow and flush requirements. Toilets will be wall mounted, back outlet with manual flush valves. Urinals will be wall mounted with manual flush valves. Lavatories will be vitreous china, wall mounted with consideration for ADA compliance on select fixtures. This will include thermostatic mixing valves, pipe guards and specialty faucets/basin selection. Floor drains will be installed in all group restrooms with trap primer connection. Electric water coolers with bottle fillers will be installed as per architect's layout with ADA compliant fixtures installed in select areas. Wall hydrants will be installed within group restrooms for maintenance purposes. Non-freeze lockable wall hydrants will be provided around the perimeter of the building at 50 foot intervals.



g. Water Efficiency Strategies. High efficiency fixtures will be installed throughout the facility, with water closets restricted to 1.28 gallons per flush (gpf), urinals consuming 0.125 gpf, and lavatories that have low-flow aerators restricted to 0.5 gpm or metering faucets consuming 0.25 gallons per cycle.

j. HVAC systems.

a. Heating Systems.

ii. Pre K-8 School: 5,000 MBH

iii.Two 3,000 MBH gas-fired condensing boilers, each at 83% capacity, will provide the required heating capacity for the building.

iv. The boilers will provide 140°F water to the air handling unit coils, terminal unit reheat coils, space unit heaters or radiation, and finned tube radiators serving the building. The system will be arranged for variable speed pumping.
v. The design is based on a variable primary, distribution system. Two-way control valves will be provided at the coils. A differential bypass valve will be used to control the system pressure at very low loads. Two (2) variable volume primary chilled water circulating pumps will be provided. Pumps will be piped in parallel, and provided with variable frequency drives. Each pump shall be sized for 66% of the total chilled water flow rate of the plant. The run time of the pumps shall be equalized via the BMS.

vi. Pressure independent characterized two-way automatic control valves shall be provided at each heating hot water coil.

b. Cooling Systems.

ii. Pre K-8 School: 500 tons

iii. One (1) nominal 400 ton variable speed screw type air cooled chiller
will provide the required cooling capacity for the building. Supply chilled
water temperature will be designed at 42°F, with a temperature differential
of at least 12°F, and provide chilled water for the indoor unit coils.
Two (2) 250 ton for the K-8 School variable speed screw type air cooled chiller(s)
will provide the required cooling capacity for the building.

iv. The new chiller will be furnished complete with a compressor, condenser, evaporator, refrigerant monitor, resettable relief valves, vent piping for HFC-134A machines, motor controller, and microprocessor-based control panel and vibration isolators. The evaporators and the condensers shall have flanged pipe connections. The new chiller(s) will be furnished complete with a compressor, condenser, evaporator, motor controller, and microprocessor-based control panel and vibration and vibration isolators. The evaporators shall have flanged pipe connections. The new chiller(s) will be furnished complete with a compressor, condenser, evaporator, motor controller, and microprocessor-based control panel and vibration isolators. The evaporators shall have flanged pipe connections.

v. The design is based on a variable primary, distribution system. Two-way control valves will be provided at the coils. A differential bypass valve will be used to control the system pressure at very low loads. Two (2) variable volume primary chilled water circulating pumps will be provided. Pumps will be piped in parallel, and provided with variable frequency drives. Each pump shall be sized for 66% of the total chilled water flow rate of the plant. The run time of the pumps shall be equalized via the BMS.



vi. Pressure independent characterized two-way automatic control valves shall be provided at each chilled water coil. Piping at the chiller will include a three valve bypass for system flushing. Piping at the chiller will include valve connections for temporary chillers or future energy recovery systems.

vii. The primary chilled water loop will be provided with a differential pressure transducer installed across the supply and return piping. The primary chilled water pump variable frequency drives shall modulate pump speed to maintain the system differential pressure set point.

viii. All pumping system shall be provided with a minimum flow bypass in addition to VFDs.

c. Primary Air Systems.

i. Air handling units will generally be zoned to follow functional areas of the building at (55°F)

ii. The air-handling units will be factory assembled, double wall modular air handling units similar to Trane Climate Changers. The air-handling units will be factory assembled, double wall modular air handling units. The units will include a chilled water-cooling coil, hot water preheat coil, enthalpy wheel, 30% pre-filters, 95% final filters, a supply air fan, a mixing section, and access sections. Outdoor air will be mixed with return air and fully conditioned in the central station airhandling units. The units will provide a constant supply air temperature unless the room conditions allow supply air temperature reset without increasing the room humidity. A return/exhaust air fan will provide pressure control even when the economizer cycle is in use. A return/exhaust air fan will operate with the supply fan to provide pressure control. The units will operate to maintain environmental conditions during the occupied portions of the day.

iii. For units serving multiple spaces, air will be ducted to individual terminal units serving each space. For units serving a single large space, terminal units will not be required. For single zone units, a heating coil in the reheat position will be included in the air-handling unit.

iv. The air-handling units and return air fans will be equipped with variable speed drives to allow reduction of the fan energy used when full flow is not required, to meet energy codes and to allow a "soft" start, reducing in-rush current on start up.

d. Terminal Units.

i. Single duct, pressure-independent, variable volume terminal units with hot water reheat coils will provide temperature control of the spaces.

ii. The inlet damper in each single duct reheat terminal unit will vary the air flow to the area served to the preset minimum as the load reduces. On a further reduction in the cooling load, the heating coil will temper the supply air to avoid over-cooling of the space served.

iii. Generally, each individual space will be provided with a VAV terminal unit.

iv. The terminal units will be DDC. DDC control of terminal units will not be connected to the central control and monitoring. Control will be local from the wall sensor.



v. Demand control ventilation will be provided for all high occupancy spaces. Carbon dioxide sensors shall be located between 3 and 6 feet above the floor within each space to measure the concentration of CO2.

e. Energy Efficiency Strategies.

A whole building energy simulation will be performed to demonstrate the improvement in the proposed building performance rating compared with the baseline building performance. The mechanical strategies that will be utilized to meet the target goal include:

- i. High efficiency chillers with variable speed drives on compressors.
- ii. Variable volume primary chilled water system.
- iii. Demand control ventilation with CO2 sensors.
- iv. Premium efficiency motors and variable speed drives on fans and pumps.
- v. Occupancy Sensors.

f. Acoustical Criteria.

The following acoustical criteria (2019 ASHRAE Handbook) will be used in the architectural and mechanical design of the identified spaces. These NC ratings are "background" ratings (i.e., they are exclusive of noise generated by occupants and their equipment, such as office equipment). These values are measured in the center of the room, 5 feet above finished floor. The HVAC air handling systems will be designed to not exceed the following room noise criteria.

Room Names or Space Types	NC
Open Office / Common Areas	35
Private Offices	30
Conference Rooms	30
Classrooms	35
Cafeteria	30
Gymnasium / Recreation	45
Multi-Purpose Rooms	35
Health Rooms	30
Server Rooms / Printing Rooms	50
Corridors	45

ROOM ACOUSTICAL CRITERIA

k. Electrical systems – general. Electrical service of 480Y/277 volt, 3-phase, 4-wire service will serve the electrical needs of the buildings. A 10% spare/future capacity will be considered throughout the electrical distribution system when sizing the buildings' electrical services. The location of the main service transformers will be coordinated with the power company. The pad-mount transformers will be placed in a location coordinated with the design team. The local utility will provide the wires to a pad-mount transformer from their nearest source, along the main street or manhole. The project construction will provide an underground conduit duct bank from the property line to the transformer, consistent with power company requirements to ease cable installation.



The power company will extend the new incoming service cables from their transformer to the new main switchboard via a C/T cabinet. The concrete encased duct bank will be 15-way consisting of 4-inch PVC Schedule 40 conduits from the switchboard to the power company pad-mounted transformer. The duct bank will be extended from the main switchboard up to the power company transformer and terminated as directed. Transformer location will be coordinated with the Design Team and power company during design phase.

The building will have a main electric room that consists of one 480/277V, 3-phase, 4-wire switchboard. Switchboard equipped with ground fault protection and surge protective devices (SPD) will feed all 277/480-volt panel-boards, major HVAC equipment, and 208/120 volt distribution panels via a transformer that will serve convenience receptacles, computer loads, small HVAC equipment, etc. A shielded isolation K-rated transformer will serve 120/208V panels with computer loads and other loads sensitive to noise and harmonics. A step-down general-purpose transformer will serve 120/208V panelboards with miscellaneous loads. The 277/480 volt panels will mainly feed the LED lighting and miscellaneous loads from the respective area/ floor. Panels will be provided with 25% spare capacity at branch circuit level. Buildings' electrical systems shall be designed by strategically isolating different energy use type with the intent to report, measure and monitor the schools' lighting and receptacle loads, HVAC systems, water heaters, elevators and other loads greater than 20kW.

The main switchboard and the panels with main circuit breakers will be provided with copper/aluminum bus bars and fully rated neutral and ground bus bars. The entire system will be grounded in accordance with the current code guidelines. The design will allow 5% voltage drop from service to devices as allowed by code. Code requires that all switchboards, distribution boards, and motor control centers shall be located in the dedicated spaces and protected from physical damage, tampering or unauthorized access.

In the main electrical room, a tap ahead of the main service switch to serve the fire pump as necessary.

Electrical systems – emergency power. The emergency/standby electric power system shall incorporate 480/277 V, 3-phase, 4-wire emergency/standby diesel engine generator in a sound attenuated weatherproof enclosure. The generator will be sized to provide emergency power to life safety including egress lighting, alarm systems, and mechanical service equipment whose failure to function will cause hazard to life or property, and stand- by loads including security devices, HVAC equipment, elevator, Public Address and Communication system (in Telecom rooms), and Sewage removal system. HVAC equipment on standby power will comprise of heating hot water boilers and pumps, HVAC equipment controls, air handlers to maintain heat during the loss of power, and HVAC equipment serving Telecom rooms.

A remote annunciator panel duplicating all of the engine-generator trouble and failure alarms will be located in the principal office.

Generator system shall be rated with 10 percent spare capacity.



An uninterruptible power supply (UPS) will be provided for back up of TELECOM system, and cash registers. Batteries shall be sized for minimum 15-minutes (for TELECOM system) and 10-minutes (for cash registers) back up protection at full operating capacity.

Electrical systems – lighting. The lighting system for the building shall be designed to conserve energy and minimize glare while still providing a pleasant, comfortable, and functional environment. The guidelines set forth by the Illuminating Engineering Society (IESNA) shall be used to establish target-maintained illumination levels throughout all spaces. Specific influences of glare, task complexity, surface reflectance characteristics, ceiling brightness, and usage shall be addressed with this procedure. Lighting power allowance permitted by the building energy code will be factored in determining the lighting selection and layout in each space.

Lighting equipment will be rated and selected to operate properly in environments that pose difficult conditions including but not limited to damp and wet areas. Lighting will be primarily be recessed into ceilings where possible and selected areas will be supplemented with other special luminaires to address functional requirements and create visual elements in the space.

Typical classroom spaces shall be illuminated via multiple rows of linear dimmable LED fixtures. Automatic daylighting controls will be provided in areas where required. Mounting options will be determined during the design phase to meet the design standard specifications. Additionally, typical classrooms shall also be provided with wall washers at the teaching walls. Lighting controls in a typical classroom and similar instructional type spaces will consist of a relay-based stand- alone lighting control system.

Offices and administrative areas shall be specified with recessed mounted LED fixtures, whereas utility and shop areas shall be provided with pendant or surface mounted LED utility strip light fixtures.

Typical restrooms shall be served by recessed mounted LED downlight fixtures. The gymnasium and dining areas shall be specified with LED high bay fixtures to provide the adequate levels of lighting in the space. The lighting in storage rooms, mechanical rooms, electrical rooms, and telecom rooms will be provided with LED lighting fixtures.

Occupancy sensors will be used with manual override switches to control all interior nonemergency lighting in the building, mainly the offices and classrooms. The occupancy sensors will consist of ceiling mounted sensor devices that operate in conjunction with relay units. These sensors send the signals to the respective relay units in the space to turn the associated lighting fixtures on and off.

In addition to occupancy sensors, automatic daylighting controls will be provided to control luminaires in the daylight zones. Lights in the daylight zone shall be controlled independently of general area lighting in accordance with ASHRAE standard 90.1. Daylighting control devices shall be capable of automatically reducing the lighting power in response to available daylight by having stepped dimming using multi-level switching and daylight sensing controls.



Exterior Lighting includes pole-mounted lights to illuminate the parking areas, and fixtures attached to the building. Poles will be aluminum and will be at a maximum of 20 feet high. LED fixtures will be provided for all exterior lighting applications. Exterior lighting will be controlled through the building's lighting control system via lighting relay panel.

Building-mounted perimeter fixtures and pole mounted parking lot luminaires will be on separate circuit and controlled separately via a photocell and time clock. The photocell shall be located on the roof, facing north.

Cutoff type luminaries shall be mounted on round aluminum poles. The height of poles shall be determined as design progresses after a review of the local ordinances to determine if pole height restrictions exist. In addition, the site lighting should be designed in accordance with the IESNA guidelines to eliminate light pollution of properties adjacent to the site.

The exterior lighting will be controlled via a combination of photocell and time clocks, wired via lighting relay panel.

Emergency lighting shall be provided throughout all interior areas of egress accomplished by select light fixtures fed via the emergency power supply. Exit sign fixtures shall be strategically located and provided throughout all interior areas of egress as well. Exit signs shall be specified with a LED light source.

Additionally, a wall mounted battery pack operated emergency illumination will be provided for all working spaces about service equipment, switchboards, and panelboards installed indoors to comply with the Prince George's county electrical code subtitle 9-104.1.

Operationally Efficient Design - Part One

iii. Any nonstandard or unique design features that will reduce the need for maintenance, make inspection or maintenance procedures more efficient, safer or less costly, both during the term and after hand back

Services were incorporated into design discussions from the outset helping shape the building from the perspective maintenance services. Our unique design assumes that no equipment will be placed above the ceilings in the classrooms to minimize disruptions to learning if maintenance is required. In addition, no fan-powered VAV boxes are specified in order to reduce the need for access above ceilings for fan motor repair and/or replacements. Incidentally, this also reduces potential wear-and-tear on ACTs. Likewise, potential wear-and-tear on the roof membrane can be limited because of the consolidation of roof equipment on the roof.

Ultimately our goal is to limit early or irregular wear that might result in unnecessary cost to the PGCPS.

Operationally Efficient Design - Part Two

iv. Any nonstandard or unique design features that will reduce operating costs for PGCPS, both during the term and after hand back



The design has incorporated insulated metal panels to improve the energy efficiency of the building and to reduce operating costs. The use of insulated metal panels (IMP) improves the life span of the building and reduce the maintenance required with masonry buildings. With masonry buildings you must clean the masonry with harsh chemicals that can damage the environment and must regularly point and caulk these buildings. The building windows will include thermally insulated and UV protected glass to reduce the absorption if energy in the building, reducing heating and cooling loads that then improve the life span of the equipment in the building. We include the design of air-cooled chillers and high efficiency boilers that improve operating efficiencies as well as reduce the long-term maintenance requirements. Honeywell will continue to be part of the MEP design and strategy process. Non-proprietary building automation systems will lower costs during the operating term and after hand back.

Design Aesthetic

v. Approach to ensuring that the design features are aesthetically pleasing, consistent throughout the Project and reflect local community, sustainability and accessibility.

The narrative below introduces such topics as the local community, sustainability, accessibility, and more. Further articulation and details are documented in the accompanying Design Supplement (Appendix A).

LOCAL COMMUNITY

Though similar in many ways, each design is intended to be personalized for each community using color on the exterior (see "Building Exterior Design" below as well) and the potential for customized interior graphics at each school. In addition, each building has been adapted and carefully sited to maintain the unique identity of each site.

SUSTAINABLE DESIGN

Like our integrated approach to incorporating Next Generation educational aims, sustainability is a natural part of how we design. While it is true that the industry had for a time forgotten some basic tenants as we collectively leaned on fossil fuels to engineer our comfort, most thoughtful designers have returned to time-tested best practices to design buildings that lend themselves to energy efficient operations, healthy occupation, and long-term sustainability.



Understanding that it's easier to control energy into and out of a simple, compact shape than it is to do the same for an amorphic, sprawling form, we efficiently organized the program within simple building masses, limiting the amount of surface area from which energy can escape. In addition, we engineered an efficient, airtight envelope with a high R-value (measure of thermal resistance) to hold in conditioned air, shield passive solar heat gain, and buffer humidity.

Knowing that the operation's budget is impacted most greatly by the systems being maintained and powered, we engineered efficient, effective systems as prescribed, but only after first designing a simple building form and engineering an efficient envelope so that the systems could perform at their highest, most efficient level.

These strategies meet LEED Silver requirements for energy usage. In addition to these measures we also adhered to the other standards (and Maryland High Performance Buildings) including, but not limited to, location and transportation, sustainable sites, water efficiency, energy and atmosphere, materials and resources, and indoor environmental quality. We also leaned on our experience with the WELL Building for Schools Pilot program to encourage movement, incorporate biophilic design, promote art and beauty, and connect occupants to nature.

ACCESSIBILITY.

All designs comply with the 2010 Americans with Disability Act's Standards for Accessible Design.

BUILDING EXTERIOR DESIGN

The idea of expressing the inside on the outside drives the aesthetic and carries all the way around the building. It is not a look; it is a belief that what happens inside the school matters and that the façade of the building should reflect the spirit within. Each building form and elevation – what the school looks like – is an expression of the activities that occur within it.





Interior spaces are flexible and adaptable to change over time. See the Design Supplement (Appendix A) for additional information.

In concert with the interior design, we have created a cohesive exterior presence as public architecture. Beginning with a respect for the context, we created an interplay of masonry, glass, and metals that will withstand the test of time both with respect to style and their durability. The color of some exterior finish elements can be altered from school to school to promote school spirit and foster a site-specific sense of identity. Our aim was to create a durable, inspired, and timeless civic presence that celebrates the importance of education in your communities.

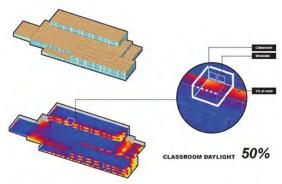
BUILDING INTERIOR DESIGN

Inside, the buildings favor simplicity and sophistication to create vibrant spaces in which to learn and work. Visual transparency to, from, and between spaces allows direct supervision by teachers and peers. The warm interiors laced with natural materials, daylight, and views acknowledge occupants need to be in contact with nature and inspired by their surroundings. Common areas like Media Centers and Dining Spaces are located in such a way to create central hubs of activities and feature site-specific wall graphics to promote school spirit and foster a community-specific sense of identity.

Our hope is to make the school exciting, inviting, and at its best inspiring for students and teachers alike.

NATURAL LIGHT

The pre-K8 school is oriented along an east-west axis allowing the classrooms, which are arranged along the north and south edges of the buildings, access to plentiful natural light. Furthermore, positioning the classrooms on the north and south (as opposed to east and west) allows us control from unwanted glare and heat gain. Elsewhere, clerestories bring natural light into the common areas.



The school designs have been analyzed to ensure daylight harvesting at the classrooms. See the Design Supplement (Appendix A) for additional information.



Design innovations in our proposal include an Ionization System for air purification, and Solar Light Tubes. Solar light provides natural daylight that increase focus and productivity:

- Ionization System: We are including in our pricing a Ionization System for air purification that will prevent illnesses from spreading through the HVAC System. This is an innovative approach that will help enable the schools to have clean and healthy indoor air. In addition, this reduces energy usage by allowing for the reduction of outside air in a project. This was an \$900,000 upgrade to the project. More Information can be found here: https://globalplasmasolutions.com/
- Solar Light Tubes. Solar light provides natural daylight that studies have shown can help increase occupants' focus and productivity. With the addition of natural daylight in your schools, we believe your students will be alert and inspired to achieve their goals. Sunlight will not only improve student mood, but their ability to focus and be productive. Benefits include improved attendance and retention with a more pleasant and health promoting work environment. resulting in a decrease in employee and student sick days and an increase in saving energy on lighting. More information can be found here: https://lightwaydaylight.com

Conceptual Design

Provide design concepts developed at a minimum 15% design level for each School and include the following Conceptual Design Drawings and Renderings in Part 7, Appendix A on single-sided, unfolded, 11x17inch paper in a separate binder.

A full accounting of our conceptual designs including structural systems concepts, site development plans, floor plans, interior and exterior elevations and renderings, room data schedules, and diagrams to further illustrate intent can all be found in the Design Supplement in which we have provided enough detail to clearly present and describe the design concepts as proposed.

Also contained therein are large format exterior and interior renderings including the front façades, the main entrances, side elevations, typical classrooms, and other significant spaces throughout the proposed preK-8.

Please see the Design Evaluation Criteria Matrix on the following page.

1.4.4 SITE DEVELOPMENT PLAN – provide the site plan (1:500) including adjacent roads, walks, and property uses, and the location of all buildings (including full build-out), roadways, parking lots, drop-offs, retaining walls, sports fields, walkways, pathway connections, tree planting, shrub beds, extent of irrigation, including connection location, asphalt play areas, future playground areas, sports and athletic fields, extent of fencing, site furniture, flag poles, future site signage, firefighting access, and any other elements.

Site Design Details

A complete description of our conceptual site development plans including the location of the building at buildout, roadways, parking lots, drop-offs, potential retaining walls, sports fields, walkways, pathway connections, tree plants and other proposed landscaping, asphalt play areas, athletic and PE fields, fencing, site furniture, flag poles, site signage, access for firefighting, and diagrams to further illustrate intent can all be found in the Design Supplement (Appendix A).



			PAGE REFERENCE	
	CRITERIA	RESPONSE	TECHNICAL NARRATIVE	DESIGN SUPPLEMENT
	Clearly explains the design philosophy, approach and concept, as well as benefits to PGCPS and PGCPS Persons;	This narrative explains our philosophy and approach to making equitable Communities of Learning which promote Next Generation learning for the teachers and student, while maximizing operational efficiency and minimizing maintenance.	1.4-1	Pg. 6
ii	Meets or exceeds Technical Requirements and provides for efficiently functioning Schools	The school designs are in compliance with the Educational Specifications, and have been designed with elegance and simplicity in mind to make them efficient yet engaging.	1.4-7 - 1.4-26	Entire Book
iii	Provide commitments in the design narratives to building materials and systems that deliver a high-quality and durable school that will provide high performance over the life cycle of the school;	The design team has carefully selected interior and exterior materials and building systems that have well proven track records, longevity, and contribute to the wellbeing of the school and its occupants.	1.4.7 1.4-11 - 1.4-23	Entire Book
iv	Demonstrates Project reliability and durability beyond the minimum Technical Requirements;	The designs have systems and components that are standard in the industry, have proven reliability, and are durable to last for many years. They are also readily available should they need replacement or upgrading over the service period.	1.4-11 - 1.4-23	Entire Book
V	Reflects an integrated design process involving input from construction, maintenance and life-cycle asset management personnel and teams;	From the outset, the team has collaborated on your schools to weave together Next Generation school design, affordability, contructability, and life cycle optimization.	1.4-2 - 1.4-6	Entire Book
vi	Allows for evolution in educational delivery with adaptability to accommodate new learning models and configurations;	ility to accommodate new 🕺 adaptability in its structural system, and flexible furnishings 🔰 1		p. 15-75
vii	Incorporates a quality Site Development Plan that contributes to the wellbeing of the students (including vehicular and pedestrian circulation, clear lines of sight to surround areas inside and outside the Schools)	All sites are developed with community safety in mind as well as a desire to maximize green space and connections to nature. We have carefully adhered to your site operation needs, best practices in school design, and CPTED principles.	1.4-27	p. 77-91
viii	Provides daylighting and views aimed to improve the overall attitude, satisfaction and well-being of PGCPS Persons, as well as enhance educational performance, reduce unfavorable conditions, and lower energy costs for each School;	The schools are located on the sites so that classrooms and common spaces have access to great views and maximum daylight harvesting potential for the learning environment.	1.4-26	p. 20-21; 52-53
	Convey a distinct identity for each school within the overall interior and exterior design;	Our approach offers equity and parity for all new schools, while making meaningful opportunities for all schools to distinguish themselves and their communities through varied finish palettes, both interior and exterior, and providing opportunities for customized graphic arts to personalize the schools.	1.4-24 - 1.4-26	p. 15-75
х	Reflects innovation and incorporates solutions to address key considerations, such as durability and cleanability, through the use of damage-resistant materials and surfaces that are easy to maintain by PGCPS staff;	Our school designs embrace Next Generation Learning and offer ample collaborative areas, connectivity between programs, and foster Communities of Learning at multiple scales. To promote ease of use, furnishings are flexible, materials are extremely durable, and the structural is adaptable so that the schools can remain innovative over the years to come.	1.4; also see info. re: ionization and solar tubes in Exec. Summary	p. 12-75
xi	Describes how the Proposer's designs and design approach will facilitate routine and long-term operations and maintenance of the Schools and contribute to long-lasting school environments (i.e., extending the life cycle of the building to 50+ years);	Our design approach embraces simplicity in construction assemblies and accessible equipment location for maximum ease of regular service and care. Systems are chosen for their overall value, including durability, as are all of the building finishes.	1.4.2 1.4-9	p. 12-75
xii	Recognizes and supports sustainability, including sustainability as a learning tool, by incorporating sustainable design strategies that are easily apparent to students, staff and visitors and that can be incorporated into teaching (i.e., using school as a 3-D textbook illustrating sustainable design strategies)		1.4-9 1.4-24 - 1.425	p. 20, 28, 52, 62
viii	Includes highly qualified Key Personnel during the Design phase that are sufficiently dedicated and available to the Project at the appropriate times.	Our team is an integrated collaborative of experts, thought leaders, and innovators in the field of educational facilities design, brought together to serve your vision and your community. Please refer to the resumes in Section 1.4.8.	1.4.8	-



1.4.5 SITE GRADING AND SERVICING – provide drawings and details illustrating the Proposer's plan for underground services and site grading including sanitary, water, storm water management, and site grading.

Site Grading And Servicing Details

Drawings and details illustrating the Proposer's plan for underground services and site grading including sanitary, water, storm water management, and site grading can be found in Design Supplement.

1.4.6 SITE CIRCULATION AND PARKING – describe and provide details of the proposed circulation, drop-off and parking plan for each school, including temporary parking solution during construction; permanent parking solution; site circulation, access, and turn around; bus loading and unloading, and emergency vehicle access.

Site Circulation And Parking Details

Drawings and details illustrating proposed circulation; the drop-off and parking plan for each school; any proposed temporary parking required during construction; permanent parking; site circulation, access, and turn around; bus loading and unloading, emergency vehicle access, and diagrams to further illustrate intent can all be found in Design Supplement.

1.4.7 FF&E – provide an overview, description and renderings of any proposed furniture, fixtures, and equipment to be provided in the Schools. The proposal should indicate the Proposer's approach to selecting FF&E and how these decisions influence and are incorporated in Design processes. Proposal should also include information regarding FF&E procurement schedule, highlighting those items that are on the critical path for the Project Schedule.



Furniture, Fixtures, And Equipment

We approached casework, architectural millwork, and FF&E in a flexible and cohesive design that aligns with PGCPS Educational Specifications. Understanding that furniture and technology needs are constantly evolving, so we have taken an approach to allow for the most flexibility to accommodate future uses. We are providing fixed casework and millwork at areas that require sinks and/or other systems components in, for example, science and art, but in all other areas are providing freestanding furniture that allows the school to configure classroom environments to suit their learning objectives.

Regarding specific manufacturers, we have selected Kreuger International as our primary basisof-design for the majority of the spaces found throughout the building. Kreuger International manufactures furniture that can be used in specialty areas like dining, library, art rooms, and commons areas in addition to classroom, administrative, and general-purpose spaces.

In addition to Kreuger International, we have selected many of the leading educational manufacturers for specialty areas such as Wenger for music, Lakeshore for early childhood education, and several other top manufacturers to provide a comprehensive interior scope. It is our approach to provide PGCPS with the best value, partnering with manufacturers that specifically produce furniture and equipment for educational facilities and have a long track record of past performance, quality, and innovation.

Our designs delineate between fixed modular casework, architectural millwork, and FF&E elements. In addition to layouts, we will provide detailed room schedules that will identify each item by manufacturer and model number, as well as provide an individual specification sheet for each item that will detail the product's performance specs, finish options, and any available accessories or options. Once PGCPS has reviewed the furniture schedule and all finish selections and option selections are made and approved, an order will be placed for production. We will work with the you and our build partner, Gilbane, to ensure that all decisions are made in the timeframe which allows us to receive and install the products on or before the substantial completion dates.

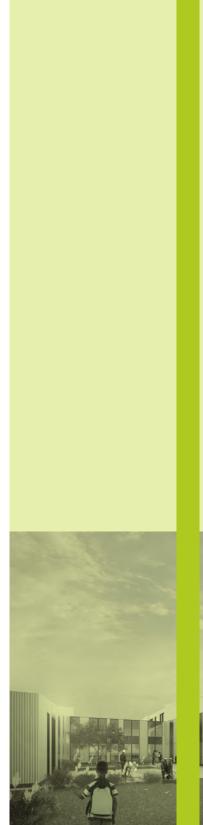
In addition, all the fixed casework products will be provided with NAUF materials and all FF&E products will be GreenGuard certified.



K-1 Dining















PGCPS ACF Package 1 DBFM For RFP No. DCP19-24A NEW **SOUTHERN AREA PREK-8**

November 11, 2020



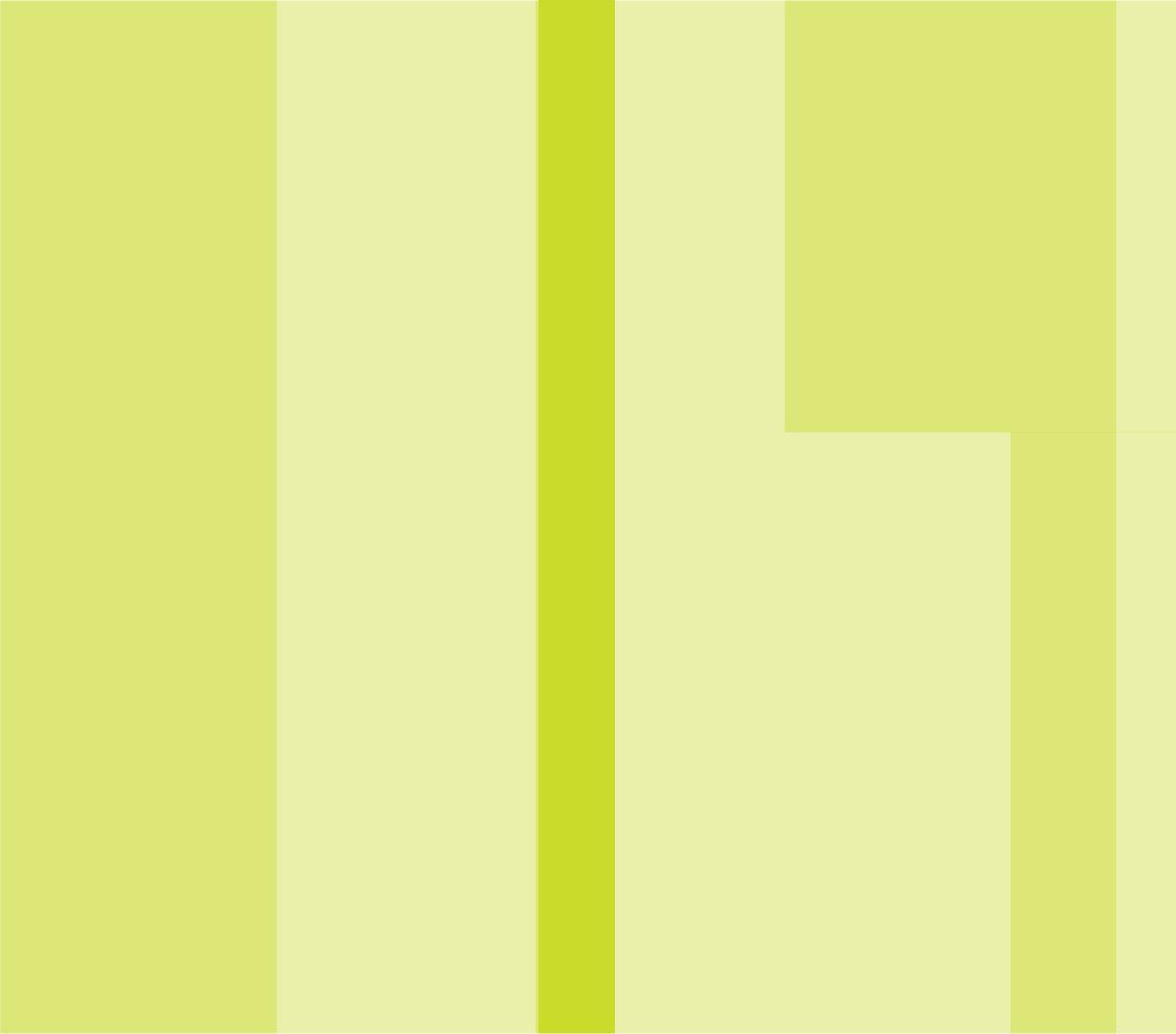
FENGATE LEADING North American P3 Investor

PRINCE GEORGE'S COUNTY EDUCATION & COMMUNITY PARTNERS FENGATE ASSET MANAGEMENT | GILBANE DEVELOPMENT COMPANY GILBANE BUILDING COMPANY | STANTEC | HONEYWELL









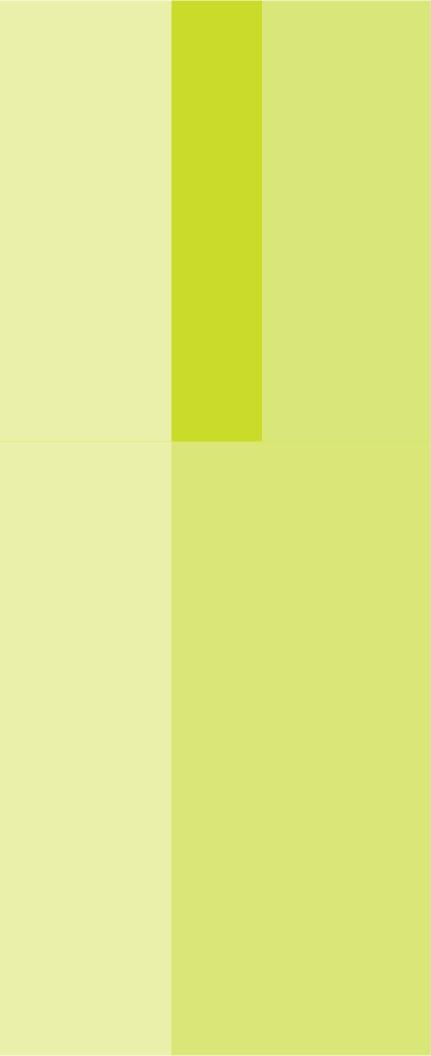
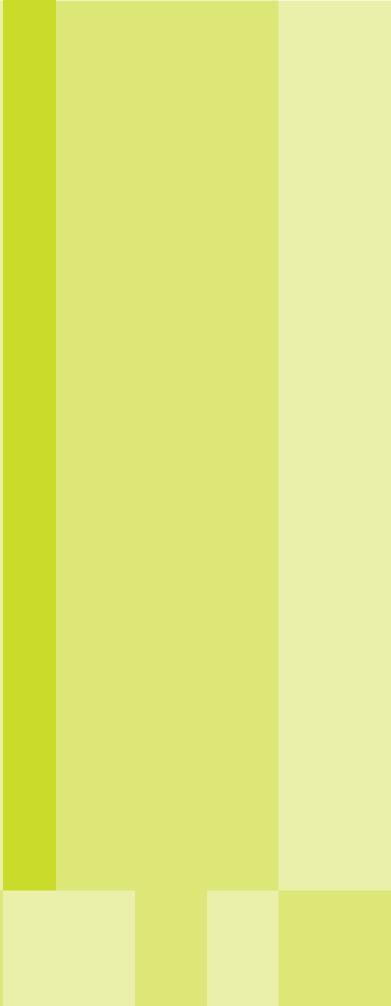


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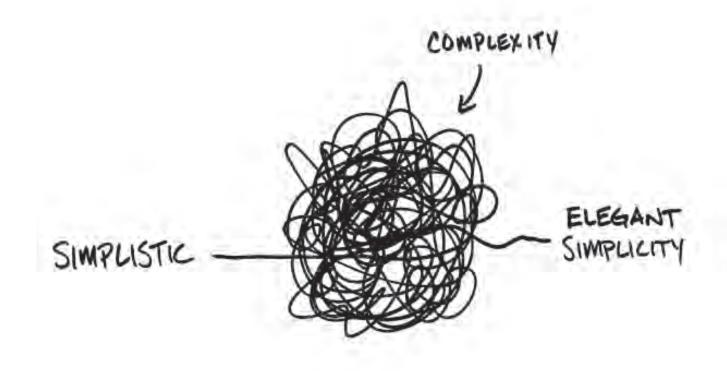




INTRODUCTION

Project Overview Massing Overview and Concept Site Overview Site Safety and Security Strategies





We recognize the journey it took to get here, appreciate your dedication to the cause, understand that expectations are high, and we are eager to be part of your team. The story that follows is least of all about bricks and mortar or how they coalesce to form modern, innovative school facilities. It's really a story about fully capitalizing on the opportunity before you and making good on the promises you have made one another. As you flip through the pages we invite you to view the design as we did through the eyes of the students, teachers, and parents who will be served by these buildings now and for years to come.

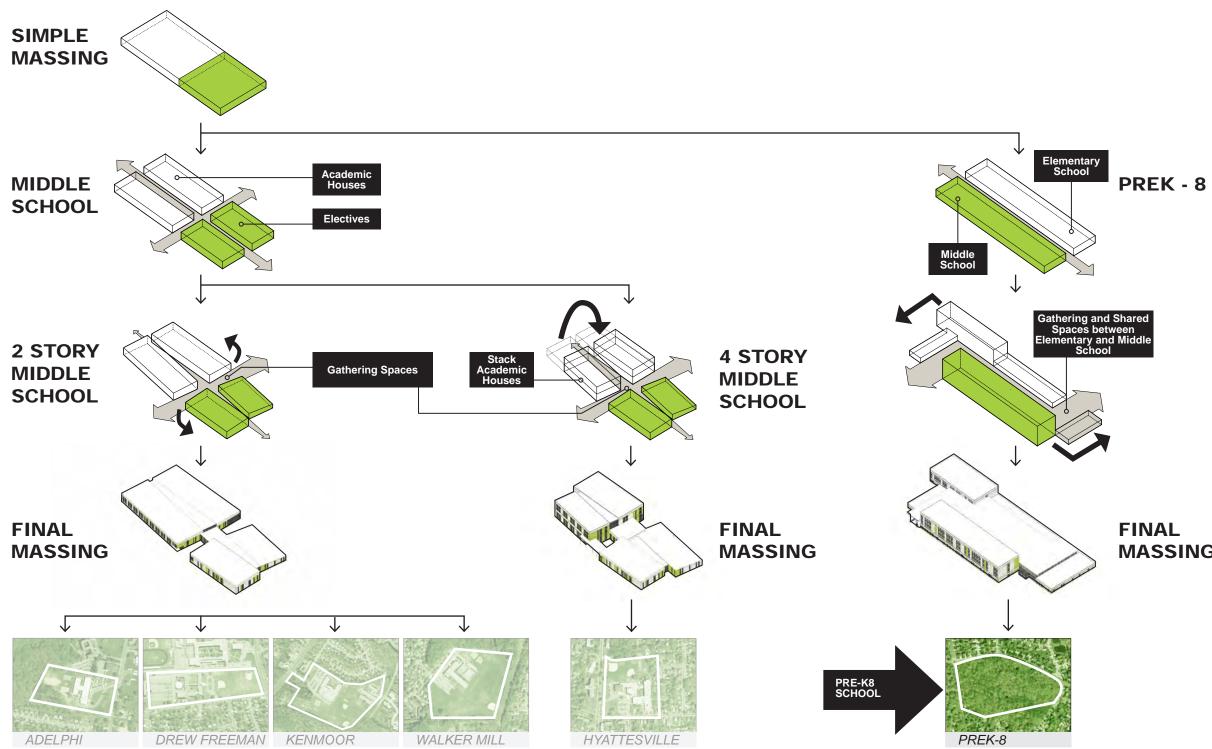
CHALLENGE

The often quoted "out of complexity, find simplicity" saying comes to mind when we think about designing school facilities. While schools may appear to be easy kinds of buildings to design, the reality is that they are a building typology which has inherent complexities and, at times, competing programs and needs. There are not many building typologies which offer rooms dedicated to such a wide ranges of age groups, feed thousands of people each day, include gymnasiums and fitness areas, contain spaces for large group presentation, explore the arts, music, poetry, science, wellness, and more -- all under one roof. What's more, school facilities breathe in and breathe many occupants each morning and afternoon -- almost all at the same time. At face value, schools are anything but simple.

SOLUTION

We believe there is an elegance in simplicity, achieved through a deep understanding of educational needs, construction technologies, and operational practices. The following pages illustrate a story about creating simplicity through understanding the middle school model, cohorts, and freedom for 'tweeners' with bound-aries, and likewise understanding the benefits of the PreK through 8 model -- capitalizing on the benefits of combined age groups, multi-age communities, and when and how to separate learners of different ages. Simplicity is forged by keeping the needs of the learners -- the need to make community, understand their building, feel safe, and delight in learning -- at the forefront of our thinking.





MASSING OVERVIEW 7

MASSING



8 MASSING CONCEPTS

COMPACT (AND YES SIMPLE)

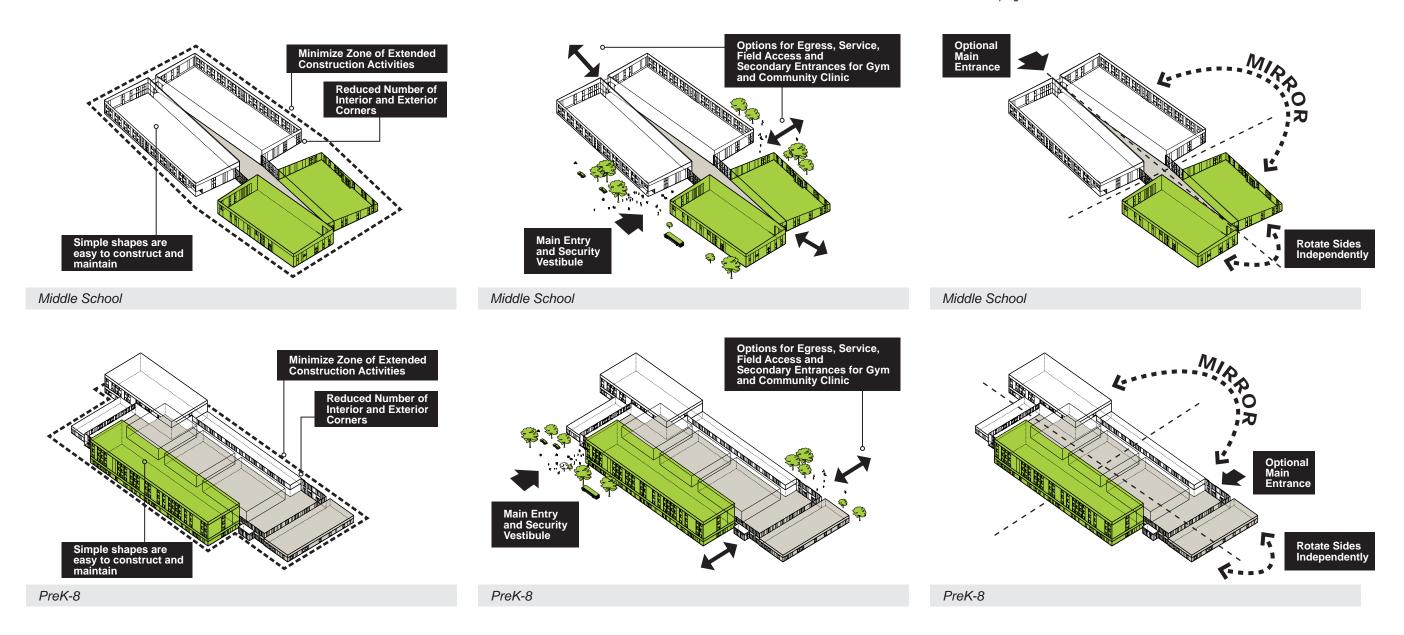
A straightforward design with minimal "ins and outs" and exterior nooks and crannies makes everything easier from detailing flashings, putting the building together, and future maintenance. A tight footprint conserves energy by minimizing wall and roof area and reduces the extent of heavy construction activities on your site.

MULTIPLE CIRCULATION OPTIONS

The simple, legible building shape clearly marks the entrance zones. A single main entrance greets students, staff, and visitors alike, while secondary circulation options serve for access to outdoor learning, fields, service, and after-hours entrances. Options mean operational flexibility and adaptability.

GO AHEAD, MAKE IT A PROTOTYPE

Any plan can be rotated on different sites, but creating a design in which various sides of the building can be flipped independently -- like a Rubick's Cube -- requires some forethought. The building can be rearranged as needed to accommodate different site conditions, field locations, and approaches onto the site. Also, because there are clearly delineated zones (left/right, front/back) the plan can be adjusted to step up or down as needed on sloping sites.



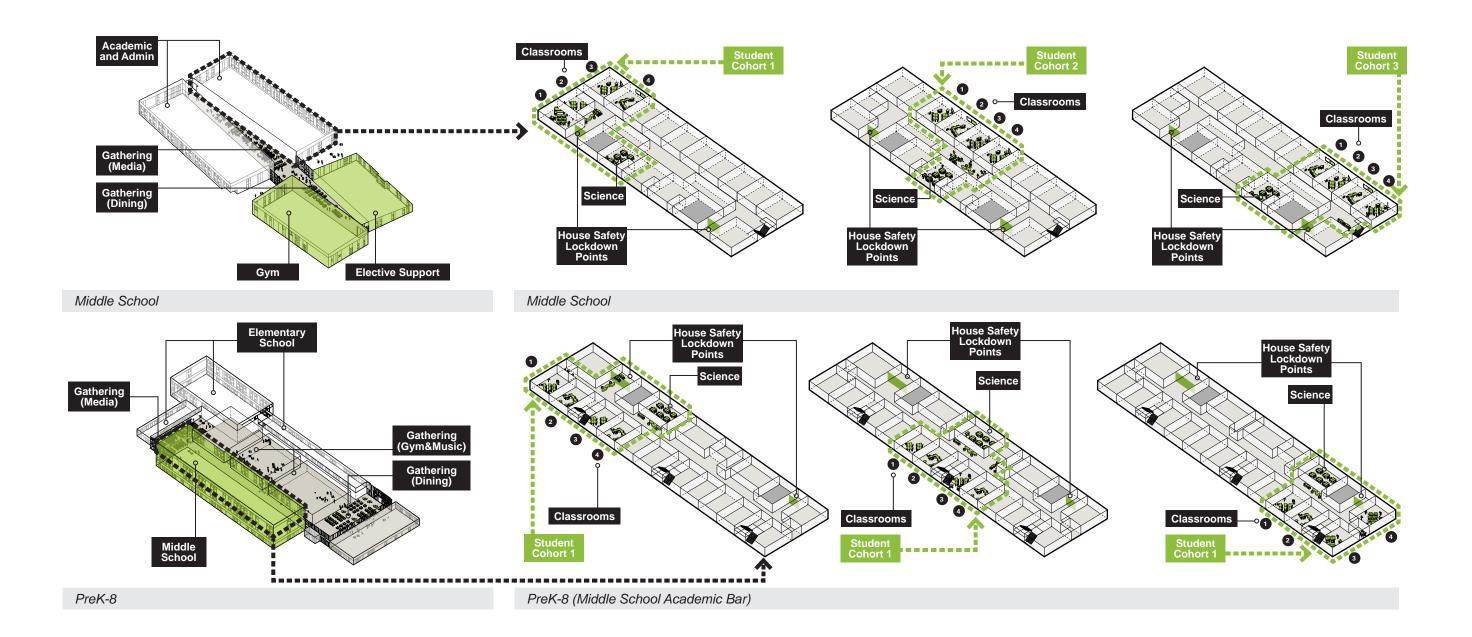


CLEAR ACADEMIC & GATHERING ZONES

Simple plans provide a clear, reassuring experience for the students and staff. The logic of the building should be easily understood .("Classrooms are over here, gym and other stuff over there!".) School can be confusing at times, but the building shouldn't be.

TYPICAL MIDDLE SCHOOL HOUSES

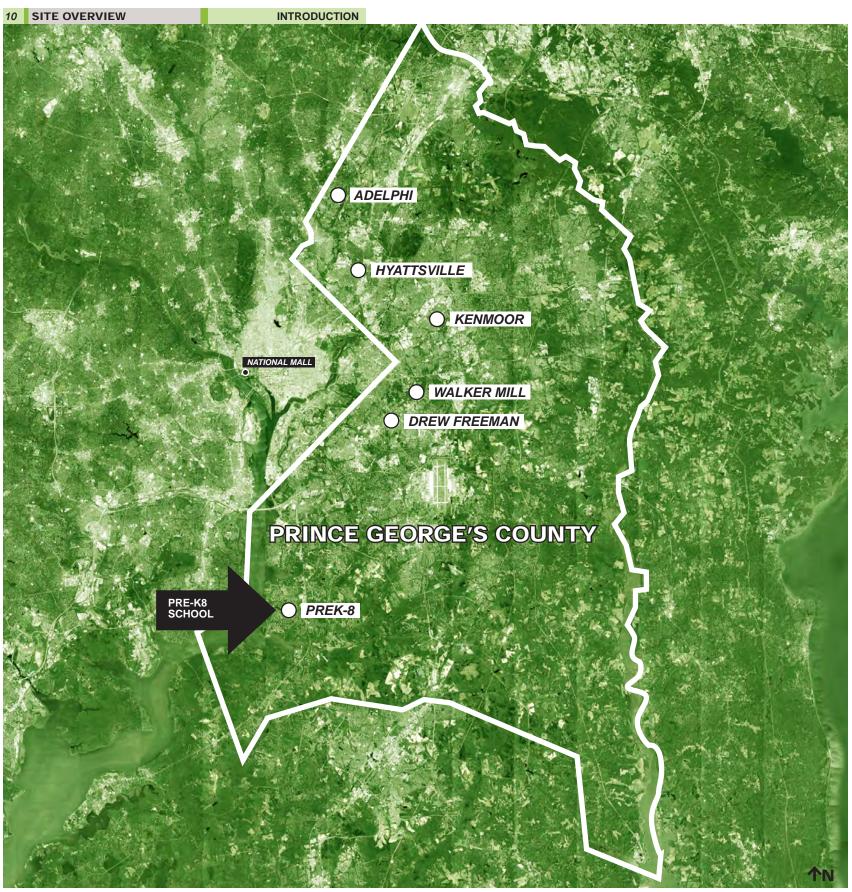
Middle school academic areas (Houses) are designed with "cohorts" in mind and with flexibility to adapt and change as needed. A typical academic floor holds 3 cohorts, which could all be of the same grade level, or of multiple grade levels (i.e. 6,7, and 8th grades). Each House has multiple areas for small and medium sized group collaboration and lock-down points at entrances from more public parts of the building. The elementary areas of the PreK-8 building also have collaboration areas and lock down points.



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ICTION





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OVERVIEW OF PROJECT SITES

The sites for the projects vary, some are more urban like Drew Freeman, while others are more undeveloped (like the new PreK-8 lot). For the sake of educational equity, identity, economy, and constructability, our challenge was to design buildings and site strategies which applied to all sites, while being adaptable and flexible as needed.



ADELPHI

DREW FREEMAN



WALKER MILL





KENMOOR



HYATTSVILLE

PREK-8

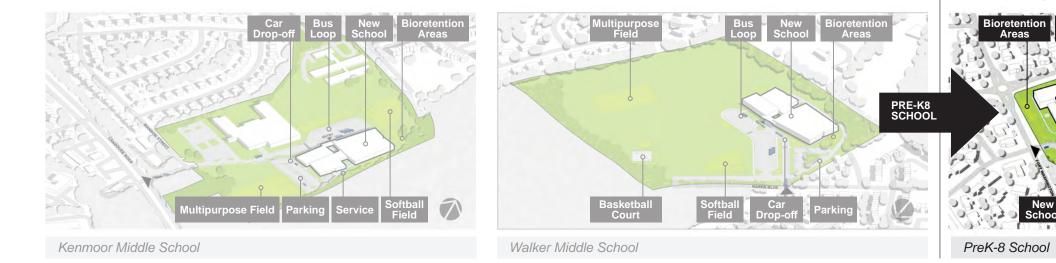




2 STORY MIDDLE SCHOOL

Our proposal includes four "2-Story" Middle Schools located at the Adelphi, Drew Freeman, Kenmoor, and Walker Mill sites. The 2-Story Middle School floor plans shown in this book represent the floor plans at Adelphi and Kenmoor. The Drew Freeman and Walker Mill floor plans are exactly the same, just mirrored left to right. See also the 'Prototype Adaptations' in the next chapter about the 2 story middle school design.





SITE OVERVIEW 11

4 STORY MIDDLE SCHOOL Because the Hyattsville site is smaller, the Middle School design has been adapted so that the academic areas are 4 stories and the overall footprint (not square footage!) is tighter. It has all of

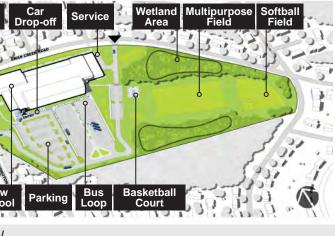
the benefits of the 2-story Middle School, just taller.



Hyattsville Middle School

PREK-8 SCHOOL

The Pre-K school's compact footprint minimizes site disturbance, avoids wetlands, limits deforestation, and maximizes room for play and fitness.





SAFETY AND SECURITY STARTS AT THE SITE LEVEL

The site designs include best practices for overall layout and incorporate lessons learned from the design team on other school projects. A touchstone for our design is also a set of principles which inform the Crime Prevention Through Environmental Design (CPTED) approach. The CPTED method seeks to combine good design with an understanding of human behavior to create safe places which feel comfortable and easy to own and maintain.

CPTED PRINCIPLES:

NATURAL SURVEILLANCE

The sites are designed to provide the opportunity for lots of eyes and ears passively observing the exteriors. Many administrative offices and classrooms face open spaces, creating an extensive network of surveillance of school grounds. Passive observation can help spot potential issues and keep watch over students who are outside.



MAINTENANCE

Buildings and grounds that are well cared for create a sense of community pride and relay a message that "this place is special". This sense of place deters vandalism, loitering, and other unwanted activity. The designs include buildings and site features which are simple and easy to maintain -- ensuring that the community can stay proud of their school.



NATURAL ACCESS CONTROL

Our site designs incorporate intuitive, natural circulation patterns to avoid confusion and get teachers, students, and visitors to their destinations comfortably and efficiently. Building entrances are made clear, first through the architecture, then with supplemental signage as needed. When people are off the beaten path or otherwise "not where should be", they can easily be observed and attended to.



TERRITORIAL REINFORCEMENT

Sometimes it's important to clarify the boundaries between areas for the general public and school properties. Strategic use of fences, plantings, and even sloping areas can help reinforce the edge of school zones while avoiding an overly institutional image which lacks curb appeal.

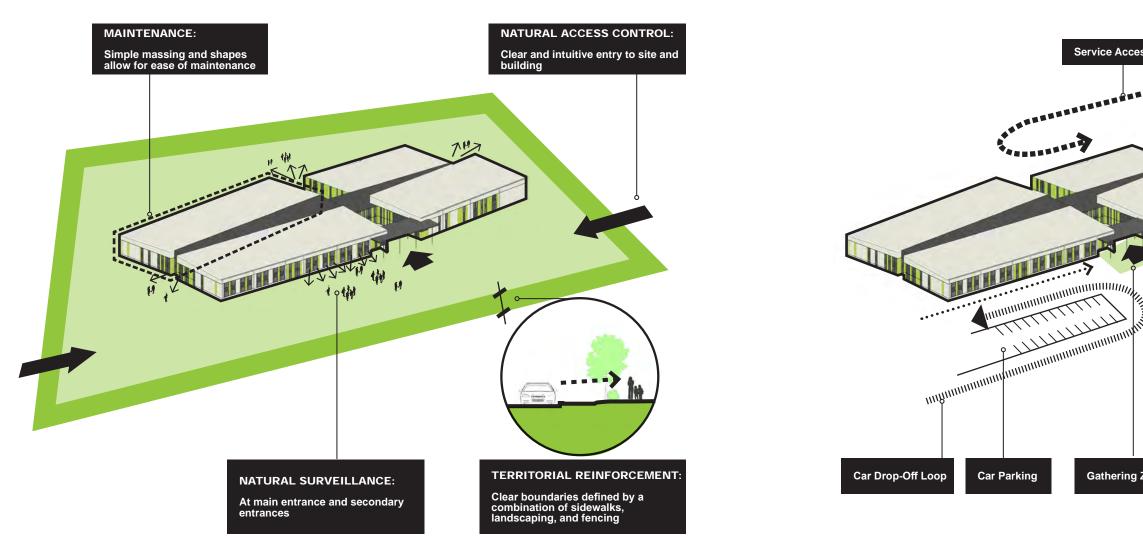




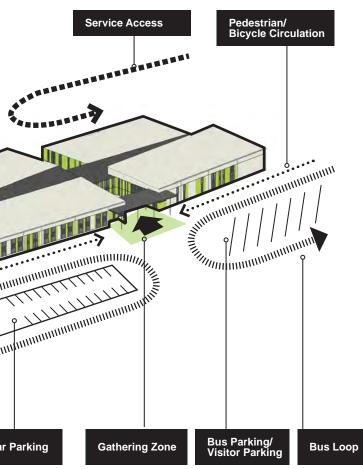


SITE DESIGN STRATEGY DIAGRAM

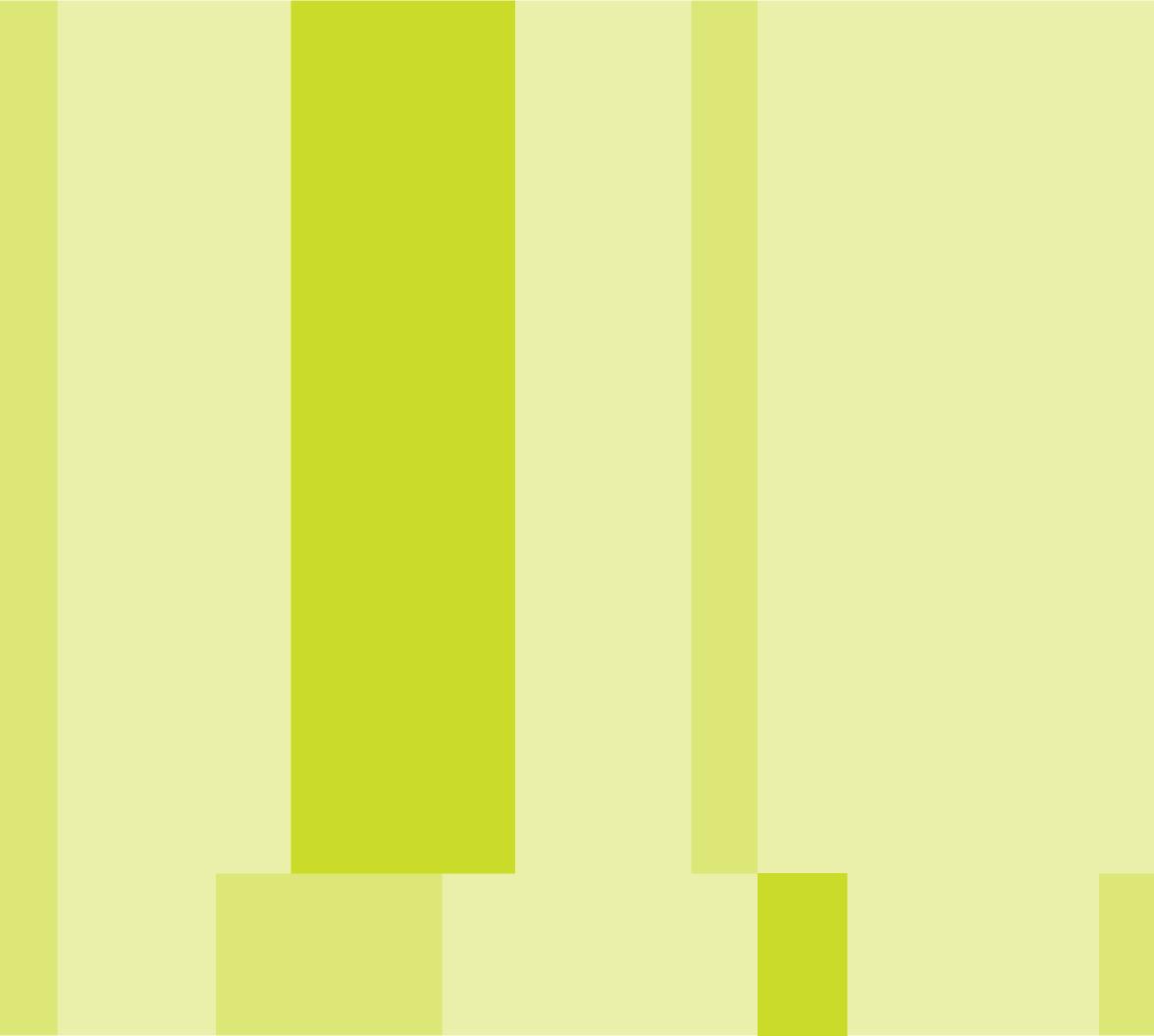
SITE CIRCULATION STRATEGY DIAGRAM

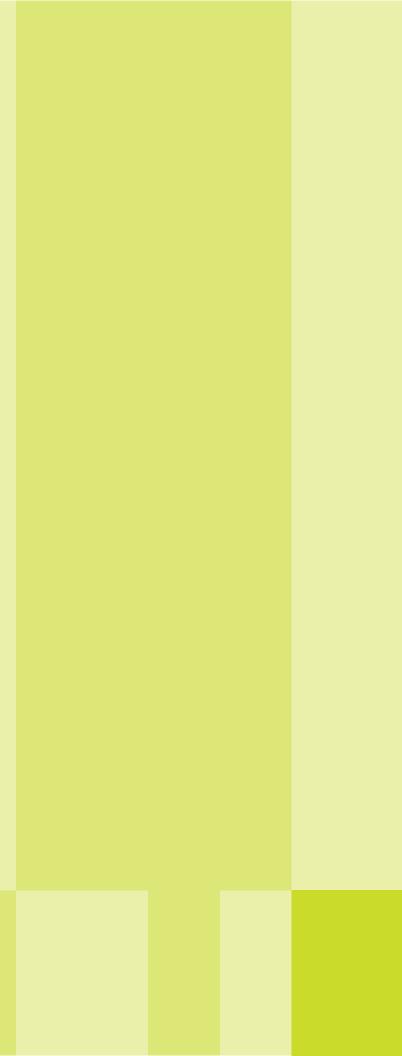


INTRODUCTION SITE SAFETY AND SECURITY STRATEGIES 13









PREK - 8 SCHOOL

Exterior Overview Design Concept Floor Plan and Features Acoustic Considerations Safety and Security Design Building as a Teaching Tool Interior Design Interior Finish Palette and Color Scheme Furniture Types





SOUTHERN AREA PREK-8 SCHOOL DESIGN





Metal Panels

Metal Panels between glass

Metal Canopy

Brick Base



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COLOR OPTIONS

There are many color options for each school. The images below illustrate just a few of the possibilities.









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EXTERIOR OVERVIEW 17





DESIGN CONCEPT

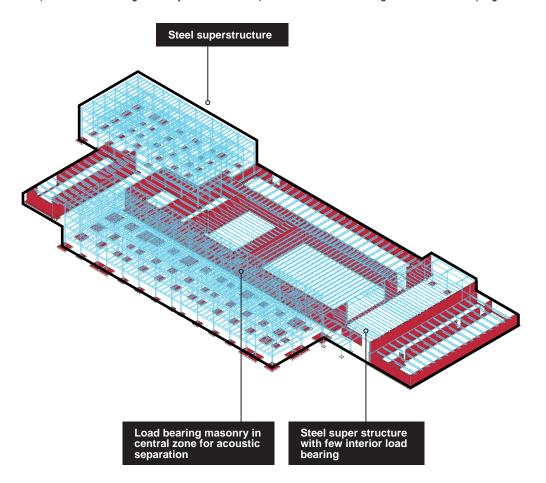
The following diagrams explain in more detail the basic design concept of the PreK-8 Building. As with the middle school designs previously discussed, simplicity remains the overarching principle for the PreK-8 school and applies to wide ranging aspects of design strategies -- from the way the building is structured, to the relationship of the elementary and middle school populations, to how students share space in a way that brings a wide range of ages together to create a strong community of learning. The simple solution (in which complexities are resolved) is often the best!

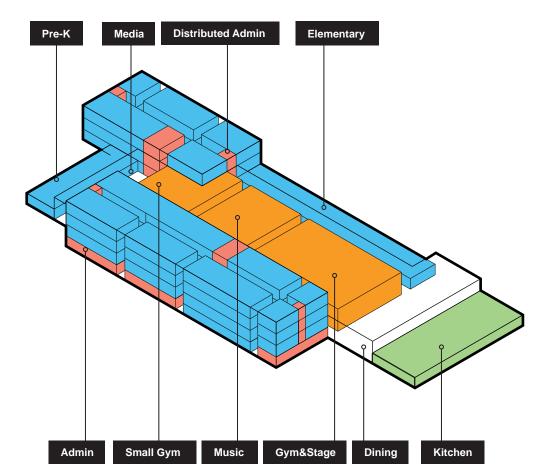
STRUCTURE

Core academic areas are built with steel beams and columns to reduce load bearing walls. This allows for future flexibility as programs change and adapt, because interior walls between rooms can be changed easily. Gathering spaces which are not likely to change much (media, dining, gymnasiums, and music rooms) utilize load bearing masonry walls which help isolate sound emanating from these active programs.

PROGRAM PLACEMENT

The Elementary School and the Middle school are on separate sides of the building. The shared program areas are centrally located for easy access from both sides and as a way to ensure that all grade levels can "see and be seen". Programs are placed with an intent of leveraging the benefits of multiple age groups under one roof.





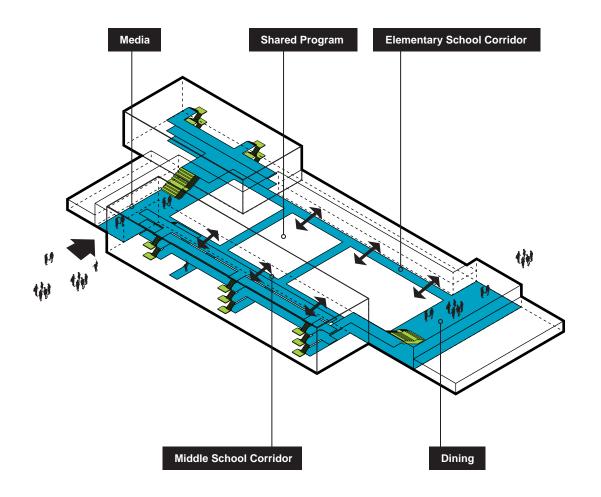


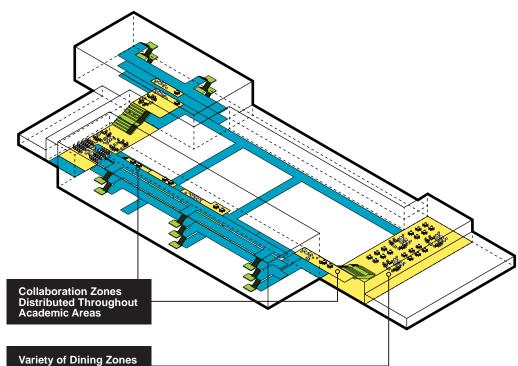
CIRCULATION

Circulation is consolidated to single corridors within each academic area. This makes wayfinding simple and intuitive. Within the central gathering zones, there are separate circulation zones for the Middle School students and the Elementary School students.

COLLABORATION

The design incorporates collaborative areas in gathering spaces and throughout academic spaces. Visibility between classrooms and collaboration areas ensure that the spaces are observable and functional. Whether small, medium, or large groups, collaborative zones are never far away.





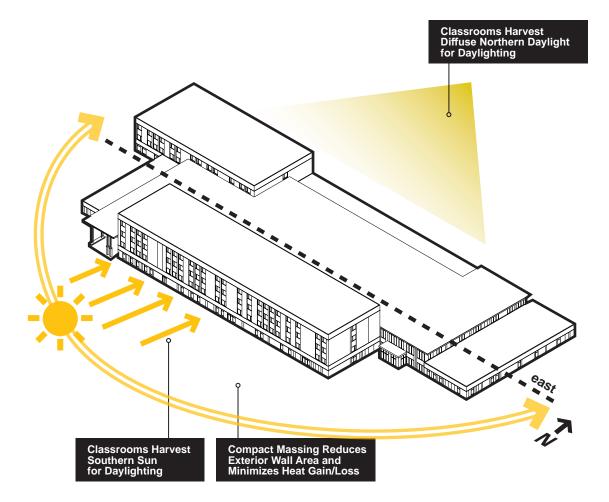
Variety of Dining Zones Creates Pockets for Small to Large Collaborative Groupd

DESIGN CONCEPT 19



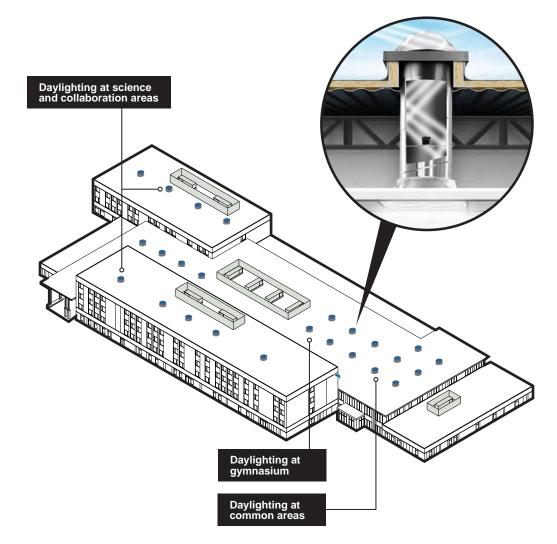
ORIENTATION AND SUSTAINABILITY

Sustainability starts with the most basic decisions about how we engage with the environment and conserve the resources we have available. The compact shape minimizes extraneous wall area through which conditioned air can leak, or humid air infiltrates the building. The compact building also conserves site area for natural and outdoor learning. The PreK-8 School is oriented with its long axis in the east-west direction. This allows the majority of classrooms to benefit from southern and northern daylighting.



DAY LIGHTING FROM THE ROOF

The designs feature opportunities to bring daylight from the roof level by using tubular skylights.

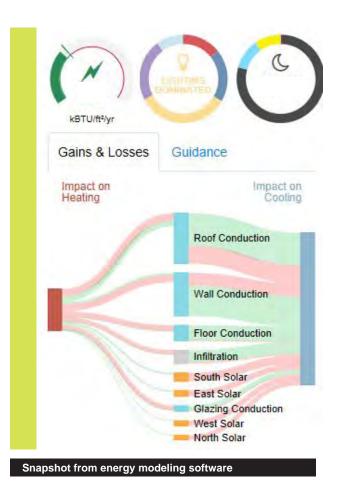


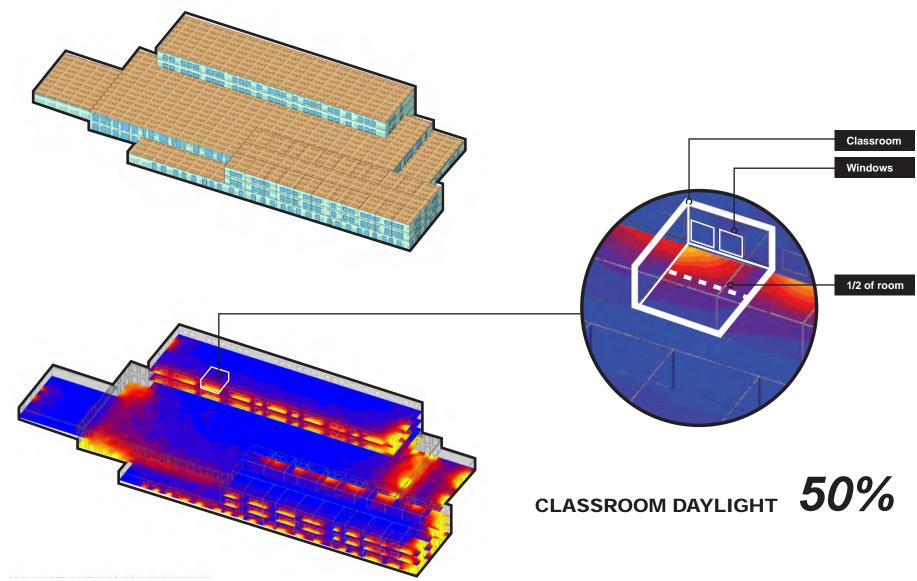




PRELIMINARY ENERGY AND **DAYLIGHTING ANALYSIS**

Preliminary energy and daylighting computer simulation modeling are proof of concept. Compared to typical school buildings, the energy consumption of the design is drastically reduced and exceeds code requirements. Additionally, the windows are distributed to spread daylight deep into the classrooms.



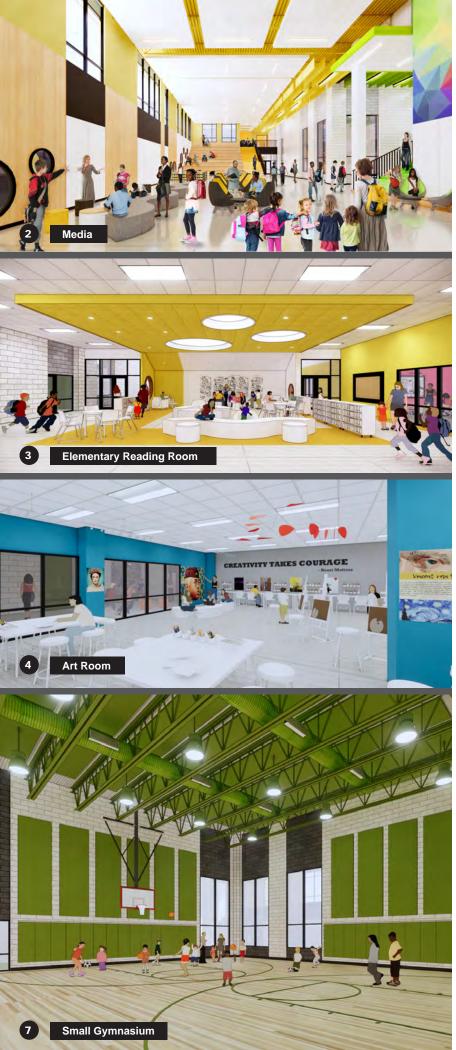


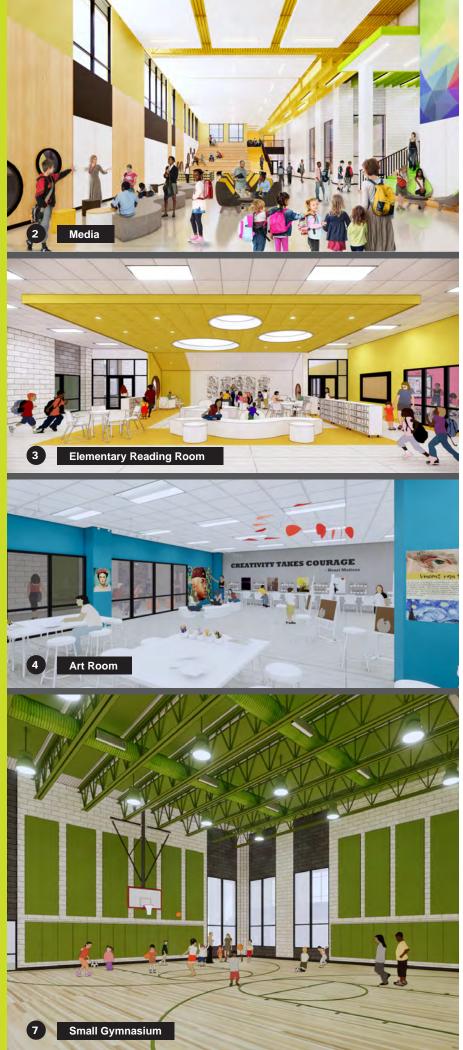
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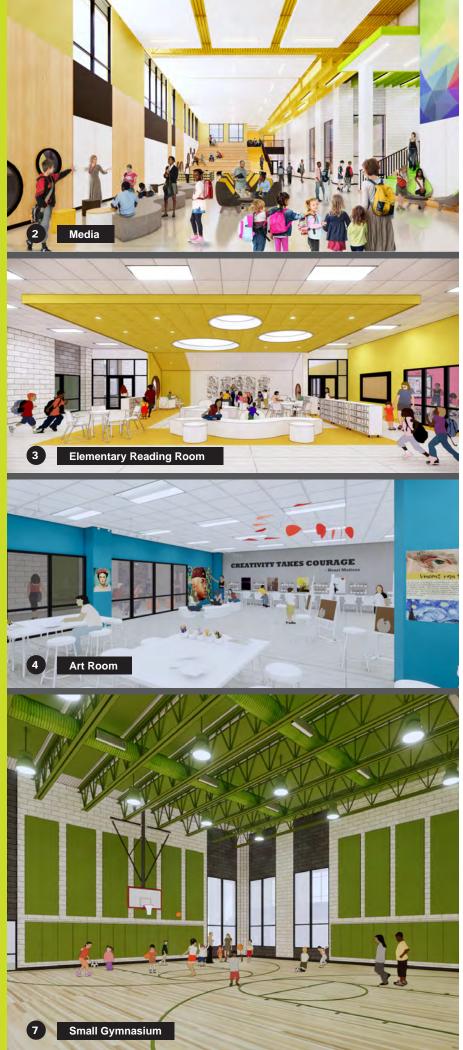
DESIGN CONCEPT 21

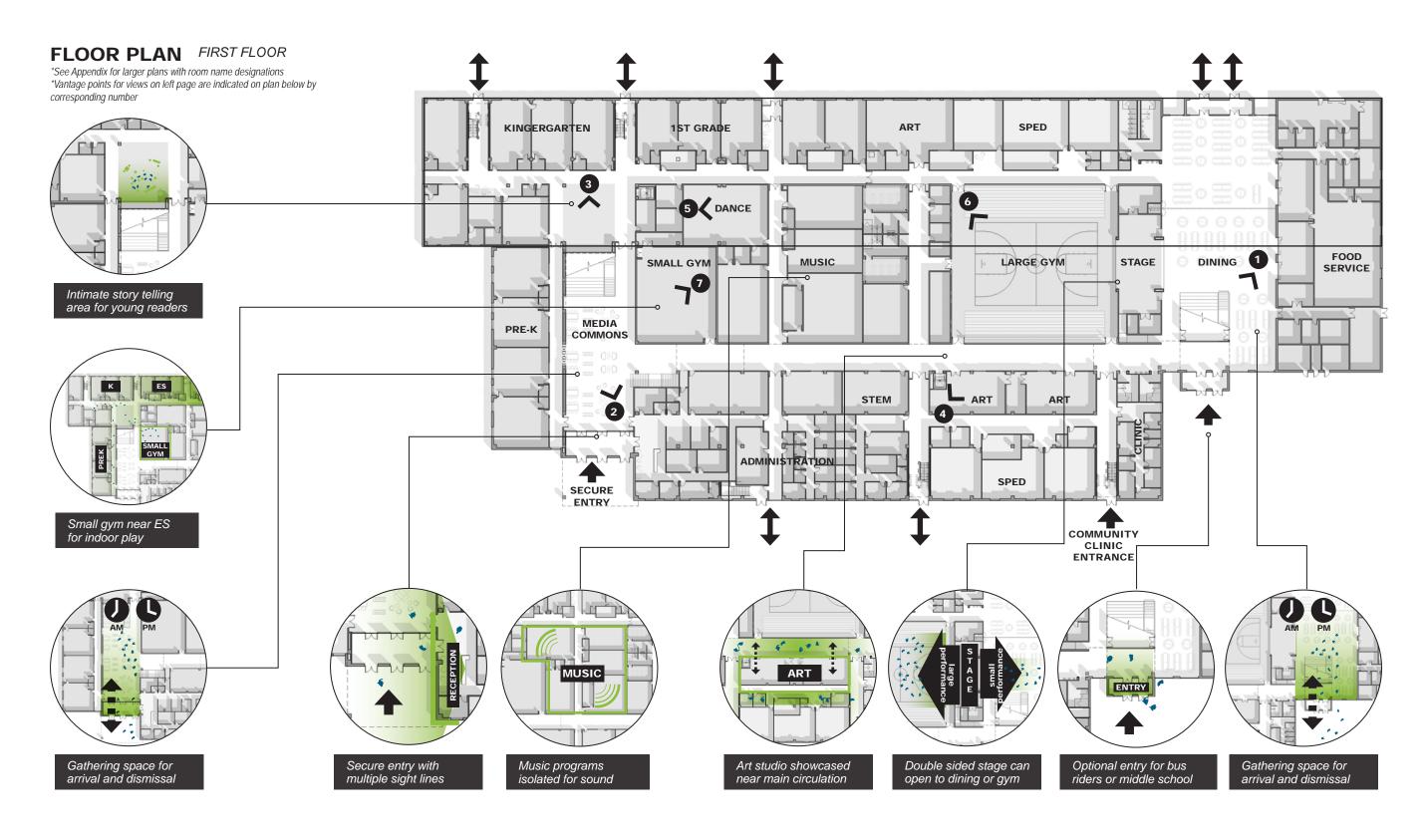












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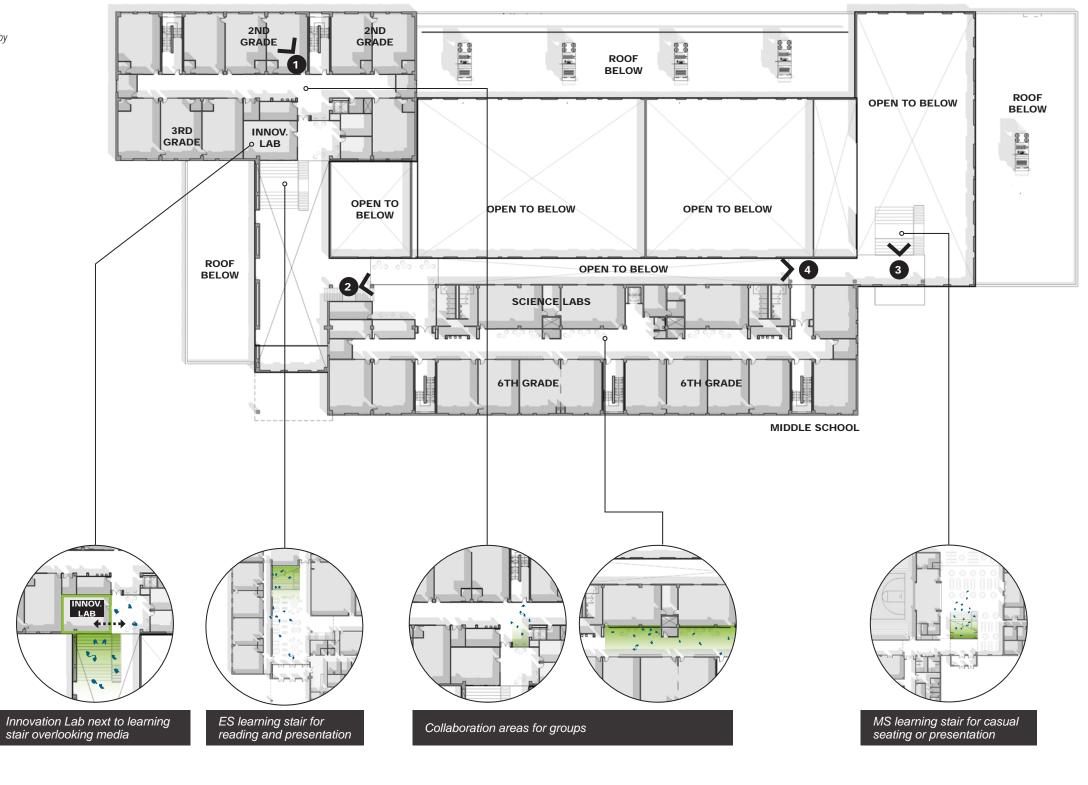




FLOOR PLAN SECOND FLOOR

*See Appendix for larger plans with room name designations *Vantage points for views on left page are indicated on plan below by corresponding number

ELEMENTARY SCHOOL







FLOOR PLAN

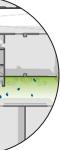
*See Appendix for larger plans with room name designations *Vantage points for views on left page are indicated on plan below by corresponding number



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FLOOR PLAN AND FEATURES 27





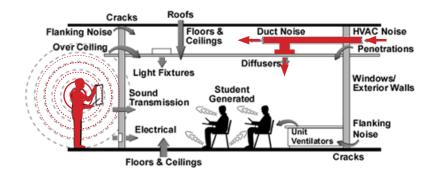


28 ACOUSTIC CONSIDERATION

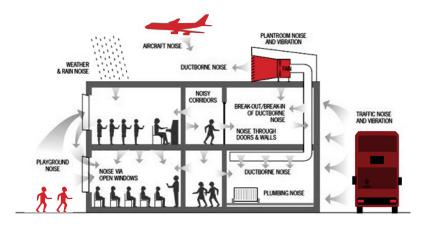
ACOUSTIC CONSIDERATIONS

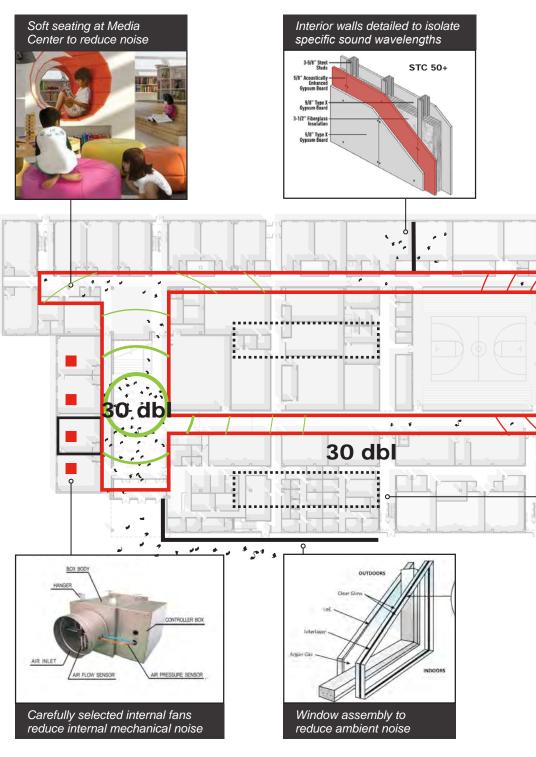
Unwanted and intrusive noise can be distracting at best and debilitating for others at worst. The design incorporates best practices for noise reduction, absorption, and acoustical design. From exterior walls and windows that reduce ambient (external noise) to low-fan noise interior equipment selection, to high Sound Transmission Coefficient rating interior walls, and even the building geometries -- the facility is designed with occupant comfort in mind.

INTERNAL NOISE SOURCES

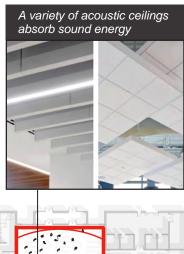


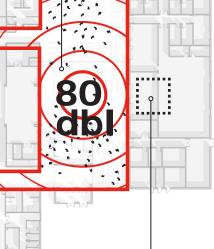
EXTERNAL NOISE SOURCES





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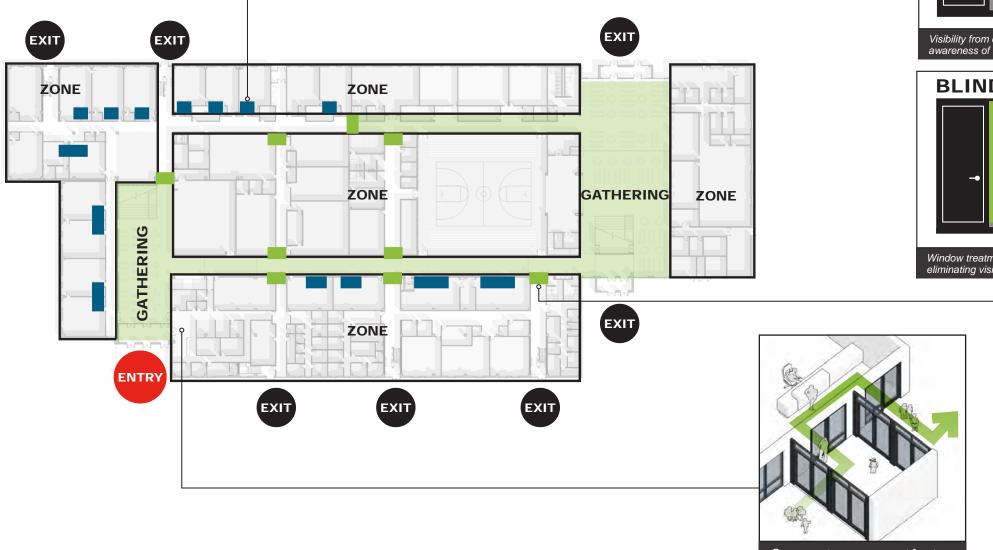


Isolation of roof top unit vibration

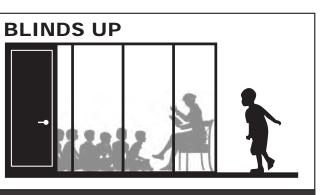


SECURITY CONSIDERATIONS

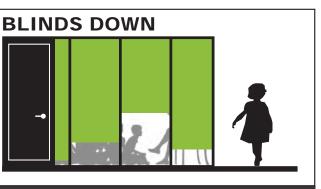
The building has multiple layers of safety and security. The secure vestibule requires visitors to check in with the front office before being granted access to the building. The academic areas can be isolated from more public areas by closing doors at entrances to each side. Under normal school conditions, the doors remain in an held-open position for easy circulation and an inviting entrance into each academic area. However, doors to academic areas can be locked should the need arise, wthout compromising exiting routes. Classroom areas with glazing into collaboration areas are equipped with blinds should the occupants feel the need to obstruct the view into the room.



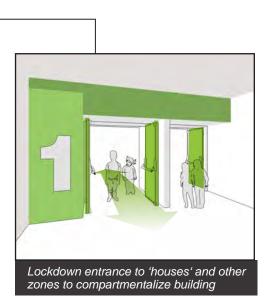
Secure entry sequence at front office



Visibility from classroom for view into collaboration areas and for awareness of events outside of classroom



Window treatments help distraction and privacy needs, as well as eliminating visibility into room during lockdown





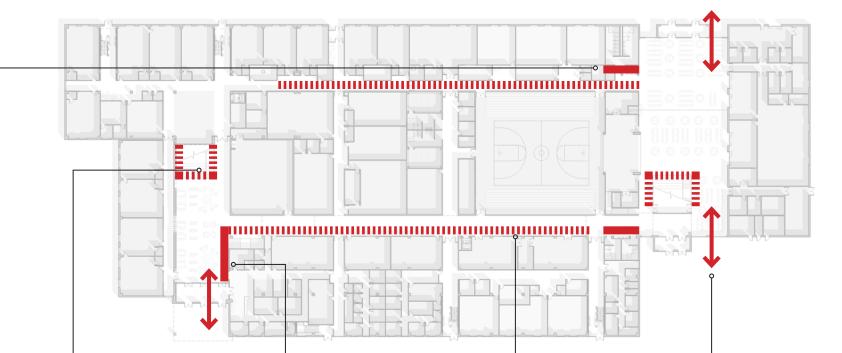
BUILDING AS A TEACHING TOOL

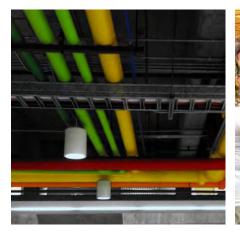
Developing minds are naturally curious. Sometimes a little unprompted explanation can spark curiosity. For example, sharing information about building sustainability features can make students and staff aware and excited about learning more. At other times, simply allowing things to be discovered -- whether learning activities or building systems -- can pique imaginations. . Below are a FEW of the many instances where the building inspires wonder and encourages exploration of natural interests.

LEARNING ON DISPLAY

Students are naturally excited by seeing what they have to look forward to, either in the next period or in the upcoming years.







VISIBLE SYSTEMS

Where possible, electrical, mechanical, IT systems can be exposed to show the building's "nervous system"



ENERGY DASHBOARD Building performance can be monitored for everyone to see



BIOPHILIA

plants, and flowers



BEAUTY/ LOCAL CULTURE Colors and materials inspired by local trees, Opportunities for murals depicting local history and culture



ENVIRONMENTAL GRAPHIC

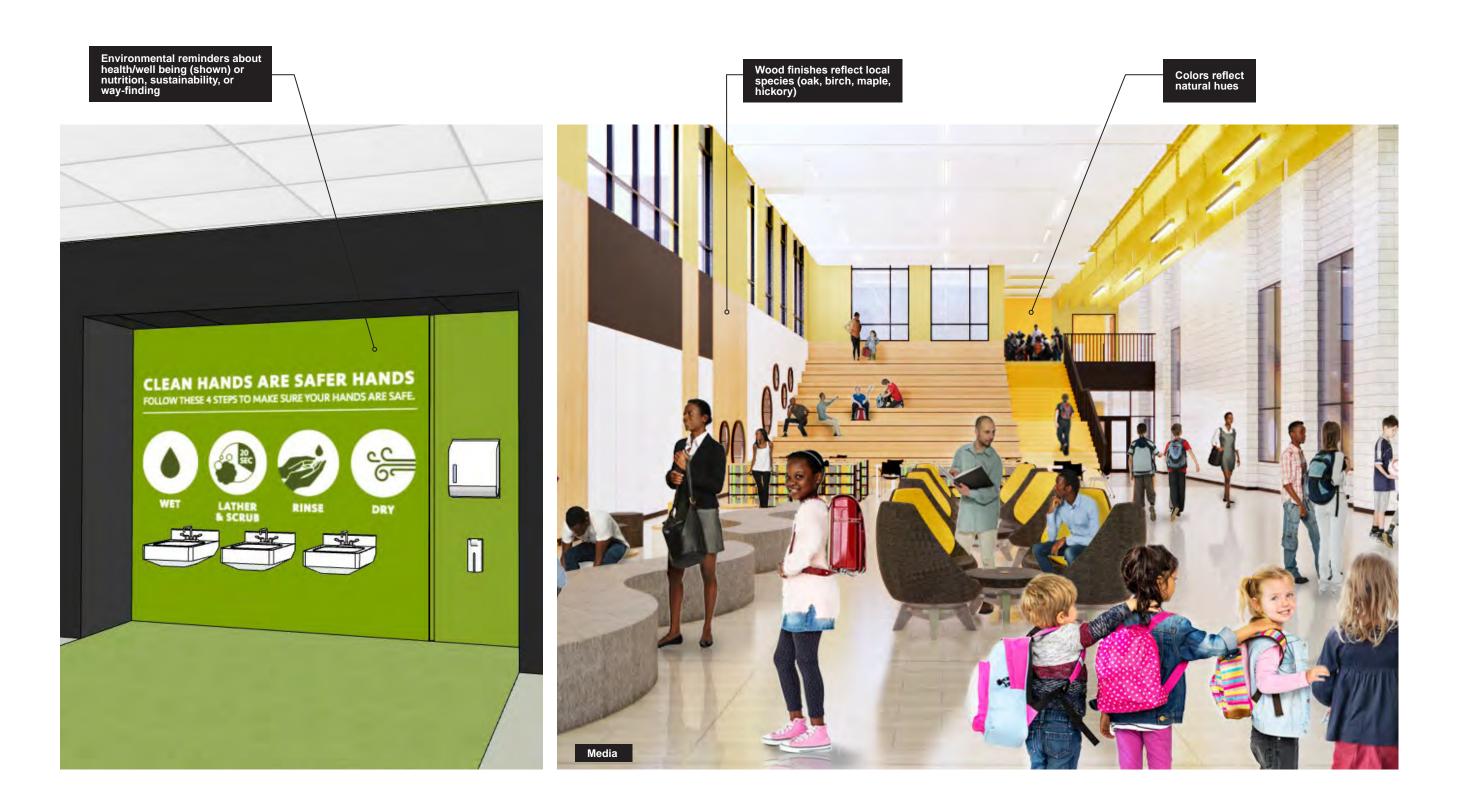
Information distributed throughout the building can share information about sustainability or health and wellness.

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CONNECTIONS TO NATURE Take the learning outside





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INTERIOR CONCEPT

32 INTERIOR DESIGN

The interior architecture is integral to the exterior and overall architectural approach. Inspired by the local Swan Creek, the concept draws from the theme of water flowing between two shores. Referencing local points of interest helps to create a unique sense of place and a memorable experience tied to the landscape.

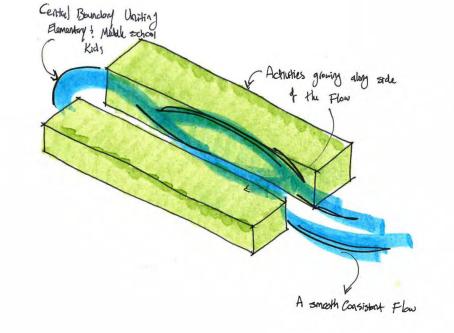


RIVER AND SHORE

Swan Creek is flanked by residential neighborhoods until it flows into the Potomac. Fort Washington Park is located at the confluence of the river and the creek and provides a reference for reflections about history and the many events of the peoples who have lived in the regions over time.

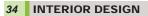
CONCEPT SKETCH

The interiors conceptualizes the two schools, the Middle School and the Elementary School, as two shores on either sides of a river or creek. The water metaphorically becomes the shared circulation area among islands or rocks, which represent the centralized gathering spaces.









SOUTHERN AREA PREK-8 SCHOOL DESIGN

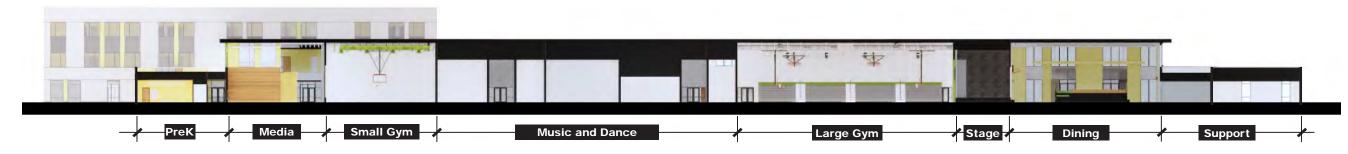
SECTIONS

Sections through the building help illustrate the idea of two "shores" and the shared areas in "water" between them. Each shore has an identifying accent color, and the common spaces in between are taller to accommodate sports, music, and to allow clerestory (high) windows to flood the dining and media spaces with natural light.

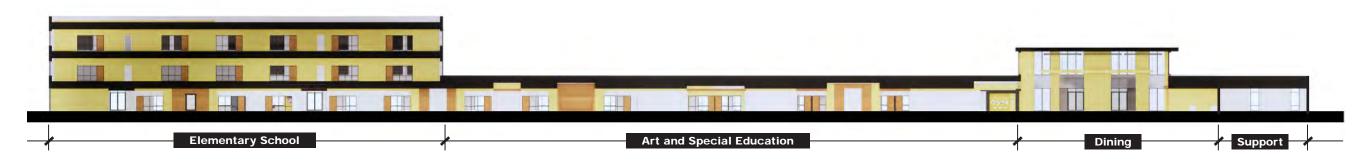
SECTIONS A-A



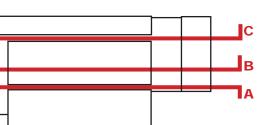
SECTIONS B-B



SECTIONS C-C



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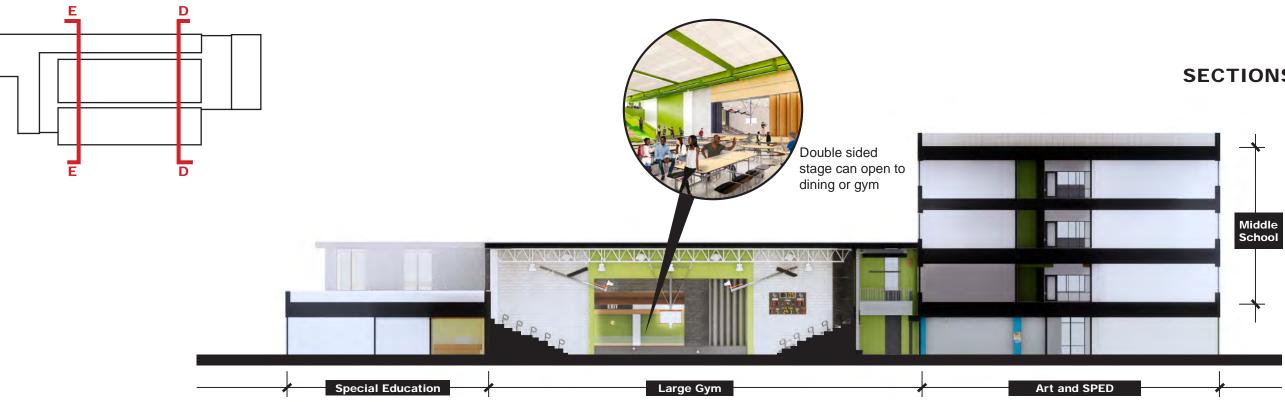


С

в

A







Prince George's County Education and Community Partners TECHNICAL PROPOSAL - PGCPS ACF Package 1 DBFM Response to RFP | RFP No. DCP19-24A

INTERIOR DESIGN 35

SECTIONS D-D

SECTIONS E-E



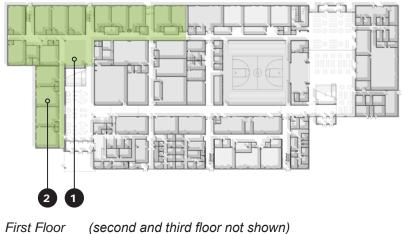
36 INTERIOR DESIGN



ELEMENTARY SCHOOL 'SHORE'

The interiors of the elementary "shore" of the PreK-8 school are characterized by the use of an identifying accent color (shown yellow in this book, but there are many options) combined with the use of shapes and warm materials for visual and tactile interest. There is an emphasis on visual connectivity between learning spaces so students can be inspired by learning around them.



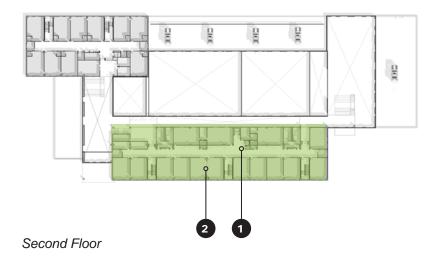


(second and third floor not shown)

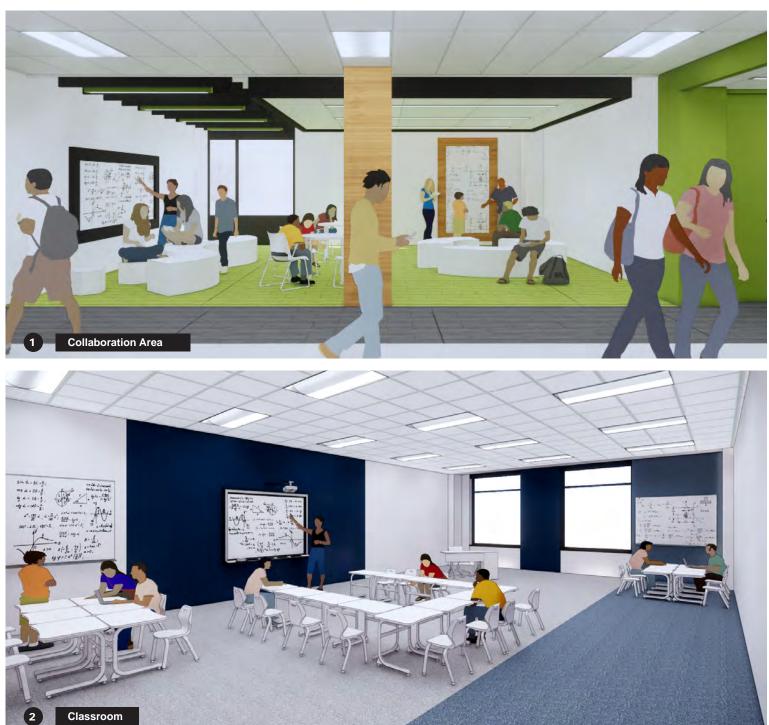


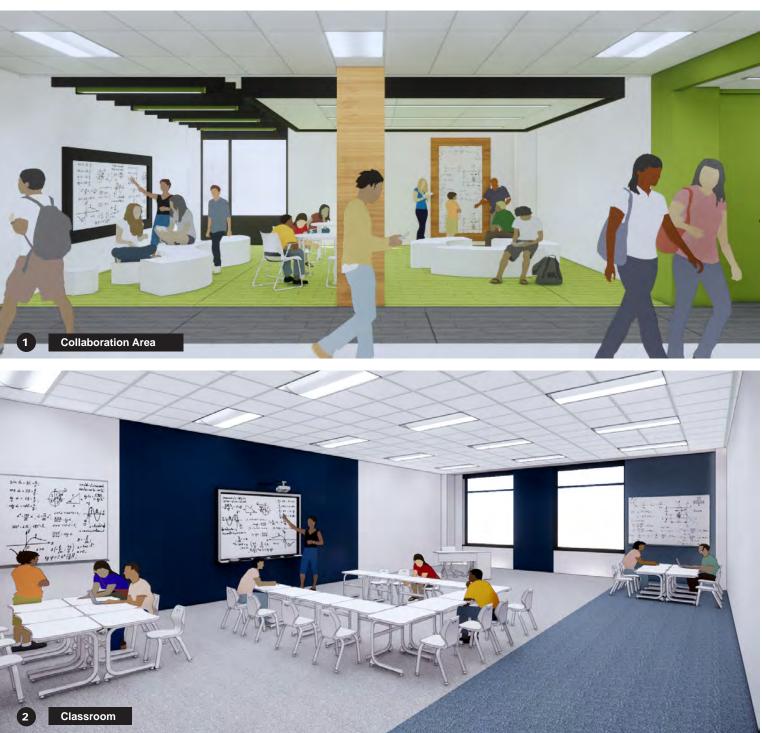
MIDDLE SCHOOL 'SHORE'

The Middle School side has it's own identity. Classrooms are flanked with many collaboration areas for small and medium size groups. There is opportunity to explore expanding freedoms and new modes of learning, all within a clearly defined area.



T 2 1 Third Floor







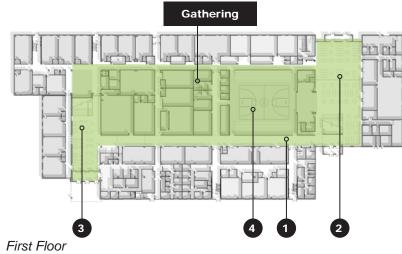
38 INTERIOR DESIGN



GATHERING

Centralized gathering spaces combine the overarching accent color (green is shown, but options are many) with the warmth of natural materials inspired by local species, along with neutral tones.

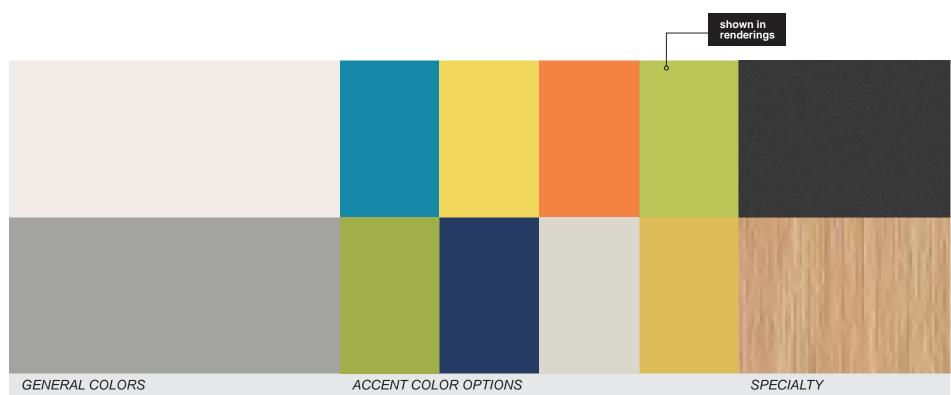


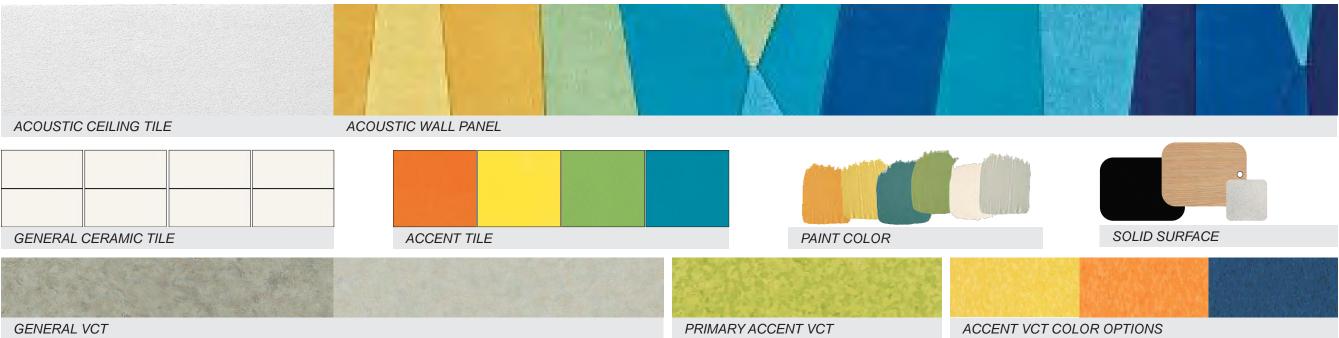




INTERIOR PALETTE

The interior palette combines neutral and natural tones with a vibrant ascent color (also inspired by nature). The interior views included herein show green and yellow ascent, but other options are available.





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INTERIOR DESIGN 39



40 FURNITURE

FURNITURE

We understanding that furniture and technology needs are constantly evolving, so we have taken an approach to allow for most flexibility to accommodate future uses. Regarding specific manufacturers, we have selected Kreuger International as our primary basis-of-design for the majority of the spaces throughout the building. Kreuger International manufactures furniture that can be used in specialty areas like dining, library, art rooms, and commons areas in addition to classroom, administrative, and general-purpose spaces. We will continue to work with you to select the exact pieces that meet your needs, are flexible, and stay within your budget.

Media Center

In addition to bookshelves and tables, the media center will feature options for flexible collaborative furniture and comfy pieces in which to curl up and read a good book.



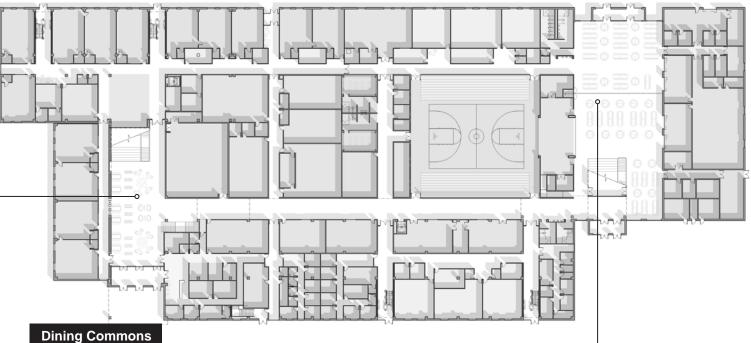












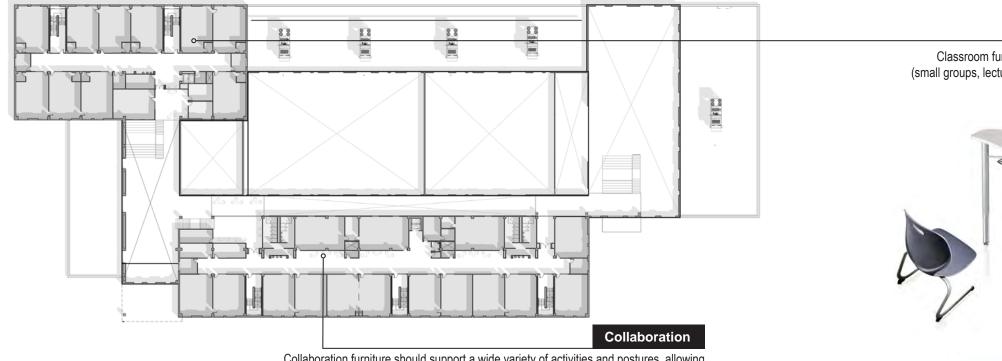
Dining furniture should be easy to use and maintain, yet provide a variety of seating types for comfort, visual interest, and even collaboration. Every space can be a learning space.











Collaboration furniture should support a wide variety of activities and postures, allowing students to relax and do their best thinking.







Classroom

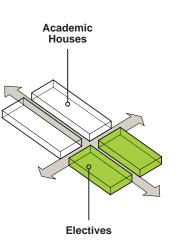
Classroom furniture should be easy to move into a wide variety of teaching modalities (small groups, lectures, discussions, individual, etc.). Furniture pieces are selected for their adaptability, durability, ergonomic comfort, and healthy materials.



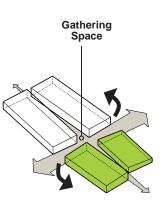




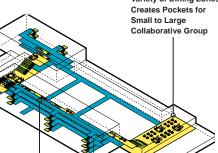
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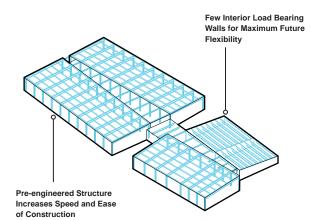






1



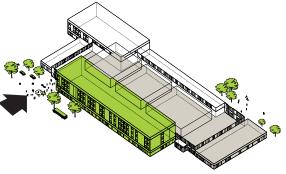




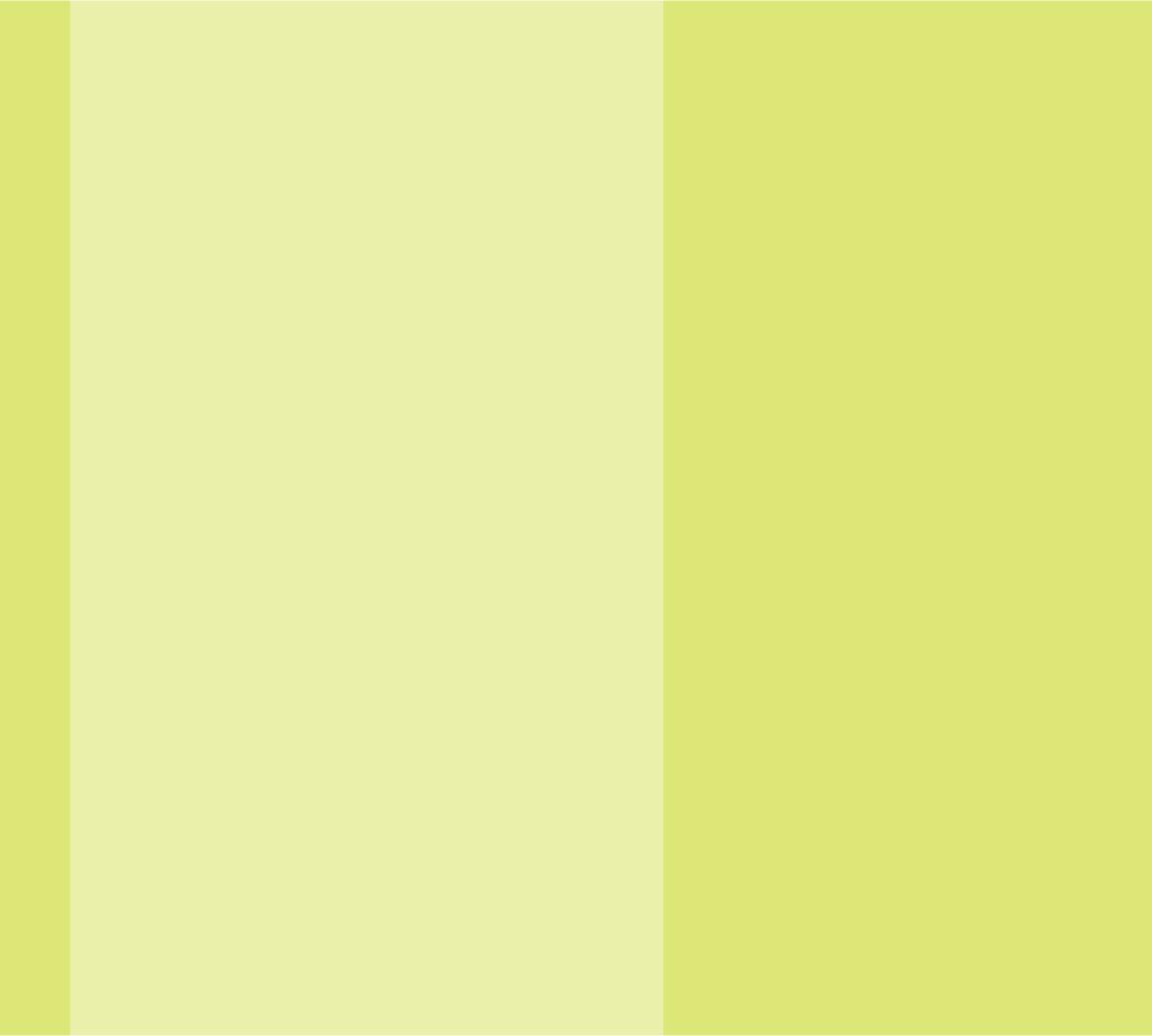




26-2





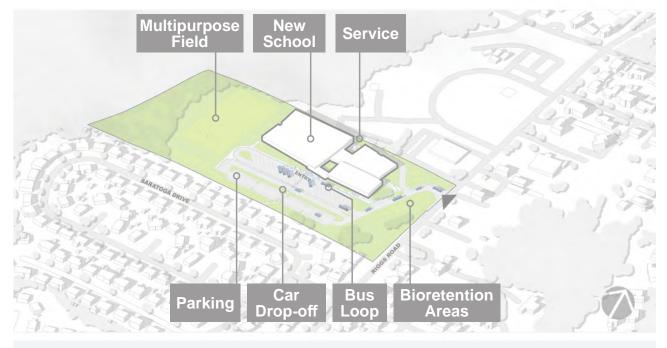




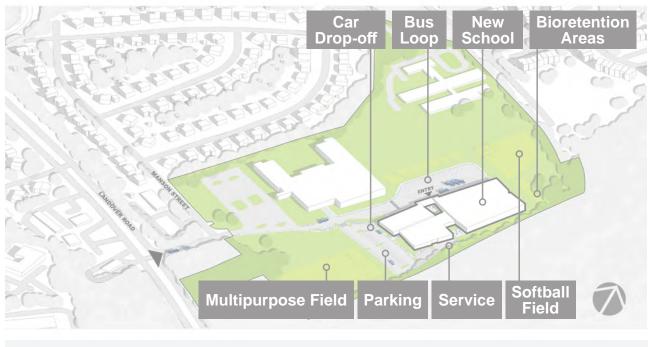
APPENDIX SITE DESIGN

APPENDIX

2 STORY MIDDLE SCHOOL

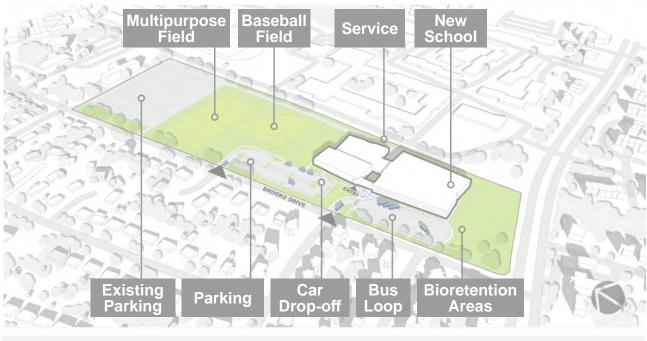


Adelphi Middle School

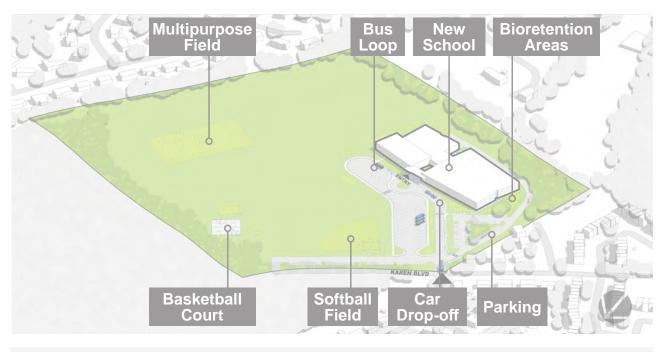


Kenmoor Middle School

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Drew-Freeman Middle School

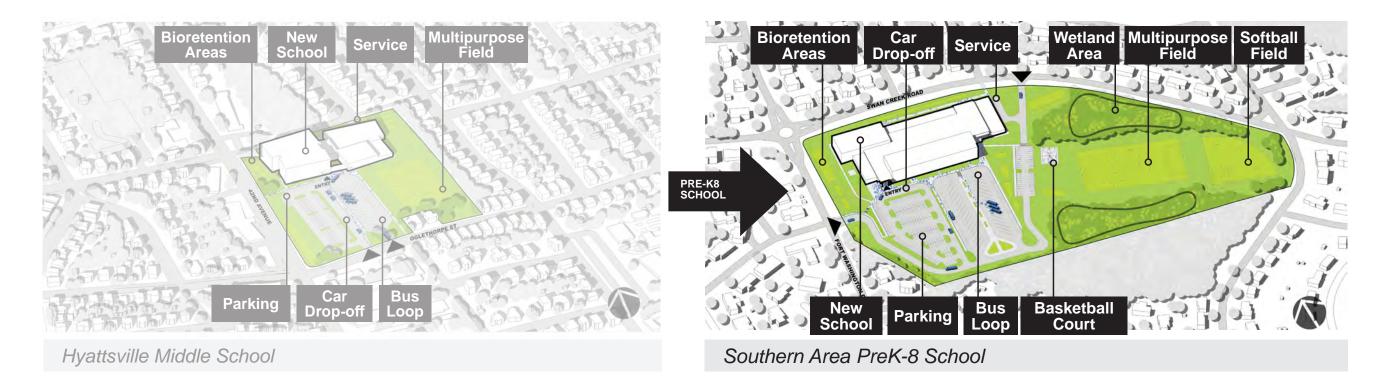


Walker Mill Middle School



4 STORY MIDDLE SCHOOL

SOUTHERN AREA PREK-8 SCHOOL





APPENDIX

SOUTHERN AREA PREK-8 SCHOOL



Bioretention

Play Areas: Left - Pre-K to K Right - Primary Play

Service Access

Low Mow / Low Maintenance Planting (15) Electronic Marquee

Forest & Wetlands to Remain 17 4' Ht. Fencing

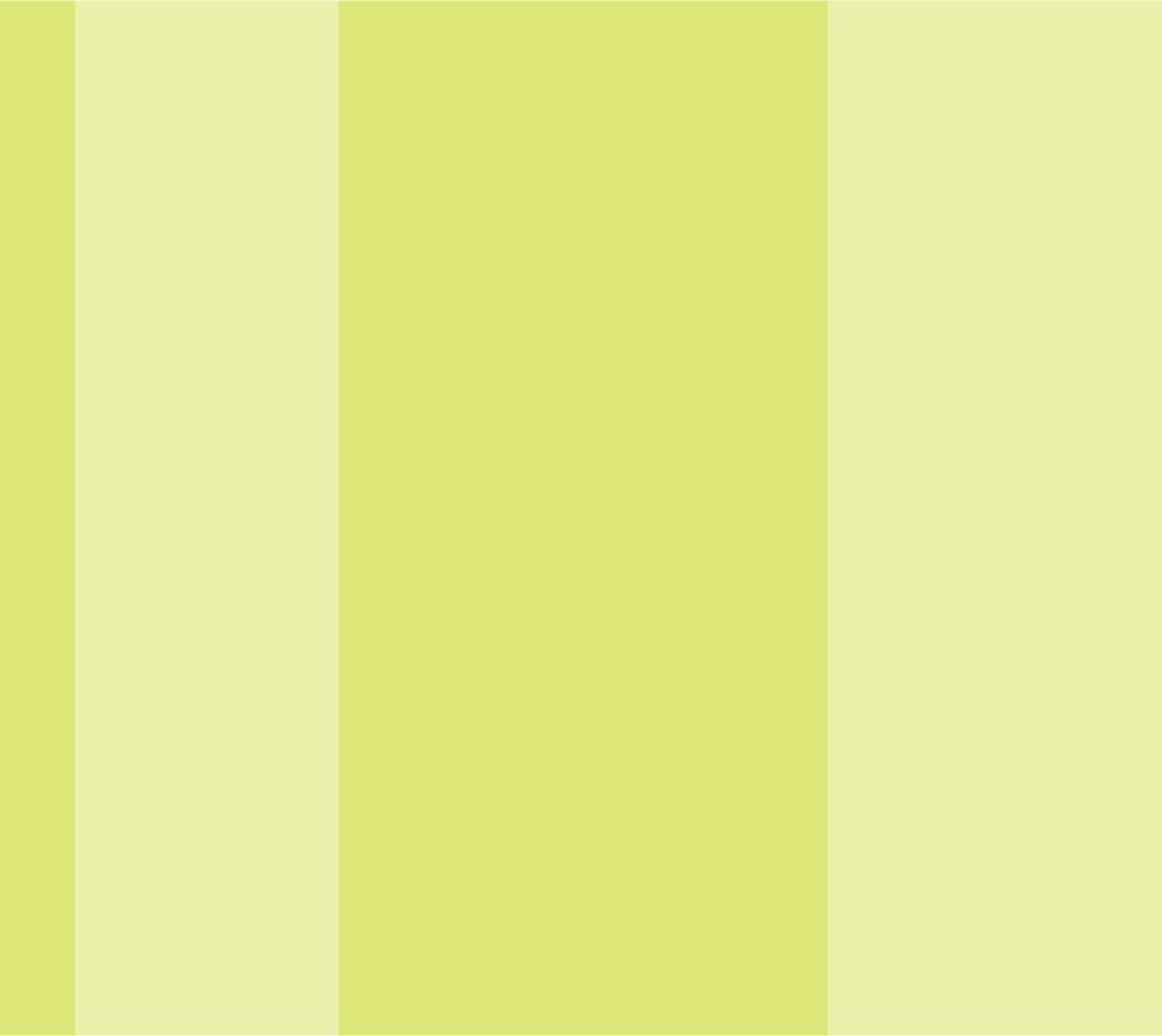
18 6' Ht. Fencing













JGRA	AM SUMMARY	Ad	elphi		W	alker Mill	11	Drev	w Freema	n	K	enmore		Ну	attsville		South Ar	ea K-8 Ac	aden
	Base Required Space	Square Footage			Square Foota	ige		Square Foota	ge		Square Foota	ge		Square Footag	ge		Square Foota	ge	
	And a second descent	1		F1 000			C						-	distant street.					
AC	Academic/Science			51,030			51,030			51,030			51,030			50,220			8
AD	Administrative/ Guidance/ Health			3,930			3,930			3,930			3,930			3,930			
GSS				1,770			1,770			1,770			1,770			1,770			
HS	And the second sec			775			775			775			775			775			
MCS	Maintenance & Custodial Services			1,350			1,350			1,350			1,350			1,350			
MC	Media Center			5,360			5,360			5,360			5,360			5,520			
PE	PE/Indoor			13,250			13,250			13,250			13,250			13,250			
PA	Performing Arts			8,650			8,650			8,650			8,650	1.1		11,405			
SE	Special Education (See Appendix A)*			4,685			4,640			4,550			4,550			4,550			
DC	Student Dining & Food Service	100 million - 10		9,320			9,320			9,320			9,320			9,320	-		
VA	Visual Arts	a contract as any		2,840			2,840			2,840			2,840			2,840	-		
	Building Support Areas [corridors, bathrooms, storage, stairwells, elevato	s] Includes 1260 c	corridor lo	37,944			37,944			37,944			37,944	1.1		37,944			
	Total	1		140,904	1		140,859			140,769			140,769			142,874			2
	Community Use (Wellness Clinic) Appendix B			1,600			1,500			1,600			1,600			1,600			
	+Construction factor			161,734			160,805			160,913			160,913			163,408			2
	nic Core													1.0					
AC	Academic Classrooms (PreK-K)			_													9	1000	-
AC	Academic Classroom/ Studio (1st – 3rd)																15	900	
AC	Academic Classroom/Studio (4th – 5th)															-	10	900	
AC	Academic Classroom/ Studios (6-8th)	37	810	29,970	37	810	29,970	37	810	29,970	37	810	29,970	36	810	29,160	37	810	
AC	Collaborative Learning Areas (informal)		aries	3,060		aries	3,060		ries	3,060		ries	3,060		ries	3,060	1	aries	-
AC	Outdoor Learning Areas (patios, porches, green roofs)		aries	C		aries	0	100	aries	0		ries	0		ries	0	-	aries	
AC	Science Classroom/ Lab	9	1,080	9,720	9	1,080	9,720	9	1,080	9,720	9	1,080	9,720	9	1,080	9,720	9	1,080	-
AC	Science Prep	3	300	900		300	900	3	300	900	3	300	900	3	300	900	3	300	
AC	Small Group Instruction/ Resource Rooms	6	400	2,400	6	400	2,400	6	400	2,400	6	400	2,400	6	400	2,400	12	250	1.1
AC	Special Needs Classroom/ Studios	h		C			0	1	_	0			0			0			
AC	Speech/OT/PT Room	1	300	300		300	300	1	300	300	1	300	300	1	300	300	1	300	-
AC	STEAM Lab	1	1,980	1,980	1	1,980	1,980	1	1,980	1,980	1	1,980	1,980	1	1,980	1,980	2	990	_
AC	Student Services Offices	6	150	900		150	900	6	150	900	6	150	900	6	150	900	10	150	1
AC	Teacher Support Rooms	3	400	1,200	3	400	1,200	3	400	1,200	3	400	1,200	3	400	1,200	5	250	_
AC	Technology Storage	3	200	600	3	200	600	3	200	600	3	200	600	3	200	600	3	100	_
_	Total			51,030		1.11	51,030			51,030			51,030			50,220			-
Adminis	stration							11											_
AD	Lobby (Main)	1			1			1			1			1			1		
AD	Reception/ Waiting Area	1	600	600		600	600	1	600	600	1	600	600	1	600	600	1	800	1.1
AD	Principal's Office	1	230	230	1	230	230	1	230	230	1	230	230	1	230	230	1	230	
AD	Assistant Principal's Office						- 1.					_	1				2	250	
AD	Administrative Assistant's Office	1	120	120		120	120	1	120	120	1	120	120	1	120	120	1	120	-
AD	Administrative Workroom	1	200	200		200	200	11.0	200	200	1	200	200	1	200	200	1	200	_
AD	Business Manager's Office	1	150	150		150	150		150	150	1	150	150	1	150	150	-	150	
AD	Conference Room	1	300	300		300	300		300	300	1	300	300	1	300	300		250	
AD	Mail Room	1	150	150		150	150		150	150	1	150	150	1	150	150	-	150	
AD	Security Center/ Office Suite	1	200			200	200		200	200	1	200	200	1	200	200	1	200	
AD	Staff Break Room	1	800	800		800	800		800	800	1	800	800	1	800	800	1	500	
AD	Supply (General)/ Administrative Storage	1	250	250		250	250	1	250	250	1	250	250	1	250	250	2	125	_
AD	Text Book Room	1	800	800		800	800	1	800	800	1	800	800	1	800	800	2	500	-
AD	Lactation Room	1	80			80	80	1	80	80	1	80	80	1	80	80	1	80	
AD	Toilet (Adult)	1	50			50	50		50	50	1	50		1	50	50	2	50	-
-	Total		_	3,930			3,930	1		3,930			3,930	11		3,930			_
Guidan	ce and Student Services	1			1.00			1. 5. 5.			11			1					
GSS	Reception/ Welcome Center	10 - E	300	300	1	300	300	1	300	300	1	300	300	1	300	300	1	300	_



Base Required Space GSS Conference/Testing Rooms		Ac	lelphi		w	alker Mill		Dre	w Freema		Kenmore					
		Square Footage			Square Foot	age		Square Foot	age		Square Footage					
GSS	Conference/Testing Rooms	1	250	250	ī	250	250	1	250	250	1	250	25			
GSS	Guidance Offices	6	120	720	6	120	720	6	120	720	6	120	72			
GSS	Parent Resource Center	1	300	300	1	300	300	1	300	300	1	300	30			
GSS	Records Storage	1	150	150	1	150	150	1	150	150	1	150	15			
GSS	After School Storage															
GSS	PTA Storage			-		-										
GSS	Toilet (Adult)	1	50	50	1	50	50	1	50	50	1	50	5			
0.02	Total	-		1,770		50	1,770		20	1,770		50	1,77			
Health	Services			4,17.0			1,770			1,,,,0	-		2,77			
HS	Reception/ Waiting Area	1	200	200	1	200	200	1	200	200	1	200	20			
HS	Cot Rooms	2	100	200		100	200		100	200		100	20			
1.7			126.9								-	10 million - 10 million				
HS	Exam Room/ Treatment Area	1	125	125	-	125	125		125	125		125	12			
HS	Office	1	100	100		100	100		100	100		100	10			
HS	Storage	1	50	50		50	50		50	.50		50	5			
HS	Toilet	2	50	100		50	100		50	100		50	10			
-	Total			775		_	775			775			77			
Mainte	nance & Custodial Services	and the second second						1	-				- 1.1			
MCS	Receiving and storage	1	600	600	1	600	600		600	600		600	60			
MCS	Custodial Office	1	150	150		150	150	1	150	150		150	15			
MCS	Custodial Storage	1	300	300	1	300	300	1	300	300	1	300	30			
MCS	Toilet/Shower/Lockers	2	150	300	2	150	300	2	150	300	2	150	30			
	Total			1,350			1,350	1		1,350			1,35			
Media	Commons	1 1						+								
MC	Media Commons (includes previous 600sf (Inline Learning)	1	3,300	3,300	1	3,300	3,300	1	3,300	3,300	1	3,300	3,30			
MC	Primary Library															
MC	Equipment Storage	1	150	150	1	150	150	1	150	150	1	150	15			
MC	Head End Room	i	250	250		250	250		250	250		250	25			
MC	Digital Media Suite (Previously innuvation Soite)	1 î	1360	1,360		1360	1,360		1360	1,360	-	1360	1,36			
MC	Production Multi-media Studia	1	360	1,300	1	350	1,000	1	360	1,500	1	360	1,50			
MC	Control Room	1	100		1	100	_	1	100		1	100				
MC	Editing Learning Studio		4.00		-	100		-	16/6		-	1.444	_			
MC		1	100		1	100	-	1	100		1	100				
MC	Storage Media Lab (Previously (misyenan Lab)	1	100		1	\$00		1	800		1	300	_			
MC		+	ann	_		200		4	euu		1	SUU				
	Innovation Center/Elementary Maker Space		50		-							50				
MC	Toilet (Staff)	1	50	50		50	50	100	50	50		50	5			
MC	Warkroom/Office	1	250	250		250	250	1	250	250		250	25			
	Total			5,360			5,360		-	5,360	-		5,36			
	ning Arts						_			_						
PA	General Music							+		-						
PA	Band Room	1	1,620	1,620		1,620	1,620		1,620	1,620		1,620	1,62			
PA	Choral/ Keyboard/ Guitar	1	1,260	1,260	1	1,260	1,260	1	1,260	1,260	1	1,260	1,26			
PA	Choral/ Keyboard				1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.			1.		-						
PA	Choral Practice Rooms	2	100	200	2	100	200	2	100	200	2	100	20			
PA	Choral Storage						I.									
PA	Instrument Storage	1	315	315	1	315	315	1	315	315	1	315	31			
PA	Instrumental Practice Rooms	2	80	160		80	160		80	160		80	16			
PA	Stage	1	1,080	1,080		1,080	1,080		1,080	1,080		1,080	1,08			
PA	Stage Sound and Light Control Room	1	75	75		75	75		75	75		75	7			
PA	Stage Storage	1	170	170		170	170		170	170		170	17			
PA	Drama Lab		110	170	· · ·		1.0	-	4.0	1,0		1.0				
PA	School Specific Arts Space	1	3,770	3,770	1	3,770	3,770	1	3,770	3,770	1	3,770	3,77			
PA	Generic	1	1,710	3,170	1	1,710	3,170	-	3,770	3,170	1	3,110	3,1			

PROGRAM 53



APPENDIX

Base Required Space		Adelphi Squara Factore			Walker Mill			Drew Freeman			Kenmore			Hyattsville			South Area K-8 Academy			
	base Kednieg share	Square Footage	Square Footage			Square Footage		Square Footage			Square Footage			Square Footage			Square Foota	ige		
A	Orchestra							1			1	1,710		1	1,710					
A	Drama							1	1,710		1.000			1	2,340					
A	Dance	1	1,620	_	1	1,620		1	1,620		1	1,620		1	1,620		1	1,620		
A	Storage	1	180		1	180		1	180		1	180		1.1.1						
A	Practice room	2	80		2	80		2	80		2	80			-				_	
A	Dance Office	1	100	_	1	100		1	100		1	100	11	1	100		1	100		
A	Bathrooms w/ changing area	2	0		2	0		2	0		2	0		2	0		2	0		
_	Total	1.1		8,650	0	_	8,650			8,650			8,650			11,405			10,160	
the standy of	al Education									_										
E	Lobby	1	1,000	1,000		1,000	1,000		1,000	1,000	1	1,000	1,000	1	1,000	1,000	1	1,000	1,000	
E	Gymnasium	1	8,200	8,200		8,200	8,200		8,200	8,200		8,200	8,200	1	8,200	8,200	1	9,800	9,800	
E	Gymnasium Floor	1	5,800		1	5,800		1	5,800		1	5,800		1	5,800	_	1	5,800		
E	Bleacher Seating (600)	1	2,400	_	1	2,400		1	2,400		1	2,400		1	2,400		1	4,000		
E	Auxilliary Gym						-										1	2,800	2,80	
E	Wellness Lab	1	900	900		900	900		900	900		900	900	1	900	900	1	900	90	
E	Laundry	1	100	100	1	100	100	1	100	100	1	100	100	1	100	100	1	100	10	
E	PE or Dance Lab		-	1.200		1.1.2.2.														
E	Offices (Department/ Athletic)	3	150	450	-	150	450		150	450		150	450	3	150	450	3	150	45	
E	P.E. Locker Rooms/Showers	2	850	1,700		850	1,700		850	1,700		850	1,700	2	850	1,700	2	765	1,530	
E	Storage	3	300	900		300	900		300	900		300	900	3	300	900	3	300	900	
E	Partner Office (optional)	0	200	0	0 0	200	0	0	200	0	0	200	0	0	200	0	0	200	(
10.0	Total			13,250	0		13,250	2+		13,250			13,250			13,250	-		17,480	
	Commons							1												
C	Cafeteria/Commons	1	5,500	5,500		5,500	5,500	10.	5,500	5,500		5,500	5,500	1	5,500	5,500	1	9,000	9,000	
C	Chair Storage	1	600	600		600	600		600	600		600	600	1	600	500	1	900	900	
C	Kitchen	1	1,800	1,800		1,800	1,800		1,800	1,800		1,800	1,800	1	1,800	1,800	. 1	3,000	3,000	
C	Serving Area	11	900	900		900	900		900	900		900	900	1	900	900	1	1,600	1,600	
C	Office	1	120	120		120	120		120	120		120	120	1	120	120	2	120	240	
C	Receiving/ Maintenance Closet	1	200	200	a beaution of the second se	200	200		200	200		200	200	1	200	200	1	300	300	
)C	Toilet/Shower/ Locker area	2	100	200	-	100	200		100	200	2	100	200	2	100	200	2	150	300	
	Total			9,320	2		9,320			9,320			9,320			9,320			15,340	
/isual					1-1-1-1			1			1.1	THE R			-	-				
A	Multi-Purpose Art Studios	2	1,170	2,340		1,170	2,340		1,170	2,340		1,170	2,340	2	1,170	2,340	-	aries	4,000	
A	Kiln Room	1	100	100	-	100	100		100	100		100	100	1	100	100	1	150	150	
A	Storage	2	200	400		200	400		200	400	-	200	400	2	200	400	3	150	450	
	Total			2,840			2,840	1.		2,840			2,840			2,840			4,600	
2 P. L	Clinic			-		10.00		11.000				100.0	1.11						-	
C	Reception/ Waiting Area	1	150	150	-	150	150		150	150		150	150	1	150	150	1	150	15	
C	Exam Rms.#1	1	80	80		80	80		80	80		80	80	1	80	80	1	80	8	
IC	Exam and Dental #2	1	160	160		160	160		160	160		160	160	1	160	160		160	16	
IC	Lab/charting area	1	100	100		100	100		100	100		100	100	1	100	100	1	100	100	
IC	Provider Offices	2	120	240		120	240		120	240		120	240	2	120	240	2	120	240	
IC	Mental Health conference rm	1	200	200		200	200		200	200		200	200	1	200	200	1	200	200	
IC	Storage	1	130	130		130	130		130	130		130	130	1	130	130	1	130	130	
IC	Toilet	2	50	100	-	50	100		50	100		50	100	2	50	100	2	50	100	
	Total			1,160)		1,160			1,160			1,160	·	· · · · · · · · · · · · · · · · · · ·	1,160			1,160	
pecial										-				_						
E	Classrooms	3	740	2,220																
E	Toilet/Changing Rooms	3	90	270																
E	от/рт	1	720	720										_					_	
ε	Life Skills Lab w/ Laundry	1	720	720																
E	Office	2	140	280)															

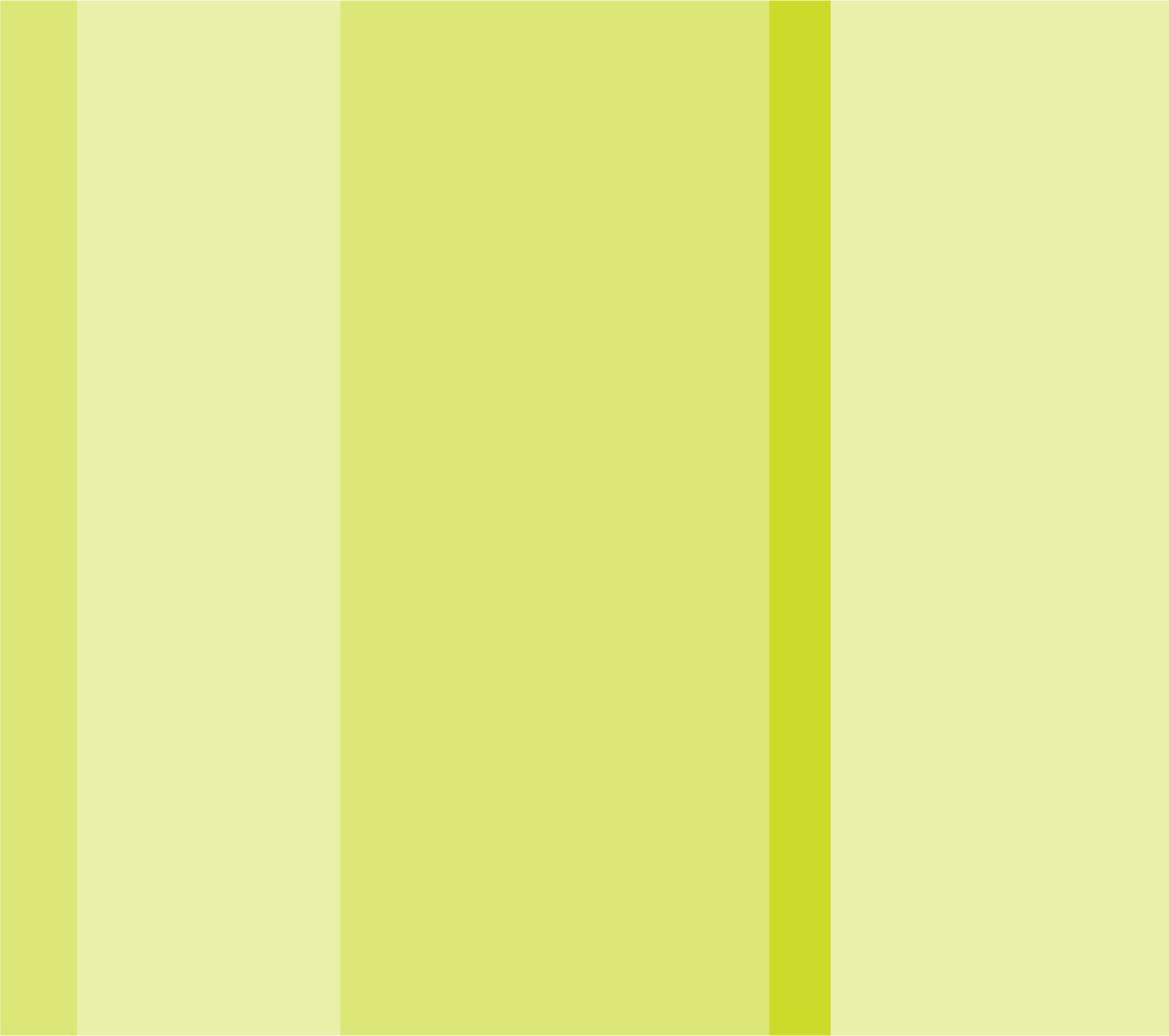


DGRAM SUMMARY		Ad	elphi		Wa	lker Mill	11	Drew	Freeman	Ψ.	K	enmore	
	Base Required Space	Square Footage			Square Footag	e		Square Footag	e		Square Foota	ige	
SE	Conference Room	1	250	250									-
SE	Teacher Support Room	1	225	225									
-	Total			4,685			0			0	1		
Emoti	onally Disabled - Walker Mill				P			1		1			
SE	Classrooms				4	740	2,960	it i					
SE	Student Support Room				1	350	350						
SE	Independent Support Room				2	80	160	1					_
SE	Office				3	140	420	-			-		_
SE	Conference Room				1	300	300						
SE	Teacher Support Room				1	150	150						
SE	Program Transition Room				1	200	200			_			
SE	Tailets				2	50	100		_				
	Total	4		0		1.1	4,640			0			
Autisn	n: Kenmoor, Hyattsville, Drew Freeman, Southern Area												
SE	Classrooms							3.	800	2,400	3	800	
SE	Classrooms							1	810	810	1	810	
SE	Sensory Room							1	600	600	1	600	
SE	Independent Support Room							1	200	200	1	200	_
SE	Office				1			1	140	140	1	140	
SE	Conference Room						_	1	300	300	1	300	_
SE	Toilets			-				2	50	100	2	50	-
	Total			0	1		D	1		4,550			

APPENDIX

PROGRAM 55







APPENDIX

PREK-8 SCHOOL FLOOR PLAN FIRST FLOOR









60	FLOOR PLAN	APPENDIX

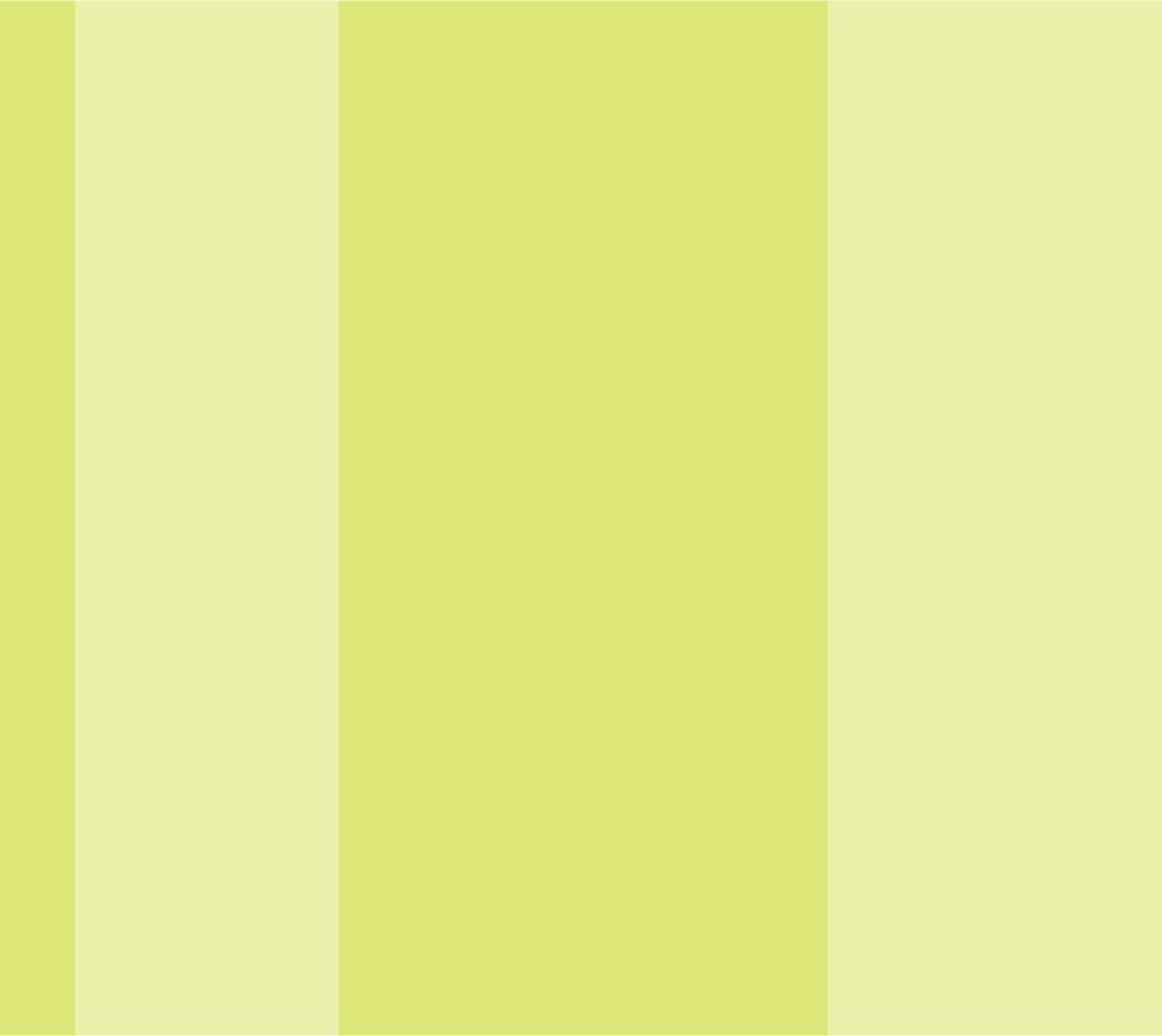
PREK-8 SCHOOL FLOOR PLAN THIRD FLOOR











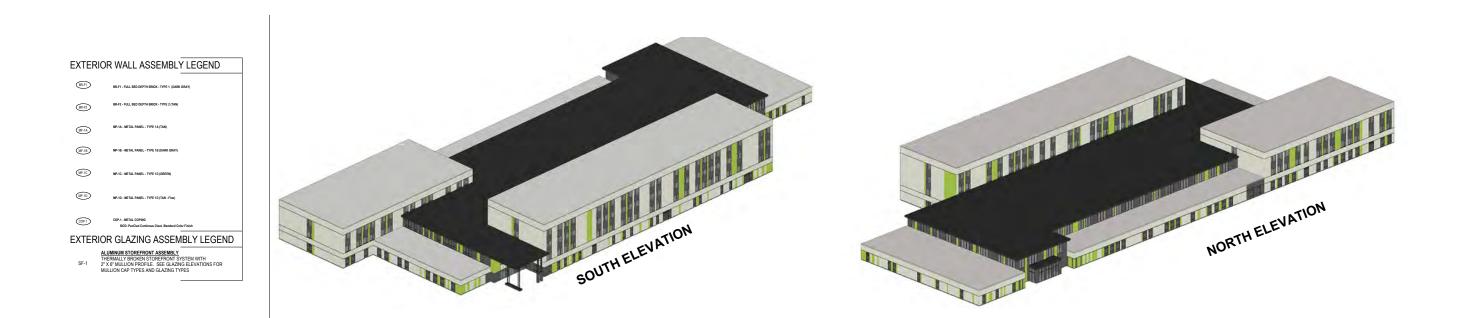


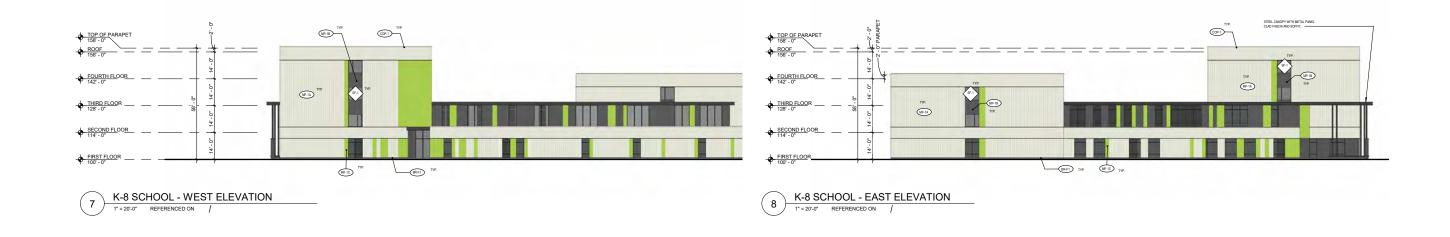


64 BUILDING ELEVATION AND AXON

APPENDIX

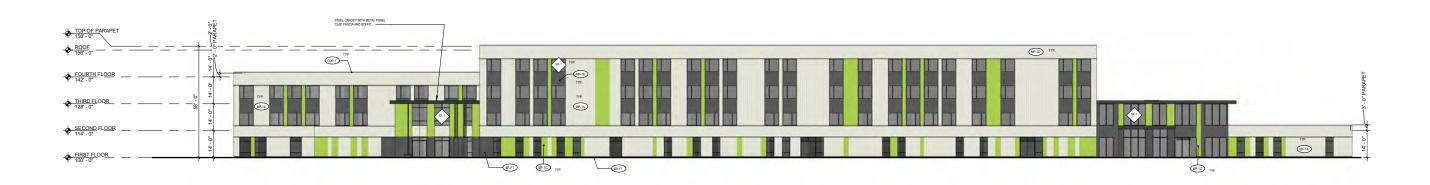
PREK-8 SCHOOL ELEVATIONS AND AXONS







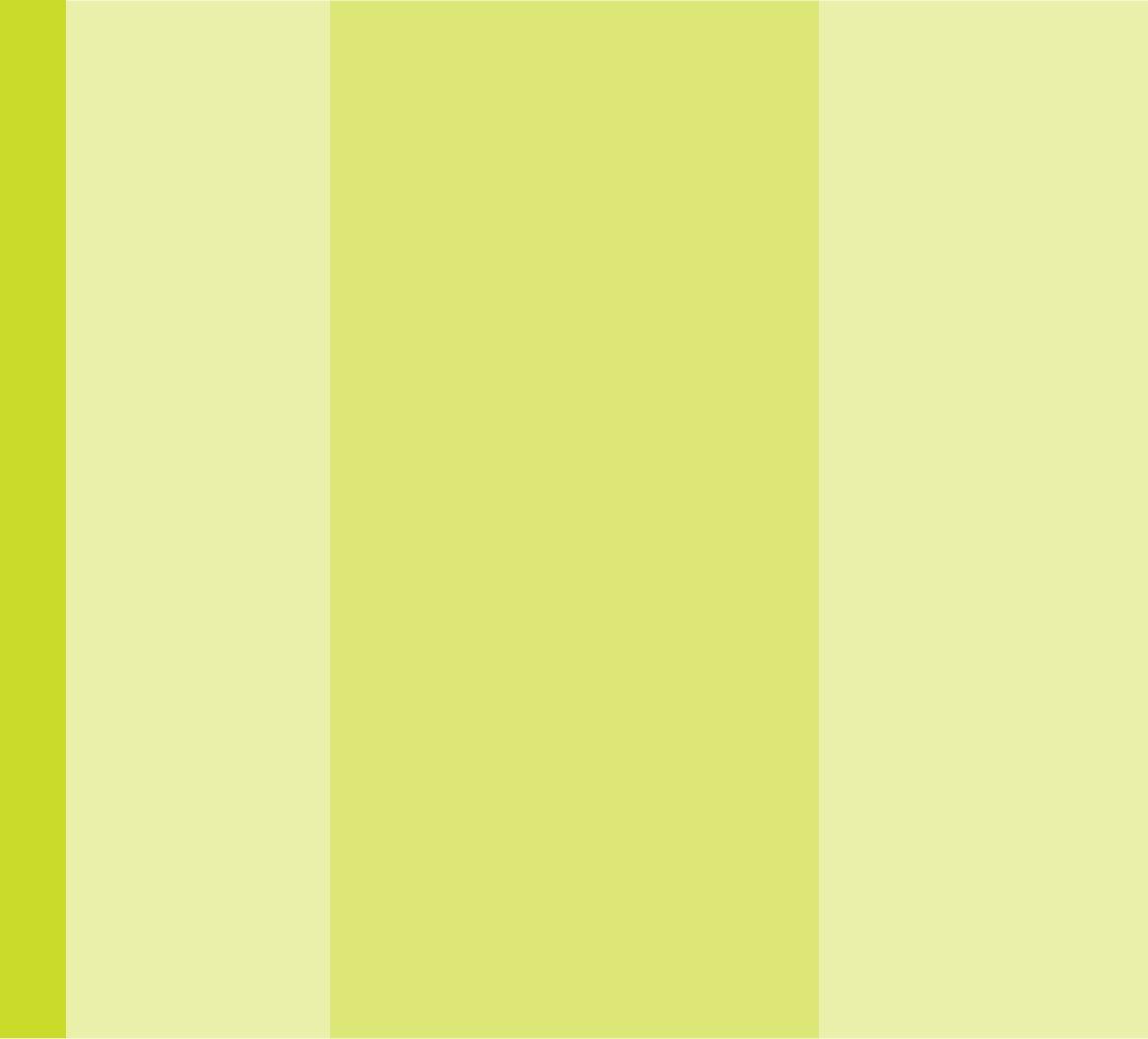




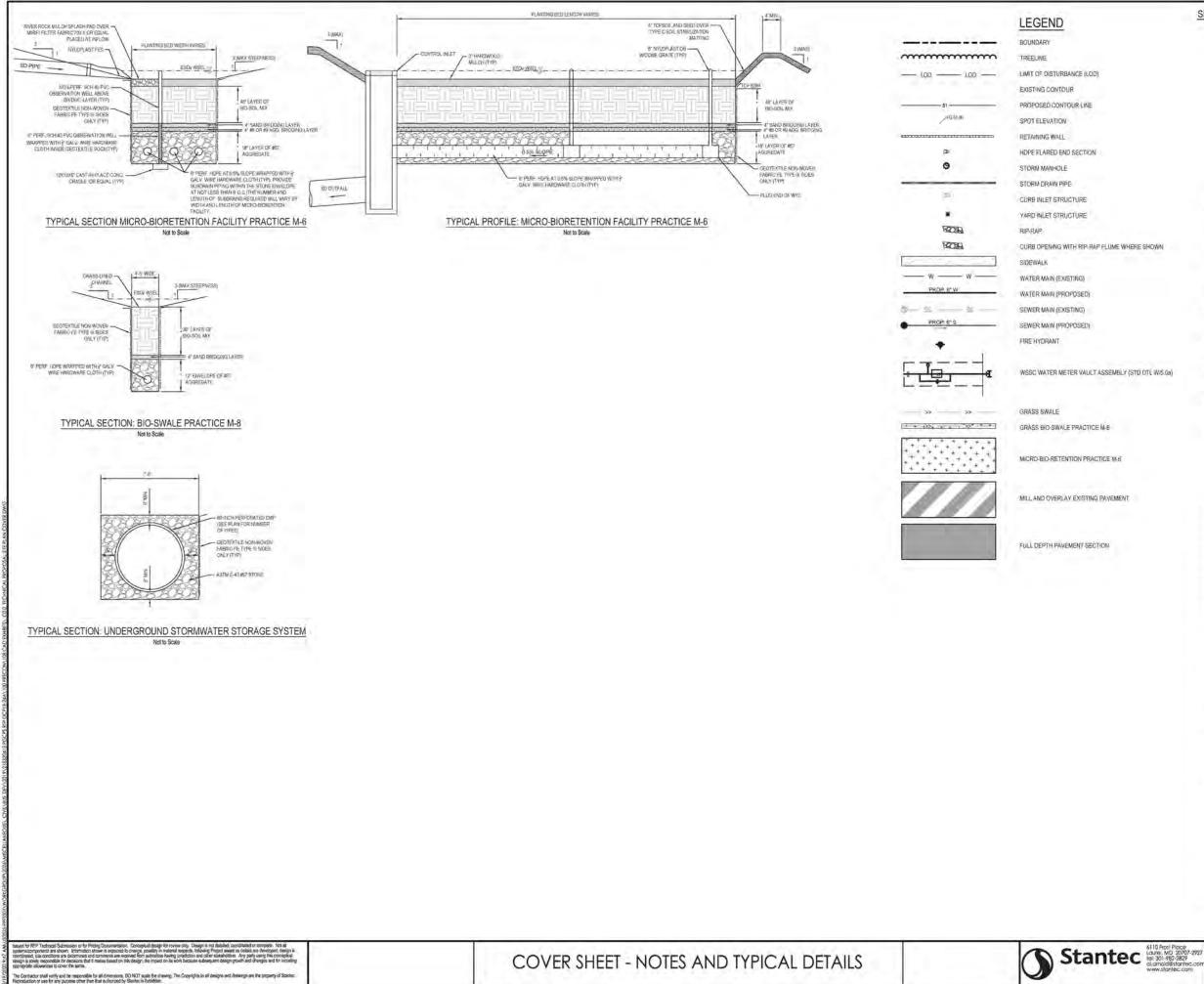
Prince George's County Education and Community Partners TECHNICAL PROPOSAL - PGCPS ACF Package 1 DBFM Response to RFP | RFP No. DCP19-24A

APPENDIX BUILDING ELEVATION AND AXON 65





APPENDIX CIVIL SITE PLANS



SITE PLAN GENERAL NOTES

- 1. THE SITE PLANS SHOW THE FOLLOWING:
 - a. EXISTING CONDITIONS ON-SITE AND FOR ADJACENT FRONTAGE ROADS.
 - b. NEW SCHOOL BUILDING AND ATHLETIC FIELDS
 - c. NEW CAR AND BUS PARKING LOTS, PARENT DROP OFF AREAS, AND ADA SPACES
 - d. ACCESS FROM PUBLIC STREET AND CIRCULATION FOR PARKING LOTS, BUS PARKING, SERVICE AREAS AND FOR EMERGENCY VEHICLES
 - e. SITE GRADING
 - f. STORM WATER MANAGEMENT AND STORM DRAINAGE
 - g. WATER AND SEWER SERVICE TO THE BUILDING AND SITE FIRE HYDRANTS.
- SEE LANDSCAPE PLANS FOR ADDITIONAL FEATURES INCLUDING PLAYGROUND AREAS, SITE FENCING, SITE LIGHTING, ATHLETIC FIELD EQUIPMENT, LANDSCAPE PLANTING, HARDSCAPE FEATURES SUCH AS SITE FURNITURE, FLAG POLES, SIGNAGE.
- 3. SEE CONTRACTOR STAGING PLAN FOR TEMPORARY CONSTRUCTION PERIOD FACILITIES.
- 4. THE EXISTING CONDITIONS SHOWN ON THESE PLANS IS TAKEN FROM RFP FURNISHED INFORMATION PLUS PUBLICLY AVAILABLE SOURCES INCLUDING GIS RECORD DATA AND OTHER INFORMATION OBTAINED FROM AVAILABLE RESOURCES.
- TOPOGRAPHIC AND UTILITY DESIGNATION SURVEYS WILL BE PERFORMED AFTER AWARD TO VERIFY THE INFORMATION SHOWN ON THESE PLANS.
- FINAL STORM DRAIN, STORMWATER TREATMENT AND STORMWATER MANAGEMENT TO BE CONSTRUCTED PER ALL NORMAL DPIE STANDARDS.
- 7. STORM DRAIN. WATER AND SEWER CAPACITIES OF THE ADJACENT EXISTING SYSTEMS WILL BE EVALUATED AND VERIFIED DURING FINAL DESIGN.
- 8. FINAL WATER AND SEWER SYSTEMS TO BE CONSTRUCTED BY WSSC APPROVED CONTRACTORS PER WSSC STANDARDS.
- 9. ALL WORK WITHIN COUNTY OR SHA PUBLIC ROAD RIGHTS-OF-WAY WILL BE CONSTRUCTED PER DPW OR SHA STANDARDS RESPECTIVELY.

SHT	DWG	CULETTER E
No.	No.	SHEET TITLE
1	C0.0	COVER SHEET - NOTES AND TYPICAL DETAILS
2	C1.0	ADELPHIMS - LOCATION PLAN
3	C1.1	ADELPHIMS - EXISTING CONDITION PLAN
4	C1.2	ADELPHIMS - SITE LAYOUT PLAN
5	C1.3	ADELPHIMS - GRADING AND STORM DRAIN PLAN
6	C1.4	ADELPHIMS - WATER AND SEWER PLAN
7	C2.0	DREW FREEMAN MS - LOCATION PLAN
8	C2.1	DREW FREEMAN MS - EXISTING CONDITION PLAN
9	C2.2	DREW FREEMAN MS - SITE LAYOUT PLAN
10	C2.3	DREW FREEMAN MS - GRADING AND STORM DRAIN PLAN
11	C2.4	DREW FREEMAN MS - WATER AND SEWER PLAN
12	C3.0	HYATTSVILLE MS - LOCATION PLAN
13	C3.1	HYATTSVILLE MS - EXISTING CONDITION PLAN
14	C3.2	HYATTSVILLE MS - SITE LAYOUT PLAN
15	C3.3	HYATTSVILLE MS - GRADING AND STORM DRAIN PLAN
16	C3.4	HYATTSVILLE MS - WATER AND SEWER PLAN
17	C4.0	KENMOOR MS - LOCATION PLAN
18	C4.1	KENMOOR MS - EXISTING CONDITION PLAN
19	C4.2	KENMOOR MS - SITE LAYOUT PLAN
20	C4.3	KENMOOR MS - GRADING AND STORM DRAIN PLAN
21	C4.4	KENMOOR MS - WATER AND SEWER PLAN
22	C5.0	NEW SOUTHERN AREA K8 - LOCATION PLAN
23	C5.1	NEW SOUTHERN AREA K8 - EXISTING CONDITION PLAN
24	C5.2	NEW SOUTHERN AREA K8 - SITE LAYOUT PLAN
25	C5.3	NEW SOUTHERN AREA K8 - GRADING AND STORM DRAIN PLAN
26	C5.4	NEW SOUTHERN AREA K8 - WATER AND SEWER PLAN
27	C6.0	WALKER MILL MS - LOCATION PLAN
28	C6.1	WALKER MILL MS - EXISTING CONDITION PLAN
29	C6.2	WALKER MILL MS - SITE LAYOUT PLAN
30	C6.3	WALKER MILL MS - GRADING AND STORM DRAIN PLAN
31	C6.4	WALKER MILL MS - WATER AND SEWER PLAN

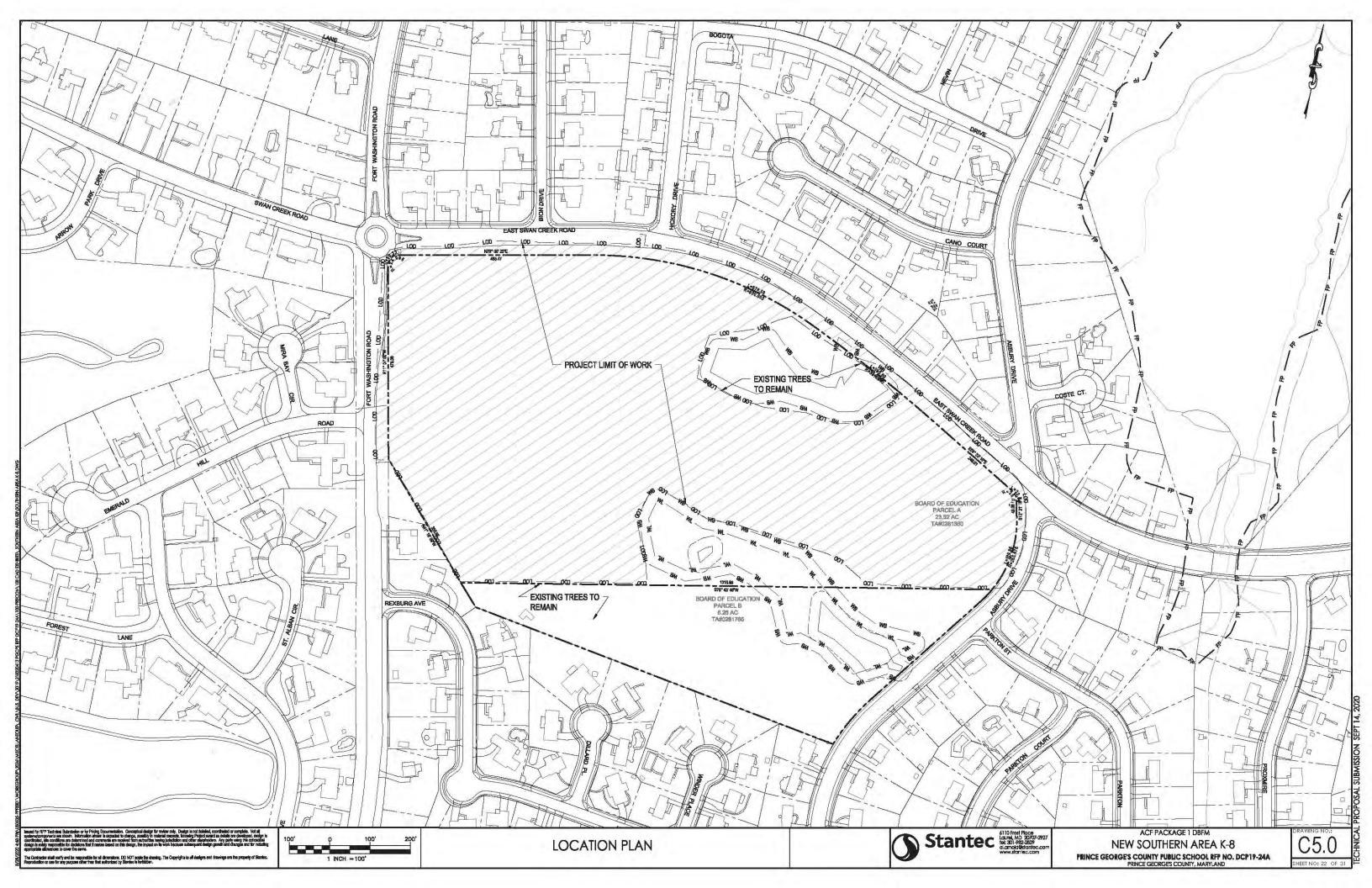
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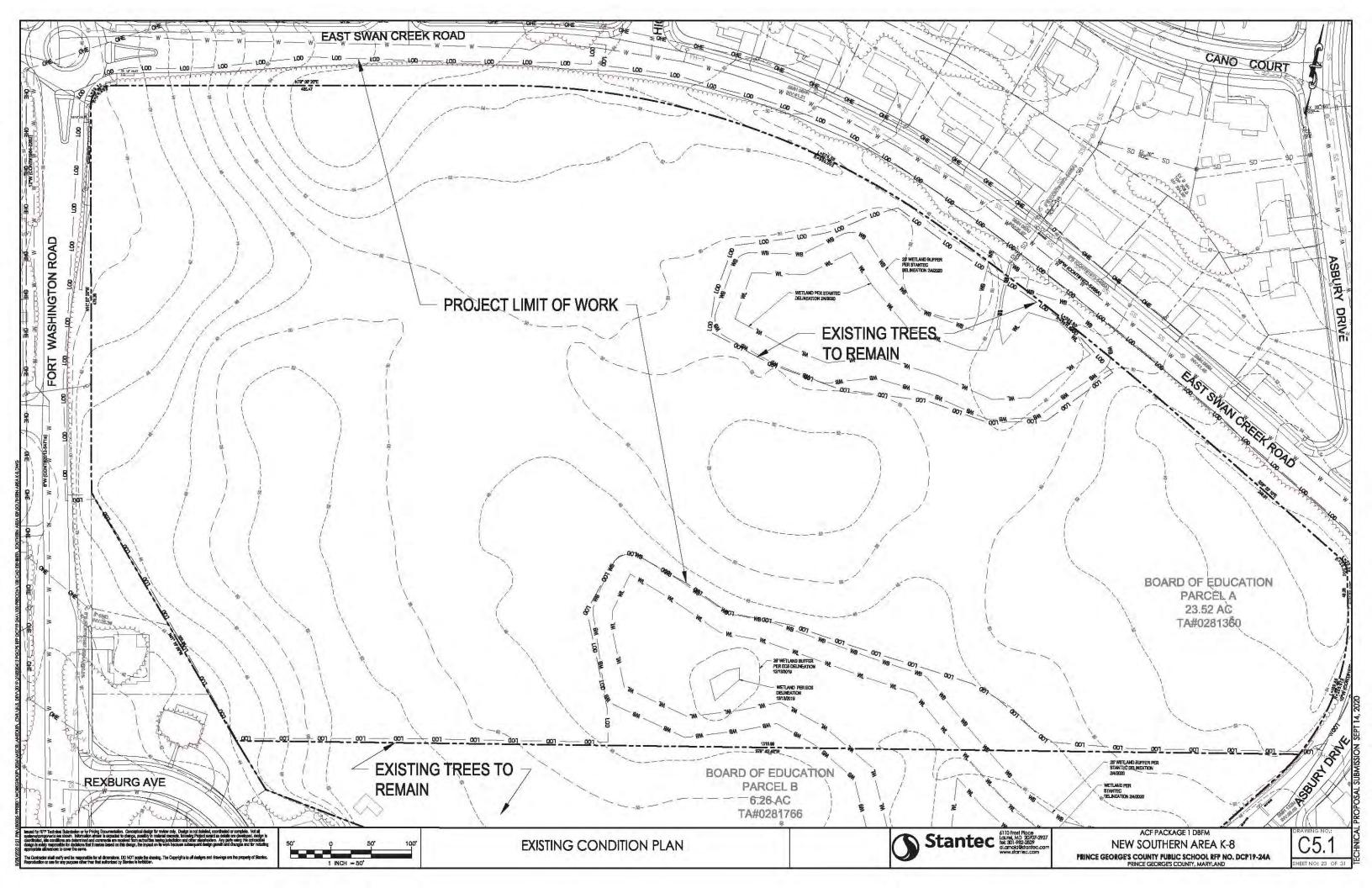
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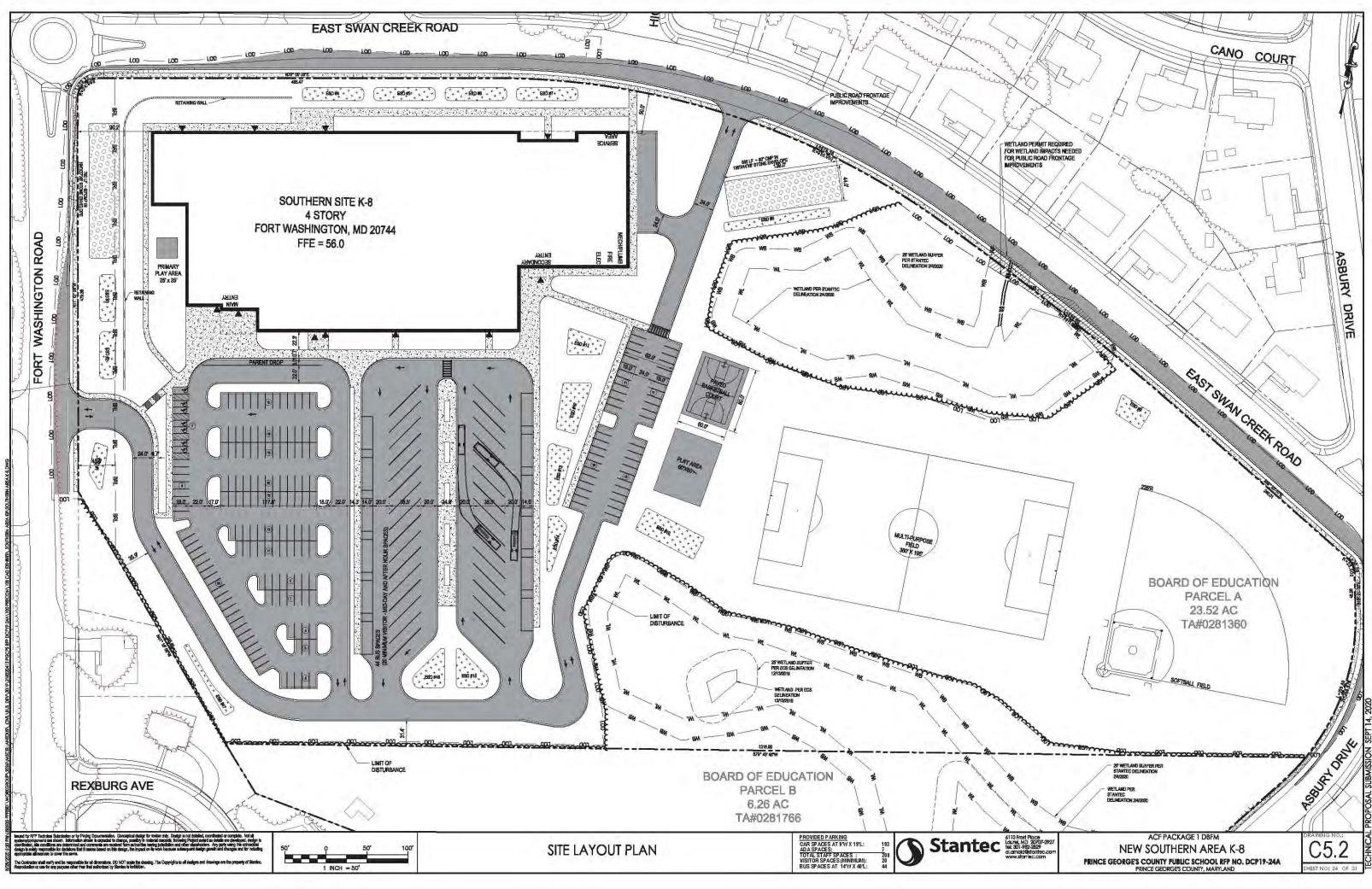
INDEX TO SITE CIVIL DRAWINGS

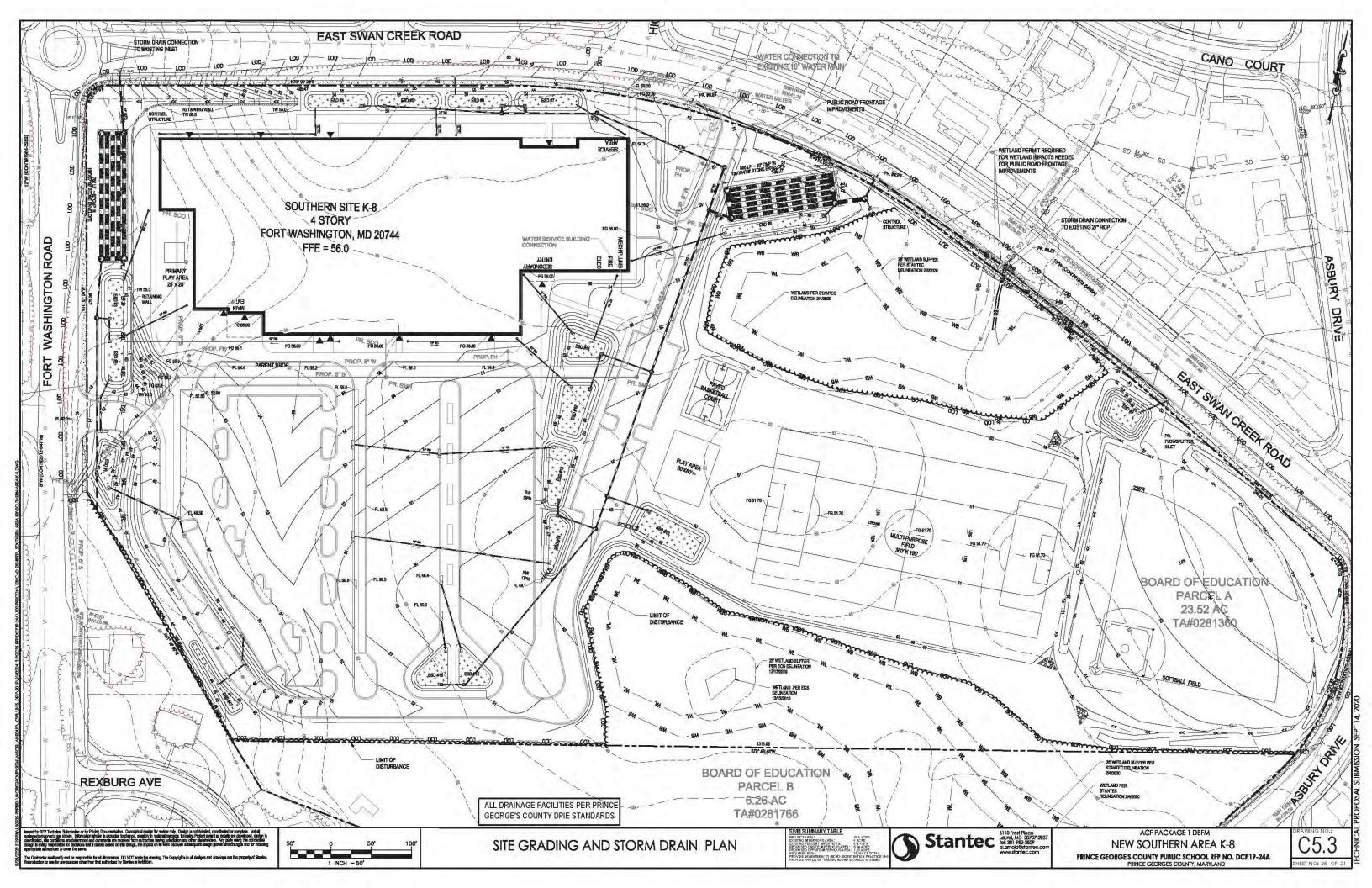
2 Frost Ploce et. MD: 20707-2927 301-782-2829 rnold@stontec.com ADELPHI, DREW FR PRINCE GE

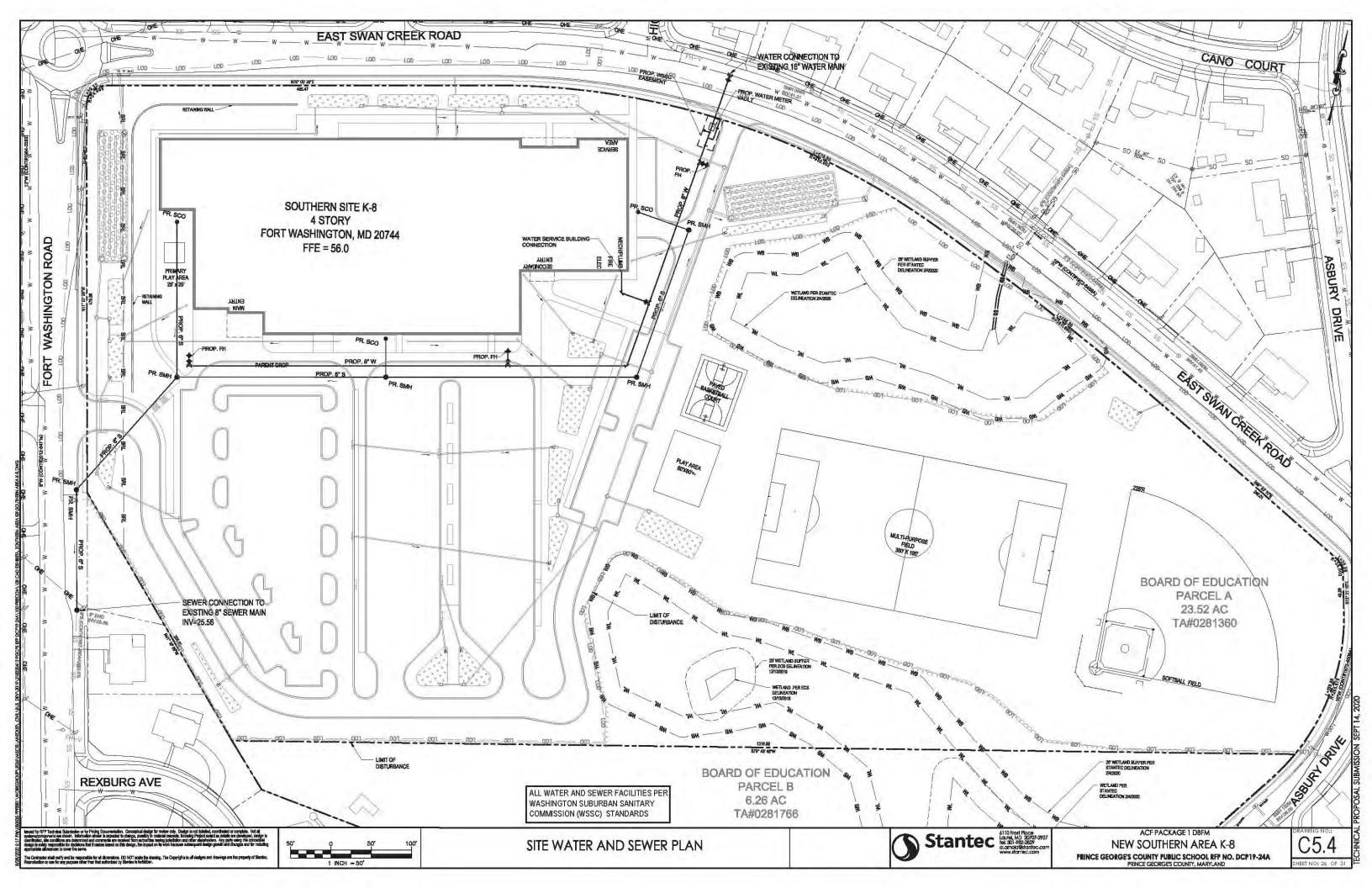
ACF PACKAGE 1 DBFM TECHNICAL PROPOSAL SITE PLANS ADELPHI, DREW FREEMAN, HYATISVILE, KEMMOOR, NEW SOUTHERN AREA, WALKER MILL PRINCE GEORGE'S COUNTY PUBLIC SCHOOL RFP NO. DCP19-24A PRINCE GEORGES COUNTY, MARTLAND

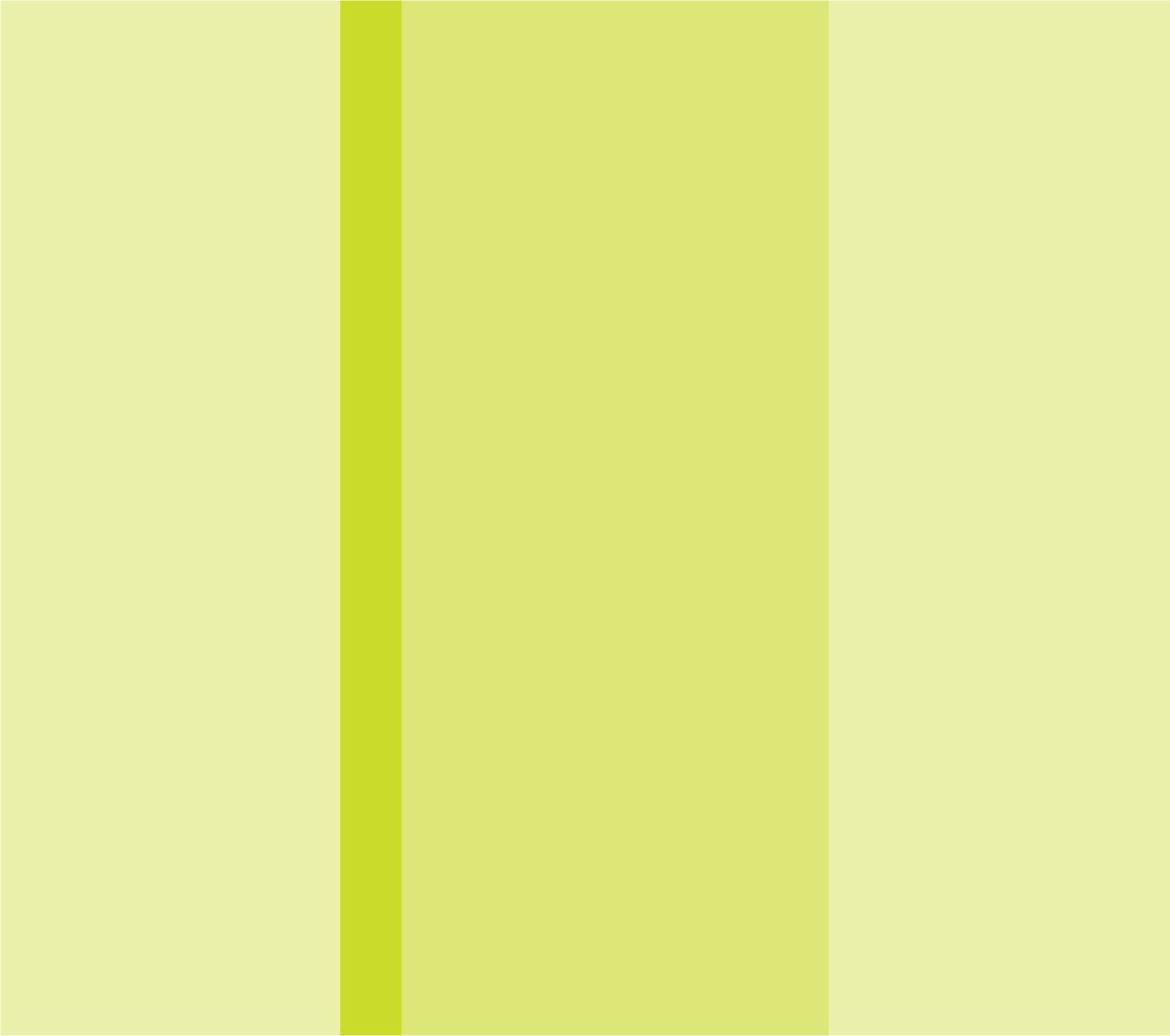












APPENDIX ROOM DATA SCHEDULE

APPENDIX

Prince George's County Public Schools Alternative Construction Finaincing Package 1

ROOM DATA SCHEDULE

Space Types	Floor	Base	Walls Finish*	Ceiling	Other Finish	Technology	Window Treatments
Academic Core Pre Kindergarten Classrooms	VCT	VINYL	PAINT	ACT		Whiteboard/ Tackboard/AV	Vac
Elementary Classrooms	VCT	VINYL	PAINT	ACT		Whiteboard/ Tackboard/AV	
Aiddle School Classrooms	VCT	VINYL	PAINT	ACT		Whiteboard/ Tackboard/AV	Yes
Collaboration Areas	VCT	VINYL	PAINT	ACT		Whiteboard/Tackboard	Yes
Science Classrooms / Labs / Prep	VCT	VINYL	PAINT	ACT	Flooring: Moisture and stain- resistant finishes Counter/Table Tops: Heat and chemical-resistant (to acids, etc.)	Whiteboard/ Tackboard/AV	Yes
Small Group Instruction / Resource	VCT	VINYL	PAINT	ACT		Whiteboard/Tackboard/AV	Yes
Special Education Classrooms and Support	VCT	VINYL	PAINT	ACT		Whiteboard/ Tackboard/AV	Yes
Speech / OT / PT rooms	VCT	VINYL	PAINT	ACT		Whiteboard/ Tackboard/AV	Yes
STEAM	VCT	VINYL	PAINT	ACT	Flooring: Moisture and stain- resistant finishes Counter/Table Tops: Heat and chemical-resistant (to acids, etc.)	Whiteboard/ Tackboard/AV	Yes
eacher Support Rooms	VCT	VINYL	PAINT	ACT		Whiteboard/ Tackboard/AV	
Administrative/Offices/Conference Rooms							
obby	VCT	VINYL	STN TL/PTD	PTD/ACT		Energy Dashboard	
Reception / Waiting Areas	VCT	VINYL	PAINT	ACT			
Offices Conference Room	VCT VCT	VINYL	PAINT	ACT		Whiteboard/ Tackboard/AV	
Security Center	VCT	VINYL	PAINT	ACT			
Parent Resource Center	VCT	VINYL	PAINT	ACT			
Vorkrooms / Mail Rooms	VCT	VINYL	PAINT	ACT			
Staff Break Room	VCT	VINYL	PAINT	ACT			
actation Room	VCT	VINYL	PAINT	ACT			
lealth Cot Rooms	VCT	VINYL	PAINT	ACT	4' HI CERT WAINSCOT		
					Flooring: Moisture and stain- resistant finishes		
Exam / Treatment Room	VCT	VINYL	PAINT	ACT	4' HI CERT WAINSCOT Flooring: Moisture and stain- resistant finishes		
Aedia Aedia Commons	50% CARPET / 50% VCT	VINYL	PAINT	ACT / Acoustical Baffles	learning stair- vinyl and wood		
vledia On-line Learning	CARPET	VINYL	PAINT	ACT			
Digital Media Suite	CARPET	VINYL	PAINT	ACT			
	CARPET	VINYL	PAINT	ACT			
ledia Lab				P T MAR 1			
/ledia Lab nnovation Center / Elem Maker Space	VCT	VINYL	PAINT	ACT			

Prince George's County Education and Community Partners TECHNICAL PROPOSAL - PGCPS ACF Package 1 DBFM Response to RFP | RFP No. DCP19-24A



Prince George's County Public Schools

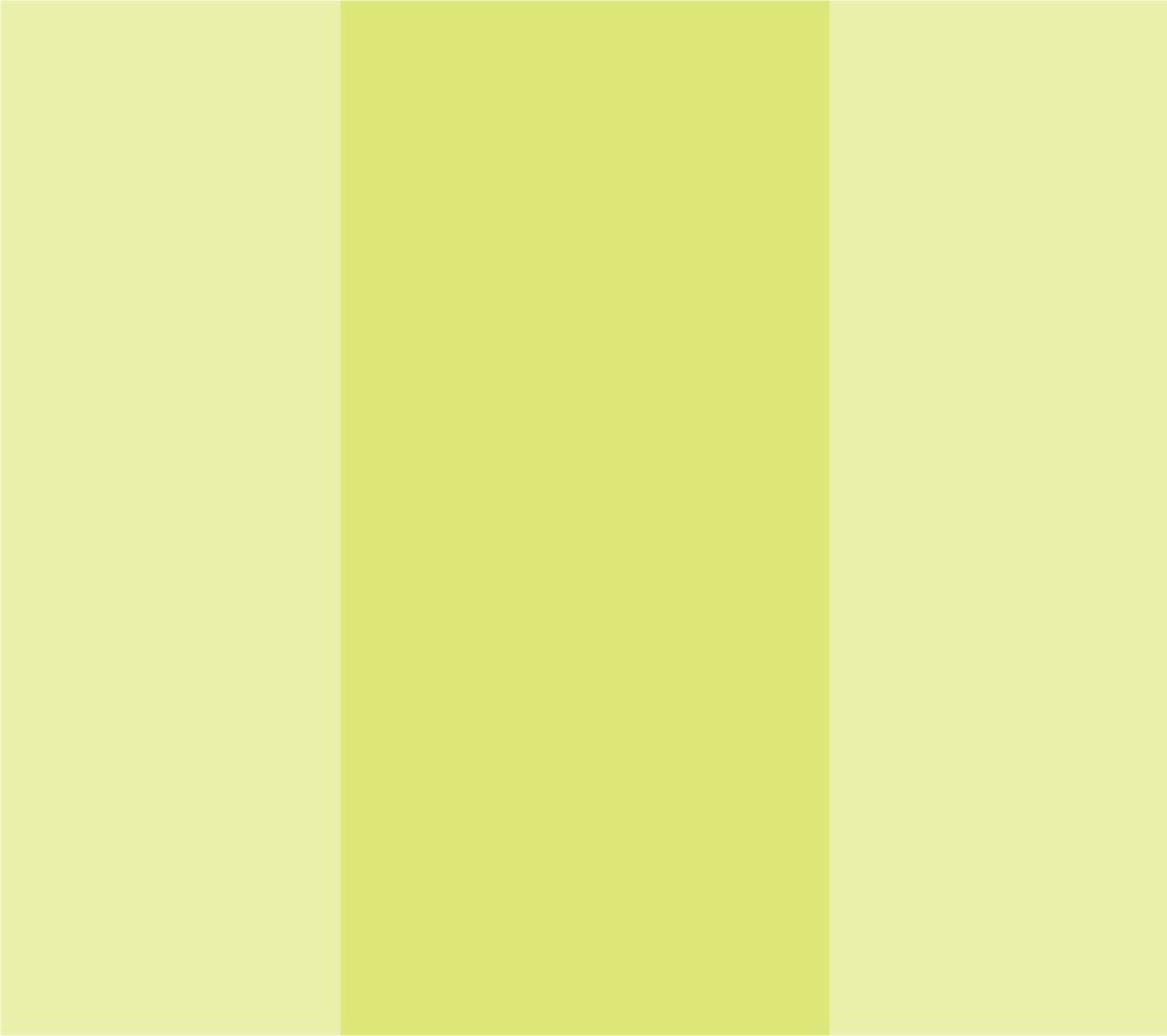
Alternative Construction Finaincing Package 1

ROOM DATA SCHEDULE

Space Types	Floor	Base	Walls Finish*	Ceiling	Other Finish	
Primary Reading Library	50% CARPET / 50% VCT	VINYL	PAINT	ACT		
Physical Education						
Gymnasium	Wood Strip Floor	VINYL	PAINT	EXPOSED ACOUSTIC PANEL		
Wellness Lab	Reslient Athletic Floor	VINYL	PAINT	ACT		
PE locker rooms / showers	TILE	TILE	PAINT / CERAMIC TILE	PAINTED GYPSUM BOARD		
Laundry	VCT	VINYL	PAINT	ACT		
Performing Arts		7-1-				
Music / Drama / Studios	VCT	VINYL	PAINT	ACT / Acoustical Baffles		7
Dance Studios	Wood Strip Floor	VINYL	PAINT	ACT / Acoustical Baffles		
Practice Rooms	VCT	VINYL	PAINT	ACT		
Stage Stage Control Room	WOOD VCT	WOOD VINYL	PAINT PAINT	ACT ACT	Casework: 36" deep plastic laminate counter top Sliding glass windows	
Dining / Food Service						
Dining Rooms	VCT	VINYL	PAINT	ACT / Acoustical Baffles		
Kitchen	QUARRY TILE	QUARRY TILE	GLAZED CMU / FIBERGLASS PANELS	ACT		
Serveries	QUARRY TILE	QUARRY TILE	GLAZED CMU / FIBERGLASS PANELS	ACT		
Visual Arts Multi-Purpose Arts Studios	VCT	VINYL	PAINT	ACT		
Kiln Room	VCT	VINYL	PAINT	ACT		
Maintenance / Custodial / Building	Support			100		_
Receiving / Storage	VCT	VINYL	PAINT	ACT		
toilet / shower / lockers	TILE	TILE	PAINT / CERAMIC TILE	PAINTED GYPSUM BOARD		

* High impact resistant gypsum wall board will be standard wall finish (up to 5' above finish floor) with metal corner guards in all high traffic areas. Painted CMU in ath needed.

APPENDIX	ROO	om data s	CHEDULI	E 77
Technology	Window	Treatments		
Marker board				
Marker board				
Marker board				
Marker board				
White Board	blackout	shades		
		_		
Marker board				
nletic and performing a	rts spaces, and o	ther spaces	as	



APPENDIX LEED SCORE CARD

APPENDIX

1

3

2

1

1



3

2

Credit

Credit

Credit

Credit

LEED v4 for BD+C: Schools

Rainwater Management

Light Pollution Reduction

Heat Island Reduction

Site Master Plan

Project Checklist

Y	?	Ν		
1			Credit	Integrative Process

6	2	22	Loca	tion and Transportation	15	Rem
		15	Credit	LEED for Neighborhood Development Location	15	
1			Credit	Sensitive Land Protection	1	
		2	Credit	High Priority Site	2	
2		3	Credit	Surrounding Density and Diverse Uses	5	
1	1	2	Credit	Access to Quality Transit	4	
1			Credit Bicycle Facilities		1	
	1		Credit	Reduced Parking Footprint	1	
1			Credit	Green Vehicles	1	
3	6	3	Sust	ainable Sites	12	
Υ			Prereq	Construction Activity Pollution Prevention	Required	
Υ			Prereq	Environmental Site Assessment	Required	
1			Credit	Site Assessment	1	
		2	Credit	Site Development - Protect or Restore Habitat	2	
	1		Credit	Open Space	1	

1			Credit	Joint Use of Facilities	1
5	0	7	Water	Efficiency	12
Υ			Prereq	Outdoor Water Use Reduction	Required
Υ			Prereq	Indoor Water Use Reduction	Required
Y			Prereq	Building-Level Water Metering	Required
2			Credit	Outdoor Water Use Reduction	2
2		5	Credit	Indoor Water Use Reduction	7
		2	Credit	Cooling Tower Water Use	2
1			Credit	Water Metering	1

12	4	15	Energ	gy and Atmosphere	31
Y			Prereq	Fundamental Commissioning and Verification	Required
Y			Prereq	Minimum Energy Performance	Required
Υ			Prereq	Building-Level Energy Metering	Required
Υ			Prereq	Fundamental Refrigerant Management	Required
6	0		Credit	Enhanced Commissioning	6
4	4	8	Credit	Optimize Energy Performance	16
1			Credit	Advanced Energy Metering	1
		2	Credit	Demand Response	2
		3	Credit	Renewable Energy Production	3
1			Credit	Enhanced Refrigerant Management	1
		2	Credit	Green Power and Carbon Offsets	2

Project Name: Prince George's County Prototype Schools - Master Scorecard Date: 9/2/2020

7	1	5	Mater	ials and Resources	13
Y			Prereq	Storage and Collection of Recyclables	Required
Υ			Prereq	Construction and Demolition Waste Management Planning	Required
		5	Credit	Building Life-Cycle Impact Reduction	5
2			Credit	Building Product Disclosure and Optimization - Environmental Product Declarations	2
2			Credit	Building Product Disclosure and Optimization - Sourcing of Raw Materials	2
2			Credit	Building Product Disclosure and Optimization - Material Ingredients	2
1	1		Credit	Construction and Demolition Waste Management	2
13	2	1	Indoc	or Environmental Quality	16
Υ			Prereq	Minimum Indoor Air Quality Performance	Required
Y			Prereq	Environmental Tobacco Smoke Control	Required
Y			Prereq	Minimum Acoustic Performance	Required
1	1		Credit	Enhanced Indoor Air Quality Strategies	2
3			Credit	Low-Emitting Materials	3
1			Credit	Construction Indoor Air Quality Management Plan	1
2			Credit	Indoor Air Quality Assessment	2
1			Credit	Thermal Comfort	1
2			Credit	Interior Lighting	2
1	1	1	Credit	Daylight	3
1			Credit	Quality Views	1
1			Credit	Acoustic Performance	1
3	3	0	Innov	ration	6
2	3		Credit	Innovation	5
1	-		Credit	LEED Accredited Professional	1
3	1	0	Regio	onal Priority	4
Ū	1		Credit	Regional Priority: Reduced Parking Footprint	1
1	<u> </u>		Credit	Regional Priority: Bicycle Facilities	1
			Credit	Regional Priority: Joint Use of Facilities	1
			Credit	Regional Priority: Access to Quality Transit	1
•					·
53	19	53	TOTA	LS Possible Point	s: 110

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



EXHIBIT E-6

CONSTRUCTION SCHEDULE FOR SOUTHERN AREA K-8 SCHOOL

vity ID	Activity Name	Original Start		Finish	Total Float	at
		Duration	oturt		Total Tioat	2021 2022 2023
PGCPS Pro	posal Design & Construction Schedule - December Cl	ose Perr	mit Change	es		
Key Mileston	nes					
M-0990	Limited Design NTP - ENA	0	22-Oct-20		1	1 ◆ Limited Design NTP - ENA
M-1000	Full Design NTP	0	18-Dec-20		0	0 ◆ Full Design NTP
M-1030	Start Building Construction	0	08-Sep-21		470	0 🔶 Start Building Construction
M-1010	Design Finish	0		27-Jan-22	125	5 Design Finish
M-1040	All Schools Occupied	0		14-Jul-23*	0	0 ♦ All Schools Qo
M-1050	All Phase II (fields/demo) Complete	0		28-Dec-23	0	
Preconstruc	ction Administration					
A1000	RFP Submitted	1	14-Sep-20	14-Sep-20	0	0 RFP Submitted
A1010	Design Presentation to PGCPS		21-Sep-20	21-Sep-20	0	Ol Design Presentation to PGCPS
A1020	PGCPS Notifies intent to Award		09-Oct-20	09-Oct-20	0	0 PGCPS Notifies intent to Award
A1030	PGCPS Board Meeting		21-Oct-20	21-Oct-20	0	0 I PGCPS Board Meeting
A1040	PGCPS Notifies Successful Bidder	0	000 00	21-Oct-20	0	0 ◆ PGCPS Notifies Successful Bidder
A1050	ENA Executed	1	21-Oct-20	21-Oct-20	0	0 I ENA Executed
M-0995	Limited NTP - Design ENA		22-Oct-20	21 000 20	1	1 ♦ Limited NTP - Design ENA
A1080	Budget Review & Alignment Meeting		26-Oct-20	26-Oct-20	34	=======================================
A1060	Provide Proposal Security		21-Oct-20	27-Oct-20	36	
A1070	Deliver PGCPS Activities List		21-Oct-20	27-Oct-20	36	≤ : : : : : : : : : : : : : : : : : :
A1090	GBCO Price on VE to Fengate		22-Oct-20	20-Nov-20	15	~ ; <u>.</u> ;; ; ; ; , ; ; ; ; ; ; ; ; ; ;
A1100	Budget Team Review No 2		20-Nov-20	20-Nov-20	15	
A1120	Conclude PA Negotiations		22-Oct-20	20-Nov-20	15	
A1160	Post Financial Close Security		22-Oct-20	25-Nov-20	0	0 Post Financial Close Security
A1140	Benchmark Interest Rates Due		22-Oct-20	03-Dec-20	7	7 E Benchmark Interest Rates Due
A1150	Final Availability Payment Proposal		22-Oct-20	10-Dec-20	2	7 Final Availability Payment Proposal
A1170	Commercial Close		15-Dec-20	15-Dec-20	0	Ω Commercial Close
M-1090	NTP for full Design		18-Dec-20	15 Dec 20	0	ο ∧ NTP for full Design
A1180	Financial Close		18-Dec-20	18-Dec-20	0	Ω I Financial Close
A1130	Community Engagment Activities 6 Meetings		22-Oct-20	18-Jan-21	2	2 Community Engagment Activities 6 Meetings
A1110	Budget Team Review No 3 - Link from SD Design Completion		19-Apr-21	19-Apr-21	682	
M-1060	Community Engagement		18-Dec-20	08-Jun-21	24	A Community Engagement
M-1070	Workforce Development Plan		18-Dec-20	08-Jun-21	24	4 Workforce Development Plan
M-1080	MBE Outreach		18-Dec-20	08-Jun-21	24	
	ern Area K-8 School	120	10 Dec 20		27	
New Southern						
Rough Gradin			<u></u>			
	530 Confirm Delineations Prepare and File for NRI letter of Exemp	20	22-Oct-20	03-Dec-20	30	O Confirm Delineations Prepare and File for NRI letter of Exemption
	810 Prepare HPA Plan for WSSC		22-Oct-20 22-Oct-20	10-Dec-20	70	<u></u>
	520 Design Surveys and Utility Designations		22-Oct-20	10-Dec-20	180	♥ : <u></u> : : : : : : : : : : : : : : : : : :
	520 Design Surveys and Othicy Designations 550 Prepare Stormwater Concept Plans		22-Oct-20	24-Dec-20	25	
	500 MNCPPC Process Time for NRI Exemption		04-Dec-20	24-Dec-20 25-Jan-21	30	
	790 Prepare TCP 1 Plan		26-Jan-21	08-Feb-21	30	
	850 Prepare Sediment Control Concept Plans		05-Jan-21	15-Feb-21	0	O Prepare Sediment Control Concept Plans
	800 MNCPPC Process Time for TCP 1 Approval		03-Jan-21 09-Feb-21	08-Mar-21	30	
r utr 3 - 200		20	09-1 00-21		50	21
nish Date: 28-Dec-2	Remaining Level of Effort Remaining Wo	rk 🔺		l Milestones		
ta Date: 14-Sep-20					PGC	CPS Proposal Design Construction
Date: 02-Dec-20		•		סווכ		hedule - December Close Permit Gibane

ity ID	Activity Name	Original Start	Finish	Total Float				
,	,	Duration			2021			
	Draces through DDIE Deview and Amproved of Concernt Dian	55 28-Dec-20	15 Mar 21	25	SONDJFMAMJJJulASONDJFFMAMAM Process through DPIE Review and Approval			
	Process through DPIE Review and Approval of Concept Plan	30 16-Feb-21	15-Mar-21 29-Mar-21	25				
	Process through SCD Review and Approval of the Concept P	90 11-Dec-20		0	ter e e <u>n la elle elle</u> r elle elle elle elle elle el			
	Processing Time with WSSC to obtain approval LOF	20 30-Mar-21	19-Apr-21	70 15				
	Prepare TCP2 Plan		26-Apr-21		Prepare sediment control plan for tree			
	Prepare sediment control plan for tree clearing and rough gr MNCPPC Process Time for TCP 2 Approval	30 30-Mar-21 30 27-Apr-21	10-May-21 08-Jun-21	0 15	MNCPPC Process Time for TCP 2 A			
	Process Final Sediment Control Plans through SCD for Appro	30 27-Api-21 30 11-May-21	22-Jun-21	12	Process Final Sedment Control Pl			
	Rough Grading Permit Issued Anticipated	0	22-Jun-21 29-Jun-21	0	 Rough Grading Permit Issued Anti 			
	Process Rough Grading Sediment Control Plan PGSCD/DPIE	35 11-May-21	29-Jun-21	0				
Final Grading Perm		55 11-Widy-21	29-Juli-21	0				
	Prepare Detailed Site and Grading Plan	30 21-Jan-21	03-Mar-21	98	Prepare Detailed Site and Grading Plan			
	Design of Site Layout and Grading Plans in Coordination with	65 18-Dec-20	22-Mar-21	702	Design of Site Layout and Grading Plans in (
	Prepare Landscape Plans for Tree Planting	25 04-Mar-21	07-Apr-21	98	Prepare Landscape Plans for Tree Planting			
	Landscape Plans Submitted to MNCPPC for Review	25 08-Apr-21	12-May-21	113	Landscape Plans Submitted to MNCPI			
	On-Site Water and Sewer Plans	25 20-Apr-21	24-May-21	70	li i i i i i <u></u> i .i .i i i i i i . i i			
	Prepare Site Development and Final SWM/SD Plans	60 02-Mar-21	24-May-21	35				
	Submit Site Plans, LA Plans and Building Plans MNCPPC Mai	40 08-Apr-21	03-Jun-21	98	•			
	Site Development and Final Grading and Sediment Control P	60 16-Mar-21	03-Jun-21	35				
	Process Through DPIE for Technical Approval of Final SWM P	50 25-May-21	04-Aug-21	35				
	Final Grading Permit Issued Anticipated	0	04-Aug-21 01-Sep-21	35	Final Grading Permit Issued			
	Submit and Process SDFG Permit through DPIE For Site Perm	70 25-May-21	01-Sep-21	35				
	Process Through PGSCD for Approvals	60 09-Jun-21	01-Sep-21	35	•			
	Process Through WSSC for Approval and Permits	100 25-May-21	14-Oct-21	70				
Foundation to Grad		100 25-10189-21	14-001-21	70				
PGCPS - 22360	QA/QC FTG Permit Package	2 11-Aug-21	12-Aug-21	11	I QA/QC FTG Permit Package			
	Prepare DD Building Plans (85% Complete), MEP Underslab	58 21-May-21	12-Aug-21	11	Prepare DD Building Plans (8			
	QA/QC Resolution & Finalize Package	3 13-Aug-21	17-Aug-21	11	QA/QC Resolution & Finalize			
	PGCPS Review & Comments	10 18-Aug-21	31-Aug-21	11	PGCPS Review & Comment			
	Comment Resolution	5 01-Sep-21	08-Sep-21	11	Comment Resolution			
	Foundation to Grade Permit Issued Anticipated	0	06-Oct-21	11	🔶 Foundation to Grade P			
	Submit and Process Foundations to Grade Building Permit	20 09-Sep-21	06-Oct-21	11				
Structural Steel Per								
PGCPS - 23110	QA/QC FTG Permit Package	2 25-Aug-21	26-Aug-21	21	I QA/QC FTG Permit Package			
PGCPS - 23080	Prepare DD Building Plans (85% Complete), MEP Underslab	68 21-May-21	26-Aug-21	21	Prepare DD Building Plans (
	QA/QC Resolution & Finalize Package	3 27-Aug-21	31-Aug-21	21	🛛 QA/QC Resolution & Finali			
PGCPS - 23130	PGCPS Review & Comments	10 01-Sep-21	15-Sep-21	21	🗖 PGCPS Review & Comme			
PGCPS - 23140	Comment Resolution	5 16-Sep-21	22-Sep-21	21	Comment Resolution			
PGCPS - 23100	Structural Steel Permit Issued Anticipated	0	27-Dec-21	21	🔶 Structural Stee			
PGCPS - 23090	Submit and Process Structural Steel Permit	65 23-Sep-21	27-Dec-21	21	Submit and Pro			
Full Building Permi	it							
PGCPS - 22000	Building Permit Package Development	5 24-Aug-21	30-Aug-21	27	🛛 Building Permit Package De			
PGCPS - 21990	Complete CD Level Building Plans	70 21-May-21	30-Aug-21	27	Complete CD Level Building			
PGCPS - 22010	QA/QC Building Permit Package	5 31-Aug-21	07-Sep-21	27	QA/QC Building Permit Pa			
PGCPS - 22020	QA/QC Resolution & Finalize Package	5 08-Sep-21	14-Sep-21	27	QA/QC Resolution & Final			
PGCPS - 22030	PGCPS Review & Comment	10 15-Sep-21	28-Sep-21	27	🔲 PGCPS Review & Comm			
PGCPS - 22040	Comment Resolution	5 29-Sep-21	05-Oct-21	27				
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	Activity Name	Original Start	Finish	Total Float		
ty ID	Activity Name	Duration	Finish			2021 2022 2023
					SONC	
PGCPS - 22050	0 Submit and Process Full Building Permit DPIE	50 06-Oct-21	16-Dec-21	27		Submit and Process Full Building Permit DPIE
	0 Full Building Permit Issued Anticipated	0	27-Dec-21	21		Full Building Permit Issued Anticipated
lew Southern Civ						
100% Schematic D	Design					
PGCPS - 18500	0 Schematic Design Development	35 22-Oct-20	10-Dec-20	13		Schematic Design Development
PGCPS - 1851(0 Internal Review QA/QC	2 11-Dec-20	14-Dec-20	13		Internal Review QA/QC
PGCPS - 18514	4 Schematic Design Development	65 15-Dec-20	17-Mar-21	13	1	Schematic Design Development
	6 Internal Review QA/QC	2 18-Mar-21	19-Mar-21	13		I Internal Review QA/QC
PGCPS - 1855(0 Submit Schematic Design to Gilbane	0	23-Mar-21	13		◆ Submit Schematic Design to Gilbane
	0 Package Finalization	2 22-Mar-21	23-Mar-21	13		l Package Finalization
	0 Gilbane Review Schematic Design	3 24-Mar-21	26-Mar-21	13		I Gilbane Review Schematic Design
	0 Schematic Design Gilbane Comment Resolution	5 29-Mar-21	02-Apr-21	13		Schematic Design Gilbane Comment Resolution
	0 Submit Schematic Design to PGCPS/PGC	0	02-Apr-21	21		Submit Schematic Design to PGCPS/PGC
	0 PGCPS/PGC Review & Comments	10 05-Apr-21	16-Apr-21	21		PGCPS/PGC Review & Comments
	lopment Documents	10 05-Api-21	10-Api-21	Z1		
	0 Design Development	50 05-Apr-21	14-Jun-21	13		Design Development
						Internal Review QA/QC
	0 Internal Review QA/QC	3 15-Jun-21	17-Jun-21	13		 Submit Design Development to Gilbane
	0 Submit Design Development to Gilbane	0	21-Jun-21	13		
	0 Package Finalization	2 18-Jun-21	21-Jun-21	13		Package Finalization
	0 Gilbane Review Design Development	3 22-Jun-21	24-Jun-21	13		I Gilbane Review Design Development
	0 Design Development Gilbane Comment Resolution	5 25-Jun-21	01-Jul-21	13		Design Development Gilbane Comment Resolution
	0 Submit Design Development to PGCPS/PGC	0	01-Jul-21	13		 Submit Design Development to PGCPS/PGC
	0 PGCPS/PGC Review & Comments	10 02-Jul-21	16-Jul-21	13		PGCPS/PGC Review & Comments
	lopment Documents					
	0 Design Development	50 02-Jul-21	13-Sep-21	186		Design Development
PGCPS - 18670	0 Internal Review QA/QC	3 14-Sep-21	16-Sep-21	186		I Internal Review QA/QC
PGCPS - 18700	0 Submit Design Development to Gilbane	0	20-Sep-21	186		 Submit Design Development to Gilbane
PGCPS - 1868(0 Package Finalization	2 17-Sep-21	20-Sep-21	186		Package Finalization
PGCPS - 1871(0 Gilbane Review Design Development	3 21-Sep-21	23-Sep-21	186		Gilbane Review Design Development
PGCPS - 1872(0 Design Development Gilbane Comment Resolution	5 24-Sep-21	30-Sep-21	186		Design Development Gilbane Comment Resolution
PGCPS - 1869(0 Submit Design Development to PGCPS/PGC	0	30-Sep-21	186		Submit Design Development to PGCP\$/PGC
inal Construction						
PGCPS - 1873(0 PGCPS/PGC Review & Comments	10 01-Oct-21	14-Oct-21	186		PGCP\$/PGC Review & Comments
PGCPS - 1874(0 Final Construction Documents Comments Resolution	10 15-Oct-21	28-Oct-21	186		Final Construction Documents Comments Resolution
w Southern Fo	oundations and SOG - Design					
00% Schematic D	Design					
PGCPS - 1875(0 Schematic Design - Setup & Initial Development	40 22-Oct-20	17-Dec-20	5		I Schematic Design - Setup & Initial Development
PGCPS - 1877(0 Schematic Design Development	41 18-Dec-20	16-Feb-21	5		Schematic Design Development
	0 Internal Review QA/QC	5 17-Feb-21	23-Feb-21	5		I Internal Review QA/QC
	0 Submit Schematic Design to Gilbane	0	26-Feb-21	5		◆ Submit Schematic Design to Gilbane
	0 Package Finalization	3 24-Feb-21	26-Feb-21	5		l Package Finalization
	0 Gilbane Review Schematic Design	5 01-Mar-21	05-Mar-21	5		I Gilbane Review Schematic Design
	0 Schematic Design Gilbane Comment Resolution	5 01-Mai-21	12-Mar-21			Schematic Design Gilbane Comment Resolution
	0 Submit Schematic Design to PGCPS/PGC	0	12-Mar-21	00		 Submit Schematic Design to PGCPS/PGC
	0 PGCPS/PGC Review & Comments	10 15-Mar-21	26-Mar-21	80 80		■ PGCPS/PGC Review & Comments
DCCDC 10010				×()	1 1 1 1	

Run Date: 02-Dec-20 10:02 Page 3 of 12

Actual Work

Summary Milestones

Schedule - December Close Permit



CPS Proposal Design Construction Schedule - December Close Permit Changes			Update View	·				02-Dec-2
y ID Activity Name	Original Start Duration	Finish	Total Float		2021	2022		2023
						SONDJFMAMJJul	ASONDJFMA	M J Jul A S O
PGCPS - 18850 Design Development	30 15-Mar-21	23-Apr-21	5		Design Devel		I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I	
PGCPS - 18860 Internal Review QA/QC	2 26-Apr-21	27-Apr-21	5		I Internal Revi			
PGCPS - 18870 Design Development cont.	24 28-Apr-21	01-Jun-21	5			evelopment cont.		
PGCPS - 18880 Internal Review QA/QC	2 02-Jun-21	03-Jun-21	5			Review QA/QC		
PGCPS - 19410 Design Development cont.	20 04-Jun-21	01-Jul-21	5			n Development cont.		
PGCPS - 19420 Internal Review QA/QC	4 02-Jul-21	08-Jul-21	5			nal Review QA/QC		
PGCPS - 18920 Submit Design Development to Gilbane	0	13-Jul-21	5			nit Design Development to Gilba	ne	
PGCPS - 18890 Package Finalization	3 09-Jul-21	13-Jul-21	5			age Finalization		
PGCPS - 18930 Gilbane Review Design Development	5 14-Jul-21	20-Jul-21	5			ane Review Design Developmen		· · · · · · · · · · · · · · · · · · ·
PGCPS - 18940 Design Development Gilbane Comment Resolution	5 21-Jul-21	27-Jul-21	5			sign Development Gilbane Comr		
PGCPS - 18900 Submit Design Development to PGCPS/PGC	0	27-Jul-21	49		🔶 Sub	omit Design Development to PG	CPS/PGC	
PGCPS - 18910 PGCPS/PGC Review & Comments	10 28-Jul-21	10-Aug-21	49		🗖 PC	GCPS/PGC Review & Comments		
95% Design Development Documents		,						
PGCPS - 18950 Design Development	10 28-Jul-21	10-Aug-21	5			esign Development	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·
PGCPS - 18960 Internal Review QA/QC	2 11-Aug-21	12-Aug-21	5		l I In	iternal Review QA/QC		
PGCPS - 18970 Design Development cont.	35 13-Aug-21	01-Oct-21	5			Design Development cont.		
PGCPS - 18980 Internal Review QA/QC	4 04-Oct-21	07-Oct-21	5			Internal Review QA/QC		
PGCPS - 19010 Submit Design to Gilbane	0	12-Oct-21	5			 Submit Design to Gilbane 		
PGCPS - 18990 Package Finalization	3 08-Oct-21	12-Oct-21	5			Package Finalization		
PGCPS - 19020 Gilbane Review Design Development	5 13-Oct-21	19-Oct-21	5			Gilbane Review Design Dev		
PGCPS - 19030 Design Development Gilbane Comment Resolution	5 20-Oct-21	26-Oct-21	168			Design Development Gilba	ine Comment Resolution	
PGCPS - 19000 Submit Design Development to PGCPS/PGC	0	26-Oct-21	168			 Submit Design Developme 	ent to PGCPS/PGC	
Final Construction Documents								
PGCPS - 19040 PGCPS/PGC Review & Comments	10 27-Oct-21	09-Nov-21	168			PGCPS/PGC Review & Co		
PGCPS - 19050 Final Construction Documents Comments Resolution	10 10-Nov-21	23-Nov-21	168			Final Construction Doc	uments Comments Resolu	tion
lew Southern Structural Steel								
100% Schematic Design								
PGCPS - 23150 Schematic Design - Setup & Initial Development	40 22-Oct-20	17-Dec-20	21		Schematic Design - Setup		i i i i i i i i i I I I I I I I I I I I I I I	
PGCPS - 23170 Schematic Design Development	41 18-Dec-20	16-Feb-21	21		Schematic Design D		· · · · · · · · · · · · · · · · · · ·	
PGCPS - 23180 Internal Review QA/QC	5 17-Feb-21	23-Feb-21	21		I Internal Review QA			
PGCPS - 23220 Submit Schematic Design to Gilbane	0	26-Feb-21	21		Submit Schematic			
PGCPS - 23190 Package Finalization	3 24-Feb-21	26-Feb-21	21		Package Finalizatio			
PGCPS - 23230 Gilbane Review Schematic Design	5 01-Mar-21	05-Mar-21	21		Gilbane Review Sc			
PGCPS - 23240 Schematic Design Gilbane Comment Resolution	5 08-Mar-21	12-Mar-21	21			n Gilbane Comment Resolution	· · · · · · · · · · · · · · · · · · ·	
PGCPS - 23200 Submit Schematic Design to PGCPS/PGC	0	12-Mar-21	106			c Design to PGCPS/PGC		
PGCPS - 23210 PGCPS/PGC Review & Comments 65% Design Development Documents	10 15-Mar-21	26-Mar-21	106		PGCPS/PGC Rev	view & comments		
	20 45 Mar 24	22 4	24		💻 Design Devel	lonment		
PGCPS - 23250 Design Development	30 15-Mar-21	23-Apr-21	21		I Internal Revi		I I I I I I I I I I I I I I I I I I I I I	
PGCPS - 23260 Internal Review QA/QC	2 26-Apr-21	27-Apr-21	21			Development cont.		
PGCPS - 23270 Design Development cont.	30 28-Apr-21	09-Jun-21	21			Review QA/QC		
PGCPS - 23280 Internal Review QA/QC	2 10-Jun-21	11-Jun-21	21			gn Development cont.		
PGCPS - 23350 Design Development cont.	24 14-Jun-21	16-Jul-21	21			ernal Review QA/QC		
PGCPS - 23360 Internal Review QA/QC	4 19-Jul-21	22-Jul-21	21			omit Design Development to Gill	ane	
PGCPS - 23320 Submit Design Development to Gilbane		27-Jul-21	21			ckage Finalization		· · · · · · · · · · · · · · · · · · ·
PGCPS - 23290 Package Finalization	3 23-Jul-21	27-Jul-21	21			lbane Review Design Developme	nt	
PGCPS - 23330 Gilbane Review Design Development	5 28-Jul-21	03-Aug-21	21			יישטול וולאולא הבאצוו הבאבוסטווה		
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PGCPS - 19380	Internal Review QA/QC	2 17-Sep-21	20-Sep-21	145	I Internal Review QA/QC
	Design Development cont.	15 21-Sep-21	11-Oct-21	145	📮 Design Development con
	Internal Review QA/QC	2 12-Oct-21	13-Oct-21	145	I Internal Review QA/QC
	Design Development cont.	15 14-Oct-21	03-Nov-21	145	🔲 Design Development d
	Internal Review QA/QC	4 04-Nov-21	09-Nov-21	145	I Internal Review QA/C
	Submit Design Development to Gilbane	0	12-Nov-21	145	Submit Design Development
	Package Finalization	3 10-Nov-21	12 Nov 21	145	I Package Finalization
	Gilbane Review Design Development	5 15-Nov-21	12-Nov-21	145	I Gilbane Review Des
	Design Development Gilbane Comment Resolution	5 22-Nov-21	30-Nov-21	145	Design Developme
	Submit Design Development to PGCPS/PGC	0	30-Nov-21	145	◆ Submit Design Dev
Final Construction			30-N0V-21	145	v Subinic Posigi Pov
	PGCPS/PGC Review & Comments	10 01-Dec-21	14-Dec-21	145	PGCPS/PGC Revie
	Final Construction Documents Comments Resolution	10 01-Dec-21 10 15-Dec-21	29-Dec-21	145	Final Construct
Construction Admi		10 15-Dec-21	29-Det-21	145	
GMP Development					
SA-1120	Bid/Develop Steel	20 26-Feb-21	25-Mar-21	37	Bid/Develop Steel
SA-1120	GMP Approval Steel	10 26-Mar-21	08-Apr-21	37	GMP Approval Steel
SA-1130	Award Steel/Exterior Metal Panel / Roof	10 20-Mai-21 10 09-Apr-21		37	Award Steel/Exterior Metal Panel / Roof
			22-Apr-21		Bid/Develop GMP Site/Utilities
SA-1210	Bid/Develop GMP Site/Utilities	15 19-Apr-21	07-May-21	21	□ GMP Approval Site/Utilities
SA-1220	GMP Approval Site/Utilities	10 10-May-21	21-May-21	21	Award Critical Packages - Site Demo
SA-1190	Award Critical Packages - Site Demo, Sitework, & Utilities	10 24-May-21	07-Jun-21	21	
SA-1230	Bid/Develop GMP Foundations/MEP Underground	20 20-Oct-21	16-Nov-21	5	🛱 Bid/Develop GMP F
SA-1240	GMP Approval Foundations/MEP	10 17-Nov-21	02-Dec-21	5	
SA-1200	Award Foundations//MEP	15 03-Dec-21	23-Dec-21	35	Award Foundat
SA-1250	Bid/Develop Final GMP	20 03-Dec-21	03-Jan-22	5	🔲 Bid/Develop Fi
SA-1260	Final GMP Approval	10 04-Jan-22	17-Jan-22	5	□_Final GMP Ap
SA-1850	Award Brick/Elevators/Long Lead	15 18-Jan-22	07-Feb-22	5	📮 Award Brick
Administration/Mile					
SA-1180	Construction - Start	0 22-Jul-21		0	Construction - Start
SA-3015	Structure Top Out	0	16-Jun-22	273	• • • • • • • • • • • • • • • • • • • •
SA-3025	Building Dry In	0	03-Nov-22	175	
SA-3005	Start HVAC for Construction Use	0 01-Dec-22		158	
SA-1170	Construction - Substantial Completion	0	22-Jun-23	15	
SA-1160	Construction - Final Completion	0	14-Jul-23	0	
Procurement		i i	1		
SA-1420	Submit Structural Steel	25 23-Apr-21	27-May-21	37	Submit Structural Steel
SA-1430	Approve Structural Steel	10 28-May-21	11-Jun-21	37	Approve Structural Steel
SA-1290	Erosion & Sediment Control Submittals	5 08-Jun-21	14-Jun-21	21	Erosion & Sediment Control Submit
SA-1450	Site Utilities Submittals	10 08-Jun-21	21-Jun-21	56	Site Utilities Submittals
SA-1300	Erosion & Sediment Control Approvals	5 15-Jun-21	21-Jun-21	21	Erosion & Sediment Control Appro
SA-1470	Site Utilities Submittal Approvals	10 22-Jun-21	06-Jul-21	56	Site Utilities Submittal Approvals
SA-1460	Concrete Submittals	25 08-Jun-21	13-Jul-21	81	Concrete Submittals
SA-1480	Concrete Submittal Approvals	10 14-Jul-21	27-Jul-21	81	Concrete Submittal Approvals
SA-1440	Deliver Steel/Exterior Wall System/Roof	120 14-Jun-21	02-Dec-21	37	Deliver Steel/Exter
	Roofing Submittals	20 08-Feb-22	07-Mar-22	55	📫 Roofing
SA-1390					

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SA-1400	Activity Name	Original Start Duration	Finish	Total Float	2021 J F M A M J Jul A S	S O N D J F M A M
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	Approvo Pooting Submittals	10 08-Mar-22	21-Mar-22	55		
	Approve Roofing Submittals Submit Mechanical/Electrical Equipment	30 08-Feb-22	21-Mar-22 21-Mar-22	60		Sub
SA-1320 SA-1280	Approve Brick	10 08-Mar-22	21-Mar-22 21-Mar-22	50		□ App
SA-1280 SA-1350	Submit Elevator	40 08-Feb-22	04-Apr-22	75		
		15 22-Mar-22		60		A
SA-1330 SA-1410	Approve Mechanical/Electrical Equipment Deliver Roofing	30 22-Mar-22	11-Apr-22			
			02-May-22			
SA-1360	Approve Elevator Fab & Deliver Storefront	20 05-Apr-22 50 22-Mar-22	02-May-22			
SA-1380			31-May-22			
SA-1310	Fab & Deliver Brick	50 22-Mar-22	31-May-22			
SA-1340	Fab & Deliver Mechanical Equipment	80 12-Apr-22	03-Aug-22	60		
SA-1370 Construction	Fab & Deliver Elevator	80 03-May-22	24-Aug-22	75		·
Site Utilities						
	Mabiliza Construction Team	10 00 101 24	21 1.1 24			bilize Construction Team
SA-1490	Mobilize Construction Team	10 08-Jul-21	21-Jul-21	0		diment & Erosion Contr
SA-1500	Sediment & Erosion Control	10 22-Jul-21	04-Aug-21	0	- Sec	Site Clearing
SA-3570	Site Clearing	30 05-Aug-21	16-Sep-21	0	 	SWM / Bioretention
SA-1530	SWM / Bioretention	30 05-Aug-21	16-Sep-21	35		Early Site Utilities
SA-1520	Early Site Utilities	40 02-Sep-21	28-Oct-21	15		
SA-1510 Foundation/Struc	Grade Site	55 02-Sep-21	18-Nov-21	0		Grade Site
	ĺ	45 OC 1-1 22	26 1 22			Elevator
SA-1610	Elevator Pits	15 06-Jan-22	26-Jan-22	0	 	
SA-1600	Foundations/SOG/Anchor Bolt Survey	100 19-Nov-21	13-Apr-22	0		
SA-1620	Erect Steel/Metal Decks/Detailing	90 27-Jan-22	02-Jun-22	0		
SA-1630 Exterior / Roof	Reinforce/Place Concrete Metal Decks	30 05-May-22	16-Jun-22	0		
SA-2910	Frame Knee Wall / Densglass / Waterproofing	40 28-Apr-22	23-Jun-22	18		
SA-2870	Erect Construction Hoist/Exterior Temp Access Stairs	20 17-Jun-22	15-Jul-22	148		
SA-1570	Insulation & Metal Roofing	30 03-Jun-22	15-Jul-22	33		
SA-2920	TPO Roofing @ Connectors	20 18-Jul-22	12-Aug-22	56		
SA-1550	Install Brick Exterior Walls	60 01-Jun-22	24-Aug-22	5		
SA-1550	Exterior Wall System	60 22-Jun-22	15-Sep-22	5		
SA-1540	Building Dry In Summary	113 28-Apr-22	06-Oct-22	5	 	
SA-1555 SA-1560	Punch Windows	60 14-Jul-22	06-Oct-22			
SA-1300 SA-2710	CW/Storefront Systems	20 07-Oct-22	03-Nov-22			
SA-2710 SA-2880	Remove Construction Hoist	10 13-Dec-22	27-Dec-22	45		
SA-2880	Close In Hoist Area	10 13-Dec-22 10 28-Dec-22	11-Jan-23	45		
SA-2890	Catch Up Hoist Area Finishes	10 28-Dec-22 10 12-Jan-23	25-Jan-23	45		
MEP Systems		TO TT-JUILT?	23-3011-23	40		
SA-1880	Risers	45 17-Jun-22	19-Aug-22	23		
SA-1800	Main Electrical Room Fit Out	45 24-Jun-22	26-Aug-22	58		
SA-1570	Set Chiller/Connect	20 08-Aug-22	02-Sep-22	58		
SA-1380	Main Mechanical Room Fit Out	60 17-Jun-22	12-Sep-22	68	 $\begin{array}{cccccccccccccccccccccccccccccccccccc$	
SA-1500	Set RTUs, DOAUs, and VRUs/Connect	15 06-Sep-22	26-Sep-22	58		
SA-1390 SA-1890	Mechanical/Electrical/Plumbing Mains, Feeders/Trunk Lines	60 22-Aug-22	14-Nov-22	23		
SA-1890 SA-1900	Start Up HVAC Systems	10 15-Nov-22	30-Nov-22			
SA-1900 Elevator / Stairs		10 13-100-22	130-INUV-ZZ	23		

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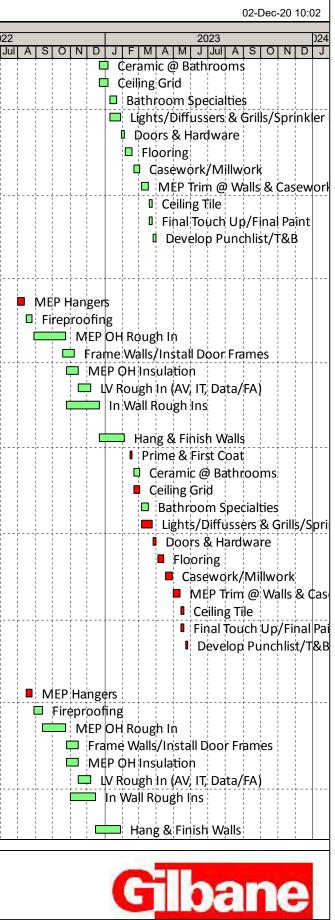
SA-1730 B SA-1720 Si SA-1740 Fi SA-1790 Ei SA-1760 Ei SA-1770 P SA-1780 H SA-1750 Si	ctivity Name uild Elevator Shaft et Metal Pan Stairs ill Treads levator Equipment levator Rails	Original Duration Start 20 09-Sep-22 30 25-Aug-22 10 07-Oct-22 15 27	Finish 06-Oct-22 06-Oct-22	Total Float 5 45	OND	JFM		2021 J Jul /	ASO		JF	MA	202 M J
SA-1720 Sa SA-1740 Fi SA-1790 Ei SA-1760 Ei SA-1770 P SA-1780 H SA-1750 S	et Metal Pan Stairs ill Treads levator Equipment	30 25-Aug-22 10 07-Oct-22				JFM		J Jul 1	AISIO		JF		MJ
SA-1720 Sa SA-1740 Fi SA-1790 Ei SA-1760 Ei SA-1770 P SA-1780 H SA-1750 S	et Metal Pan Stairs ill Treads levator Equipment	30 25-Aug-22 10 07-Oct-22					1 1 1			1 1		1 1 1	
SA-1740 Fi SA-1790 Ei SA-1760 Ei SA-1770 P SA-1780 H SA-1750 S	ill Treads levator Equipment	10 07-Oct-22		99						1		1 1 1	
SA-1790 E SA-1760 E SA-1770 P SA-1780 H SA-1750 S	levator Equipment		20-Oct-22										
SA-1760 E SA-1770 P SA-1780 H SA-1750 S				99									
SA-1770 P SA-1780 H SA-1750 S	levator Ralis	15 07-Oct-22	27-Oct-22	45									
SA-1780 H SA-1750 S		15 07-Oct-22	27-Oct-22	45	÷								
SA-1750 S	aint Stairwell	5 28-Oct-22	03-Nov-22	135									
	andrails	5 04-Nov-22	10-Nov-22	135									
SA-1800 E	prinkler Riser in Stairwell	15 21-Oct-22	10-Nov-22										
	levator Cab	15 28-Oct-22	17-Nov-22	45									
SA-1810 E Academic Wing - MS	levator Finishes	15 18-Nov-22	12-Dec-22	45									
Floor 1													
Rough In													
	1EP Hangers	10 17-Jun-22	30-Jun-22	0									
	ireproofing	10 17 Jul 22	15-Jul-22	1									
	1EP OH Rough In	30 18-Jul-22	26-Aug-22		······································								
	rame Walls/Install Door Frames	15 29-Aug-22	19-Sep-22	1									
	1EP OH Insulation	15 29-Aug-22 15 29-Aug-22	19-Sep-22	87									
	/ Rough In (AV, IT, Data/FA)	15 29-Aug-22 15 20-Sep-22	19-3ep-22 10-Oct-22	87									
	n Wall Rough Ins	30 20-Sep-22	31-Oct-22	0/									
Finishes		30 20-3ep-22	31-0(1-22		·								
	ang & Finish Walls	30 01-Nov-22	14-Dec-22	1									
	rime & First Coat	5 16-Jan-23	20-Jan-23										
	eramic @ Bathrooms	10 23-Jan-23	03-Feb-23	62									
	eiling Grid	10 23-Jan-23	03-Feb-23	17									
	athroom Specialties	10 23-Jan-23	17-Feb-23	62									
	ghts/Diffussers & Grills/Sprinkler Heads	10 00-Feb-23	24-Feb-23	17									
	oors & Hardware	5 27-Feb-23	03-Mar-23	17									
		10 06-Mar-23	17-Mar-23	17									
	looring	10 00-Mar-23	31-Mar-23	17									
	asework/Millwork											+	
	1EP Trim @ Walls & Casework	10 03-Apr-23	14-Apr-23	17									
	eiling Tile	5 17-Apr-23	21-Apr-23	17									
	inal Touch Up/Final Paint	5 17-Apr-23	21-Apr-23	17									
SA-2100 D Floor 2	evelop Punchlist/T&B	5 24-Apr-23	28-Apr-23	17									
Rough In													
	1EP Hangers	10 01-Jul-22	15-Jul-22	0									
	ireproofing	10 01-Jul-22	29-Jul-22	13									
	1EP OH Rough In	30 01-Aug-22	12-Sep-22	13									
	rame Walls/Install Door Frames	15 13-Sep-22											
	IEP OH Insulation		03-Oct-22	13									
		15 13-Sep-22	03-Oct-22	78									
	/ Rough In (AV, IT, Data/FA)	15 04-Oct-22	24-Oct-22	78									
SA-2160 Ir Finishes	n Wall Rough Ins	30 04-Oct-22	14-Nov-22	13									
	ang & Finish Walls	30 15-Nov-22	29-Dec-22	13									
	rime & First Coat	5 09-Jan-23	13-Jan-23	8									
JA-2100 P			12-Jail-22	o	<u>i i i</u>		<u>i i i</u>	<u> i i </u>		<u> i i </u>	<u> </u>	<u>i i i</u>	<u> i i</u>

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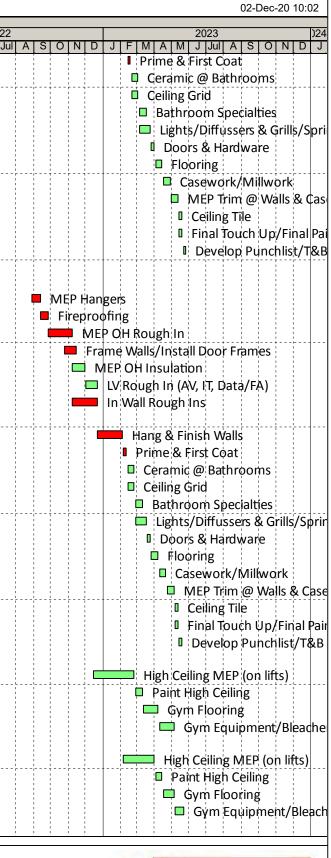
ty ID SA-2280 SA-2190 SA-2290 SA-2200 SA-2200 SA-2200 SA-2210 SA-2220 SA-2220 SA-2240 SA-2270 SA-2270 SA-2250 SA-2300 Floor 3 Rough In SA-2310 SA-2310 SA-2320 SA-2330 SA-2330 SA-2350 SA-2340 SA-2360 Finishes SA-2370 SA-2380	Activity Name Ceramic @ Bathrooms Ceiling Grid Bathroom Specialties Lights/Diffussers & Grills/Sprinkler Heads Doors & Hardware Flooring Casework/Millwork MEP Trim @ Walls & Casework Ceiling Tile Final Touch Up/Final Paint Develop Punchlist/T&B MEP Hangers	Original Duration Start Duration 16-Jan-23 10 16-Jan-23 10 30-Jan-23 10 30-Jan-23 10 30-Jan-23 10 20-Feb-23 10 27-Feb-23 10 27-Mar-23 10 27-Mar-23 10 27-Mar-23 10 27-Mar-23 10 27-Mar-23 10 27-Mar-23 10 10-Apr-23 10 17-Apr-23	Finish 27-Jan-23 27-Jan-23 10-Feb-23 17-Feb-23 24-Feb-23 10-Mar-23 24-Mar-23 07-Apr-23 14-Apr-23 14-Apr-23 21-Apr-23	Total Float 68 68 23 68 23 23 23 23 23 23 23 23			2021 A M J Ju	I A S O	JFM	AN
SA-2190 SA-2290 SA-2200 SA-2260 SA-2210 SA-2220 SA-2240 SA-2270 SA-2250 SA-2300 Floor 3 Rough In SA-2310 SA-2320 SA-2330 SA-2330 SA-2330 SA-2340 SA-2340 SA-2340 SA-2360 Finishes SA-2370	Ceiling Grid Bathroom Specialties Lights/Diffussers & Grills/Sprinkler Heads Doors & Hardware Flooring Casework/Millwork MEP Trim @ Walls & Casework Ceiling Tile Final Touch Up/Final Paint Develop Punchlist/T&B	10 16-Jan-23 10 30-Jan-23 15 30-Jan-23 5 20-Feb-23 10 27-Feb-23 10 13-Mar-23 10 27-Mar-23 10 27-Mar-23 10 27-Apr-23 10 10-Apr-23	27-Jan-23 10-Feb-23 17-Feb-23 24-Feb-23 10-Mar-23 24-Mar-23 07-Apr-23 14-Apr-23	23 68 23 23 23 23 23 23 23		<u>, </u>			J F M	AIN
SA-2190 SA-2290 SA-2200 SA-2210 SA-2210 SA-2220 SA-2210 SA-2220 SA-2210 SA-2310 SA-2310 SA-2310 SA-2320 SA-2310 SA-2310 SA-2310 SA-2310 SA-2330 SA-2360 SA-2360 Finishes SA-2370	Ceiling Grid Bathroom Specialties Lights/Diffussers & Grills/Sprinkler Heads Doors & Hardware Flooring Casework/Millwork MEP Trim @ Walls & Casework Ceiling Tile Final Touch Up/Final Paint Develop Punchlist/T&B	10 16-Jan-23 10 30-Jan-23 15 30-Jan-23 5 20-Feb-23 10 27-Feb-23 10 13-Mar-23 10 27-Mar-23 10 27-Mar-23 10 27-Apr-23 10 10-Apr-23	27-Jan-23 10-Feb-23 17-Feb-23 24-Feb-23 10-Mar-23 24-Mar-23 07-Apr-23 14-Apr-23	23 68 23 23 23 23 23 23 23						
SA-2290 SA-2200 SA-2260 SA-2210 SA-2220 SA-2220 SA-2270 SA-2250 SA-2300 Floor 3 Rough In SA-2310 SA-2310 SA-2320 SA-2330 SA-2330 SA-2330 SA-2340 SA-2340 SA-2360 Finishes SA-2370	Bathroom Specialties Lights/Diffussers & Grills/Sprinkler Heads Doors & Hardware Flooring Casework/Millwork MEP Trim @ Walls & Casework Ceiling Tile Final Touch Up/Final Paint Develop Punchlist/T&B	10 30-Jan-23 15 30-Jan-23 5 20-Feb-23 10 27-Feb-23 10 13-Mar-23 10 27-Mar-23 10 27-Mar-23 10 27-Apr-23 10 10-Apr-23	10-Feb-23 17-Feb-23 24-Feb-23 10-Mar-23 24-Mar-23 07-Apr-23 14-Apr-23 14-Apr-23	68 23 23 23 23 23 23 23					 	
SA-2200 SA-2260 SA-2210 SA-2220 SA-2240 SA-2270 SA-2250 SA-2300 Floor 3 Rough In SA-2310 SA-2310 SA-2320 SA-2330 SA-2330 SA-2330 SA-2350 SA-2340 SA-2360 Finishes SA-2370	Lights/Diffussers & Grills/Sprinkler Heads Doors & Hardware Flooring Casework/Millwork MEP Trim @ Walls & Casework Ceiling Tile Final Touch Up/Final Paint Develop Punchlist/T&B	15 30-Jan-23 20-Feb-23 27-Feb-23 10 27-Feb-23 10 13-Mar-23 10 27-Mar-23 10 27-Mar-23 10 27-Apr-23 10 10-Apr-23 10 10-Apr-23	17-Feb-23 24-Feb-23 10-Mar-23 24-Mar-23 07-Apr-23 14-Apr-23 14-Apr-23	23 23 23 23 23 23 23					 	
SA-2260 SA-2210 SA-2220 SA-2240 SA-2270 SA-2250 SA-2300 Floor 3 Rough In SA-2310 SA-2310 SA-2320 SA-2330 SA-2330 SA-2350 SA-2350 SA-2340 SA-2360 Finishes SA-2370	Doors & Hardware Flooring Casework/Millwork MEP Trim @ Walls & Casework Ceiling Tile Final Touch Up/Final Paint Develop Punchlist/T&B	5 20-Feb-23 10 27-Feb-23 10 13-Mar-23 10 27-Mar-23 10 27-Mar-23 10 27-Apr-23 10 10-Apr-23	24-Feb-23 10-Mar-23 24-Mar-23 07-Apr-23 14-Apr-23 14-Apr-23	23 23 23 23 23						1
SA-2210 SA-2220 SA-2240 SA-2270 SA-2250 SA-2300 Floor 3 Rough In SA-2310 SA-2310 SA-2320 SA-2330 SA-2330 SA-2350 SA-2340 SA-2340 SA-2360 Finishes SA-2370	Flooring Casework/Millwork MEP Trim @ Walls & Casework Ceiling Tile Final Touch Up/Final Paint Develop Punchlist/T&B	10 27-Feb-23 10 13-Mar-23 10 27-Mar-23 5 10-Apr-23 5 10-Apr-23	10-Mar-23 24-Mar-23 07-Apr-23 14-Apr-23 14-Apr-23	23 23 23						+
SA-2220 SA-2240 SA-2270 SA-2250 SA-2300 Floor 3 Rough In SA-2310 SA-2320 SA-2320 SA-2330 SA-2330 SA-2330 SA-2340 SA-2340 SA-2360 Finishes SA-2370	Casework/Millwork MEP Trim @ Walls & Casework Ceiling Tile Final Touch Up/Final Paint Develop Punchlist/T&B	10 13-Mar-23 10 27-Mar-23 5 10-Apr-23 5 10-Apr-23	24-Mar-23 07-Apr-23 14-Apr-23 14-Apr-23	23 23						
SA-2240 SA-2270 SA-2250 SA-2300 Floor 3 Rough In SA-2310 SA-2320 SA-2320 SA-2330 SA-2330 SA-2350 SA-2340 SA-2430 SA-2430 SA-2360 Finishes SA-2370	MEP Trim @ Walls & Casework Ceiling Tile Final Touch Up/Final Paint Develop Punchlist/T&B	10 27-Mar-23 5 10-Apr-23 5 10-Apr-23	07-Apr-23 14-Apr-23 14-Apr-23	23		i	1 1 1			
SA-2270 SA-2250 SA-2300 Floor 3 Rough In SA-2310 SA-2320 SA-2330 SA-2350 SA-2350 SA-2340 SA-2340 SA-2430 SA-2360 Finishes SA-2370	Ceiling Tile Final Touch Up/Final Paint Develop Punchlist/T&B	5 10-Apr-23 5 10-Apr-23	14-Apr-23 14-Apr-23							
SA-2250 SA-2300 Floor 3 Rough In SA-2310 SA-2320 SA-2320 SA-2330 SA-2350 SA-2350 SA-2340 SA-2360 Finishes SA-2370	Final Touch Up/Final Paint Develop Punchlist/T&B	5 10-Apr-23	14-Apr-23	1 22						
SA-2300 Floor 3 Rough In SA-2310 SA-2320 SA-2330 SA-2350 SA-2340 SA-2340 SA-2360 Finishes SA-2370	Develop Punchlist/T&B			23					 	
Floor 3 Rough In SA-2310 SA-2320 SA-2330 SA-2350 SA-2340 SA-2340 SA-2360 Finishes SA-2370		5 17-Apr-23	21-Apr-23	23						
Rough In SA-2310 SA-2320 SA-2330 SA-2350 SA-2340 SA-2340 SA-2360 Finishes SA-2370	MEP Hangers			23						
SA-2310 SA-2320 SA-2330 SA-2350 SA-2340 SA-2430 SA-2430 SA-2360 Finishes SA-2370	MEP Hangers									
SA-2320 SA-2330 SA-2350 SA-2340 SA-2430 SA-2360 Finishes SA-2370		10 18-Jul-22	29-Jul-22	0						
SA-2330 SA-2350 SA-2340 SA-2430 SA-2360 Finishes SA-2370	Fireproofing	10 10 Jul 22	12-Aug-22	2 2					 ·	
SA-2350 SA-2340 SA-2430 SA-2360 Finishes SA-2370	MEP OH Rough In	30 15-Aug-22	26-Sep-22	8						
SA-2340 SA-2430 SA-2360 Finishes SA-2370	Frame Walls/Install Door Frames	15 27-Sep-22	17-Oct-22	8						
SA-2430 SA-2360 Finishes SA-2370	MEP OH Insulation	15 27-Sep-22	17-0ct-22	68						
SA-2360 Finishes SA-2370	LV Rough In (AV, IT, Data/FA)	15 27-3ep-22	07-Nov-22	68						
Finishes SA-2370	In Wall Rough Ins	30 04-Oct-22	14-Nov-22	8					 	
		50 04-001-22	14-1100-22	0						
	Hang & Finish Walls	30 15-Nov-22	29-Dec-22	8						
0.1 2000	Prime & First Coat	5 30-Dec-22	06-Jan-23	8						
SA-2480	Ceramic @ Bathrooms	10 09-Jan-23	20-Jan-23	73						
SA-2390	Ceiling Grid	10 09-Jan-23	20-Jan-23	28	·····				 	
SA-2490	Bathroom Specialties	10 23-Jan-23	03-Feb-23	73						
SA-2400	Lights/Diffussers & Grills/Sprinkler Heads	15 23-Jan-23	10-Feb-23	28						
SA-2460	Doors & Hardware	5 13-Feb-23	17-Feb-23	28						
SA-2400	Flooring	10 20-Feb-23	03-Mar-23	28						
SA-2410	Casework/Millwork	10 20-165-23 10 06-Mar-23	17-Mar-23	28			·		 	
SA-2420	MEP Trim @ Walls & Casework	10 00-Mar-23	31-Mar-23	28						
SA-2440	Ceiling Tile	5 03-Apr-23	07-Apr-23							
SA-2470	Final Touch Up/Final Paint	5 03-Apr-23	07-Apr-23	28 28						
SA-2450	Develop Punchlist/T&B			28						
Floor 4	Develop Punchilst/T&B	5 10-Apr-23	14-Apr-23	28			·		 	+
Rough In										
SA-2510	MEP Hangers	10 01-Aug-22	12-Aug-22	13						
SA-2520	Fireproofing Including Roof Deck	15 15-Aug-22	02-Sep-22	13						
SA-2550	Frame Walls/Install Door Frames	15 27-Sep-22	17-Oct-22	13						
SA-2530	MEP OH Rough In	30 06-Sep-22	17-Oct-22	13						+
SA-2560	In Wall Rough Ins	30 20-Sep-22	31-Oct-22	13						
SA-2540	MEP OH Insulation	15 18-Oct-22	07-Nov-22	53						
SA-2630	LV Rough In (AV, IT, Data/FA)	15 18-0ct-22 15 08-Nov-22	30-Nov-22	53						
Finishes		13 00 100 22								
SA-2570	Hang & Finish Walls	30 01-Nov-22	14-Dec-22	13						
SA-2580 ish Date: 28-Dec-23 a Date: 14-Sep-20 1 Date: 02-Dec-20 10:02	Prime & First Coat	5 15-Dec-22	21-Dec-22	13						



y ID	Construction Schedule - December Close Permit Changes	Original Start	Finish	Update View Total Float								
		Duration				JEIN		20: 	SO	NID	JF	ALM
SA-2680	Ceramic @ Bathrooms	10 22-Dec-22	06-Jan-23	83								
SA-2590	Ceiling Grid	10 22-Dec-22	06-Jan-23	38								
SA-2690	Bathroom Specialties	10 09-Jan-23	20-Jan-23	83								
SA-2600	Lights/Diffussers & Grills/Sprinkler Heads	15 09-Jan-23	27-Jan-23	38	·				 	·+	·	
SA-2660	Doors & Hardware	5 30-Jan-23	03-Feb-23	38								
SA-2610	Flooring	10 06-Feb-23	17-Feb-23	38								
SA-2620	Casework/Millwork	10 20-Feb-23	03-Mar-23	38								
SA-2640	MEP Trim @ Walls & Casework	10 26 106 23	17-Mar-23	38								
SA-2670	Ceiling Tile	5 20-Mar-23	24-Mar-23	38	·				 	·+	·	 · - 1
SA-2650	Final Touch Up/Final Paint	5 20 Mar 23	24-Mar-23	38								
SA-2700	Develop Punchlist/T&B	5 20 Mar 23	31-Mar-23	38								
Academic Wing - E		5 27-IVIAI-25	51-10101-25									
Floor 1												
Rough In												
SA-2930	MEP Hangers	10 01-Aug-22	12-Aug-22	0								Ì
SA-2940	Fireproofing	10 15-Aug-22	26-Aug-22	5								
SA-2950	MEP OH Rough In	40 29-Aug-22	24-Oct-22	5								
SA-2970	Frame Walls/Install Door Frames	15 18-Oct-22	07-Nov-22	5								
SA-2960	MEP OH Insulation	15 25-Oct-22	14-Nov-22	50								
SA-3050	LV Rough In (AV, IT, Data/FA)	15 15-Nov-22	07-Dec-22	50								
SA-2980	In Wall Rough Ins	40 25-Oct-22	21-Dec-22	5								
Finishes												
SA-2990	Hang & Finish Walls	30 22-Dec-22	03-Feb-23	5								
SA-3000	Prime & First Coat	5 13-Feb-23	17-Feb-23	0								
SA-3100	Ceramic @ Bathrooms	10 20-Feb-23	03-Mar-23	45								
SA-3010	Ceiling Grid	10 20-Feb-23	03-Mar-23	0								
SA-3110	Bathroom Specialties	10 06-Mar-23	17-Mar-23	45								
SA-3020	Lights/Diffussers & Grills/Sprinkler Heads	15 06-Mar-23	24-Mar-23	0								
SA-3080	Doors & Hardware	5 27-Mar-23	31-Mar-23	0	· · · · ·				 			
SA-3030	Flooring	10 03-Apr-23	14-Apr-23	0								
SA-3040	Casework/Millwork	10 17-Apr-23	28-Apr-23	0								
SA-3060	MEP Trim @ Walls & Casework	10 01-May-23	12-May-23	0								
SA-3090	Ceiling Tile	5 15-May-23	19-May-23									
SA-3070	Final Touch Up/Final Paint	5 15-May-23	19-May-23						 			
SA-3120	Develop Punchlist/T&B	5 22-May-23	26-May-23									
Floor 2												
Rough In												-
SA-3130	MEP Hangers	10 15-Aug-22	26-Aug-22	0					 			 +-
SA-3140	Fireproofing	10 29-Aug-22	12-Sep-22	10								
SA-3150	MEP OH Rough In	30 13-Sep-22	24-Oct-22	10								
SA-3170	Frame Walls/Install Door Frames	15 25-Oct-22	14-Nov-22	10								
SA-3160	MEP OH Insulation	15 25-Oct-22	14-Nov-22	51								
SA-3250	LV Rough In (AV, IT, Data/FA)	15 15-Nov-22	07-Dec-22	51	· · · · · · · · · · · · · · · · · · ·				 			
SA-3180	In Wall Rough Ins	30 01-Nov-22	14-Dec-22	10								
Finishes												
SA-3190	Hang & Finish Walls	30 15-Dec-22	27-Jan-23	10								1



sA-3200 SA-3300	Activity Name Prime & First Coat	Original Duration		Finish	Total Float			2021			
	Drimo & First Cost								1 6 0		/ A
		5	13-Feb-23	17-Feb-23	0	OND	MAM		A S O	JFIN	
JA-3300	Ceramic @ Bathrooms		20-Feb-23	03-Mar-23	46						
SA-3210	Ceiling Grid	i	20-Feb-23	03-Mar-23	40		 			 	
SA-3310	Bathroom Specialties		06-Mar-23	17-Mar-23	46						
SA-3220	Lights/Diffussers & Grills/Sprinkler Heads		06-Mar-23	24-Mar-23	40						
SA-3280	Doors & Hardware		27-Mar-23	31-Mar-23	1						
SA-3230	Flooring		03-Apr-23	14-Apr-23	1						
SA-3230	Casework/Millwork		17-Apr-23	28-Apr-23	1		 			 	• +
SA-3240	MEP Trim @ Walls & Casework		01-May-23	12-May-23	1						
SA-3200	Ceiling Tile		15-May-23	12-May-23	1						
SA-3230	Final Touch Up/Final Paint		15-May-23	19-May-23	1						
SA-3270	Develop Punchlist/T&B		22-May-23	26-May-23	1						
Floor 3	Develop Punchilst/T&B		22-1VIdy-25	20-1vidy-25	_		 			 	
Rough In											
SA-3330	MEP Hangers	10	29-Aug-22	12-Sep-22	0						
SA-3340	Fireproofing		13-Sep-22	26-Sep-22	0						
SA-3350	MEP OH Rough In		27-Sep-22	07-Nov-22	0						
SA-3370	Frame Walls/Install Door Frames		25-Oct-22	14-Nov-22	0		 			 	! +
SA-3360	MEP OH Insulation		08-Nov-22	30-Nov-22	38						
SA-3450	LV Rough In (AV, IT, Data/FA)		01-Dec-22	21-Dec-22	38						
SA-3380	In Wall Rough Ins		08-Nov-22	21-Dec-22	0						
Finishes	in that the age the		00 1101 22								
SA-3390	Hang & Finish Walls	30	22-Dec-22	03-Feb-23	0						
SA-3400	Prime & First Coat	5	06-Feb-23	10-Feb-23	0						
SA-3500	Ceramic @ Bathrooms	10	13-Feb-23	24-Feb-23	48						
SA-3410	Ceiling Grid	10	13-Feb-23	24-Feb-23	3						
SA-3510	Bathroom Specialties	10	27-Feb-23	10-Mar-23	48						
SA-3420	Lights/Diffussers & Grills/Sprinkler Heads		27-Feb-23	17-Mar-23	3		 				
SA-3480	Doors & Hardware	5	20-Mar-23	24-Mar-23	3						
SA-3430	Flooring		27-Mar-23	07-Apr-23	3						
SA-3440	Casework/Millwork	10	10-Apr-23	21-Apr-23	3						
SA-3460	MEP Trim @ Walls & Casework		24-Apr-23	05-May-23	3						
SA-3490	Ceiling Tile		08-May-23	12-May-23	3		 				
SA-3470	Final Touch Up/Final Paint		08-May-23	12-May-23	3						
SA-3520	Develop Punchlist/T&B		15-May-23	19-May-23	3						
Gym Finishes - MS											
SA-2720	High Ceiling MEP (on lifts)	50	15-Dec-22	24-Feb-23	1	· · · · ·	 	· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·	
SA-2730	Paint High Ceiling	10	27-Feb-23	10-Mar-23	13						
SA-2740	Gym Flooring	20	13-Mar-23	07-Apr-23	13						
SA-2750	Gym Equipment/Bleachers	20	10-Apr-23	05-May-23	13						
Gym Finishes-ES											
SA-3530	High Ceiling MEP (on lifts)	40	06-Feb-23	31-Mar-23	1	· · · · · · · · · · · · · · · · · · ·	 			 	
SA-3540	Paint High Ceiling	10	03-Apr-23	14-Apr-23	1						
SA-3550	Gym Flooring	15	17-Apr-23	05-May-23	1						
SA-3560	Gym Equipment/Bleachers	12	08-May-23	23-May-23	1						
Administration/Lob	by Finishes										





SA-2780 High Ceiling MEP 20 06-Feb-23 03-Mar-23 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 <th>2023 M J Jul A S O N Ceiling MEP bbby Tile nterior Glazing Lobby & Admin Sp en Tile Iltipurpose Stage Cons</th>	2023 M J Jul A S O N Ceiling MEP bbby Tile nterior Glazing Lobby & Admin Sp en Tile Iltipurpose Stage Cons
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Turnover	
SA-1820 Commissioning 35 13-Mar-23 28-Apr-23 17	Commissioning
SA-1830 Inspections 20 25-May-23 22-Jun-23 0	Inspections
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