

SITE ANALYSIS DATA SHEET

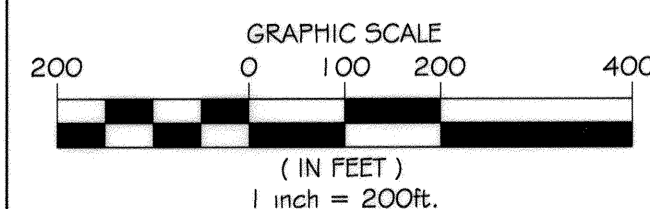
- SITE ADDRESS: 10901 LITTLE PATUXENT PKWY COLUMBIA, MD 21044
- OWNER/APPLICANT: BOARD OF TRUSTEES OF HOWARD COUNTY COMMUNITY COLLEGE
- ENGINEER: NICHOLAS A. BARRICK, P.E., LEED AP
KCI TECHNOLOGIES, INC.
936 RIDGEBROOK ROAD
SPARKS, MARYLAND 21152
(410) 792-8086
- TAX ACCOUNT NO.: 15-045066
- PROPERTY REFERENCE: MAP 35
PLAT 1 G 25
BLOCK G
PARCEL 47
LOT A & LOT B
ELECTION DISTRICT NO. 5
- ZONING: EXISTING USE: POR & NT
PROPOSED USE: EDUCATIONAL BUILDING
EDUCATIONAL BUILDING
- AREA OF TOTAL SITE: 117.84 ACRES
- LIMIT OF DISTURBANCE: 284,074 S.F. (6.52 ACRES)
- PROPOSED IMPERVIOUS AREA WITHIN THE L.O.D.: 170,755 (3.92 ACRES)
- PROPOSED OPEN SPACE WITHIN THE L.O.D.: 113,319 S.F. (2.60 ACRES)
- THERE ARE NO WETLANDS, FLOOD PLAINS, FOREST CONSERVATION OR STEEP SLOPES WITHIN THE L.O.D. THERE ARE NO ERODIBLE SOILS WITHIN THE L.O.D.
- APPROVAL OF THIS ECP DOES NOT CONSTITUTE APPROVAL OF ANY SUBSEQUENT AND ASSOCIATED SUBDIVISION PLAN AND/OR SITE DEVELOPMENT PLAN AS APPLICABLE. FURTHER REVIEW OF DEVELOPMENT PLANS WILL BE REQUIRED AND WILL GENERATE ADDITIONAL COMMENTS.
- PREVIOUS FILE NOS: SDP-75-046
- FOREST CONSERVATION OBLIGATIONS FOR THE ENTIRE CAMPUS, IN ACCORDANCE WITH SECTION 161.202 OF THE HOWARD COUNTY CODE AND FOREST CONSERVATION MANUAL HAVE BEEN MET BY THE PLACEMENT OF 21,318 ACRES OF ON-SITE FOREST CONSERVATION EASEMENTS AND 2.61 ACRES OF OFF-SITE FOREST CONSERVATION EASEMENTS AT THE BELMONT CENTER (SDP-06-106FC / PLAT NOS. 21640 & 21641).

INDEX OF DRAWINGS

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4	ECP-4	PROPOSED CONDITIONS LOD IMPERVIOUS MAP
5	ECP-5	ENVIRONMENTAL SITE DESIGN PLAN
6	ECP-6	EROSION & SEDIMENT CONTROL PLAN - PHASE 1
7	ECP-7	EROSION & SEDIMENT CONTROL PLAN - PHASE 2

LEGEND

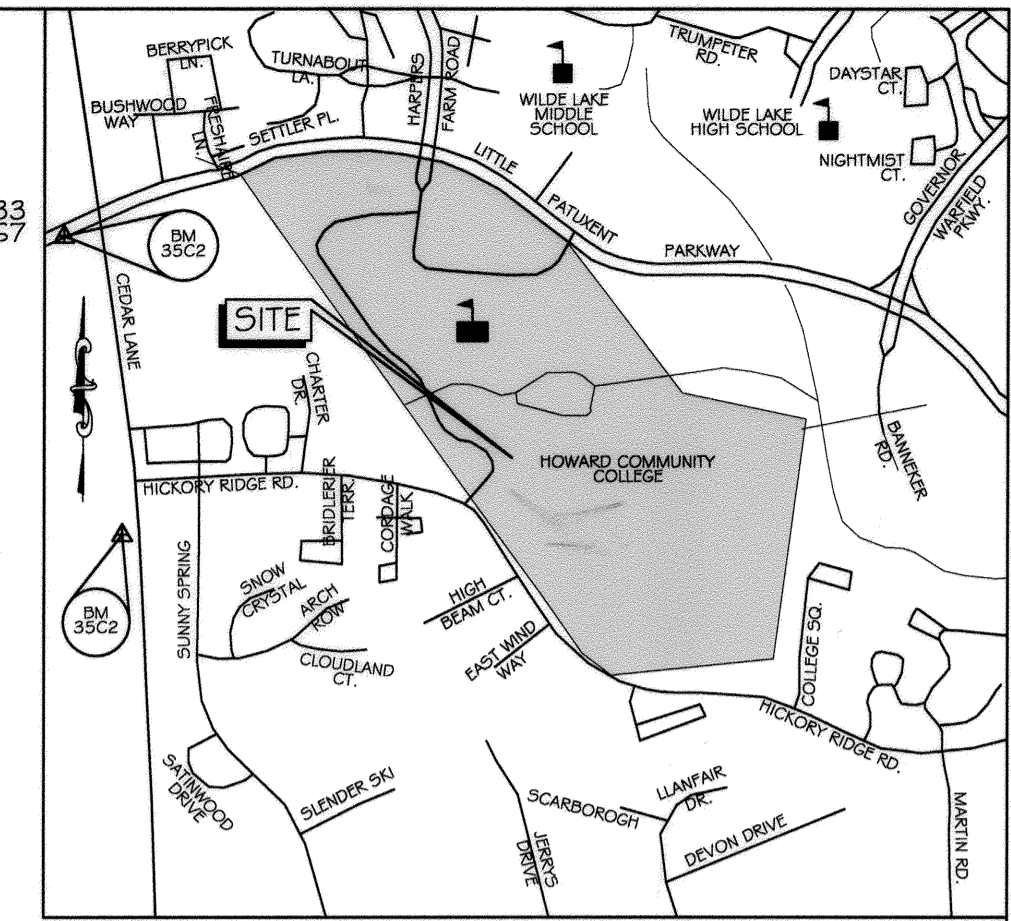
	PROPERTY LINE
	EX. INDEX CONTOUR
	EX. INTERMEDIATE CONTOUR
	EX. SANITARY MANHOLE
	EX. STORM DRAIN MANHOLE
	EX. ELECTRIC MANHOLE
	EX. LIGHT POLE
	EX. WATER METER
	EX. SIGN
	EX. UTILITY POLE
	EX. BOLLARD POST
	EX. DECIDUOUS TREE
	EX. CONIFEROUS TREE
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	EX. GUY WIRE
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	EX. 15" DRAIN
	EX. GAS
	EX. 6" SANITARY
	EX. ELECTRIC
	EX. TELEPHONE
	EX. CABLE TV
	EX. 6" WATER
	AREA OF PROPOSED WORK
	APPROXIMATE LIMITS OF FOREST CONSERVATION EASEMENT
	APPROXIMATE LIMITS OF ENVIRONMENTAL BUFFER AREA
	PROPOSES PROJECT AREA



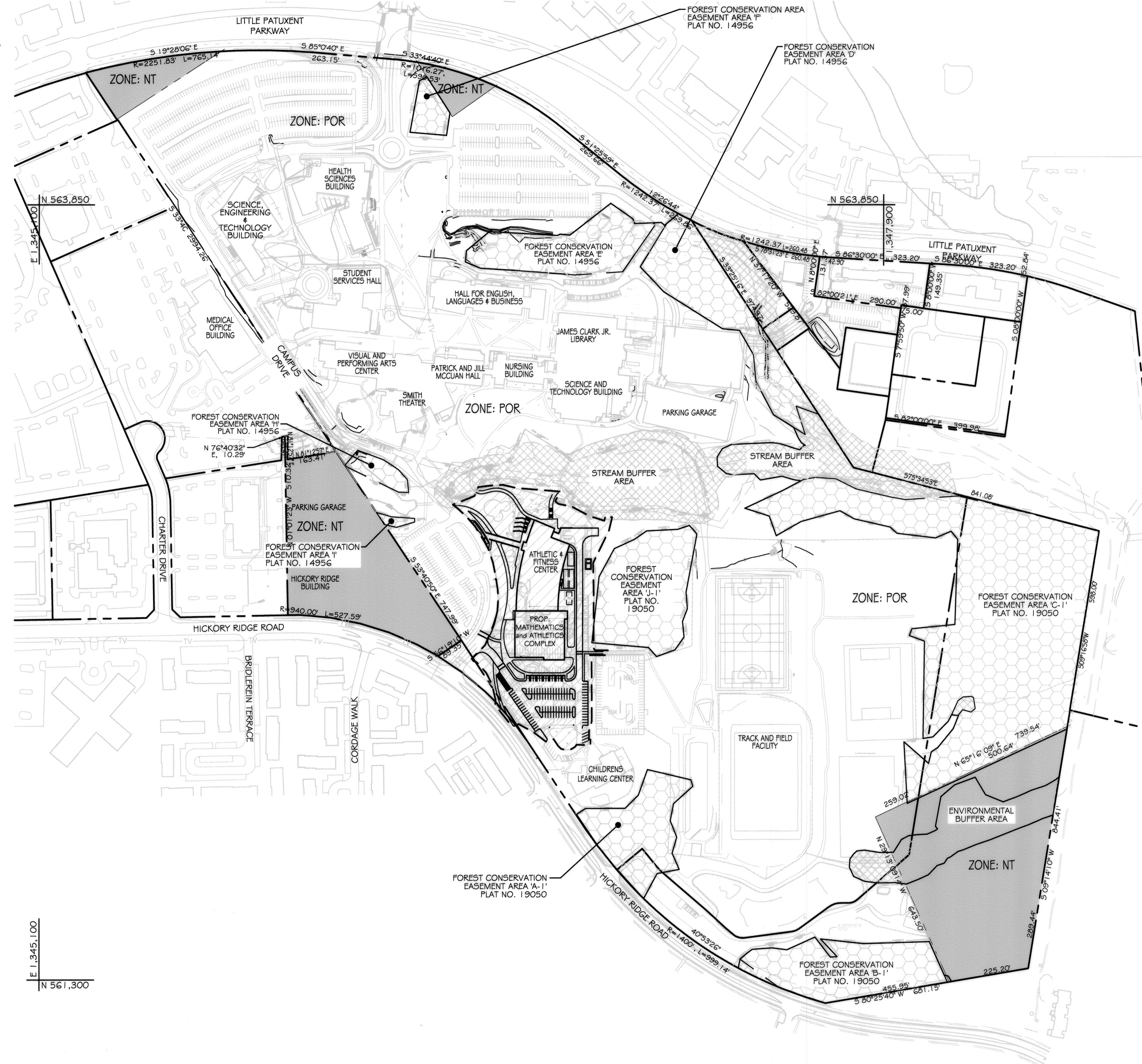
**ENVIRONMENTAL CONCEPT PLAN
HOWARD COMMUNITY COLLEGE
MATHEMATIC and ATHLETICS COMPLEX
5TH ELECTION DISTRICT
HOWARD COUNTY, MD
ECP 21-011**

BENCHMARK DATA

HORIZONTAL NAD83/11 AND VERTICAL (NGVD29) CONTROL BASED ON GPS OBSERVATIONS. HOWARD COUNTY BENCH MARK NO. 5		NORTHING	EASTING	ELEV.
35C2	HOW CO MON	563920.830	1344204.150	464.133
35C2	HOW CO MON	562148.450	1344554.472	452.267



VICINITY MAP
SCALE 1" = 1000'
ADC MAP: 4934 GRID K7



LOCATION MAP
SCALE: 1" = 200'

STORMWATER MANAGEMENT APPROACH

THE "STORMWATER MANAGEMENT ACT OF 2007" REQUIRES THE IMPLEMENTATION OF ENVIRONMENTAL SITE DESIGN TO THE MAXIMUM EXTENT PRACTICAL. THESE ENVIRONMENTAL SITE DESIGN TECHNIQUES PROMOTE GROUNDWATER RECHARGE BY TARGETING RUNOFF CHARACTERISTICS TO MIMIC WOODS IN A GOOD CONDITION AFTER DEVELOPMENT OF THE SITE.

THE PROPOSED MATHEMATICS AND ATHLETICS COMPLEX WILL BE PLACED IN A PRE-DEVELOPED AREA THAT IS CURRENTLY THE ATHLETICS FACILITY. THE EXISTING IMPERVIOUS AREA WILL INCREASE BY 0.35± ACRES, FROM EXISTING CONDITIONS TO PROPOSED CONDITIONS TO ALLOW FOR CONSTRUCTION OF A 100,000± SF BUILDING, ATTEMPTING LEED GOLD CERTIFICATION. EXISTING IMPERVIOUS AREAS WILL THEREFORE BE REDUCED IN OVERALL ACREAGE TO ALLOW FOR LARGE GREEN AREAS SURROUNDING THE PROPOSED BUILDING AND FIVE (5) MICRO-BIORETENTION FACILITIES TO TREAT FUTURE STORMWATER RUNOFF.

NATURAL RESOURCES:

SELECTION OF THIS SITE FOR THE PROPOSED IMPROVEMENTS PRESERVES NATURAL FEATURES SUCH AS STREAMS AND WOODLANDS THAT EXIST ON THE CAMPUS. NO STEEP SLOPES, WETLANDS, FLOODPLAINS, STREAMS, ETC. WILL BE IMPACTED BY THIS PROJECT.

NATURAL FLOW PATTERNS:

EXISTING DRAINAGE PATTERNS WILL REMAIN UNCHANGED IN THE PROPOSED CONDITION. A CLOSED STORM DRAIN SYSTEM CURRENTLY CONVEYS FLOWS THROUGH THE SITE TO AN EXISTING STREAM TO THE NORTH AND EAST OF THE SITE. A PORTION OF THIS STORM DRAIN WILL BE REVISED TO ACCOMMODATE THE NEW BUILDING FOOTPRINT HOWEVER THE EXISTING OUTFALLS WILL REMAIN UNDISTURBED. WITH ONE (1) ADDITIONAL NEW OUTFALL TO ACCOMMODATE THE PROPOSED IMPROVEMENTS AND CONSIDERING THAT THE PROPOSED IMPROVEMENTS WILL INCREASE THE EXISTING IMPERVIOUS AREA WITHIN THE L.O.D. FOR THE PROJECT BY APPROXIMATELY 76 PERCENT, DISCHARGES AT THE EXISTING OUTFALL TO THE EXISTING STREAM WILL INCREASE SLIGHTLY.

SITE DESIGN:

THE PROJECT IS PROPOSING A MULTI-STORY EDUCATIONAL BUILDING WITH A FOOT PRINT OF APPROX. 63,000 SQ. FT., CONCRETE WALKS AND PATHS CONNECTING TO EXISTING PATHS, INCREASING THE TOTAL IMPERVIOUS BY 0.35 ACRES. CLOSED STORM DRAINS WILL BE CONSTRUCTED TO CONVEY FLOWS TO STORMWATER MANAGEMENT FACILITIES OR SUITABLE OUTFALLS. UNDERDRAINS FROM THE STORMWATER FILTERING PRACTICES WILL BE TIED INTO THEIR RESPECTIVE FACILITY DISCHARGE STRUCTURES. ALL SITE IMPROVEMENTS WILL BE IN ACCORDANCE WITH THE HOWARD COUNTY STANDARDS AND SPECIFICATIONS.

EROSION & SEDIMENT CONTROL:

A CONCEPTUAL EROSION & SEDIMENT CONTROL PLAN IS BEING PROVIDED TO DEMONSTRATE THAT SEDIMENT CONTROL PRACTICES WILL BE PROVIDED TO EFFECTIVELY TREAT SEDIMENT LADEN RUNOFF DURING CONSTRUCTION WITHOUT IMPACTING THE MICRO-SCALE FACILITIES THAT ARE BEING PROPOSED FOR PERMANENT RUNOFF TREATMENT.

ESD PLANNING TECHNIQUES:

ENVIRONMENTAL SITE DESIGN IS BEING ACHIEVED THROUGH THE APPLICATION OF MICRO-SCALE PRACTICES. MICRO-BIORETENTION FACILITIES ARE BEING PROPOSED TO CONTRIBUTE TO MEETING ESD VOLUME REQUIREMENTS FOR THE SITE. HYDROLOGIC SOIL GROUP 'D' SOILS LIMITED THE SELECTION OF MICRO-SCALE PRACTICES THAT COULD BE USED. MICRO-BIORETENTION FACILITIES WERE SELECTED DUE TO THE UNDER DRAIN SYSTEM THAT PROVIDES SOME ASSURANCE THAT THE FACILITIES WILL NOT RETAIN WATER AND BECOME A NUISANCE.

PARCEL#	ADDRESS CHART
47	10901 LITTLE PATUXENT PKWY.

PERMIT INFORMATION CHART					
SUBDIVISION NAME	SECTION/AREA	LOT/PARCEL NO.			
HOWARD COMMUNITY COLLEGE	117.84 AC.	47			
PLAT NUMBER	GRID#	ZONING	TAX MAP#	ELECT. DISTR.	CENSUS TRACT
16125	35-6	POR & NT	35	5TH	6056.02
WATER CODE	SEWER CODE				
107	5322500				

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. 33772 EXPIRATION DATE: 06/16/2021



APPROVED: Howard County Department of Planning & Zoning

[Signature]
Chief, Division of Land Development
Date: 2-19-21

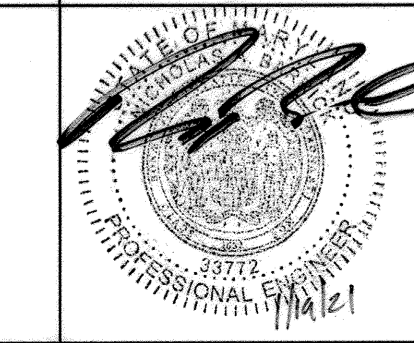
Rev:	Date:	Description:	By:
1			
2			
3			
4			
5			

Prepared For and Owner:
Howard Community College
10901 Little Patuxent Parkway
Columbia, Maryland 21044
ATTN: Mr. Chuck Nightingale
410-772-4296

Project Name:
**Howard Community College -
MATHEMATICS & ATHLETICS COMPLEX**
ENVIRONMENTAL CONCEPT PLAN
PARCEL 47, TAX MAP 35, GRID 6
TAX ACCOUNT # 045066
ELECTION DISTRICT NO.5
HOWARD COUNTY, MARYLAND

Date:	12-07-2020	Scale:	1" = 200'
Drawn By:	F.F.W.	Designed By:	F.F.W.
Approved By:	N.A.B.	Project No.:	271906728
Tax Map-Grid:	35-6	Zoning:	POR & NT

Sheet Title:
**ENVIRONMENTAL
CONCEPT PLAN
COVER SHEET**

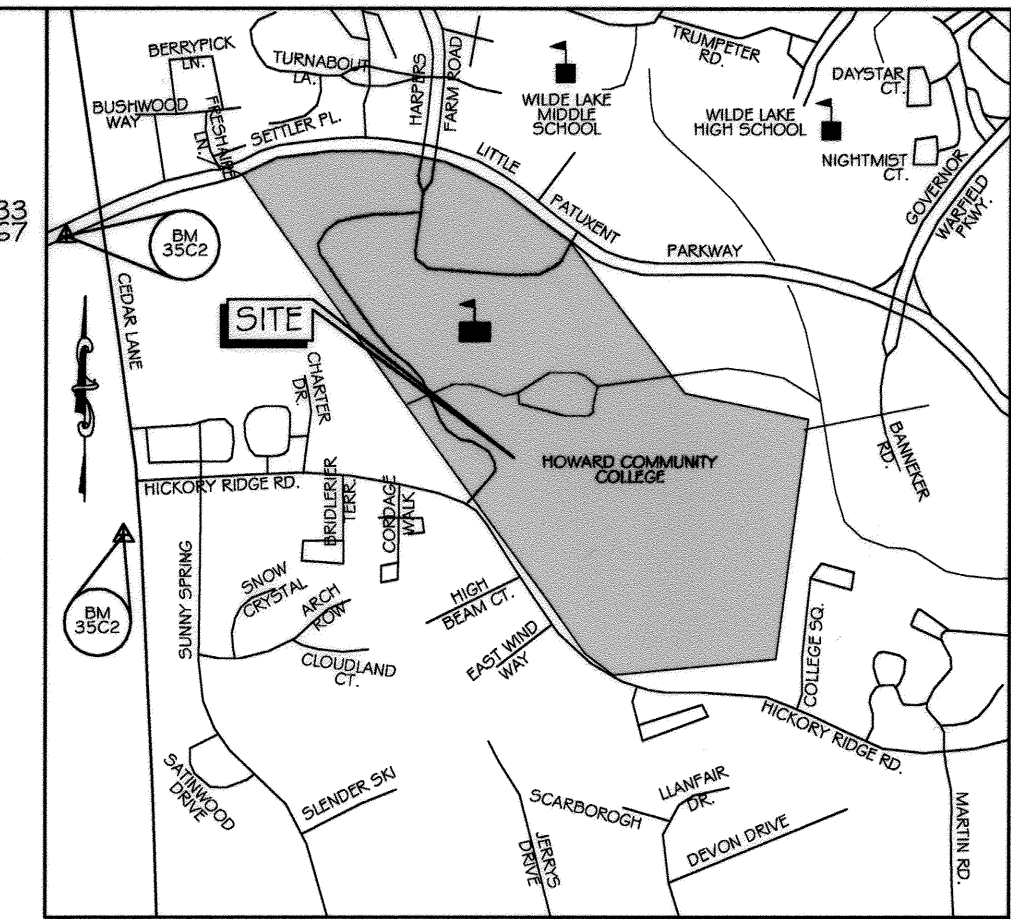


Discipline Number:
ECP-1
Sheet Number:
1 OF 7

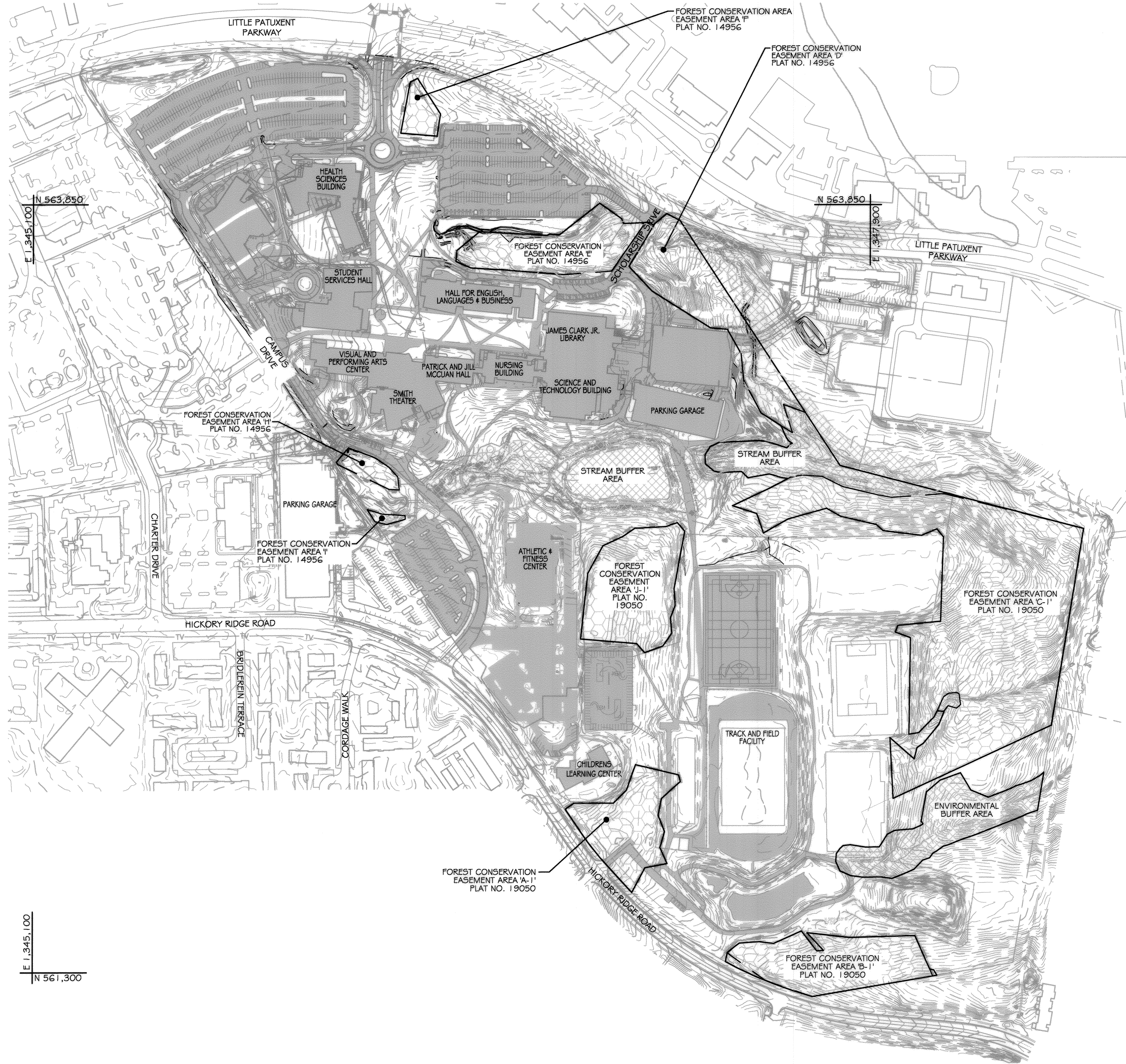
BENCHMARK DATA

HORIZONTAL NAD83(1) AND VERTICAL (NGVD29) CONTROL BASED ON GPS OBSERVATIONS. HOWARD COUNTY BENCH MARK NO. 5

	NORTHING	EASTING	ELEV.
35C2 HOW CO MON	563920.830	1344204.150	464.133
35C2 HOW CO MON	562148.350	1344554.472	452.267



VICINITY MAP
SCALE 1" = 1000'
ADC MAP: 4934 GRID K7

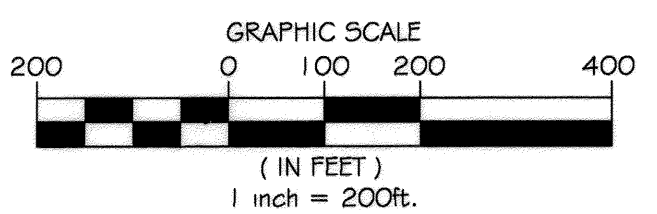


SITE IMPERVIOUS SUMMARY:
TOTAL PROPERTY AREA = 5,132,674.80 SQ. FT. (117.83 ACRES)
ENVIRONMENTAL EASEMENT/BUFFER AREA = 1,364,299.20 SQ. FT. (31.32 ACRES)
TOTAL DEVELOPABLE AREA = 3,768,375.60 SQ. FT. (86.51 ACRES)
EXISTING IMPERVIOUS AREA = 1,623,046 SQ. FT. (37.26 ACRES)
EXISTING PERVIOUS AREA = 3,509,629 SQ. FT. (80.57 ACRES)
SITE IMPERVIOUSNESS = IMPERVIOUS AREA/DEVELOPABLE AREA = 43%
SITE QUALIFIES FOR RE-DEVELOPMENT

LEGEND

- PROPERTY LINE
- - - 450 EX. INDEX CONTOUR
- - - 451 EX. INTERMEDIATE CONTOUR
- EX. SANITARY MANHOLE
- EX. STORM DRAIN MANHOLE
- EX. ELECTRIC MANHOLE
- EX. LIGHT POLE
- EX. WATER METER
- EX. SIGN
- EX. UTILITY POLE
- EX. BOLLARD POST
- EX. DECIDUOUS TREE
- EX. CONIFEROUS TREE
- EX. GAS VALVE
- EX. GUY WIRE
- EX. WATER VALVE
- EX. FIRE HYDRANT
- EX. CLEANOUT
- EX. 15" DRAIN
- EX. STORM DRAIN
- EX. GAS
- EX. GAS LINE
- EX. 6" SANITARY
- EX. SANITARY
- EX. ELECTRIC
- EX. ELECTRIC
- EX. TELEPHONE
- EX. TELEPHONE
- EX. CABLE TV
- EX. CABLE TV
- EX. 8" WATER
- EX. WATER
- AREA OF PROPOSED WORK
- APPROXIMATE LIMITS OF FOREST CONSERVATION EASEMENT
- APPROXIMATE LIMITS OF ENVIRONMENTAL BUFFER AREA
- EXISTING IMPERVIOUS AREA

OVERALL EXISTING IMPERVIOUS AREA MAP
SCALE: 1" = 200'



CONTRACTOR NOTE:
CONTRACTOR SHALL EXERCISE EXTREME CAUTION SO AS NOT TO DAMAGE ANY EXISTING PAVING, CURB AND GUTTER, SIDEWALK OR OTHER SITE FEATURES WHICH ARE TO REMAIN. SHOULD DAMAGE OCCUR, CONTRACTOR SHALL REPAIR TO ORIGINAL CONDITION AT CONTRACTOR'S EXPENSE.

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. 33772 EXPIRATION DATE: 06/16/2021

KCI TECHNOLOGIES
ENGINEERS
PLANNERS
SCIENTISTS
CONSTRUCTION MANAGERS
11830 WEST MARKET PLACE
SUITE F
FULFORD, MD 20759
TELEPHONE: (410) 792-8086
FAX: (410) 792-7419

AYERS SAINT GROSS
ARCHITECTS + PLANNERS
1040 Hill Street, Suite 102
Baltimore, MD 21205
P: 410.347.8800 F: 410.347.8419

APPROVED: Howard County Department of Planning & Zoning

Chief, Division of Land Development
2/8/21
Date

Chief, Development Engineering Division
2/19/21
Date

Rev:	Date:	Description:	By:
1			
2			
3			
4			

Prepared For and Owner:
Howard Community College
10801 Little Patuxent Parkway
Columbia, Maryland 21044
ATTN: Mr. Chuck Nightingale
410-772-4296

Project Name:
**Howard Community College -
MATHEMATICS & ATHLETICS COMPLEX**

ENVIRONMENTAL CONCEPT PLAN
PARCEL 47, TAX MAP 35, GRID 6
TAX ACCOUNT # 045888
HOWARD COUNTY, MARYLAND

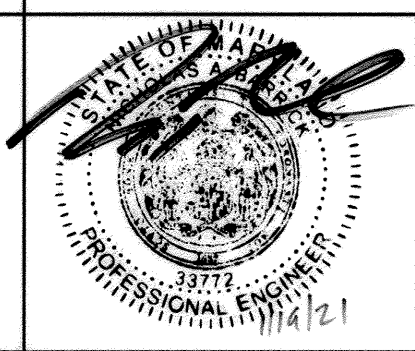
Date: 12-07-2020
Scale: 1" = 200'

Drawn By: F.F.W.
Designed By: F.F.W.

Approved By: N.A.B.
Project No: 271908728

Tax Map-Grid: 35-6
Zoning: POR & NT

Sheet Title:
**ENVIRONMENTAL
CONCEPT PLAN
OVERALL EXISTING
IMPERVIOUS AREA
MAP**



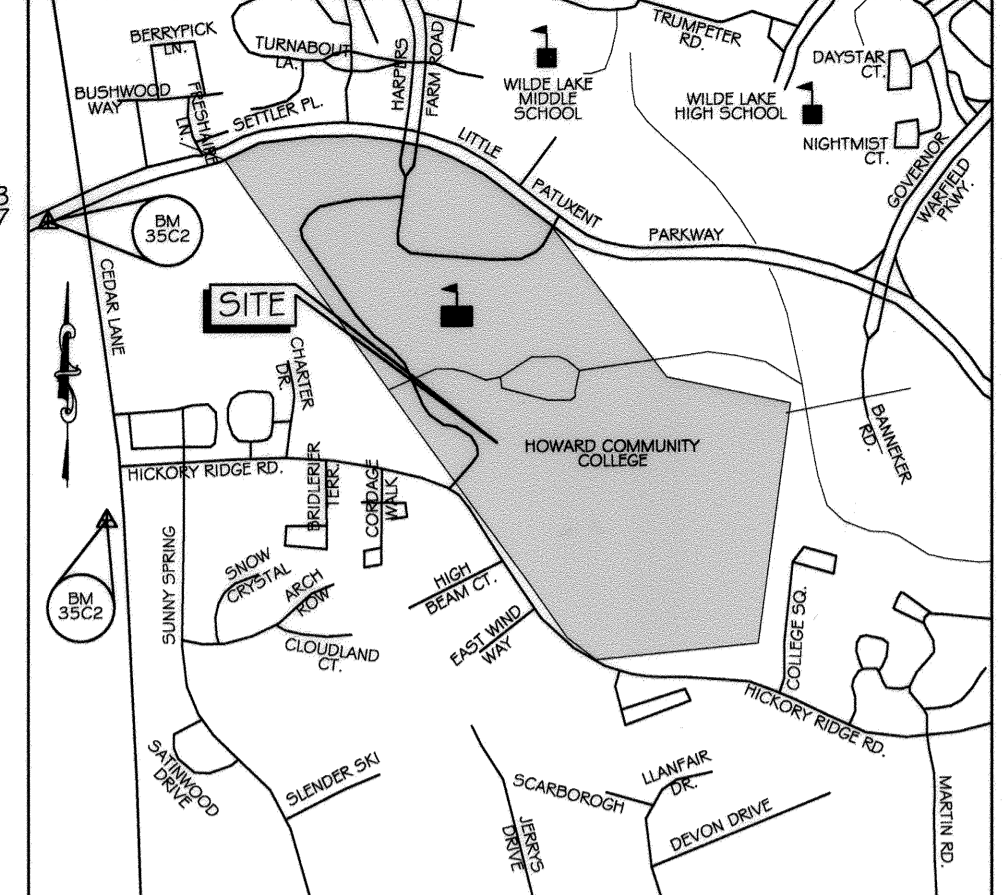
Discipline Number:
ECP-2

Sheet Number:
2 OF 7



BENCHMARK DATA
 HORIZONTAL NAD83/11 AND VERTICAL (NGVD29) CONTROL BASED ON GPS OBSERVATIONS. HOWARD COUNTY BENCH MARK NO. 15

	NORTHING	EASTING	ELEV.
35C2	563920.830	1344204.150	464.133
35C2	562148.450	1344554.472	452.267



VICINITY MAP
 SCALE 1" = 1000'
 ADC MAP: 4934 GRID K7

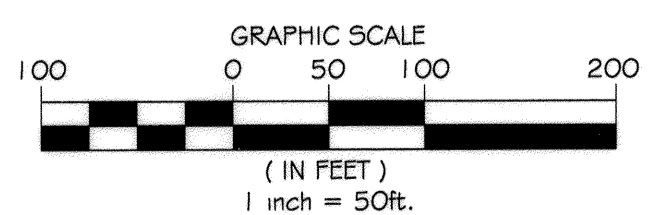
SOILS TABLE

SOIL UNIT	SOIL UNIT NAME	HYDROLOGIC SOIL GROUP	"K" VALUE
BaA	BAILE SILT LOAM, 0 TO 3% SLOPES	D	0.32
GB	GLADSTONE-URBAN LAND COMPLEX, 0 TO 8% SLOPES	A	0.28

L.O.D. EXISTING IMPERVIOUS SUMMARY:
 TOTAL AREA INSIDE THE L.O.D. = 284,074 SQ. FT. (6.52 ACRES)
 TOTAL IMPERVIOUS AREA INSIDE THE L.O.D. = 132,404 SQ. FT. (3.04 ACRES)
 TOTAL PERVIOUS AREA INSIDE THE L.O.D. = 151,670 SQ. FT. (3.48 ACRES)

LEGEND

---	PROPERTY LINE
--- 450 ---	EX. INDEX CONTOUR
--- 451 ---	EX. INTERMEDIATE CONTOUR
○	EX. SANITARY MANHOLE
○	EX. STORM DRAIN MANHOLE
○	EX. ELECTRIC MANHOLE
○	EX. LIGHT POLE
○	EX. WATER METER
○	EX. SIGN
○	EX. UTILITY POLE
○	EX. BOLLARD POST
○	EX. DECIDUOUS TREE
○	EX. CONIFEROUS TREE
○	EX. GAS VALVE
○	EX. GUY WIRE
○	EX. WATER VALVE
○	EX. FIRE HYDRANT
○	EX. CLEANOUT
○	EX. 15" DRAIN
○	EX. GAS
○	EX. 6" SANITARY
○	EX. ELECTRIC
○	EX. TELEPHONE
○	EX. CABLE TV
○	EX. 8" WATER
○	EX. WATER
---	L.O.D. LIMITS OF DISTURBANCE
■	APPROXIMATE LIMITS OF IMPERVIOUS AREA

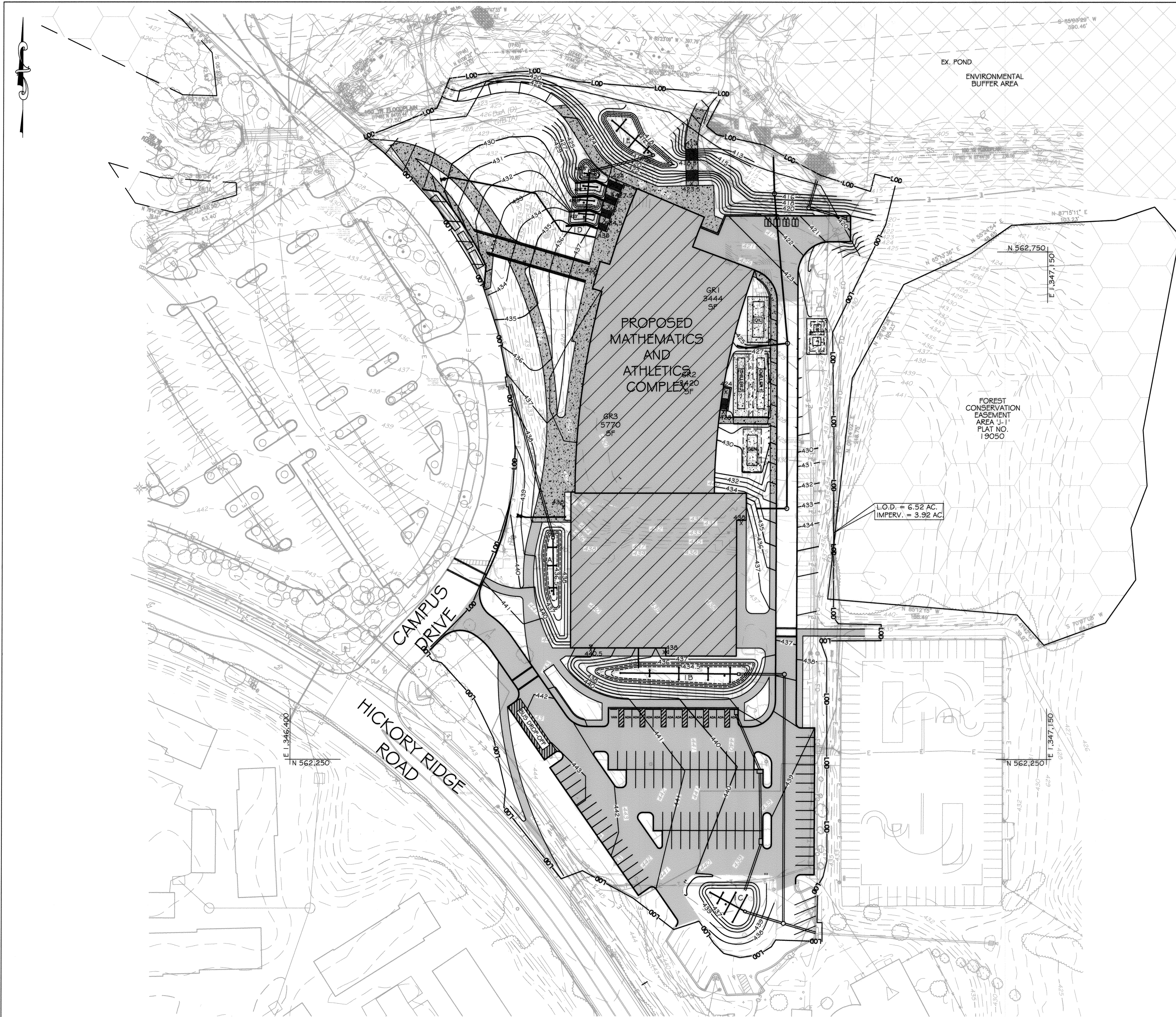


EXISTING CONDITIONS L.O.D. IMPERVIOUS AREA MAP
 SCALE: 1"=50'

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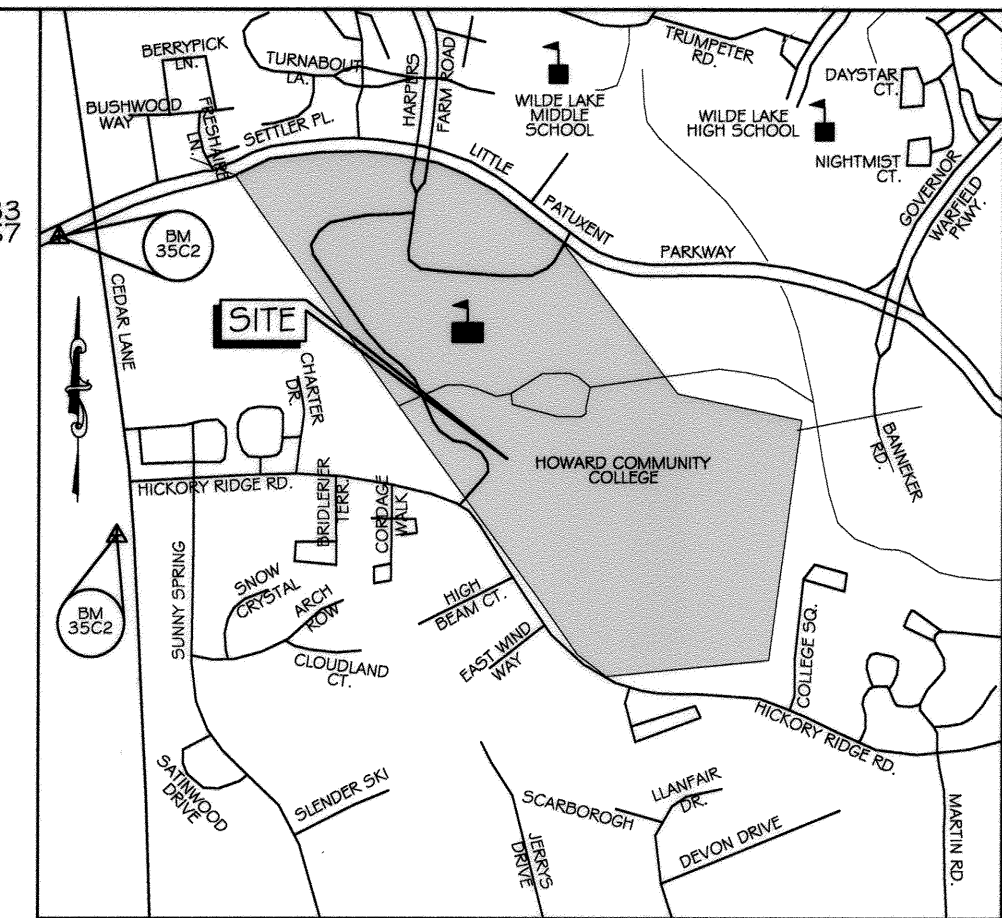
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 ENGINEERS PLANNERS SCIENTISTS CONSTRUCTION MANAGERS 11830 WEST MARKET PLACE SUITE 2 PULASKI, MD 20759 TELEPHONE: (410) 792-8086 FAX: (410) 792-7419	 ARCHITECTS + PLANNERS 1000 Hill Street, Suite 100 Baltimore, MD 21201 p 410.347.8800 f 410.347.8419	APPROVED: Howard County Department of Planning & Zoning Chief, Division of Land Development Date: 2/8/21	Rev: <table border="1"> <tr><td>1</td><td></td><td></td><td></td></tr> <tr><td>2</td><td></td><td></td><td></td></tr> <tr><td>3</td><td></td><td></td><td></td></tr> <tr><td>4</td><td></td><td></td><td></td></tr> </table>	1				2				3				4				By: <table border="1"> <tr><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td></tr> </table>																	Prepared For and Owner: Howard Community College 10901 Little Patuxent Parkway Columbia, Maryland 21044 ATTN: Mr. Chuck Nightingale 410-772-4296	Project Name: Howard Community College - MATHEMATICS & ATHLETICS COMPLEX ENVIRONMENTAL CONCEPT PLAN PARCEL 47, TAX MAP 35, GRID 6 TAX ACCOUNT # 045888 ELECTION DISTRICT NO.5 HOWARD COUNTY, MARYLAND	Date: 12-07-2020 Drawn By: F.F.W. Approved By: N.A.B. Tax Map-Grid: 35-6	Scale: 1" = 50' Designed By: F.F.W. Project No: 271906728 Zoning: POR & NT	Sheet Title: ENVIRONMENTAL CONCEPT PLAN EXISTING CONDITIONS L.O.D. IMPERVIOUS AREA MAP	Discipline Number: ECP-3 Sheet Number: 3 OF 7
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2																																										
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BENCHMARK DATA
 HORIZONTAL NAD83/91 AND VERTICAL (NGVD29) CONTROL BASED ON GPS OBSERVATIONS. HOWARD COUNTY BENCH MARK NO. 5

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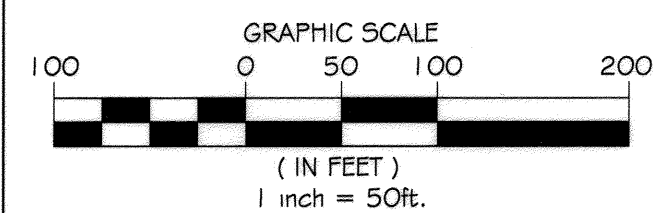


VICINITY MAP
 SCALE 1" = 1000'
 ADC MAP: 4934 GRID K7

L.O.D. PROPOSED CONDITIONS IMPERVIOUS SUMMARY:
 TOTAL AREA INSIDE THE L.O.D. = 264,074 SQ. FT. (6.52 ACRES)
 TOTAL IMPERVIOUS AREA INSIDE THE L.O.D. = 147,461 SQ. FT. (3.39 ACRES)
 TOTAL PERVIOUS AREA INSIDE THE L.O.D. = 136,613 SQ. FT. (3.13 ACRES)

LEGEND

---	PROPERTY LINE
---	EX. INDEX CONTOUR
---	EX. INTERMEDIATE CONTOUR
---	EX. SANITARY MANHOLE
---	EX. STORM DRAIN MANHOLE
---	EX. ELECTRIC MANHOLE
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---	EX. GUY WIRE
---	EX. WATER VALVE
---	EX. FIRE HYDRANT
---	EX. CLEANOUT
---	EX. 1.5" DRAIN
---	EX. GAS
---	EX. 6" SANITARY
---	EX. ELECTRIC
---	EX. TELEPHONE
---	EX. CABLE TV
---	EX. 8" WATER
---	EX. WATER
---	LIMITS OF DISTURBANCE
---	APPROXIMATE LIMITS OF IMPERVIOUS AREA



PROPOSED CONDITIONS L.O.D. IMPERVIOUS AREA MAP
 SCALE: 1" = 50'

CONTRACTOR NOTE:
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AYERS SAINT GROSS
 ARCHITECTS + PLANNERS
 1040 Hill Street, Suite 100 Baltimore, MD 21202
 p: 410.347.8200 f: 410.347.8419

APPROVED: Howard County Department of Planning & Zoning

Chief, Division of Land Development: [Signature] 2/19/21 Date

Chief, Development Engineering Division: [Signature] 2/19/21 Date

Rev:	Date:	Description:	By:	Prepared For and Owner:
1				Howard Community College 10901 Little Patuxent Parkway Columbia, Maryland 21044 ATTN: Mr. Chuck Nightingale 410-772-4296

Project Name:
Howard Community College - MATHEMATICS & ATHLETICS COMPLEX

ENVIRONMENTAL CONCEPT PLAN
 PARCEL 47, TAX MAP 35, GRID 6
 TAX ACCOUNT # 045868

ELECTION DISTRICT NO. 5 **HOWARD COUNTY, MARYLAND**

Date:	12-07-2020	Scale:	1" = 50'
Drawn By:	F.F.W.	Designed By:	F.F.W.
Approved By:	N.A.B.	Project No.:	271906728
Tax Map-Grid:	35-6	Zoning:	POR & NT

Sheet Title:
ENVIRONMENTAL CONCEPT PLAN PROPOSED CONDITIONS L.O.D. IMPERVIOUS AREA MAP

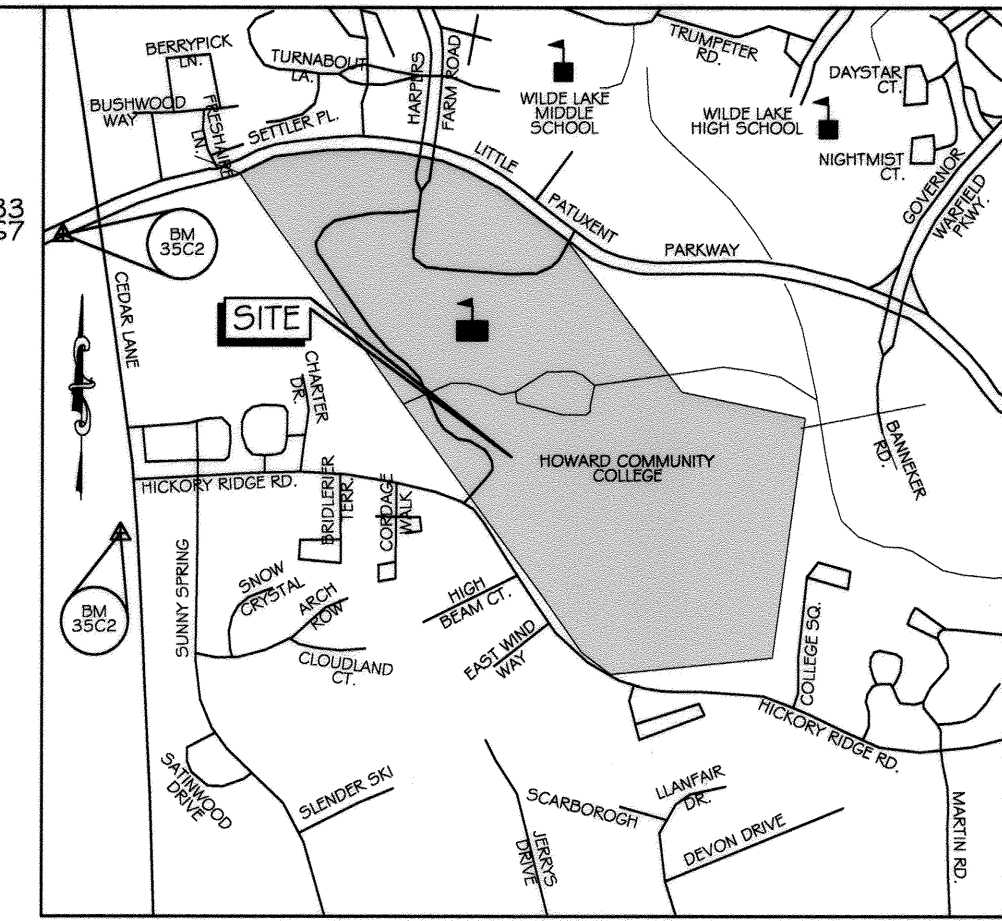
Discipline Number:
ECP-4

Sheet Number:
4 OF 7

FOR CONTINUATION
SEE INSET THIS SHEET

BENCHMARK DATA
HORIZONTAL (NAD83) AND VERTICAL (NGVD29) CONTROL BASED ON GPS OBSERVATIONS, HOWARD COUNTY BENCH MARK NO. 5

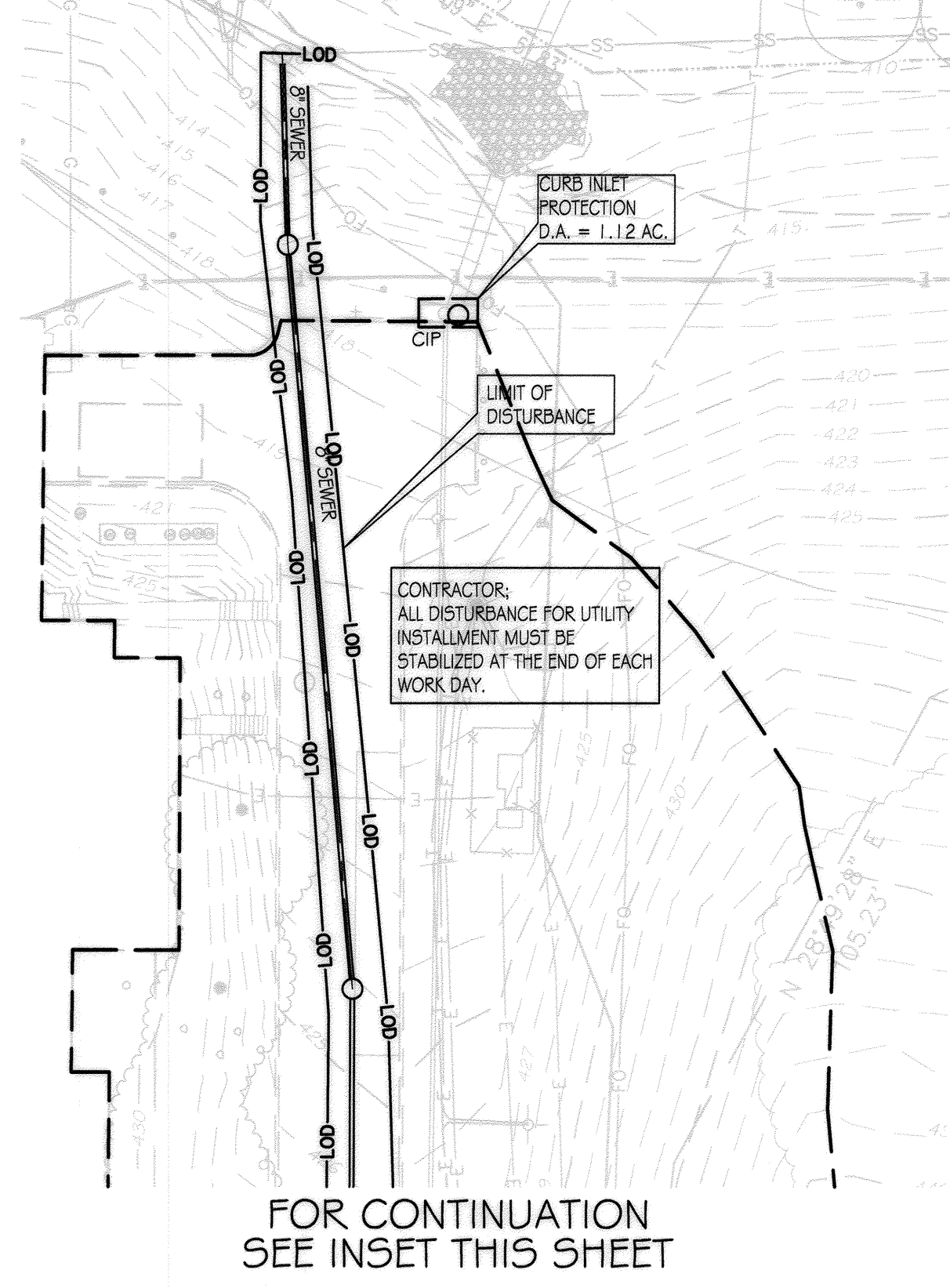
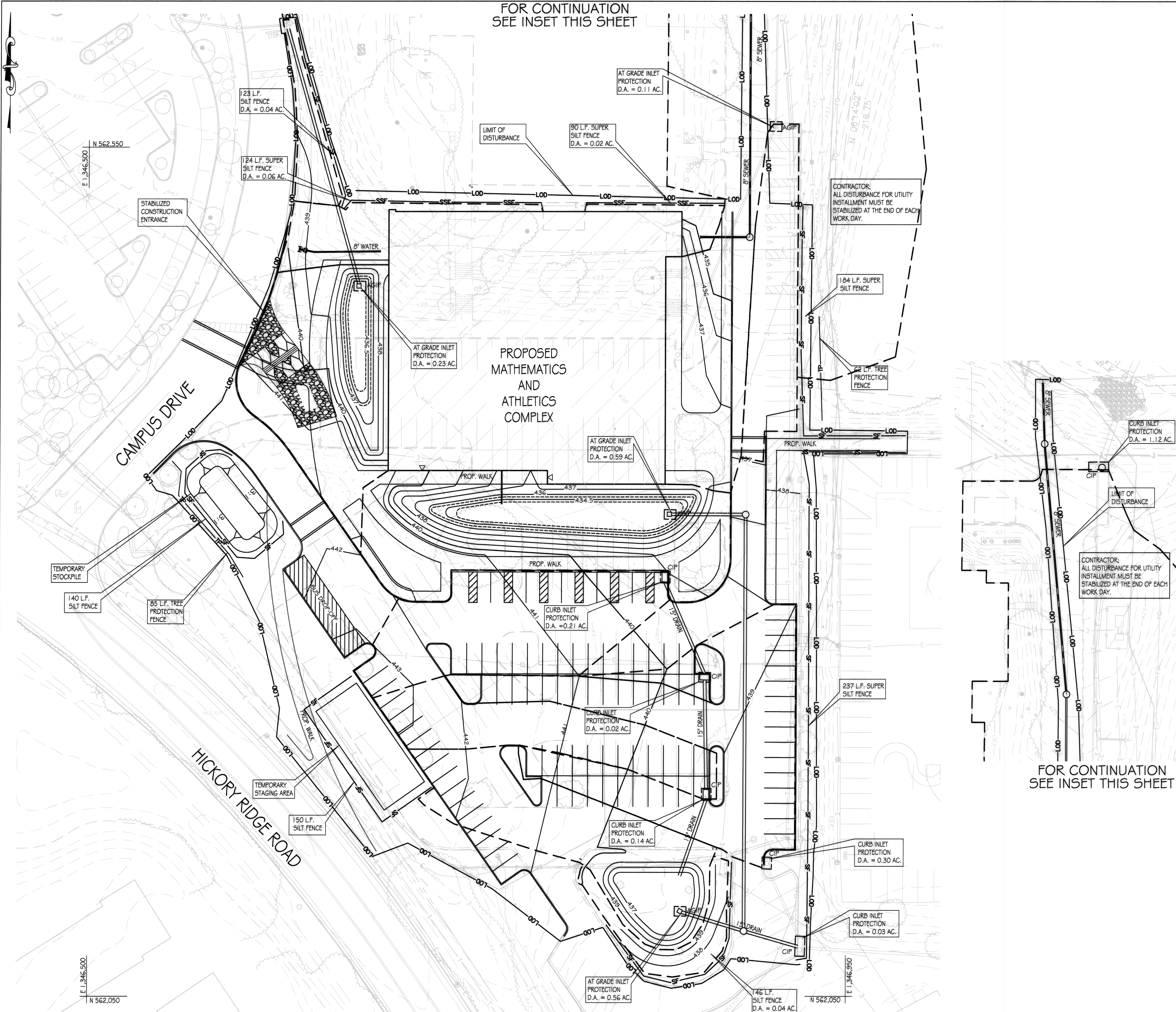
	NORTHING	EASTING	ELEV.
35C2	563920.830	1344204.150	464.133
35C2	562148.450	1344554.472	452.267



VICINITY MAP
SCALE 1" = 1000'
ADC MAP: 4934 GRID K7

LEGEND

[Symbol]	AGIP	AT-GRADE INLET PROTECTION
[Symbol]	CIP	CURB INLET PROTECTION
[Symbol]	SIP	STANDARD INLET PROTECTION
[Symbol]	LOD	LIMIT OF DISTURBANCE
[Symbol]	SD	DIVERSION DIKE
[Symbol]	SFD	SUPER FENCE DIVERSION
[Symbol]	SSF	SUPER SILT FENCE
[Symbol]	SF	SILT FENCE
[Symbol]	TP	TREE PROTECTION FENCE
[Symbol]	BOF	BLAZE ORANGE FENCE
[Symbol]	TGOS	TEMPORARY GABION OUTLET STRUCTURE
[Symbol]	TSOS	TEMPORARY STONE OUTLET STRUCTURE
[Symbol]		STABILIZED CONSTRUCTION ENTRANCE
[Symbol]		SEDIMENT CONTROL FEATURES
[Symbol]	CD	STONE CHECK DAM



SEDIMENT CONTROL NOTES

1. A MINIMUM OF 48 HOURS NOTICE MUST BE GIVEN TO THE HOWARD COUNTY DEPARTMENT OF INSPECTIONS, LICENSES AND PERMITS, SEDIMENT CONTROL DIVISION PRIOR TO THE START OF ANY CONSTRUCTION (313-0555).
2. ALL VEGETATIVE AND STRUCTURAL PRACTICES ARE TO BE INSTALLED ACCORDING TO THE PROVISIONS OF THIS PLAN AND ARE TO BE IN CONFORMANCE WITH THE MOST CURRENT MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL AND REVISIONS THERETO.
3. FOLLOWING INITIAL SOIL DISTURBANCE OR RE-DISTURBANCE, PERMANENT OR TEMPORARY SEDIMENT STABILIZATION SHALL BE COMPLETED WITHIN: A) 7 CALENDAR DAYS FOR ALL PERIMETER SEDIMENT CONTROL STRUCTURES, DIKES, PERIMETER SLOPES AND ALL SLOPES GREATER THAN 3:1, B) 14 DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE.
4. ALL DISTURBED AREAS MUST BE STABILIZED WITHIN THE TIME PERIOD SPECIFIED ABOVE IN ACCORDANCE WITH THE 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR PERMANENT SEEDING (SEC. 5.1), SOD (SEC. 5.4), TEMPORARY SEEDING (SEC. 5.0) AND MULCHING (SEC. 5.2). TEMPORARY STABILIZATION WITH MULCH ALONE CAN ONLY BE DONE WHEN RECOMMENDED SEEDING DATES DO NOT ALLOW FOR PROPER GERMINATION AND ESTABLISHMENT OF GRASSES.
5. ALL SEDIMENT CONTROL STRUCTURES ARE TO REMAIN IN PLACE AND ARE TO BE MAINTAINED IN OPERATIVE CONDITION UNTIL PERMISSION FOR THEIR REMOVAL HAS BEEN OBTAINED FROM THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.
6. ANY SEDIMENT CONTROL PRACTICE WHICH IS DISTURBED BY GRADING ACTIVITY FOR PLACEMENT OF UTILITIES MUST BE REPAIRED ON THE SAME DAY OF DISTURBANCE.
7. ADDITIONAL SEDIMENT CONTROL MUST BE PROVIDED, IF DEEMED NECESSARY BY THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.
8. ON ALL SITES WITH DISTURBED AREAS IN EXCESS OF 2 ACRES, APPROVAL OF THE INSPECTION AGENCY SHALL BE REQUESTED UPON COMPLETION OF INSTALLATION OF PERIMETER EROSION AND SEDIMENT CONTROLS, BUT BEFORE PROCEEDING WITH ANY OTHER EARTH DISTURBANCE OR GRADING. OTHER BUILDING OR GRADING INSPECTION APPROVALS MAY NOT BE AUTHORIZED UNTIL THIS INITIAL APPROVAL BY THE INSPECTION AGENCY IS MADE.
9. TRENCHES FOR THE CONSTRUCTION OF UTILITIES IS LIMITED TO THREE PIPE LENGTHS OR THAT WHICH SHALL BE BACK-FILLED AND STABILIZED BY THE END OF EACH WORK DAY, WHICHEVER IS SHORTER.

CONSULTANT'S CERTIFICATION

"I CERTIFY THAT THIS CONCEPT EROSION & SEDIMENT CONTROL PLAN REPRESENTS ALL SIGNIFICANT NATURAL RESOURCES BASED UPON MY PERSONAL KNOWLEDGE OF THE SITE AND THAT THIS PLAN WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT AND 'STANDARDS & SPECIFICATIONS FOR SOIL EROSION & SEDIMENT CONTROL'. I HAVE REVIEWED THIS CONCEPT EROSION & SEDIMENT CONTROL PLAN WITH THE OWNER/DEVELOPER.

SIGNATURE: *Nicholas A. Barick* MD LICENSE # 33772
PRINT NAME: Nicholas A. Barick DATE: 1/19/21

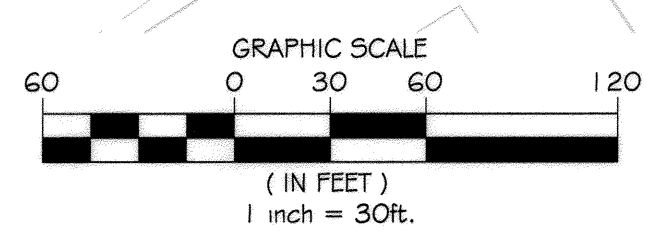
ECP APPROVED

REVIEWER: _____ DATE: _____

PROCEED TO DEVELOPMENT PHASE: YES (APPROVAL SUBJECT TO ADDRESSING COMMENTS ON NEXT PLAN PHASE)
NO (ADDRESS COMMENTS AND RESUBMIT PLANS)

CONTRACTOR NOTE:
CONTRACTOR SHALL EXERCISE EXTREME CAUTION SO AS NOT TO DAMAGE ANY EXISTING PAVING, CURB AND GUTTER, SIDEWALK OR OTHER SITE FEATURES WHICH ARE TO REMAIN. SHOULD DAMAGE OCCUR, CONTRACTOR SHALL REPAIR TO ORIGINAL CONDITION AT CONTRACTOR'S EXPENSE.

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. 33772 EXPIRATION DATE: 06/16/2021



EROSION AND SEDIMENT CONTROL PLAN - PHASE I
SCALE: 1" = 30'

KCI TECHNOLOGIES
ENGINEERS PLANNERS SCIENTISTS CONSTRUCTION MANAGERS
11830 WEST MARKET PLACE SUITE 2 FULTON, MD 20759
TELEPHONE: (410) 752-8086 FAX: (410) 752-7419

AYERS SAINT GROSS ARCHITECTS + PLANNERS
1045 HILL STREET, SUITE 102 BALTIMORE, MD 21202
P: 410.347.8800 F: 410.347.2419

APPROVED: Howard County Department of Planning & Zoning

Rev:	Date:	Description:	By:
1	2/8/21		
2	2/19/21		

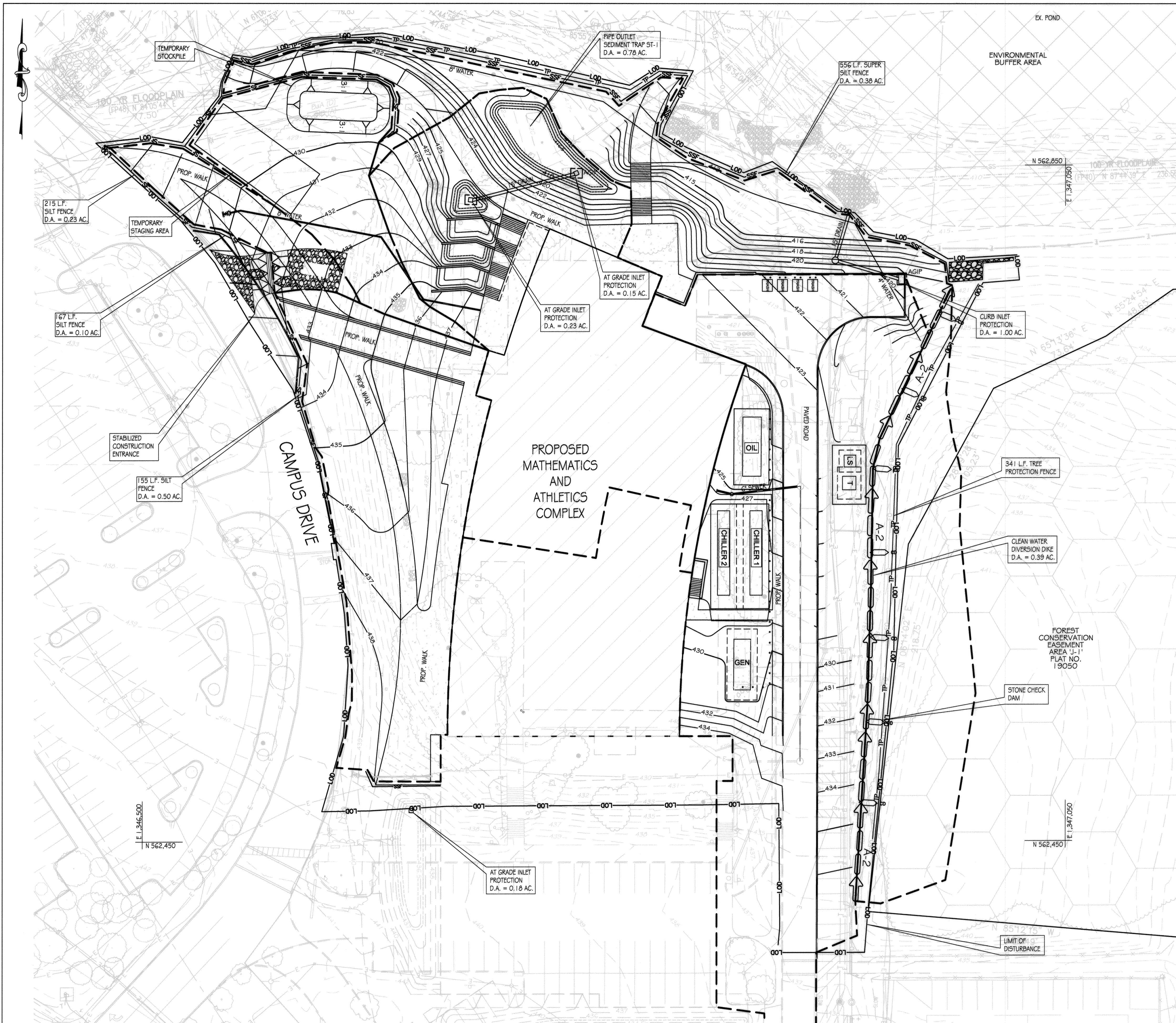
Prepared For and Owner:
Howard Community College
10901 Little Patuxent Parkway
Columbia, Maryland 21044
ATTN: Mr. Chuck Nightingale
410-772-4296

Project Name:
Howard Community College - MATHEMATICS & ATHLETICS COMPLEX
ELECTION DISTRICT NO. 5
HOWARD COUNTY, MARYLAND

Date:	12-07-2020	Scale:	1" = 30'
Drawn By:	F.F.W.	Designed By:	F.F.W.
Approved By:	N.A.B.	Project No.:	271906728
Tax Map-Grid:	35-6	Zoning:	POR & NT

Sheet Title:
ENVIRONMENTAL CONCEPT PLAN EROSION AND SEDIMENT CONTROL PLAN

Discipline Number:
ECP-6
Sheet Number:
6 OF 7



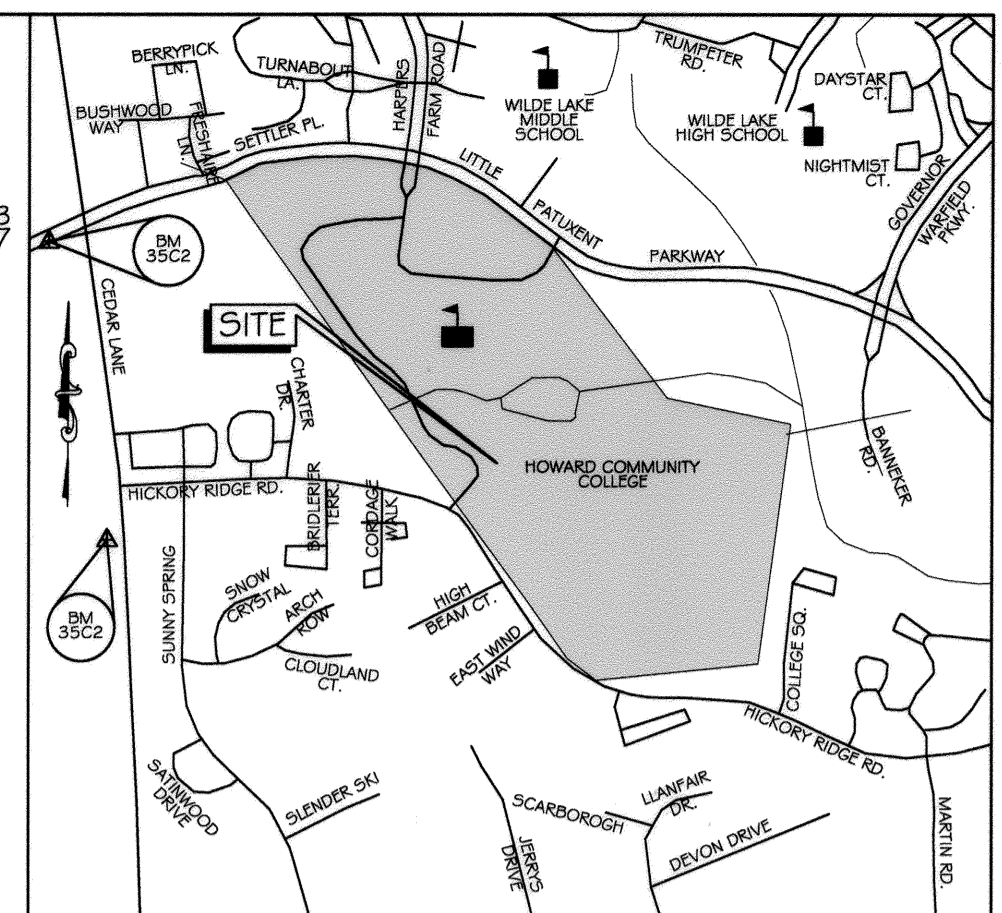
BENCHMARK DATA

HORIZONTAL NAD83(91) AND VERTICAL (NGVD29) CONTROL BASED ON GPS OBSERVATIONS. HOWARD COUNTY BENCH MARK NO. 5

	NORTHING	EASTING	ELEV.
35C2	563920.830	1344204.150	464.133
35C2	562148.450	1344554.472	452.267

LEGEND

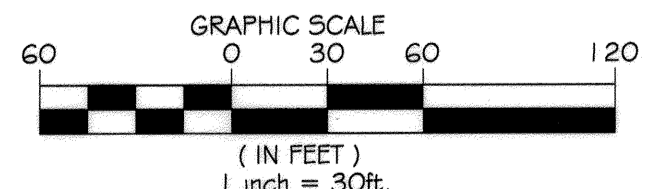
- AGIP AT-GRADE INLET PROTECTION
- CIP CURB INLET PROTECTION
- SIP STANDARD INLET PROTECTION
- LOD LIMIT OF DISTURBANCE
- DI DIVERSION DIKE
- SFD SUPER FENCE DIVERSION
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- SF SILT FENCE
- TP TREE PROTECTION FENCE
- BOF BLAZE ORANGE FENCE
- TSOS TEMPORARY STONE GABION OUTLET STRUCTURE
- TSOS TEMPORARY STONE OUTLET STRUCTURE
- SCS STABILIZED CONSTRUCTION ENTRANCE
- SCS SEDIMENT CONTROL FEATURES
- CD DRAINAGE DIVIDE LINE
- CD STONE CHECK DAM



VICINITY MAP
SCALE 1" = 1000'
ADC MAP: 4934 GRID K7

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EROSION AND SEDIMENT CONTROL PLAN - PHASE 2

SCALE: 1" = 30'

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AYERS SAINT GROSS
ARCHITECTS + PLANNERS
1940 Hill Street, Suite 100
Baltimore, MD 21202
P: 410.847.8500 F: 410.347.8419

APPROVED: Howard County Department of Planning & Zoning
Chief, Division of Land Development
2/18/21
2-19-21

Rev:	Date:	Description:	By:	Prepared For and Owner:
1				Howard Community College 10901 Little Patuxent Parkway Columbia, Maryland 21044 ATTN: Mr. Chuck Nightingale 410-772-4296

Project Name: **Howard Community College - MATHEMATICS & ATHLETICS COMPLEX**
ENVIRONMENTAL CONCEPT PLAN
PARCEL 47, TAX MAP 35, GRID 6
TAX ACCOUNT # 048688
ELECTION DISTRICT NO. 5
HOWARD COUNTY, MARYLAND

Date: 12-07-2020
Scale: 1" = 30'
Drawn By: F.F.W.
Designed By: F.F.W.
Approved By: N.A.B.
Project No: 271906728
Tax Map-Grid: 35-6
Zoning: POR & NT

Sheet Title: **ENVIRONMENTAL CONCEPT PLAN EROSION AND SEDIMENT CONTROL PLAN- PHASE 2**



Discipline Number: **ECP-7**
Sheet Number: **7 OF 7**