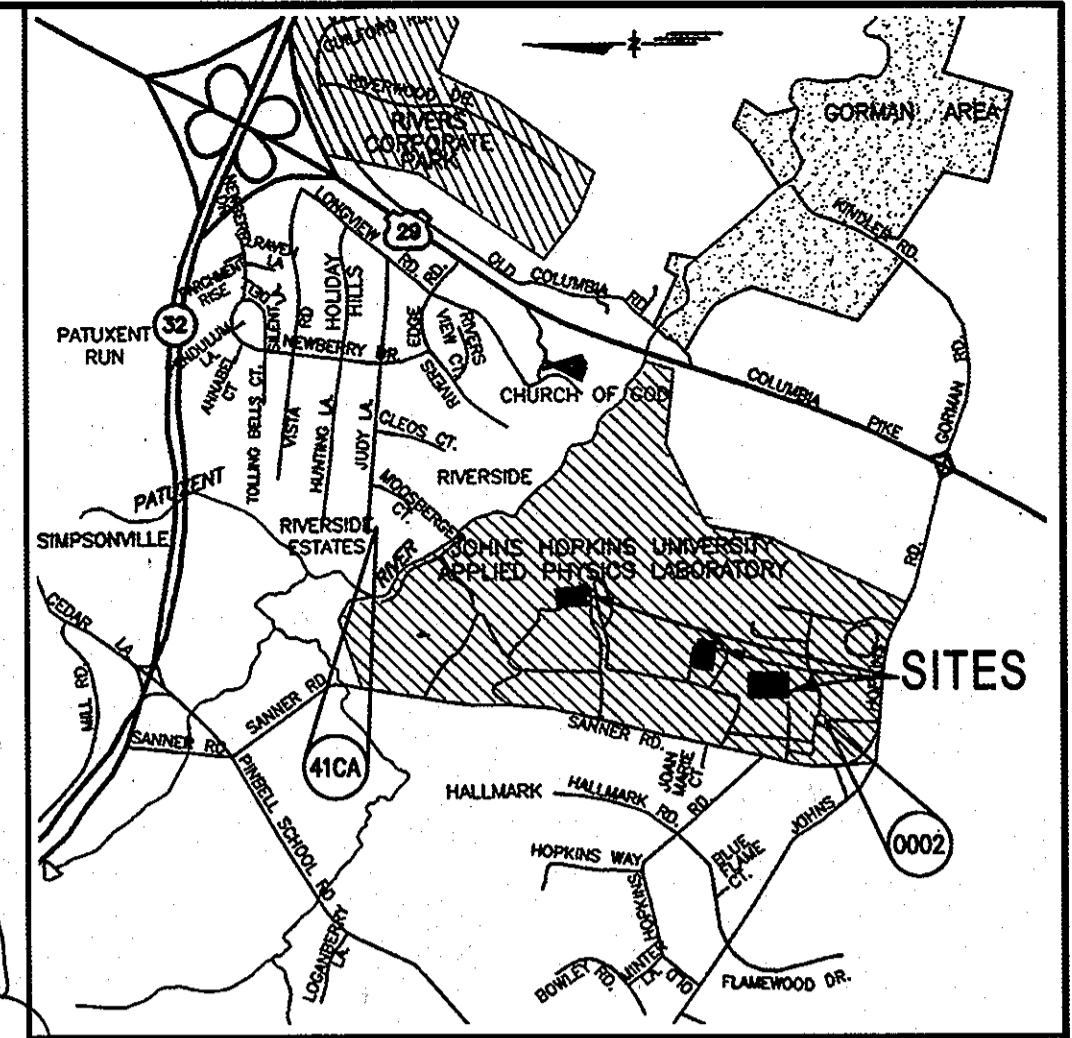
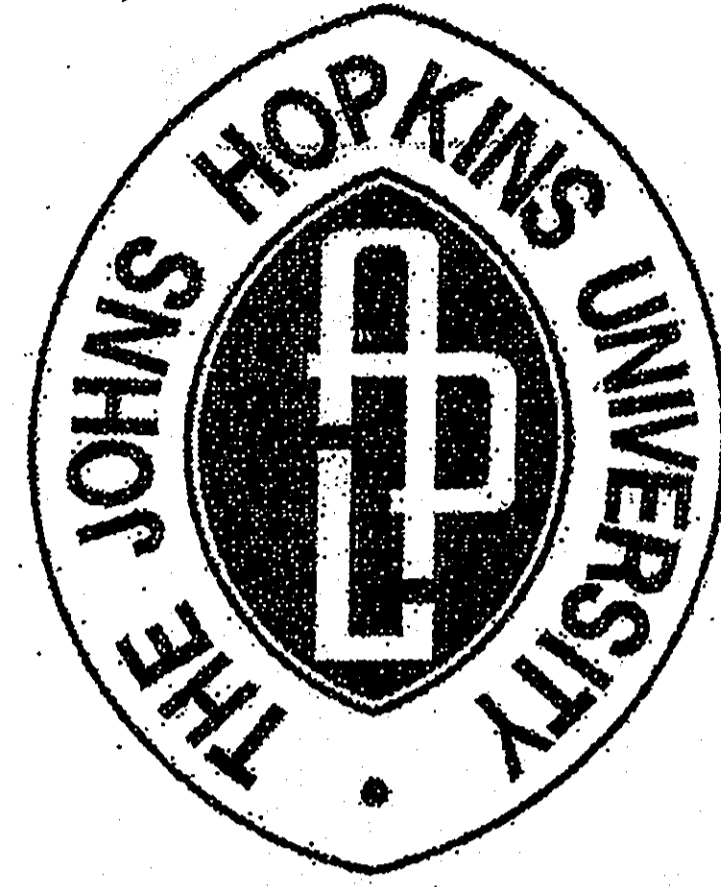


# THE JOHNS HOPKINS UNIVERSITY



VICINITY MAP  
Scale: 1"=2000'

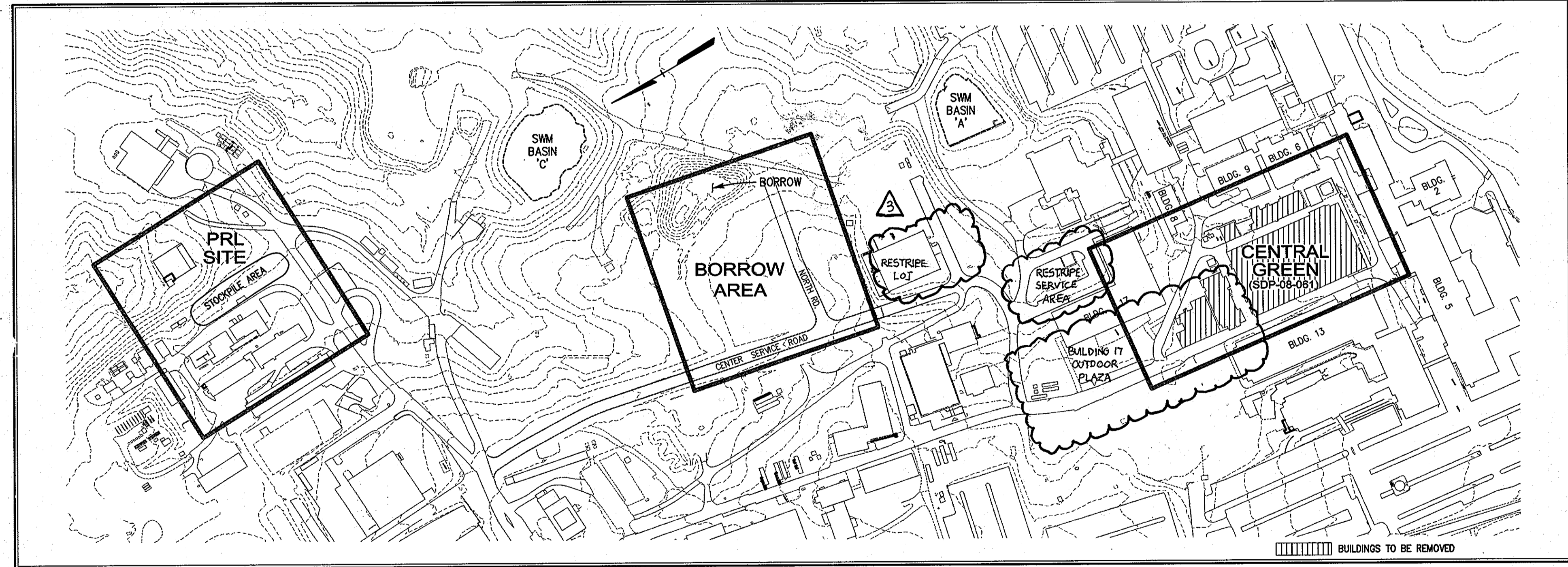
GEODETIC CONTROL  
0002: N 544836.5284 E 1340825.353 NOVD ELEV. 444.991  
41CA: N 550124.8623 E 1342960.8820 NOVD ELEV. 295.397  
ADC MAP 19, GRID A2

THIS STAMP AND SIGNATURE APPLY ONLY TO REVISION 3.

NOTE:  
THIS RED LINE SUBMISSION TO REVISE THE OUTDOOR PLAZA AREA IN FRONT OF BUILDING 17 AND REMOVE ASPHALT ALONG THE MAIN DRIVE IN FRONT OF BUILDING 17. SUBMISSION ALSO INCLUDES PARKING RESTRICTIONS BEHIND BUILDING 17 AND NEAR CENTER SERVICE ROAD.

1 OF 16 COVER SHEET  
2 OF 16 SITE PLAN  
4 OF 16 UTILITY PLAN  
5 OF 16 UTILITY PROFILES  
6 OF 16 STORM DRAIN DRAINAGE AREA MAPS  
8 OF 16 BUILDING 17 PLAZA SERVICE AREA LOT RESTRIPING, CENTRAL SERVICE ROAD LOT PARKING RESTRIPING, BUILDING 17 PLAZA GRADING & EROSION & SEDIMENT CONTROLS  
9 OF 16 BUILDING PLAZA STORMWATER MANAGEMENT DETAILS

# APPLIED PHYSICS LABORATORY



### LEGEND

- EX. MINOR CONTOUR ----- 391
- EX. MAJOR CONTOUR ----- 390
- EX. SPOT ELEVATION X 387.6
- EX. FIRE HYDRANT (sh)
- EX. STORM DRAIN ---SD---
- EX. WATER LINE ---W---
- EX. SANITARY SEWER ---S---
- EX. ELECTRIC LINE ---Elec---
- EX. COMMUNICATIONS LINE
- EX. MANHOLE (o)
- EX. INLET (o)
- EX. TREE LINE (o)
- EX. BUILDING (hatched)
- EX. CURB AND GUTTER (dashed)
- EX. BITUMINOUS PAVING (stippled)
- EX. CONCRETE SIDEWALK (dotted)
- EX. FENCE (dashed line)
- EX. WALL (dashed line)
- EX. CLEANOUT (o)
- EX. LIGHT STANDARD (o)
- EX. BUSH (o)
- EX. TREE (o)
- EX. PIPE BOLLARD (o)
- EX. UTILITY POLE (o)
- PROP. MINOR CONTOUR ----- 379
- PROP. MAJOR CONTOUR ----- 380
- PROP. SPOT ELEVATION +385.58
- PROP. CURB & GUTTER (dashed)

### SHEET INDEX

- 1 COVER SHEET
- 2 SITE PLAN
- 3 GRADING PLAN
- 4 UTILITY PLAN
- 5 UTILITY PROFILES AND NOTES
- 6 STORM DRAIN DRAINAGE AREA MAP AND FLOW TABULATIONS
- 7 EROSION & SEDIMENT CONTROL PLAN
- 8 BORROW AREA GRADING PLAN
- 9 BORROW AREA EROSION & SEDIMENT CONTROL PLAN
- 10 EROSION & SEDIMENT CONTROL DRAINAGE AREA MAP
- 11 BORROW AREA EROSION & SEDIMENT CONTROL DRAINAGE AREA MAP
- 12 PRL SITE STOCKPILE AREA EROSION & SEDIMENT CONTROL PLAN
- 13 PRL SITE STOCKPILE AREA EROSION & SEDIMENT CONTROL DRAINAGE AREA MAP
- 14 EROSION & SEDIMENT CONTROL SPECIFICATIONS AND NOTES
- 15 EROSION & SEDIMENT CONTROL DETAILS
- 16 DEMOLITION PLAN

### LOCATION MAP

Scale: 1"=200'

### PURPOSE OF PLAN

THIS SITE DEVELOPMENT PLAN IS FOR THE DEVELOPMENT OF THE CENTRAL GREEN. PHASE 1 COVERED THE DEMOLITION OF EXISTING STRUCTURES. PHASE 2 IS FOR THE SITE WORK NEEDED TO CREATE THE CENTRAL GREEN "PARK". THE BORROW AREA IS THE SOURCE OF FILL MATERIAL AND THE PRL SITE IS THE LOCATION WHERE CONCRETE RUBBLE FROM THE REMOVED BUILDING FOUNDATIONS WILL BE CRUSHED AND STOCKPILED.

### 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 NUMBER: 32574 EXPIRATION DATE: 1/16/10

### PREVIOUS SDP AND FINAL PLAN REFERENCES

- SDP-04-76: SERVICES AREA COMPLEX
- F-02-40: SWM BASIN 'A', APFO, FOREST CONSERVATION
- SDP-04-35: SWM BASIN 'C'
- SDP-90-218: BUILDING NO. 31 AND SWM BASIN 'C'
- SDP-99-63: B52
- F-02-77: SWM BASIN 'B'
- SDP-04-86: MAIN PARKING LOT
- SDP-04-133: BASIN 'C' SWM FACILITIES AND LAYDOWN AREA
- SDP-05-042: JHU/LIBRARIES SERVICE CENTER (FOREST CONSERVATION AND WETLANDS UPDATES)
- SDP-03-043: SANNER ROAD IMPROVEMENTS (NEW APFO NUMBER 4,600)
- SDP-05-050: BUILDINGS 12 AND 15, CENTER SERVICE ROAD AND SA-3
- SDP-05-133: PRECINCT 21, BUILDINGS 21 AND 43 (PARKING RATIO 1.62/1000)
- SDP-07-080: MP-6 CONDUIT PATHWAY
- F-04-188: FOREST CONSERVATION EASEMENT RE-PLAT
- F-04-140: SANNER ROAD SWM, STORM DRAINS AND UTILITY EASEMENT
- F-07-035: FOREST CONSERVATION, RE-PLAT EASEMENT

### SITE ANALYSIS CHART

- A. TOTAL PROJECT AREA: (JHU/APL CAMPUS) 357.98 ACRES/15,593,609 SQ.FT.
- B. AREA OF PLAN SUBMISSION: (CENTRAL GREEN) 2.91 AC. ± (BORROW AREA) 1.74 AC. ± (STOCKPILE PRL SITE AREA) 1.72 AC. ±
- C. LIMIT OF DISTURBED AREA: (CENTRAL GREEN) 2.91 AC. ± (BORROW AREA) 1.74 AC. ± (STOCKPILE PRL SITE AREA) 1.72 AC. ±
- D. PRESENT ZONING DESIGNATION: PEC
- E. PROPOSED USES FOR SITE AND STRUCTURES: RESEARCH CAMPUS PARK
- F. FLOOR SPACE ON EACH LEVEL OF BUILDING(S) PER USE: N/A
- G. TOTAL NUMBER OF UNITS ALLOWED FOR PROJECT AS SHOWN ON FINAL PLAT: N/A
- H. TOTAL NUMBER OF UNITS PROPOSED ON SUBMISSION: N/A
- I. MAXIMUM NUMBER OF EMPLOYEES, TENANTS ON SITE PER USE: 3937
- J. NUMBER OF PARKING SPACES REQUIRED BY HOWARD COUNTY ZONING REGULATIONS AND/OR FDP CRITERIA: 2450 (SDP-11)
- K. NUMBER OF PARKING SPACES PROVIDED ON SITE: 4949 (SDP-0466)
- L. OPEN SPACE ON SITE: N/A
- M. AREA OF RECREATION OPEN SPACE REQUIRED BY SUBDIVISION AND LAND DEVELOPMENT REGULATIONS: N/A
- N. BUILDING COVERAGE OF SITE: N/A
- O. APPLICABLE DPZ FILE REFERENCES: N/A
- P. ANY OTHER INFORMATION WHICH MAY BE RELEVANT: N/A
- Q. FLOOR AREA RATIO (FAR): N/A

### GENERAL NOTES

1. UNLESS OTHERWISE NOTED, ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST HOWARD COUNTY PLUMBING CODE AND DEPARTMENT OF PUBLIC WORKS STANDARD SPECIFICATIONS AND DETAILS. IN CASE OF CONFLICT OR DISCREPANCY, THE PLUMBING CODE SHALL APPLY.
2. EXISTING SITE FEATURES AND UTILITIES SHOWN HAVE BEEN BASED UPON SURVEYS AND OTHER SOURCES BELIEVED TO BE RELIABLE. THE CORRECTNESS OR COMPLETENESS OF THE INFORMATION SHOWN IS NOT GUARANTEED. THE CONTRACTOR SHALL VERIFY ALL INFORMATION BEFORE COMMENCING WORK.
3. THE CONTRACTOR SHALL NOTIFY MISS UTILITY AT 1-800-257-7777 A MINIMUM OF FIVE WORKING DAYS PRIOR TO CONSTRUCTION.
4. THE CONTRACTOR SHALL MAINTAIN, REPAIR, AND/OR REPLACE ANY EXISTING SEDIMENT CONTROL DEVICES ENCOUNTERED AND DISTURBED DURING THE COURSE OF CONSTRUCTION AT THE END OF EACH DAY. ALL MEASURES AND DEVICES SHALL BE REPAIRED OR REPLACED BEFORE LEAVING THE WORK SITE.
5. CONSTRUCTION SHALL FOLLOW THE SEQUENCE OF CONSTRUCTION ON THE APPROVED EROSION AND SEDIMENT CONTROL DRAWINGS.
6. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS AND INSPECTIONS.
7. THE CONTRACTOR SHALL MAINTAIN TRAFFIC AT ALL TIMES.
8. NUMERICALLY WRITTEN DIMENSIONS SHALL TAKE PRECEDENCE OVER SCALED DIMENSIONS.
9. UNLESS OTHERWISE NOTED, DIMENSIONS FROM CURB ARE MEASURED AT FACE OF CURB.
10. ALL GRADING AND EXCAVATION SHALL BE INSPECTED BY A GEOTECHNICAL ENGINEER.
11. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION AND DEPTH OF ALL EXISTING UTILITIES, AS NECESSARY PRIOR TO INSTALLING STORM DRAINS. REPORT ANY DISCREPANCIES FROM THE PLANS TO CENTURY ENGINEERING, INC. ALL UTILITIES SHALL BE RETAINED UNLESS LABELED OTHERWISE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS AND WORK REQUIRED TO ADJUST EXISTING AND PROPOSED UTILITIES AND APPURTENANCES TO FINISH GRADES WITHIN THE LIMITS OF WORK. DAMAGE TO EXISTING CONDITIONS AND UTILITIES SHALL BE REPAIRED TO THE OWNER'S SATISFACTION AT THE EXPENSE OF THE CONTRACTOR. THE ULTIMATE STATUS OF ALL EXISTING ELECTRICAL, TELEPHONE AND LIGHT POLES WITHIN THE LIMIT OF DISTURBANCE SHALL BE COORDINATED WITH FIELD ENGINEER FROM JHU/APL.
12. THE CONTRACTOR SHALL HAVE ALL PRIVATE UTILITIES LOCATED PRIOR TO ANY CONSTRUCTION.
13. EXISTING UTILITIES WHICH ARE NOT TO BE REMOVED OR ABANDONED SHALL REMAIN OPERATIONAL AT ALL TIMES. APPROPRIATE EXISTING UTILITIES SHALL REMAIN IN SERVICE UNTIL REPLACEMENT/RELOCATED UTILITIES ARE OPERATIONAL.
14. THE CONTRACTOR SHALL COORDINATE INSTALLATION OF ALL UTILITIES TO AVOID CONSTRUCTION PROBLEMS/CONFLICTS WITH EROSION AND SEDIMENT CONTROL MEASURES. SEE APPROVED SEDIMENT CONTROL PLAN.
15. THE CONTRACTOR SHALL MAINTAIN 2.0 FEET MINIMUM COVER OVER ALL UTILITIES DURING CONSTRUCTION.
16. UNLESS OTHERWISE NOTED, ALL PROPOSED WATER LINES SHALL HAVE FOUR FEET MINIMUM COVER, 1.0 FEET MINIMUM VERTICAL CLEARANCE FROM ALL STORM DRAIN LINES, AND 1.0 FEET MINIMUM VERTICAL CLEARANCE ABOVE SANITARY SEWER LINES.
17. THE SUBJECT PROJECT IS ZONED PEC PER THE FEBRUARY 2, 2004 COMPREHENSIVE ZONING PLAN AND THE COMP-LITE ZONING AMENDMENT.
18. NO GRADING, REMOVAL OF VEGETATIVE COVER OR TREES, PAVING AND NEW STRUCTURES SHALL BE PERMITTED WITHIN ANY REQUIRED WETLANDS, STREAMS OR THEIR BUFFERS, FOREST CONSERVATION EASEMENT AREAS AND/OR 100 YEAR FLOODPLAIN. NONE ARE LOCATED WITHIN 100 FEET OF THE LIMIT OF DISTURBANCE.
19. THE COORDINATES HEREON ARE BASED UPON THE HOWARD COUNTY GEODETIC CONTROL WHICH IS BASED UPON THE MARYLAND STATE PLANE COORDINATE SYSTEM. GEODETIC CONTROLS 0002 AND 41CA.
20. WATER SERVICE IS PUBLIC.
21. SEWER SERVICE IS PUBLIC.
22. THE SITE IS LOCATED IN THE MIDDLE PATUXENT WATERSHED.
23. STORMWATER MANAGEMENT PROVIDED FOR CENTRAL GREEN IN ON-CAMPUS STORMWATER MANAGEMENT FACILITY SWM BASIN 'A'. IMPERVIOUS COVER REMOVED: 2.40 ACRES. IMPERVIOUS COVER ADDED (OR RESURFACED): 0.22 ACRES. IMPERVIOUS COVER REDUCED BY 2.18 ACRES OR SOIL CONSERVATION PRACTICES PROVIDED FOR IN SWM BASIN 'C'. NO CHANGE IN IMPERVIOUS AREA. PRL SITE SWM PROVIDED FOR BY OVERMANAGEMENT IN SWM BASIN 'A'.
24. NO TRAFFIC STUDY IS REQUIRED FOR THIS PROJECT BECAUSE NO TRAFFIC IS GENERATED BY THE APPROVAL OF THIS PROJECT.
25. THERE ARE NO STEEP SLOPES, FLOODPLAINS OR WETLANDS LOCATED IN THE AREAS OF PLAN SUBMISSION.
26. THIS PROJECT COMPLIES WITH THE REQUIREMENTS OF SECTION 16.1200 OF THE HOWARD COUNTY CODE FOR FOREST CONSERVATION BY F-02-40.
27. NO PERIMETER LANDSCAPING IS REQUIRED FOR THIS PLAN DUE TO INTERIOR LOCATION OF THE SITE.
28. SOIL MAP IS SHEET NUMBER 29, HOWARD COUNTY SOIL SURVEY.

NOTE:  
THIS RED LINE SUBMISSION IS TO REALIGN THE SERVICE ROAD TO BUILDINGS 7, 8 AND 9.

THE FOLLOWING SHEETS ARE MODIFIED:  
1 OF 16 COVER SHEET  
2 OF 16 SITE PLAN  
3 OF 16 GRADING PLAN  
4 OF 16 UTILITY PLAN  
5 OF 16 UTILITY PROFILES & NOTES  
6 OF 16 STORM DRAIN DRAINAGE AREA MAPS & FLOW TABULATIONS  
7 OF 16 EROSION & SEDIMENT CONTROL PLAN  
10 OF 16 EROSION & SEDIMENT CONTROL DRAINAGE AREA MAP  
15 OF 16 EROSION & SEDIMENT CONTROL DETAILS  
16 OF 16 DEMOLITION



NOTE:  
THIS SDP IS A REVISION TO PREVIOUSLY APPROVED SDP08-061 AND REFLECTS THE CONSOLIDATION OF SUBSTATIONS #2 AND #3 AND THE INSTALLATION OF RELATED ELECTRICAL AND TELE-COMMUNICATIONS DUCT BANKS.

ADDRESS CHART	
LOT/PARCEL No.	STREET ADDRESS
1	11100 JOHNS HOPKINS ROAD

PERMIT INFORMATION CHART			
SUBDIVISION NAME	SECTION/AREA	LOT/PARCEL No.	
JOHNS HOPKINS UNIVERSITY - APL	N/A	1	
PLAT OR L.P. NO.	CHD #	ZONING	ELECT. DISTRICT
15452	16	PEC	5-05
WATER CODE	E-21	SEWER CODE	6480000

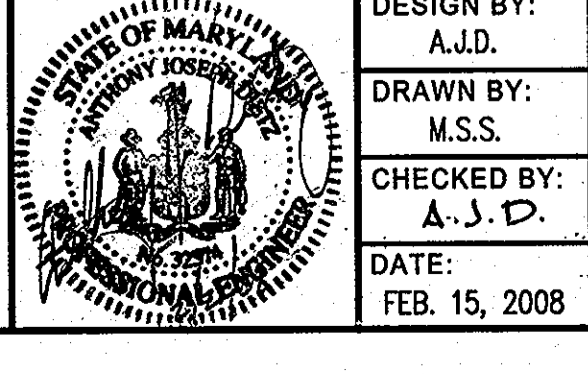
APPROVED: DEPARTMENT OF PLANNING AND ZONING

*[Signature]* 2/17/08  
Chief, Development Engineering Division  
Date

*[Signature]* 3/19/08  
Chief, Division of Land Development  
Date

*[Signature]* 3/19/08  
Director  
Date

**CENTURY ENGINEERING**  
CONSULTING ENGINEERS - PLANNERS  
10710 Gilroy Road, Hunt Valley, MD 21031  
Phone: 443.589.2400 Fax: 443.589.2401



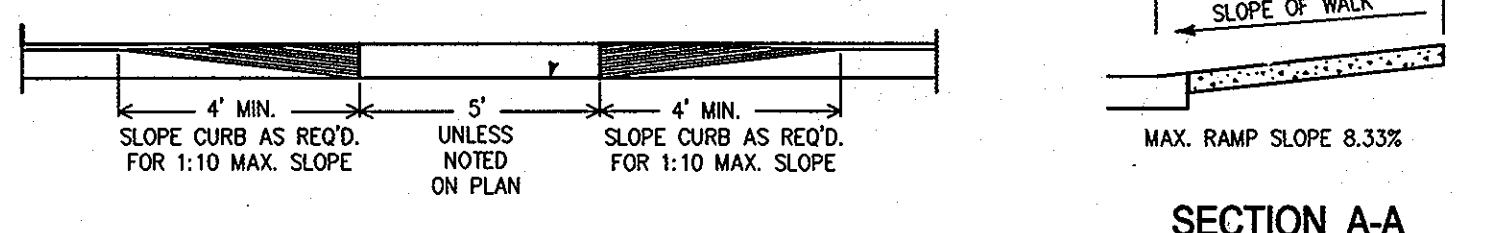
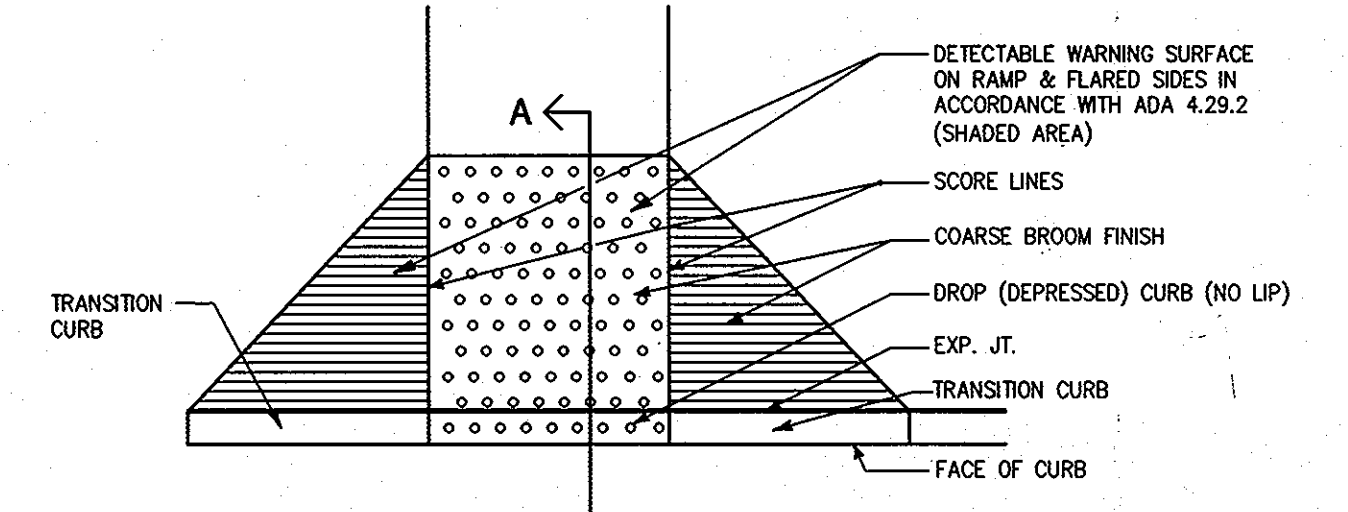
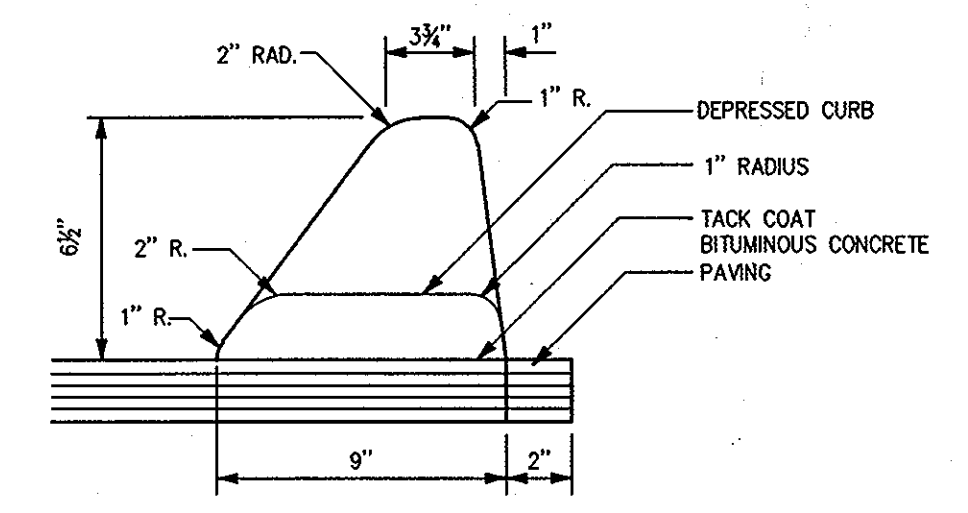
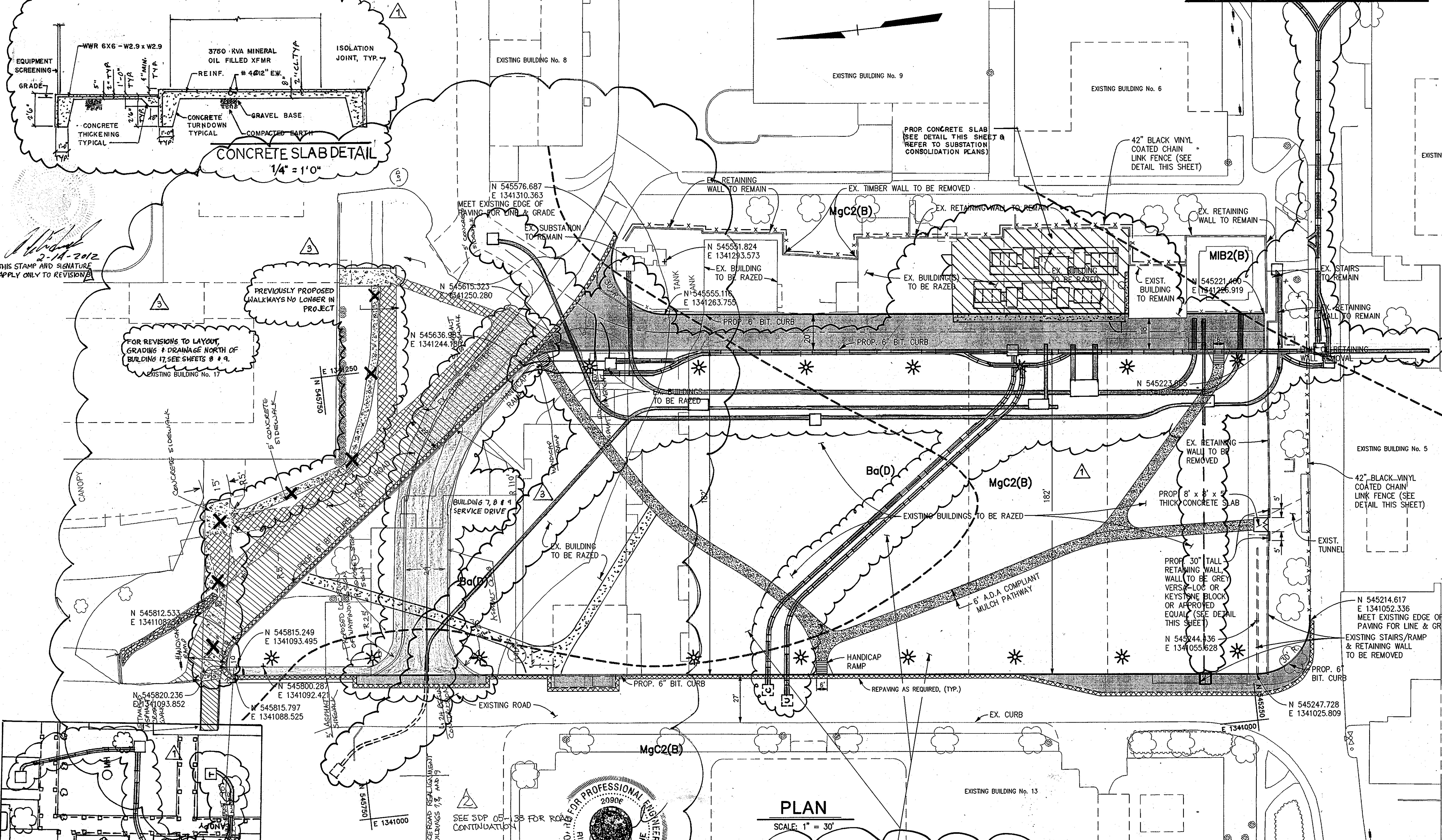
DESIGN BY:	DATE:	BY:	NO.	REVISION	DATE
A.J.D.					
DRAWN BY:					
M.S.S.					
CHECKED BY:					
A.J.D.					
DATE:					
FEB. 15, 2008					

THE JOHNS HOPKINS UNIVERSITY  
APPLIED PHYSICS LABORATORY  
11100 JOHNS HOPKINS ROAD  
LAUREL, MARYLAND 20723-6099  
443-778-5134

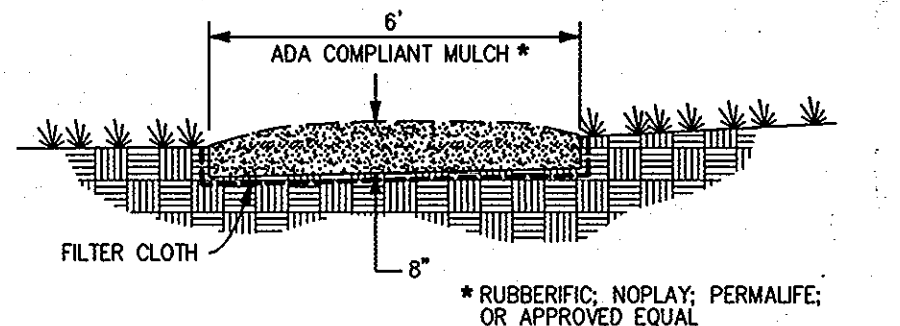
COVER SHEET  
"CENTRAL GREEN, PHASE 2"  
JOHNS HOPKINS UNIVERSITY PROPERTY  
TAX MAP: 41 GRID: 16 PARCEL: 123  
ELECTION DISTRICT 5-05 HOWARD COUNTY, MARYLAND  
SHEET 1 OF 16 (RESTRICTED FILE)

C.E.I. PROJECT NUMBER  
22172.25  
SCALE:  
AS SHOWN

MATCHLINE : SEE INSET BELOW



Handicapped Ramp Type I NOT TO SCALE



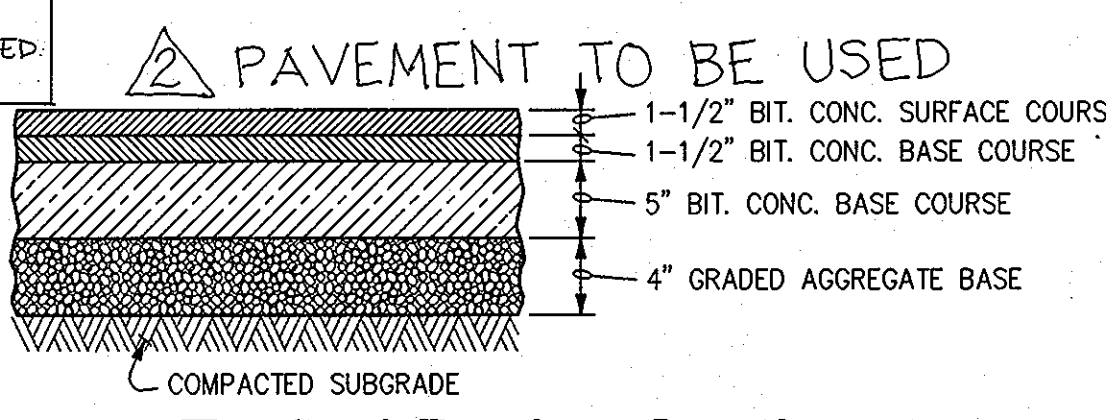
Pathway Detail NOT TO SCALE

LEGEND

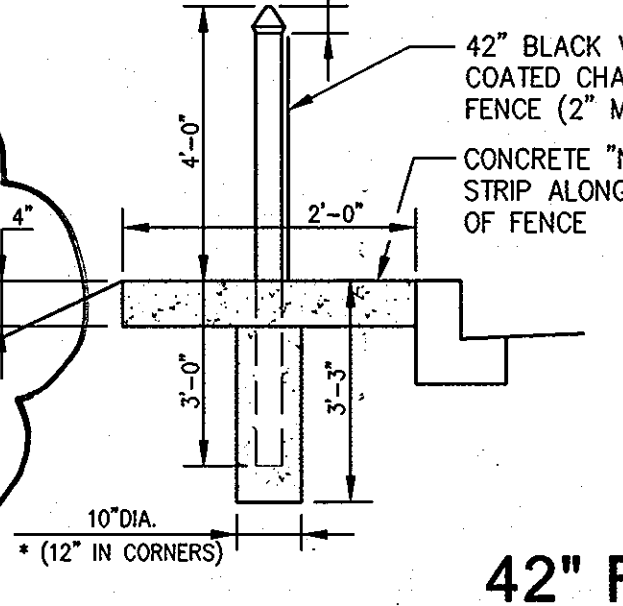
- PROP. TELECOM DUCT BANK
- PROP. ELECTRIC DUCT BANK
- PROP. CONCRETE SLAB FOR SUBSTATION
- EX. CONCRETE SIDEWALK
- EX. FENCE
- EX. WALL
- EX. TREE LINE
- EX. BUILDING
- EX. CURB AND GUTTER
- EX. BITUMINOUS PAVING
- EX. RETAINING WALL TO REMAIN
- PROP. CURB & GUTTER
- PROP. A.D.A. COMPLIANT MULCH SIDEWALK
- PROPOSED PAVING
- PROPOSED REPAVING
- SOIL LIMITS
- LIGHT FIXTURES

PLAN SCALE: 1" = 30'

ENTIRE LAWN AREA TO BE PROVIDED WITH A MINIMUM OF 4" OF SCREENED TOPSOIL (NO DEBRIS 3/4" OR LARGER)



Typical Paving Section (HOWARD COUNTY STANDARD P-4 PAVING SECTION) NOT TO SCALE

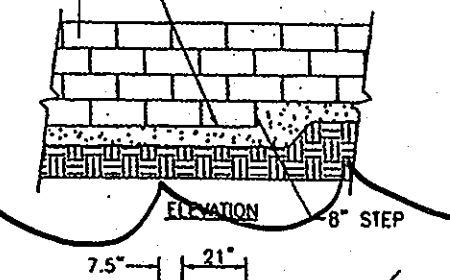
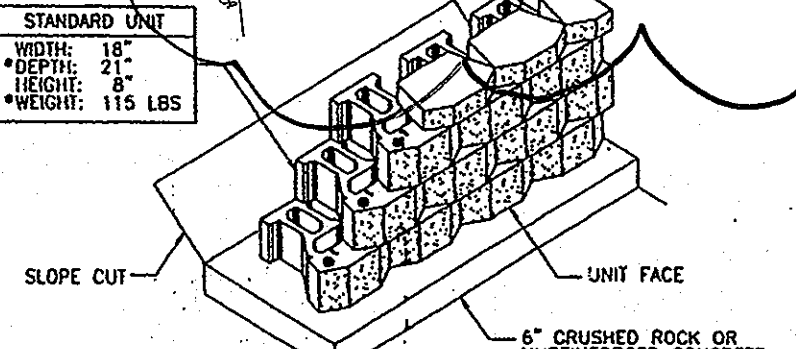


42" FENCE DETAIL NOT TO SCALE

REFER TO HOWARD COUNTY STD. DETAIL G.8.01 FOR ADDITIONAL INFORMATION

MATCHLINE : SEE PLAN ABOVE

- BASE LEVELING PAD NOTES:
- THE LEVELING PAD IS TO BE CONSTRUCTED OF CRUSHED STONE OR 2000 P.S.I. UNREINFORCED CONCRETE.
  - THE BASE FOUNDATIONS TO BE APPROVED BY THE SUB GEOTECHNICAL ENGINEER PRIOR TO PLACEMENT OF THE LEVELING PAD.



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 NUMBER: 32574 EXPIRATION DATE: 1/16/10

APPROVED: DEPARTMENT OF PLANNING AND ZONING. Chief, Development Engineering Division: [Signature] Date: 3/17/08. Chief, Division of Land Development: [Signature] Date: 3/19/08.

CENTURY ENGINEERING CONSULTING ENGINEERS - PLANNERS 10710 Gilroy Road, Hunt Valley, MD 21031 Phone: 443.589.2400 Fax: 443.589.2401

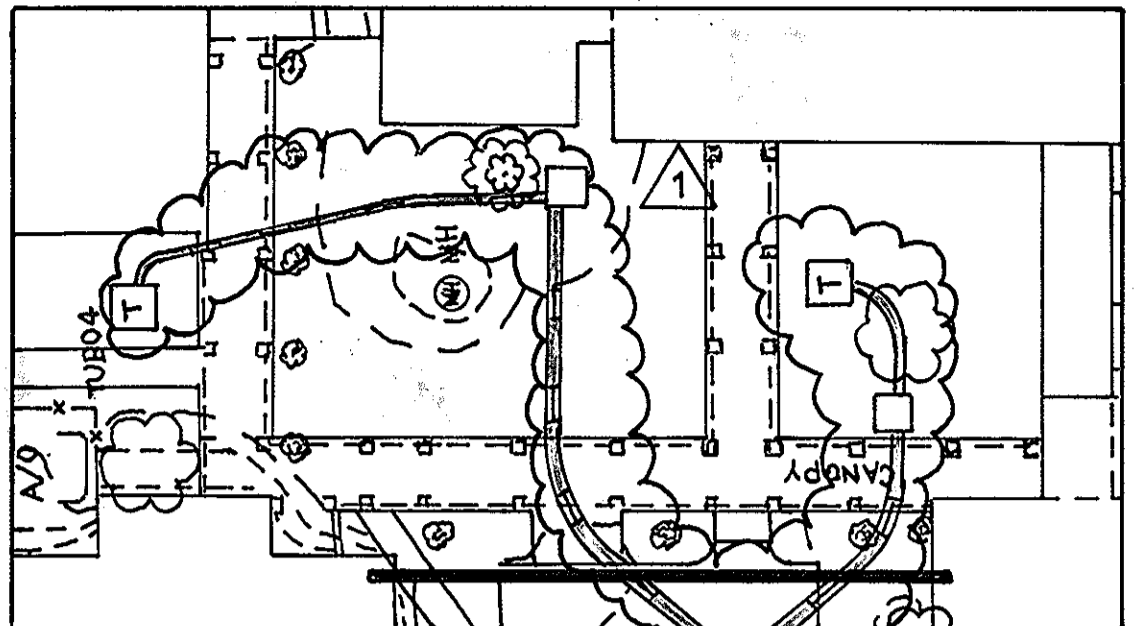
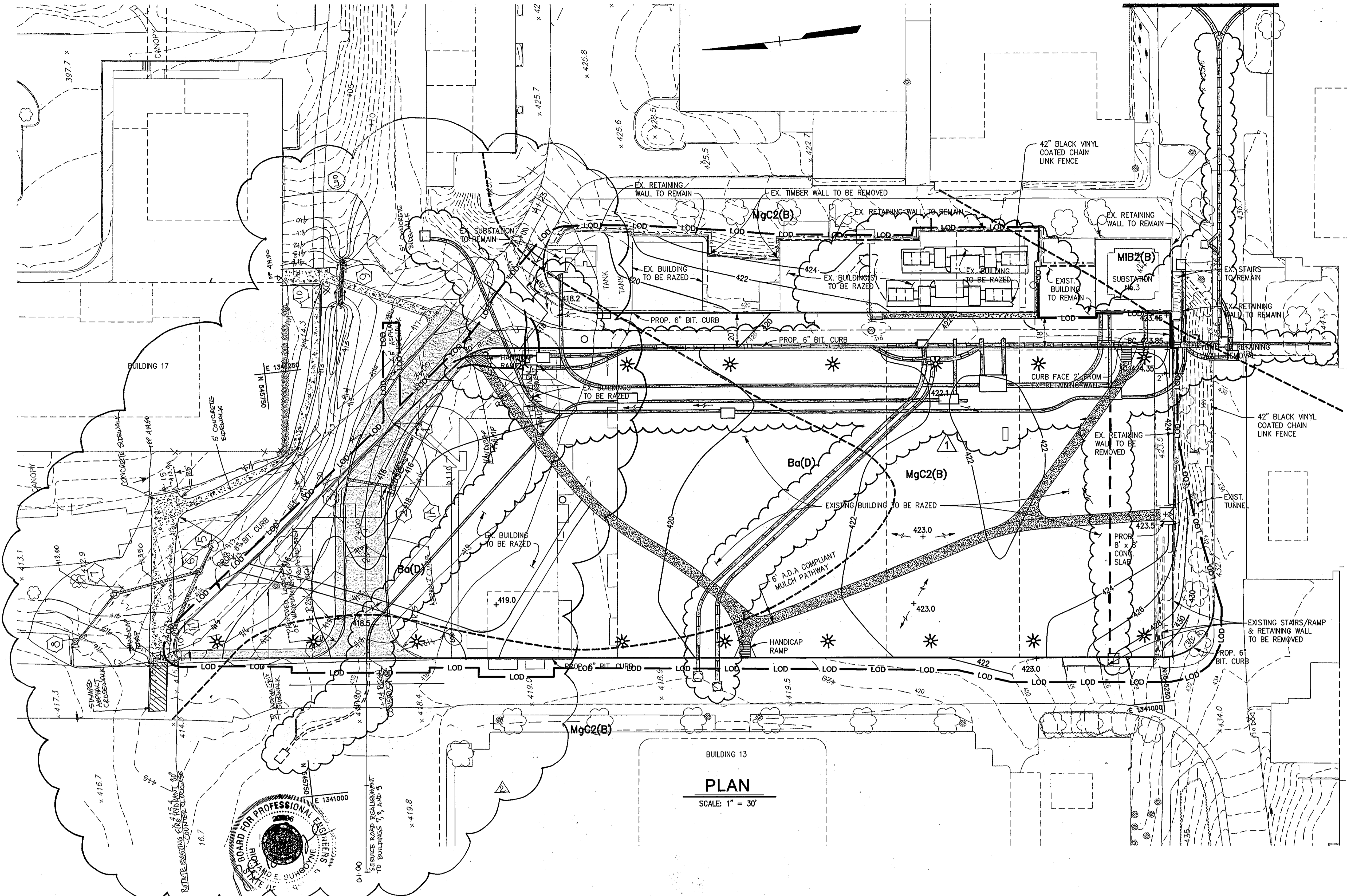


DESIGN BY:	A.J.D.			
DRAWN BY:	M.S.S.			
CHECKED BY:	A.J.D.	AFE	BUILDING 17 OUTDOOR PLAZA, ASPHALT REMOVAL IN FRONT OF BUILDING 17, RESTRIPIPING BEHIND BUILDING 17 AND CENTER SERVICE LOT	2/15/12
DATE:	FEB. 15, 2008	REB	SERVICE ROAD REALIGNMENT TO BUILDINGS 7, 8, 9	3/10/10
		RDT	ADD SUBSTATION CONSOLIDATION & DUCT BANKS	05-18-08
		BY NO.	REVISION	DATE

THE JOHNS HOPKINS UNIVERSITY APPLIED PHYSICS LABORATORY 11100 JOHNS HOPKINS ROAD LAUREL, MARYLAND 20723-6099 443-778-5134

SITE PLAN "CENTRAL GREEN, PHASE 2" JOHNS HOPKINS UNIVERSITY PROPERTY TAX MAP: 41 GRID: 16 PARCEL: 123 ELECTION DISTRICT 5-05 HOWARD COUNTY, MARYLAND SHEET 2 OF 16 (RESTRICTED FILE)

C.E.I. PROJECT NUMBER 22172.25 SCALE: 1"=30'



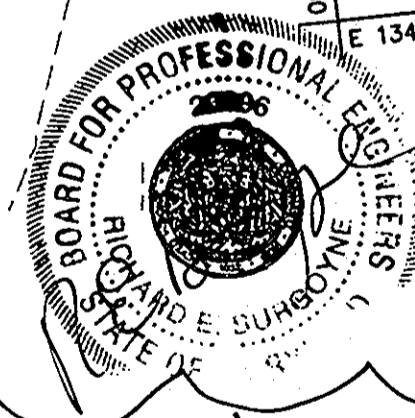
MATCHLINE : SEE PLAN LEFT

**PLAN**

SCALE: 1" = 30'

**LEGEND**

- EX. CONCRETE SIDEWALK
- EX. FENCE
- EX. WALL
- EX. TREE LINE
- EX. BUILDING
- EX. CURB AND GUTTER
- EX. BITUMINOUS PAVING
- EX. RETAINING WALL TO REMAIN
- PROP. CURB & GUTTER
- PROP. A.D.A. COMPLIANT MULCH SIDEWALK
- PROP. INLETS & MANHOLES
- PROP. MINOR CONTOUR
- PROP. MAJOR CONTOUR
- PROP. SPOT ELEVATION
- LIMIT OF DISTURBANCE
- SOIL LIMITS
- SOIL SERIES
- PROP. TELECOM DUCT BANK
- PROP. ELECTRIC DUCT BANK
- LIGHT FIXTURES



FOR REVISION

SEE SDP-05-133 FOR ROAD CONTINUATION

**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 NUMBER: 92574 EXPIRATION DATE: 1/16/10

**JHU/APL INTERNAL USE**  
THIS DATA SHALL NOT BE DISCLOSED TO A THIRD PARTY AND SHALL NOT BE DUPLICATED, USED, OR DISCLOSED IN WHOLE OR IN PART FOR ANY PURPOSE OTHER THAN TO EVALUATE THIS RFP OR, IN THE CASE OF A CONTRACT AWARD, TO PERFORM THE WORK REQUIRED HEREUNDER, WITHOUT THE EXPRESS WRITTEN CONSENT OF JHU/APL.

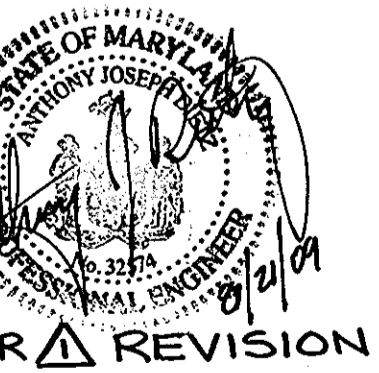
APPROVED: DEPARTMENT OF PLANNING AND ZONING  
*John P. ...* 3/17/08  
 Chief, Development Engineering Division  
*...* 3/19/08  
 Chief, Division of Land Development  
*...* 3/19/08  
 Director

**CENTURY ENGINEERING**  
 CONSULTING ENGINEERS - PLANNERS  
 10710 Gilroy Road, Hunt Valley, MD 21031  
 Phone: 443.589.2400 Fax: 443.589.2401



DESIGN BY:	A.J.D.			
DRAWN BY:	M.S.S.			
CHECKED BY:	A.J.D.			
DATE:	FEB. 15, 2008	REB	△	SERVICE ROAD REALIGNMENT TO BUILDINGS 7, 8, 9
		RDT	△	ADD SUBSTATION CONSOLIDATION & DUCT BANKS
		BY	NO.	REVISION
				DATE

**THE JOHNS HOPKINS UNIVERSITY APPLIED PHYSICS LABORATORY**  
 11100 JOHNS HOPKINS ROAD  
 LAUREL, MARYLAND 20723-6099  
 443-778-5134



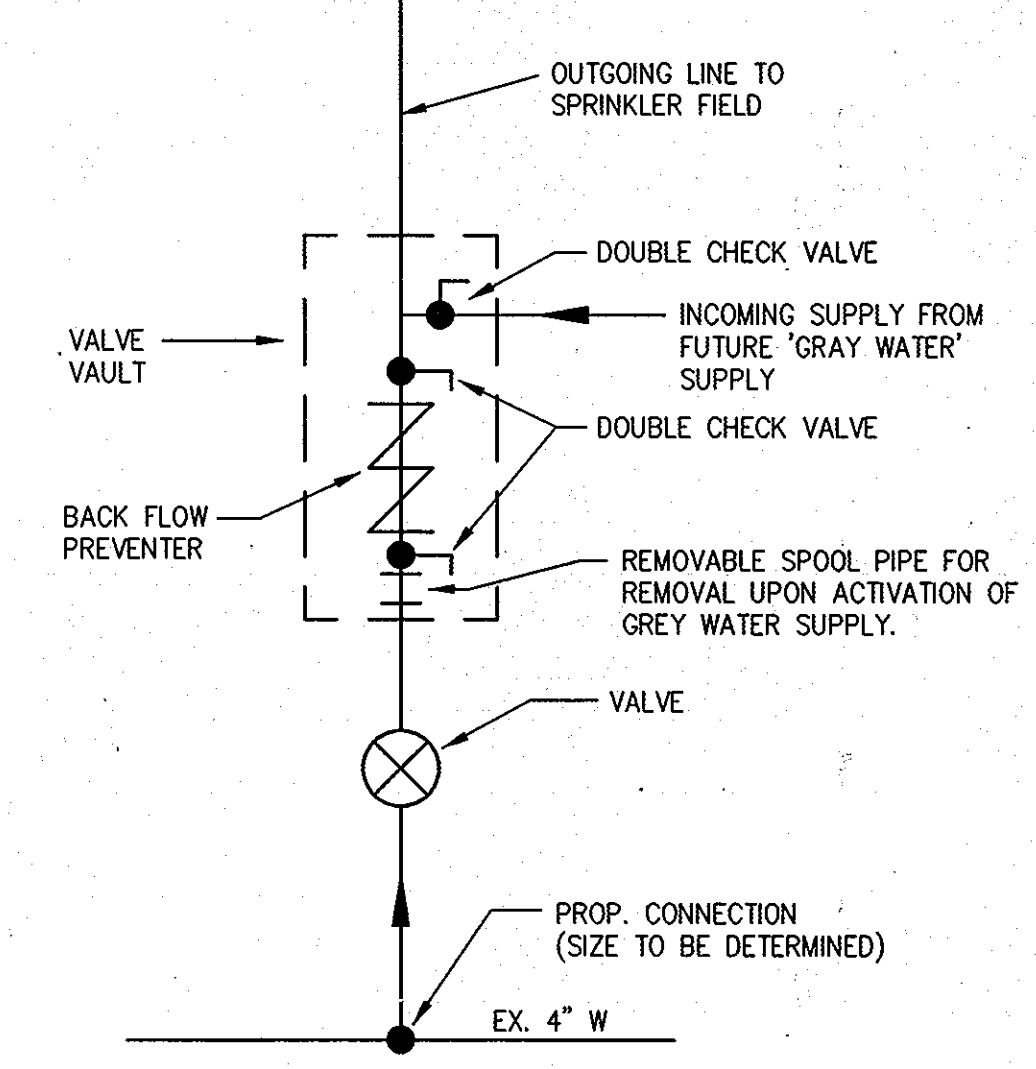
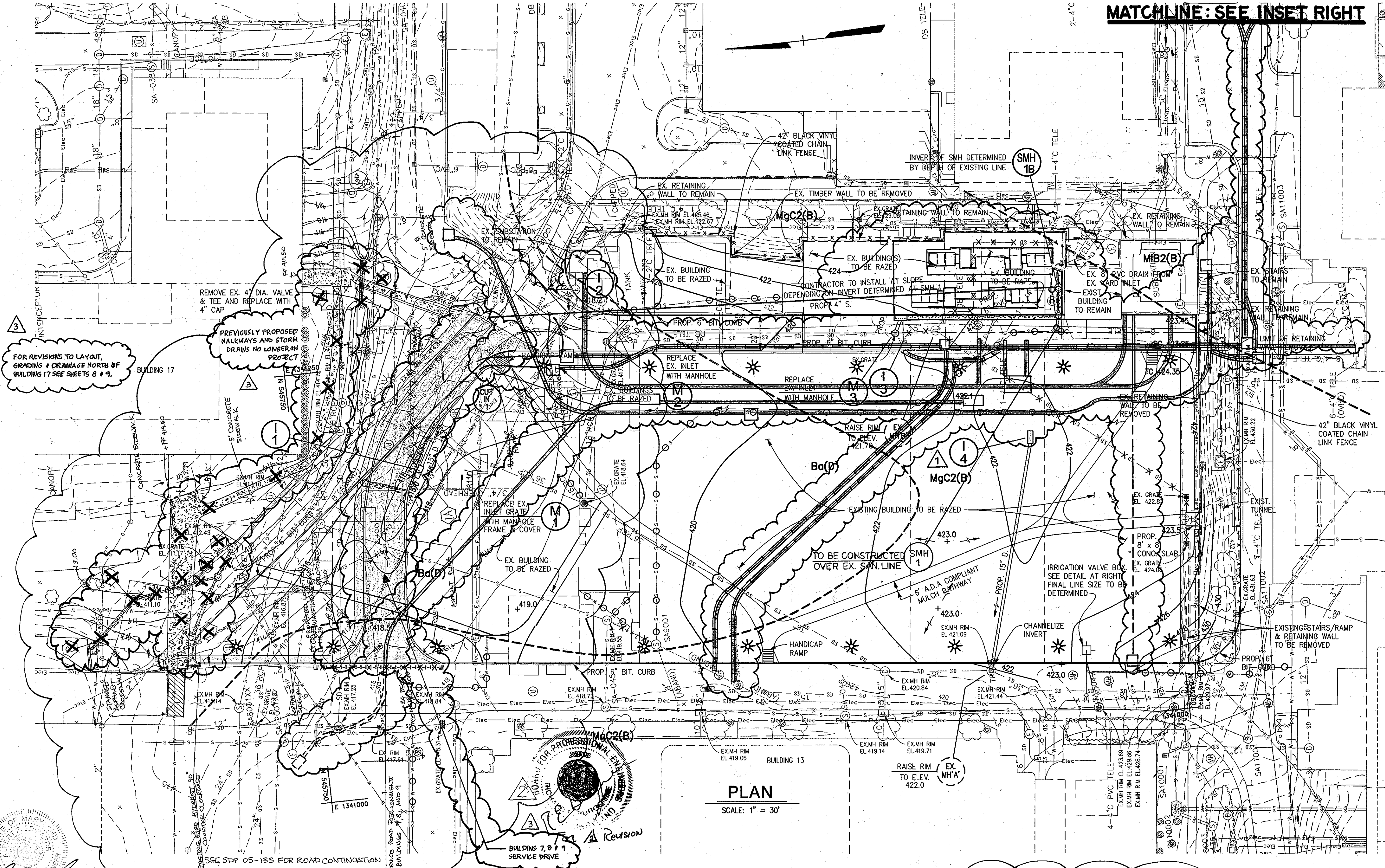
FOR REVISION

**GRADING PLAN**  
**"CENTRAL GREEN, PHASE 2"**  
 JOHNS HOPKINS UNIVERSITY PROPERTY  
 TAX MAP: 41 GRID: 16 PARCEL: 123  
 ELECTION DISTRICT 5-05 HOWARD COUNTY, MARYLAND  
 SHEET 3 OF 16 (RESTRICTED FILE)

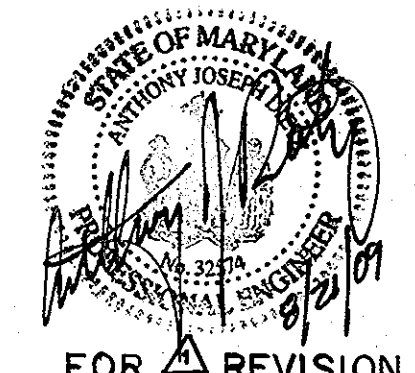
C.E.I. PROJECT NUMBER 22172.25  
 SCALE: 1"=30'

MATCHLINE: SEE INSET RIGHT

MATCHLINE: SEE PLAN LEFT



**IRRIGATION SYSTEM VALVE & CONNECTION SCHEMATIC DETAIL**  
NOT TO SCALE



**LEGEND**

EXISTING VAULT	--- 391 ---	EX. LIGHT STANDARD	⊕
PROP. VAULT	--- 390 ---	EX. BUSH	⊙
PROP. TELECOM DUCT BANK	× 387.6	EX. TREE	⊗
PROP. ELECTRIC DUCT BANK	⊕	EX. PIPE BOLLARD	⊙
	SD	EX. UTILITY POLE	⊙
	W	EX. WATER LINE	—
	S	EX. SANITARY SEWER	—
	Elec	EX. ELECTRIC LINE	—
	— X — SD — X —	EX. UTILITY TO BE REMOVED	— X — SD — X —
	⊙	EX. MANHOLE	⊙
	⊙	EX. INLET	⊙
	⊙	EX. TREE LINE	⊙
	⊙	EX. BUILDING	⊙
	⊙	EX. CURB AND GUTTER	⊙
	⊙	EX. BITUMINOUS PAVING	⊙
	⊙	EX. CONCRETE SIDEWALK	⊙
	⊙	EX. FENCE	⊙
	⊙	EX. WALL	⊙
	⊙	EX. CLEANOUT	⊙
	---	SOIL LIMITS	---
	---	SOIL SERIES	---
	---	SOIL FIXTURES	---

**PLAN**  
SCALE: 1" = 30'

**SANITARY SEWER STRUCTURE SCHEDULE**

STRUCTURE NUMBER	TOP ELEV.	INVERT IN	INVERT OUT	STRUCTURE TYPE	HOWARD CO. STD. DETAIL No.
SMH-1B	423.1	*	418.47	4'-0" DIA. PRE-CAST	GS.14
SMH-1	422.71	TO BE DETERMINED IN FIELD		4'-0" DIA. PRE-CAST	GS.14

\* TO BE DETERMINED

**STORM DRAIN STRUCTURE SCHEDULE**

STRUCTURE NUMBER	TOP ELEV.	INVERT IN	INVERT OUT	STRUCTURE TYPE	HOWARD CO. STD. DETAIL No.
1-1	415.00*	---	405.60	DOUBLE TYPE 'S'	SD-4.23
1-2	418.75**	---	414.75	DOUBLE TYPE 'S'	SD-4.23
1-3	421.2**	---	417.18	DOUBLE TYPE 'S'	SD-4.23
1-4	421.30**	---	417.30	DOUBLE TYPE 'S'	SD-4.23
M-1	419.1	412.86	404.34	MANHOLE	MD SHA 374.55 & HO.CO. G 5.12
M-2	418.60	414.07***	413.97***	4' DIA. MANHOLE	G 5.12
M-3	421.10	416.55***	416.55	4' DIA. MANHOLE	G 5.12
CUT-IN 1	N/A	399.73	400.60	FIELD CONNECTION	D-9.03

\* TOP OF GRATE AT CENTERLINE OF STRUCTURE  
\*\* TOP OF GRATE AT CENTERLINE OF STRUCTURE AT FACE OF CURB  
\*\*\* EXISTING INVERT ELEVATION

**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 NUMBER: 32574      EXPIRATION DATE: 1/14/10

**JHU/APL INTERNAL USE**  
THIS DATA SHALL NOT BE DISCLOSED TO A THIRD PARTY AND SHALL NOT BE DUPLICATED, USED, OR DISCLOSED IN WHOLE OR IN PART FOR ANY PURPOSE OTHER THAN TO EVALUATE THIS RFP OR, IN THE CASE OF A CONTRACT AWARD, TO PERFORM THE WORK REQUIRED HEREUNDER, WITHOUT THE EXPRESS WRITTEN CONSENT OF JHU/APL.

APPROVED: DEPARTMENT OF PLANNING AND ZONING  
Chief, Development Engineering Division  
Chief, Division of Land Development  
Director

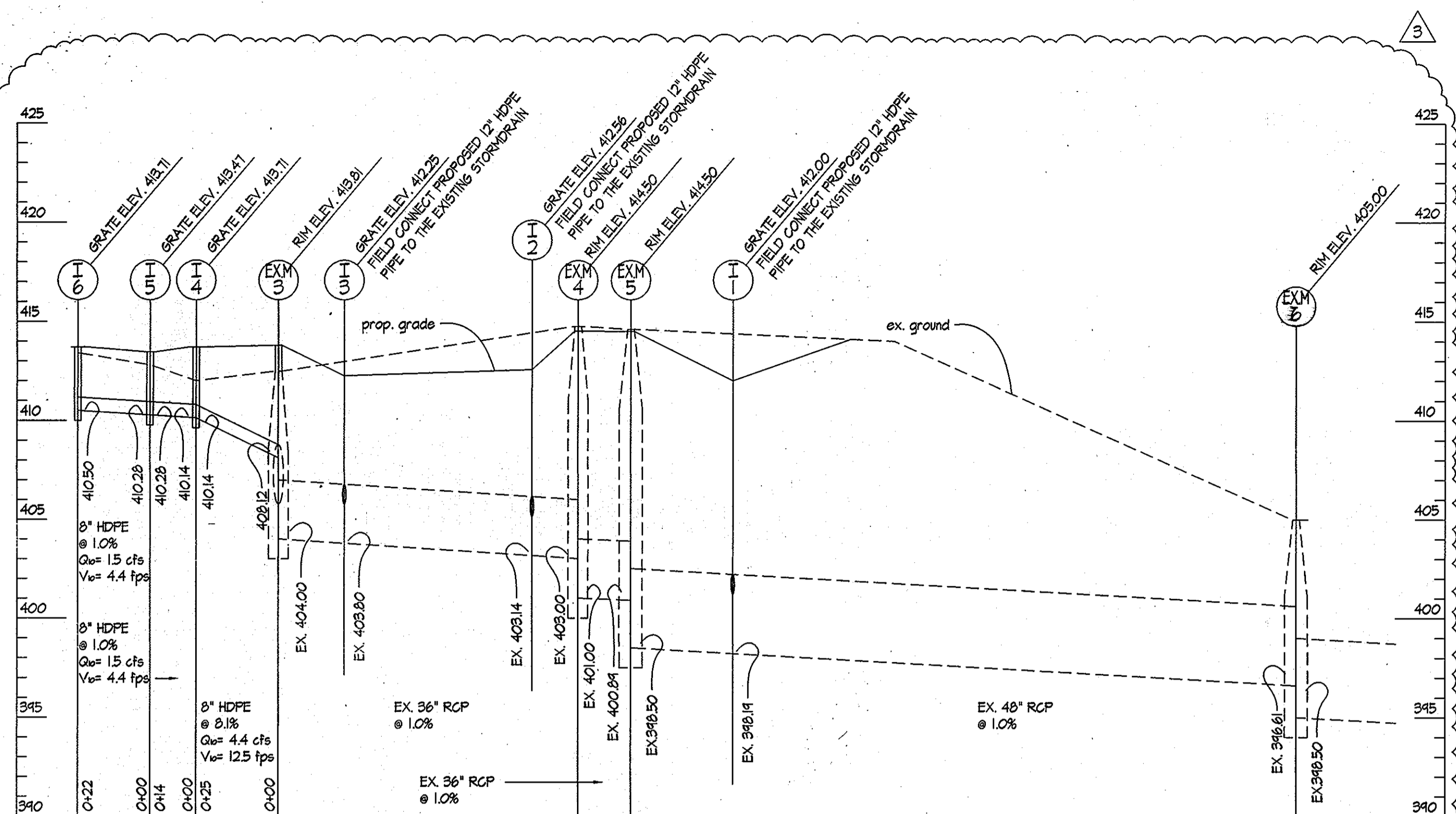
**CENTURY ENGINEERING**  
CONSULTING ENGINEERS - PLANNERS  
10710 Gilroy Road, Hunt Valley, MD 21031  
Phone: 443.589.2400 Fax: 443.589.2401

DESIGN BY: A.J.D.  
DRAWN BY: M.S.S.  
CHECKED BY: A.J.D.  
DATE: FEB. 15, 2008

THE JOHNS HOPKINS UNIVERSITY  
APPLIED PHYSICS LABORATORY  
11100 JOHNS HOPKINS ROAD  
LAUREL, MARYLAND 20723-6C99  
443-778-5134

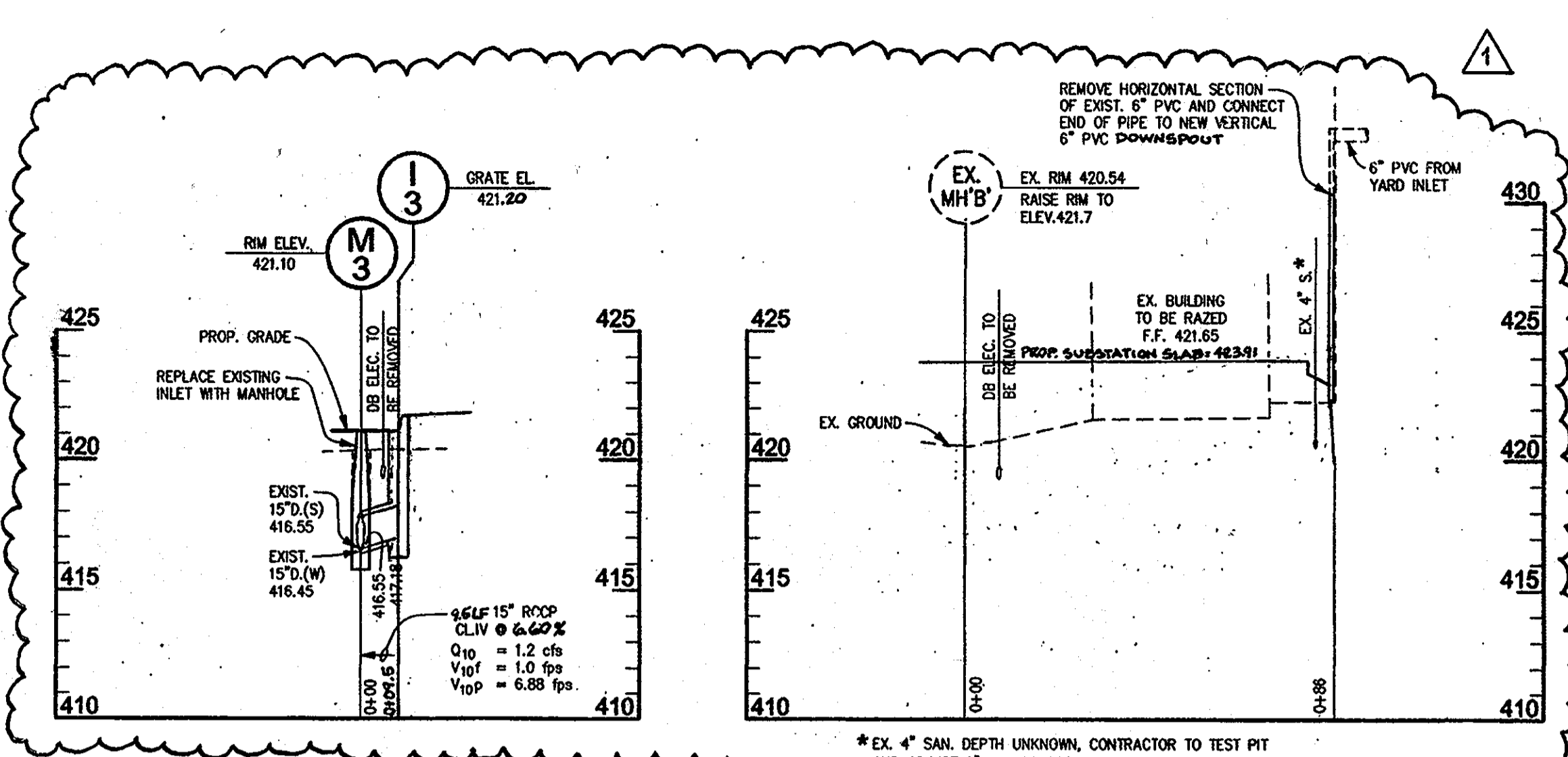
UTILITY PLAN  
"CENTRAL GREEN, PHASE 2"  
JOHNS HOPKINS UNIVERSITY PROPERTY  
TAX MAP: 41 GRID: 16 PARCEL: 123  
ELECTION DISTRICT 5-05 HOWARD COUNTY, MARYLAND  
SHEET 4 OF 16 (RESTRICTED FILE)

C.E.I. PROJECT NUMBER 22172.25  
SCALE: 1"=30'  
SDP-08-061

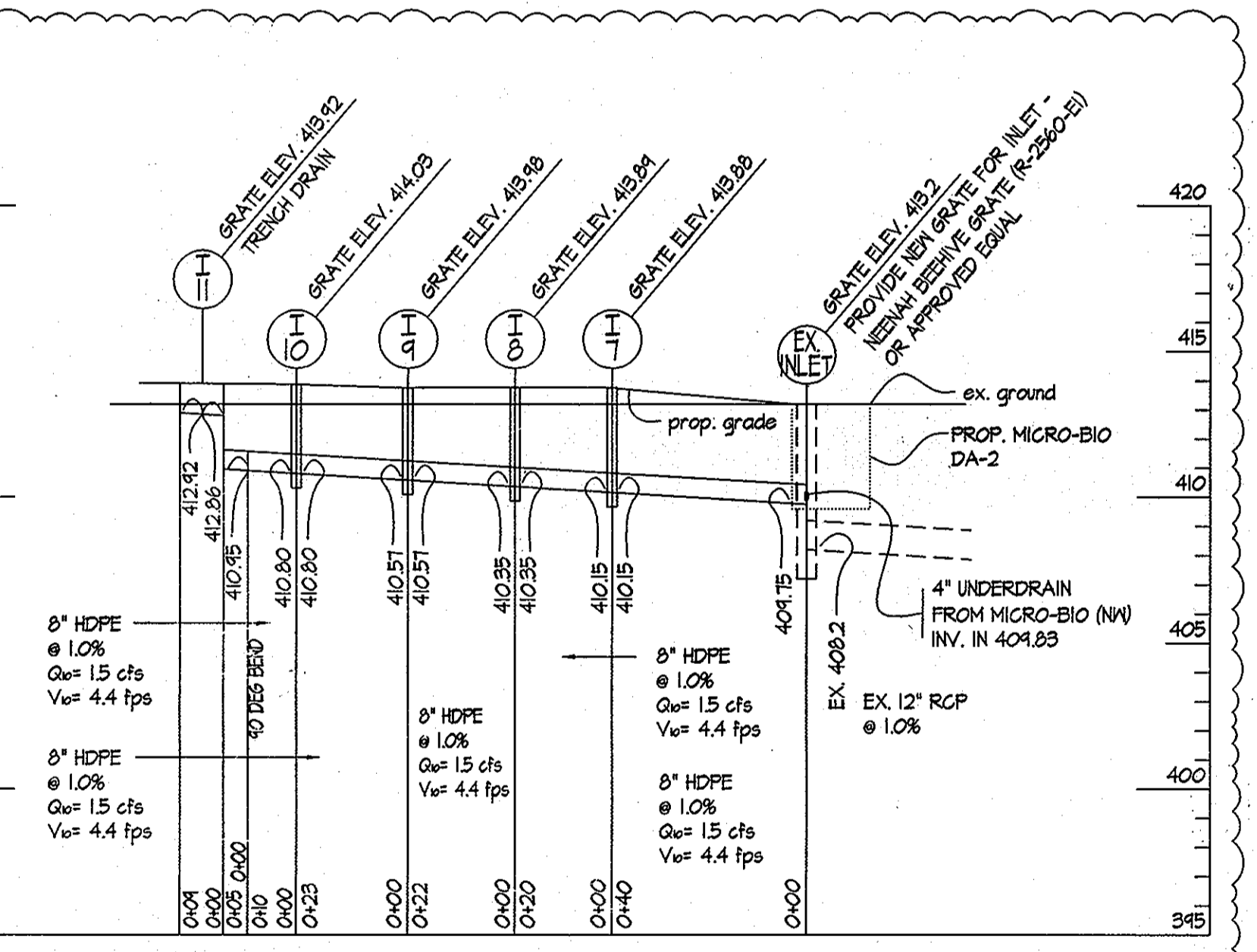
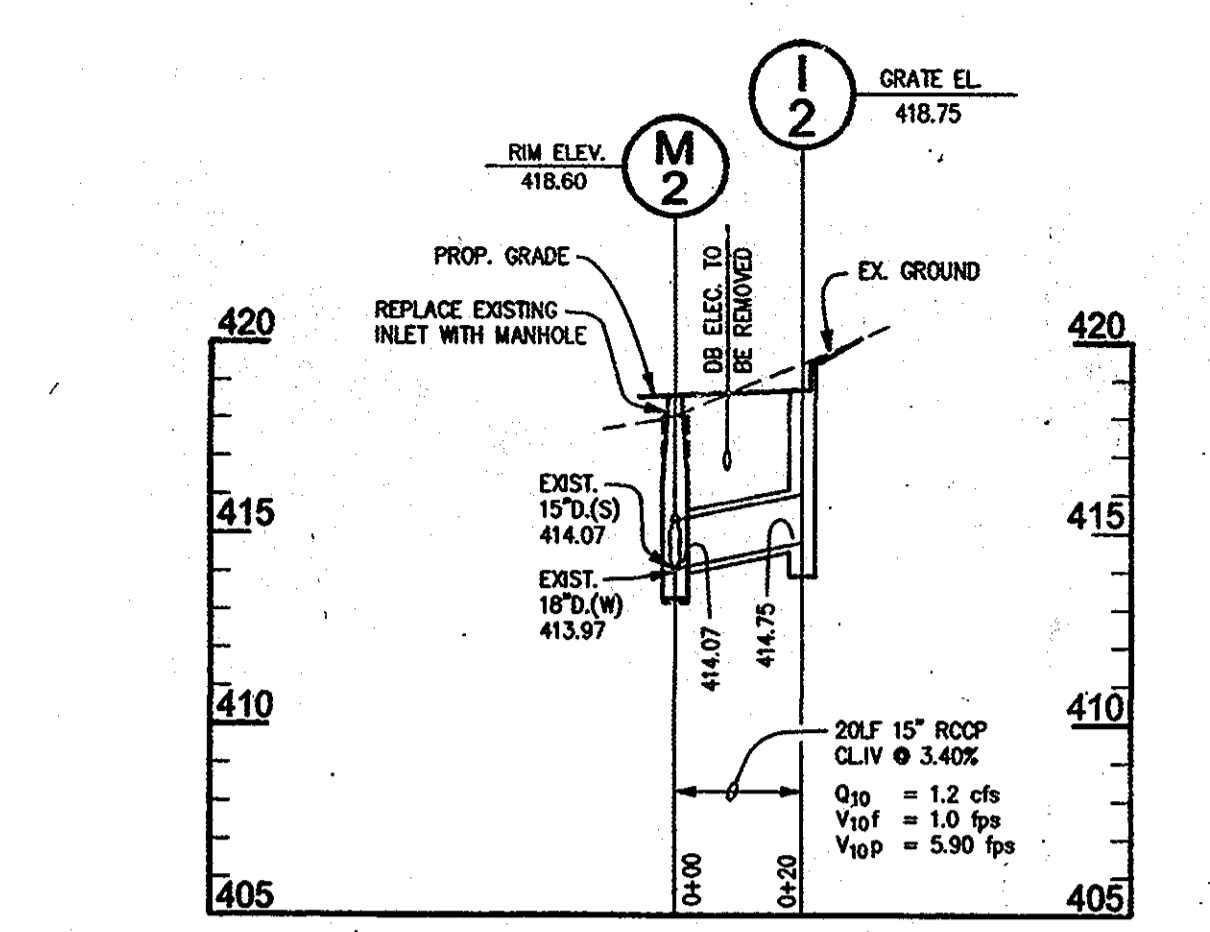


PROFILE I-6 TO EX. M-6

EXISTING PIPE INFORMATION OBTAINED FROM SDP-02-0888 AS PROVIDED BY JHU-APL. CONTRACTOR SHALL VERIFY VERTICAL AND HORIZONTAL LOCATION OF STORM DRAIN FOR FIELD CONNECTIONS. PROPOSED INLETS SHALL BE NYLOPLAST 2824AG WITH INTEGRATED STANDARD DUCTILE IRON FRAME AND GRATE OR APPROVED EQUAL. SCALES: HORIZ. 1" = 30' VERT. 1" = 5'

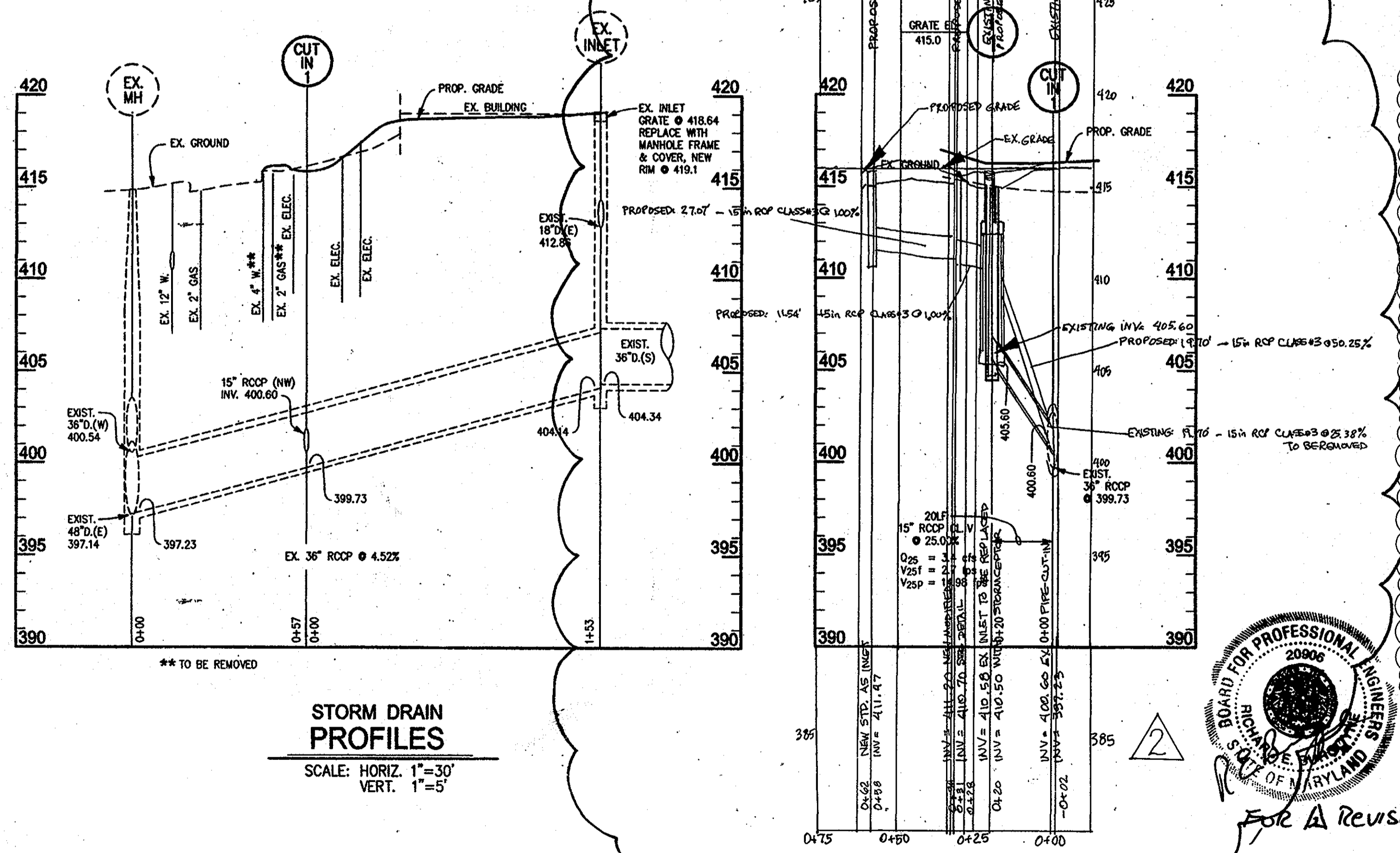


\*EX. 4" SAND DEPTH UNKNOWN, CONTRACTOR TO TEST PIT AND ADJUST 6" PVC TO PROVIDE 1 FOOT MINIMUM CLEARANCE



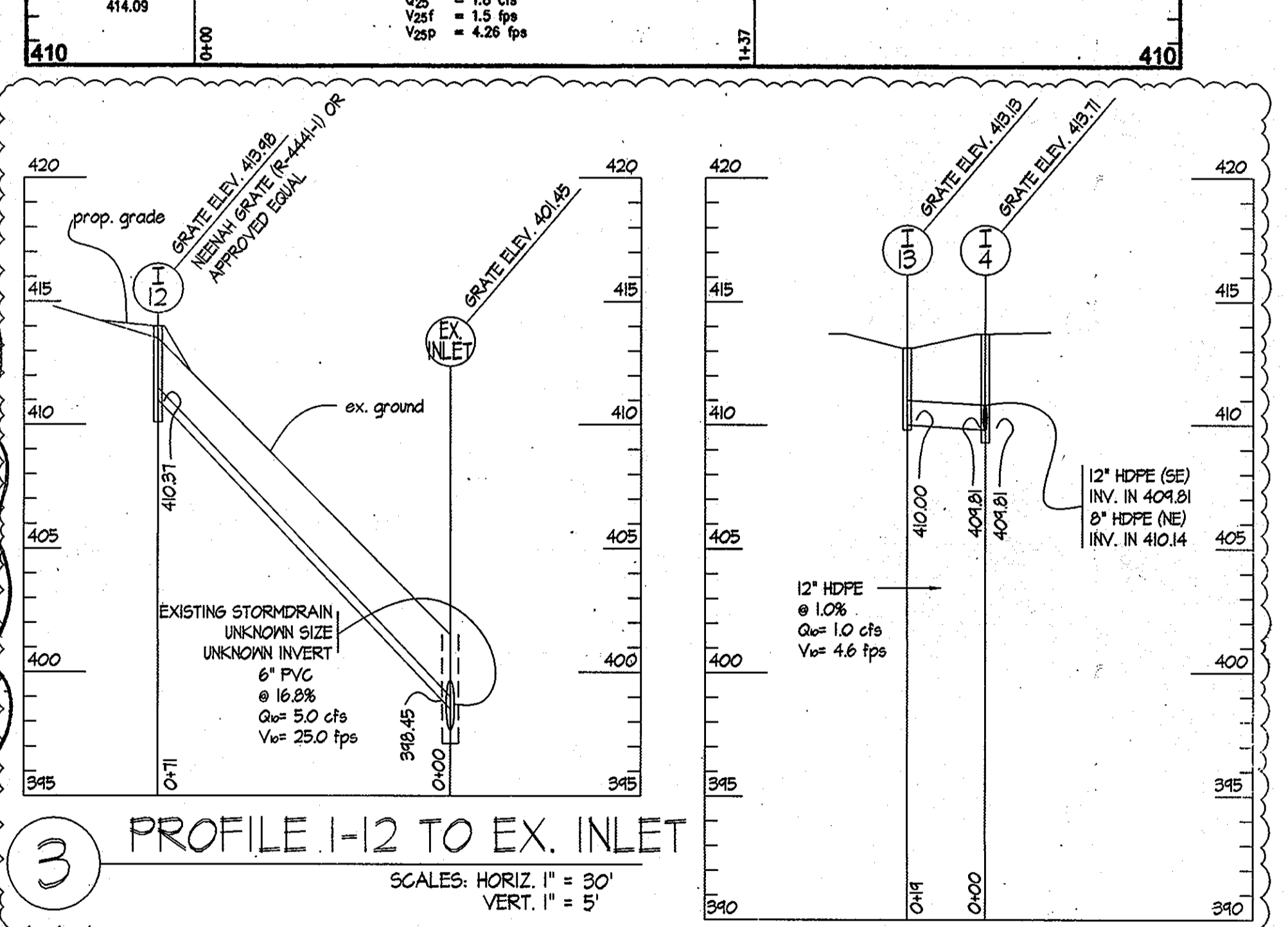
PROFILE I-11 TO EX. INLET

EXISTING PIPE INFORMATION AS PROVIDED BY JHU-APL. CONTRACTOR SHALL VERIFY VERTICAL AND HORIZONTAL LOCATION OF STORM DRAIN. PROPOSED INLETS SHALL BE NYLOPLAST 2824AG WITH INTEGRATED STANDARD DUCTILE IRON FRAME AND GRATE OR APPROVED EQUAL ACCEPT WHERE NOTED. SCALES: HORIZ. 1" = 30' VERT. 1" = 5'



STORM DRAIN PROFILES

SCALE: HORIZ. 1" = 30' VERT. 1" = 5'



PROFILE I-12 TO EX. INLET

EXISTING PIPE INFORMATION AS PROVIDED BY JHU-APL. CONTRACTOR SHALL VERIFY VERTICAL AND HORIZONTAL LOCATION OF STORM DRAIN. PROPOSED INLETS SHALL BE NYLOPLAST 2824AG WITH INTEGRATED STANDARD DUCTILE IRON FRAME AND GRATE OR APPROVED EQUAL ACCEPT WHERE NOTED. SCALES: HORIZ. 1" = 30' VERT. 1" = 5'

PROFILE I-13 TO I-14

EXISTING PIPE INFORMATION AS PROVIDED BY JHU-APL. CONTRACTOR SHALL VERIFY VERTICAL AND HORIZONTAL LOCATION OF STORM DRAIN. PROPOSED INLETS SHALL BE NYLOPLAST 2824AG WITH INTEGRATED STANDARD DUCTILE IRON FRAME AND GRATE OR APPROVED EQUAL ACCEPT WHERE NOTED. SCALES: HORIZ. 1" = 30' VERT. 1" = 5'

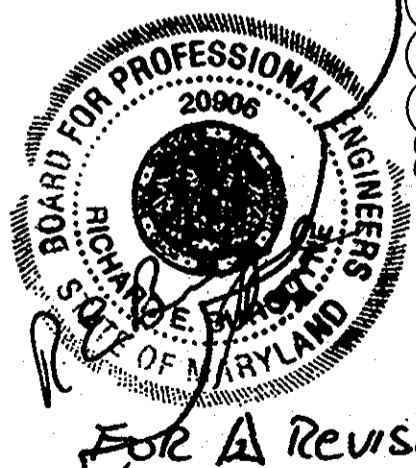
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APPROVED: DEPARTMENT OF PLANNING AND ZONING  
Chief, Development Engineering Division  
Chief, Division of Land Development  
Director

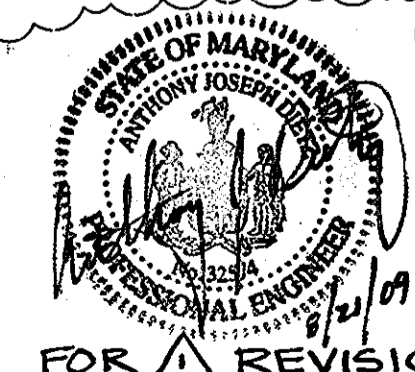
**CENTURY ENGINEERING**  
CONSULTING ENGINEERS - PLANNERS  
10710 Gilroy Road, Hunt Valley, MD 21031  
Phone: 443.589.2400 Fax: 443.589.2401

DESIGN BY: A.J.D.  
DRAWN BY: M.S.S.  
CHECKED BY: A.J.D.  
DATE: FEB. 15, 2008

NO.	REVISION	DATE
1	BUILDING 11 OUTDOOR PLAZA, ASPHALT REMOVAL IN FRONT OF BUILDING 11, RESTRAINING BEHIND BUILDING 17 AND CENTER SERVICE LOT	2/17/12
2	SERVICE ROAD REALIGNMENT TO BUILDINGS 7, 8, 9	3/10/10
3	ADD SUBSTATION CONSOLIDATION & DUCT BANKS	05-18-09



FOR A REVISION

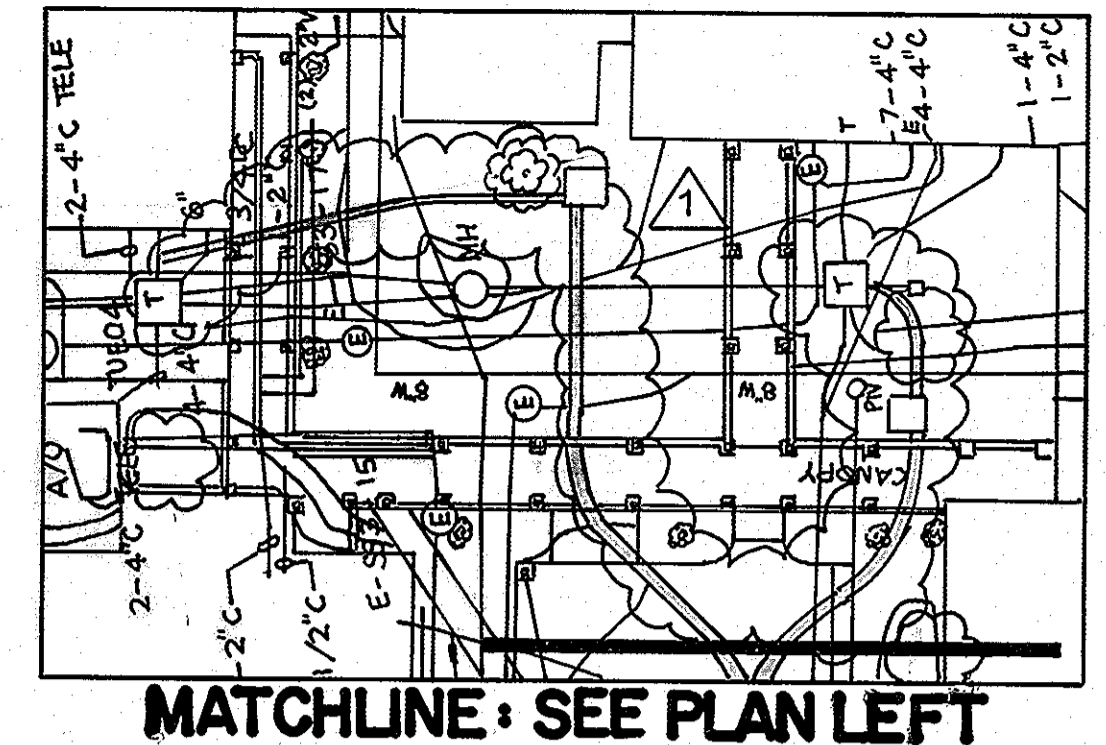
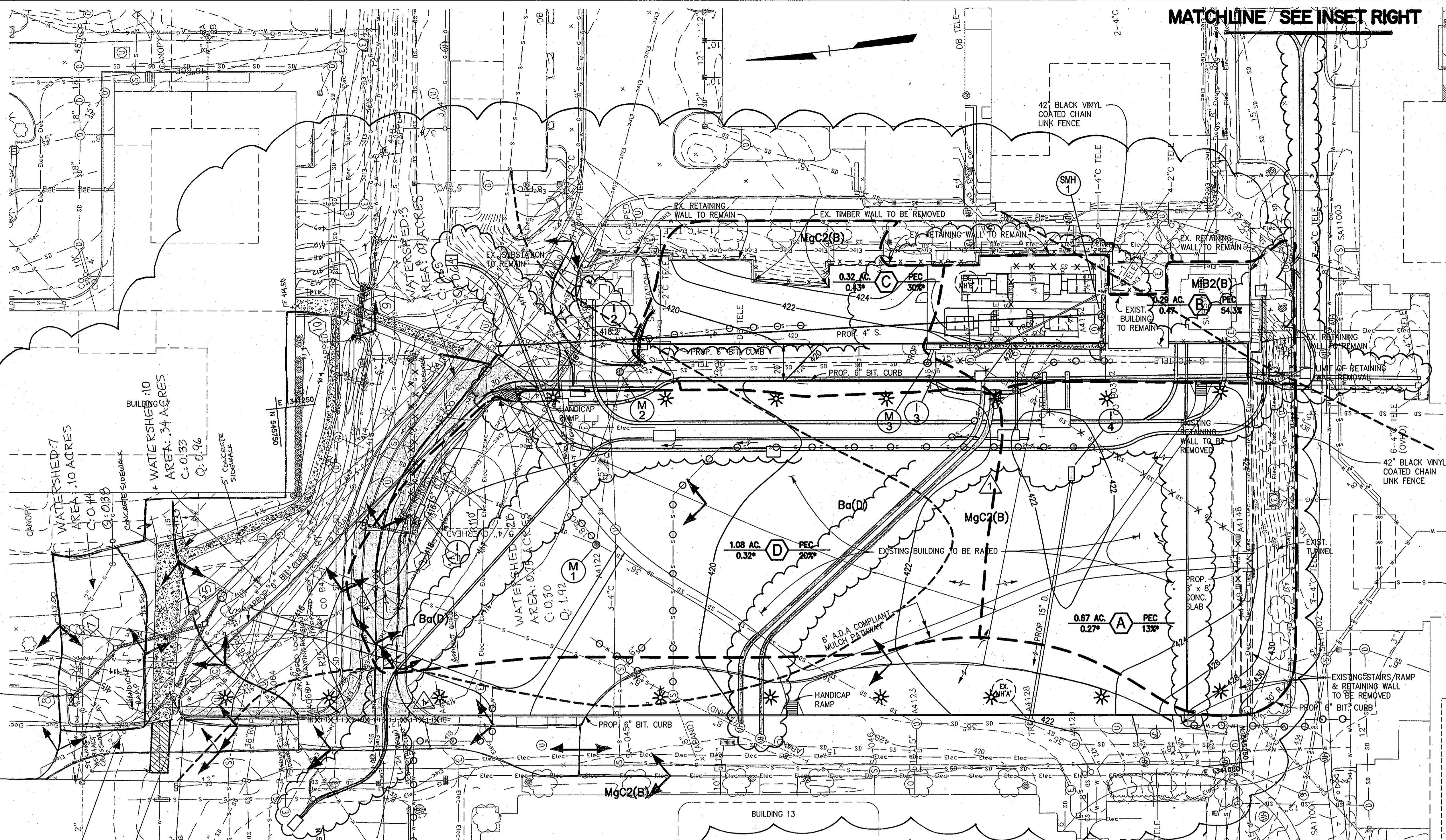


FOR A REVISION

THE JOHNS HOPKINS UNIVERSITY  
APPLIED PHYSICS LABORATORY  
11100 JOHNS HOPKINS ROAD  
LAUREL, MARYLAND 20723-6099  
443-778-5134

UTILITY PROFILES & NOTES  
"CENTRAL GREEN, PHASE 2"  
JOHNS HOPKINS UNIVERSITY PROPERTY  
TAX MAP: 41 GRID: 16 PARCEL: 123  
ELECTION DISTRICT 5-05 HOWARD COUNTY, MARYLAND  
SHEET 5 OF 16 (RESTRICTED FILE)

C.E.I. PROJECT NUMBER 22172.25  
SCALE: AS SHOWN



**DRAINAGE AREA INFORMATION**

- A = AREA (ACRE)
- B = AREA (I.D.)
- C = COMPOSITE RATIONAL 'C'
- Z = ZONING
- P = WEIGHTED% IMPERVIOUS COVER
- S = % SCS SOIL NOTE 'C' SOILS ASSUMED HSG

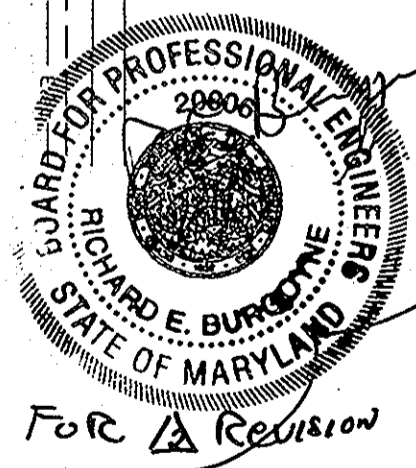
**LEGEND**

- EX. MINOR CONTOUR
- EX. MAJOR CONTOUR
- EX. SPOT ELEVATION
- EX. FIRE HYDRANT
- EX. STORM DRAIN
- EX. WATER LINE
- EX. SANITARY SEWER
- EX. ELECTRIC LINE
- EX. COMMUNICATIONS LINE
- EX. MANHOLE
- EX. INLET
- EX. TREE LINE
- EX. BUILDING
- EX. CURB AND GUTTER
- EX. BITUMINOUS PAVING
- EX. CONCRETE SIDEWALK
- EX. FENCE
- EX. WALL
- EX. CLEANOUT
- EX. LIGHT STANDARD
- EX. BUSH
- EX. TREE
- EX. PIPE BOLLARD
- EX. UTILITY POLE
- EX. RETAINING WALL TO REMAIN
- EX. UTILITY TO BE REMOVED
- EX. UTILITY TO BE ABANDONED IN PLACE
- PROP. MINOR CONTOUR
- PROP. MAJOR CONTOUR
- PROP. SPOT ELEVATION
- PROP. CURB & GUTTER
- PROP. SEWER
- PROP. STORM DRAIN
- DRAINAGE AREA
- SOIL LIMITS
- SOIL SERIES
- PROP. TELECOM DUCT BANK
- PROP. ELECTRIC DUCT BANK
- LIGHT FIXTURES

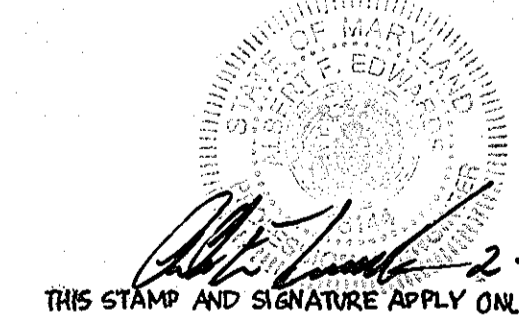
**PLAN**

SCALE: 1" = 30'

\* BASED ON PROJECTED BUILDOUT IN GREEN SPACE USED FOR DESIGN  
 NOTE: MULCH AREA CONSIDERED LAWN FOR STORM DRAIN PURPOSES  
 NOTE: ALL TC'S ASSUMED TO BE 5.0 MINUTE



FOR REVISION

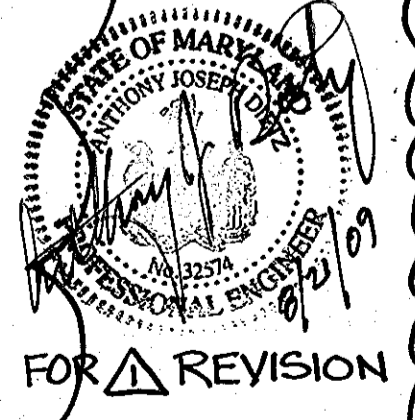


**PROFESSIONAL CERTIFICATION**

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 NUMBER: 22574 EXPIRATION DATE: 1/16/10

BUILDING SITE IMPROVEMENTS (ACRES)	3/10/2010
42.4	42.4
26.5	26.5
28.5	28.3
0.1	0.0
28.6	28.3
10.3	10.6



FOR REVISION

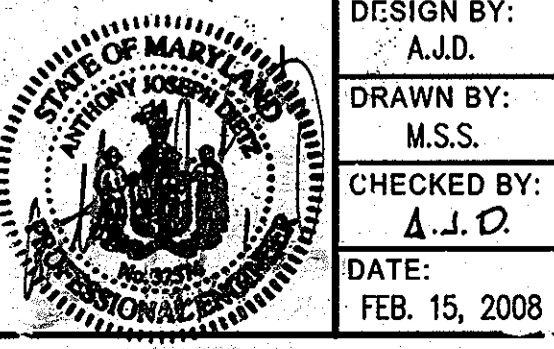
**STORMWATER MANAGEMENT DRAINAGE AREA 'A' BASIN - DEVELOPMENT ACCOUNTING**

AS OF DATE	FINAL PLAN "A" HOWARD CO. APPROVED (ACRES)	B17 AND B20 DEVELOPMENT (ACRES)	PRE SI'S DEMOLITION (ACRES)	SYSTEMS INTEGRATION BUILDINGS 12 & 15 (ACRES)	PRE BUILDING 21 DEMOLITION CONCLUSION (ACRES)	BUILDING 21 (ACRES)	POST SI'S CONSTRUCTION DEMOLITION (ACRES)	CENTRAL GREEN DEMO BLDGS. #1, 16, 14, 56, 33, 113, 38, 28, 54 (ACRES)
AS OF DATE	2/28/2002	MARCH 2004	(ACRES)	(ACRES)	(ACRES)	(ACRES)	(ACRES)	30.5
DRAINAGE AREA	43.2	43.2	43.2	42.4	42.4	42.4	42.4	42.4
EXISTING IMPERVIOUS DRAINAGE AREA PRE 1984	27.2	27.2	27.0	26.7	24.4	26.5	26.5	26.5
IMPERVIOUS AREA SEPT. 2007								30.5
PROPOSED IMPERVIOUS DRAINAGE AREA POST 1984	11.7	1.4	0.6	4.4	4.0	4.0	4.0	-2.0 -2.2
TOTAL IMPERVIOUS AREA	38.9	28.6	27.6	31.1	28.4	30.5	30.5	28.5 28.3
IMPERVIOUS DRAINAGE AREA MAXIMUM ALLOWABLE IMPERVIOUS AREA (38.9 AC.) AVAILABLE	0.0	10.3	11.3	7.8	10.5	8.4	8.4	10.5 10.6

**JHU/APL INTERNAL USE**  
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APPROVED: DEPARTMENT OF PLANNING AND ZONING  
 Chief, Development Engineering Division  
 Chief, Division of Land Development  
 Director

**CENTURY ENGINEERING**  
 CONSULTING ENGINEERS - PLANNERS  
 10710 Gilroy Road, Hunt Valley, MD 21031  
 Phone: 443.589.2400 Fax: 443.589.2401



DATE	BY	NO.	REVISION
FEB. 15, 2008			

**THE JOHNS HOPKINS UNIVERSITY APPLIED PHYSICS LABORATORY**  
 11100 JOHNS HOPKINS ROAD  
 LAUREL, MARYLAND 20723-6099  
 443-778-5134

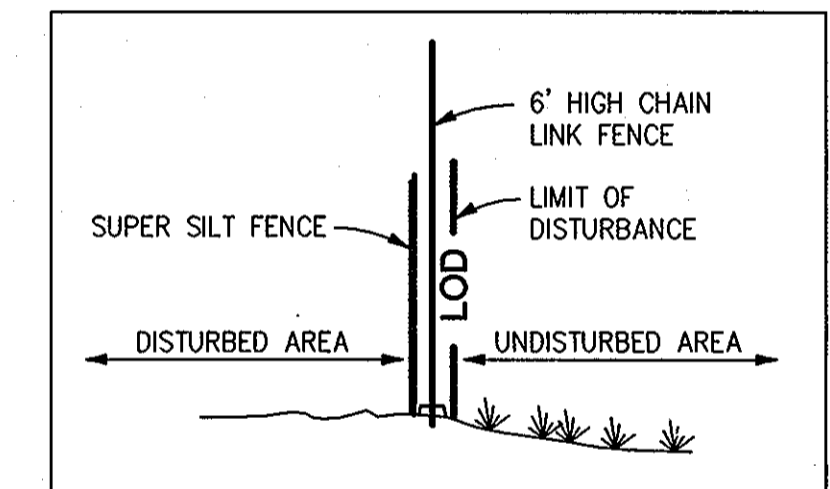
**STORM DRAIN DRAINAGE AREA MAP "CENTRAL GREEN, PHASE 2"**  
 JOHNS HOPKINS UNIVERSITY PROPERTY  
 TAX MAP: 41 GRID: 16 PARCEL: 123  
 ELECTION DISTRICT 5-05 HOWARD COUNTY, MARYLAND  
 SHEET 6 OF 16 (RESTRICTED FILE)

C.E.I. PROJECT NUMBER 22172.25  
 SCALE: 1" = 30'

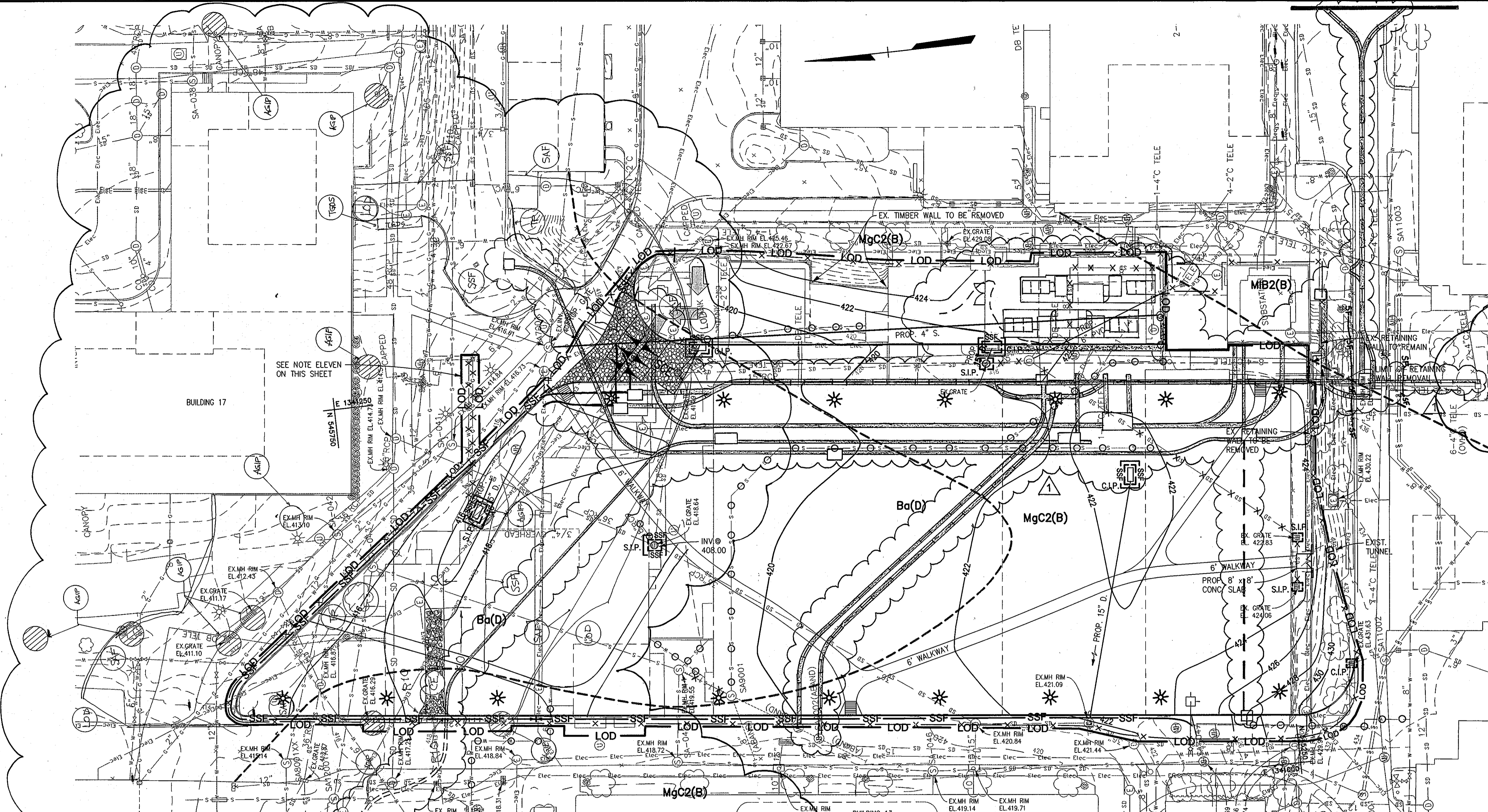
HOWARD SOIL CONSERVATION DISTRICT  
STANDARD SEDIMENT CONTROL NOTES

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 (313-1855).
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 THERE TO.
3. FOLLOWING INITIAL SOIL DISTURBANCE OR RE-DISTURBANCE, PERMANENT OR TEMPORARY 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 SEDIMENT TRAPS/BASINS SHOWN MUST BE FENCED AND WARNING SIGNS POSTED AROUND THEIR PERIMETER IN ACCORDANCE WITH VOL 1, CHAPTED 12 OF THE HOWARD COUNTY DESIGN MANUAL, STORM DRAINAGE.
5. 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. 51) SOD (SEC. 54), TEMPORARY SEEDING (SEC. 50) AND MULCHING (SEC. 52). TEMPORARY STABILIZATION WITH MULCH ALONE CAN ONLY BE DONE WHEN RECOMMENDED SEEDING DATES DO NOT ALLOW FOR PROPER GERMINATION AND ESTABLISHMENT OF GRASSES.
6. 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.
7. SITE ANALYSIS:
 

	CENTRAL GREEN	BORROW AREA	STOCKPILE AREA
361 ACRES TOTAL AREA OF SITE	2.91 ACRES	3.40 ACRES	1.72 ACRES
1.29 ACRES AREA DISTURBED	2.81 ACRES	3.23 ACRES	1.72 ACRES
0.23 ACRES AREA TO BE ROOFED OR PAVED	0.18 ACRES	0.0 ACRES	0.0 ACRES
1.06 ACRES AREA TO BE VEGETATIVELY STABILIZED	2.73 ACRES	3.23 ACRES	1.72 ACRES
TOTAL CUT	3,871 CU.YDS.	3,357 CU.YDS.	STOCKPILE
756 YD <sup>3</sup> TOTAL FILL	3,357 CU.YDS.	3,871 CU.YDS.	STOCKPILE
450 YD <sup>3</sup> OFFSITE WASTE/BORROW AREA LOCATION	JHU/APL CAMPUS	JHU/APL CAMPUS	JHU/APL CAMPUS
8. ANY SEDIMENT CONTROL PRACTICE WHICH IS DISTURBED BY GRADING ACTIVITY FOR PLACEMENT OF UTILITIES MUST BE REPAIRED ON THE SAME DAY OF DISTURBANCE.
9. ADDITIONAL SEDIMENT CONTROL MUST BE PROVIDED, IF DEEMED NECESSARY BY THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.
10. 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.
11. 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.
12. A TEMPORARY 6 FOOT HIGH SECURITY CONSTRUCTION FENCE WITH GATE SHALL BE PLACED ABOUT THE PERIMETER OF THE CONSTRUCTION AREA TO RESTRICT ACCESS TO THE CONSTRUCTION AREA BY UNAUTHORIZED PERSONNEL DURING CONSTRUCTION.



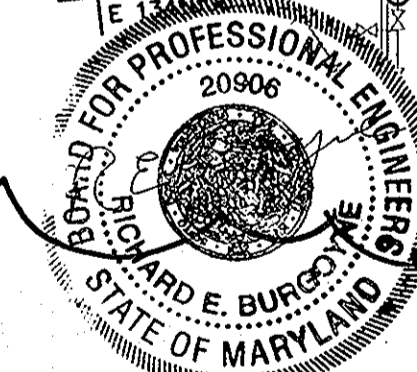
Perimeter Detail  
Not to Scale



EROSION AND SEDIMENT CONTROL: PHASE 1

PLAN  
SCALE: 1" = 30'

- LEGEND**
- AT GRADE INLET PROTECTION
  - TREE PROTECTION
  - CONSTRUCTION ENTRANCE
  - IF SUPER SILT FENCE
  - TEMPORARY GABION OUTLET STRUCTURE
  - LIMITS OF DISTURBANCE
  - SAFETY FENCE



NOTE: THIS SITE DRAINS TO EXISTING SWM FACILITY 'A' ON THE APPLIED PHYSICS LABORATORY CAMPUS. INTERIM STORMWATER MANAGEMENT IS NOT REQUIRED.

INSTALL SILT FENCE FOR ALL DUCT BANK INSTALLATION IN VEGETATED AREAS OUTSIDE LIMITS OF DISTURBANCE. FOR DUCT BANK INSTALLATION IN PAVED AREAS OUTSIDE LIMITS OF DISTURBANCE LIMIT INSTALLATION TO THAT WHICH CAN BE INSTALLED IN A SINGLE DAY, BACKFILL AND STABILIZE TRENCH AT END OF EACH WORK DAY.

PROFESSIONAL CERTIFICATION

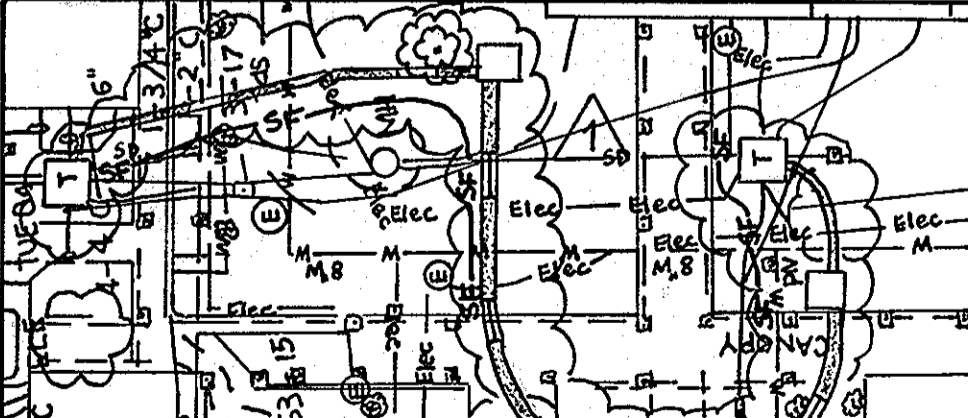
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND

LICENSE NUMBER: 92519      EXPIRATION DATE: 1/16/10

LEGEND

- |                         |      |       |                                      |          |  |       |         |     |
|-------------------------|------|-------|--------------------------------------|----------|--|-------|---------|-----|
| EX. MINOR CONTOUR       | ---  | 391   | EX. FENCE                            | -X-X-    | PROP. CURB INLET PROTECTION            | □     | C.I.P.  | □   |
| EX. MAJOR CONTOUR       | ---  | 390   | EX. WALL                             | —        | PROP. INLET PROTECTION                 | □     | S.I.P.  | □   |
| EX. SPOT ELEVATION      | X    | 387.6 | EX. CLEANOUT                         | o        | PROP. LIMIT OF DISTURBANCE             | ---   | LOD     | --- |
| EX. FIRE HYDRANT        | sh   |       | EX. LIGHT STANDARD                   | o        | PROP. STABILIZED CONSTRUCTION ENTRANCE | —     | SC      | —   |
| EX. STORM DRAIN         | SD   |       | EX. BUSH                             | o        | PROP. CONSTRUCTION FENCE               | -X-X- |         |     |
| EX. WATER LINE          | W    | W     | EX. TREE                             | o        | REMOVABLE PUMP STATION                 | □     | RPS     | □   |
| EX. SANITARY SEWER      | S    | S     | EX. PIPE BOLLARD                     | o        | GABION INFLOW PROTECTION               | □     |         | □   |
| EX. ELECTRIC LINE       | Elec |       | EX. UTILITY POLE                     | o        | SOIL LIMITS                            | ---   | MIB2(B) | --- |
| EX. COMMUNICATIONS LINE |      |       | PROP. MINOR CONTOUR                  | ---      | 379                                    |       |         |     |
| EX. MANHOLE             | o    |       | PROP. MAJOR CONTOUR                  | ---      | 380                                    |       |         |     |
| EX. INLET               | o    |       | PROP. SPOT ELEVATION                 | +        | 385.58                                 |       |         |     |
| EX. TREE LINE           | ---  |       | PROP. CURB & GUTTER                  | ---      |  |       |         |     |
| EX. BUILDING            | ---  |       | PROP. SILT FENCE                     | ---      | SF                                     |       |         |     |
| EX. CURB AND GUTTER     | ---  |       | PROP. SUPER SILT FENCE               | ---      | SSF                                    |       |         |     |
| EX. BITUMINOUS PAVING   | ---  |       | EX. UTILITY TO BE REMOVED            | -X-SD-X- |  |       |         |     |
| EX. CONCRETE SIDEWALK   | ---  |       | EX. UTILITY TO BE ABANDONED IN PLACE | o-SD-o   |  |       |         |     |
|                         |      |       | PROP. TELECOM DUCT BANK              | ---      |  |       |         |     |
|                         |      |       | PROP. ELECTRIC DUCT BANK             | ---      |  |       |         |     |

**JHU/APL INTERNAL USE**  
THIS DATA SHALL NOT BE DISCLOSED TO A THIRD PARTY AND SHALL NOT BE DUPLICATED, USED, OR DISCLOSED IN WHOLE OR IN PART FOR ANY PURPOSE OTHER THAN TO EVALUATE THIS RFP OR, IN THE CASE OF A CONTRACT AWARD, TO PERFORM THE WORK REQUIRED HEREUNDER, WITHOUT THE EXPRESS WRITTEN CONSENT OF JHU/APL.



MATCHLINE : SEE PLAN ABOVE

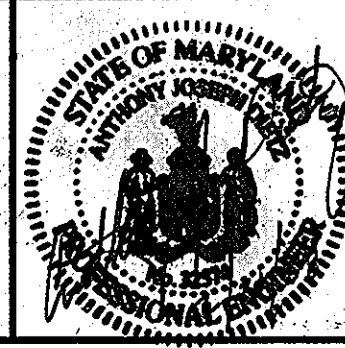
APPROVED: DEPARTMENT OF PLANNING AND ZONING

*John R. Roberts* 5/17/08  
Chief, Development Engineering Division

*David S. Smith* 3/19/08  
Chief, Division of Land Development

*Mark A. Leight* 3/19/08  
Director

**CENTURY ENGINEERING**  
CONSULTING ENGINEERS - PLANNERS  
10710 Gilroy Road, Hunt Valley, MD 21031  
Phone: 443.589.2400 Fax: 443.589.2401



DESIGN BY:	A.J.D.		
DRAWN BY:	M.S.S.		
CHECKED BY:	A.J.D.		
DATE:	FEB. 15, 2008		
BY NO.			
REVISION			
1	REVISION ROAD REALIGNMENT TO BUILDINGS 7, 8, 9.	3/10/08	
2	ADD SUBSTATION CONSOLIDATION & DUCT BANKS	5-18-09	

**THE JOHNS HOPKINS UNIVERSITY  
APPLIED PHYSICS LABORATORY**  
11100 JOHNS HOPKINS ROAD  
LAUREL, MARYLAND 20723-6099  
443-778-5134

**EROSION & SEDIMENT CONTROL PLAN  
"CENTRAL GREEN, PHASE 2"**  
JOHNS HOPKINS UNIVERSITY PROPERTY  
TAX MAP: 41 GRID: 16 PARCEL: 123  
ELECTION DISTRICT 5-05 HOWARD COUNTY, MARYLAND  
SHEET 7 OF 16 (RESTRICTED FILE)

C.E.I. PROJECT NUMBER  
22172.25  
SCALE:  
1"=30'

THIS DEVELOPMENT PLAN IS AS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.

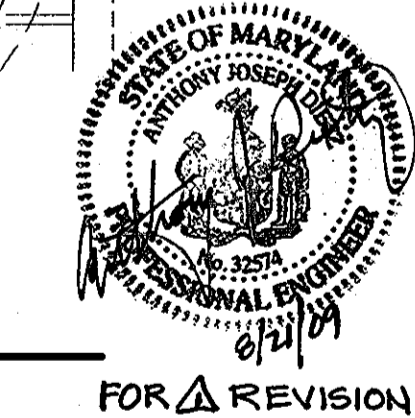
*John R. Roberts* 3/13/08  
HOWARD S.C.D. DATE

BY THE DEVELOPER:  
"I, ME CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT."

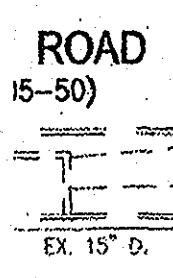
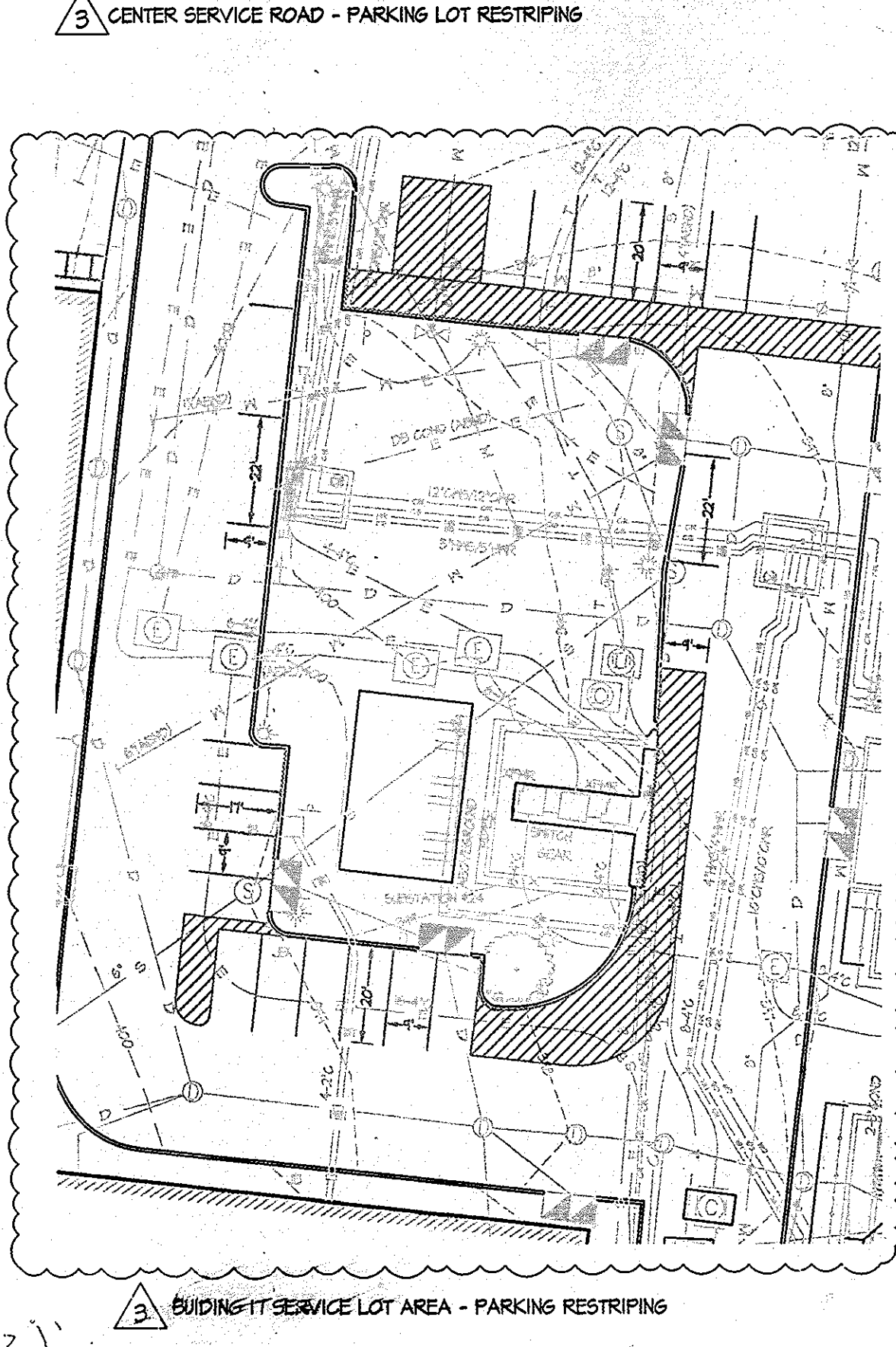
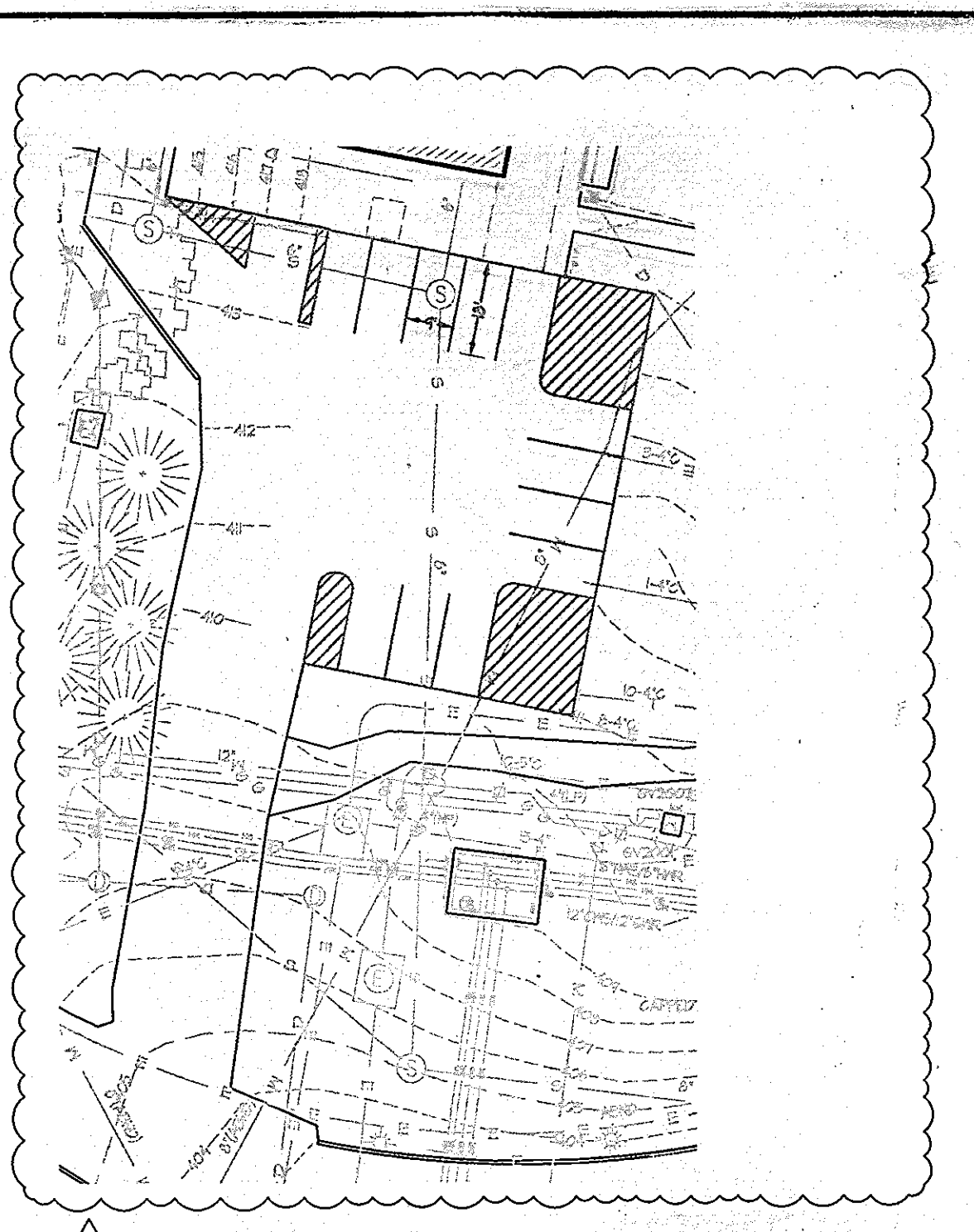
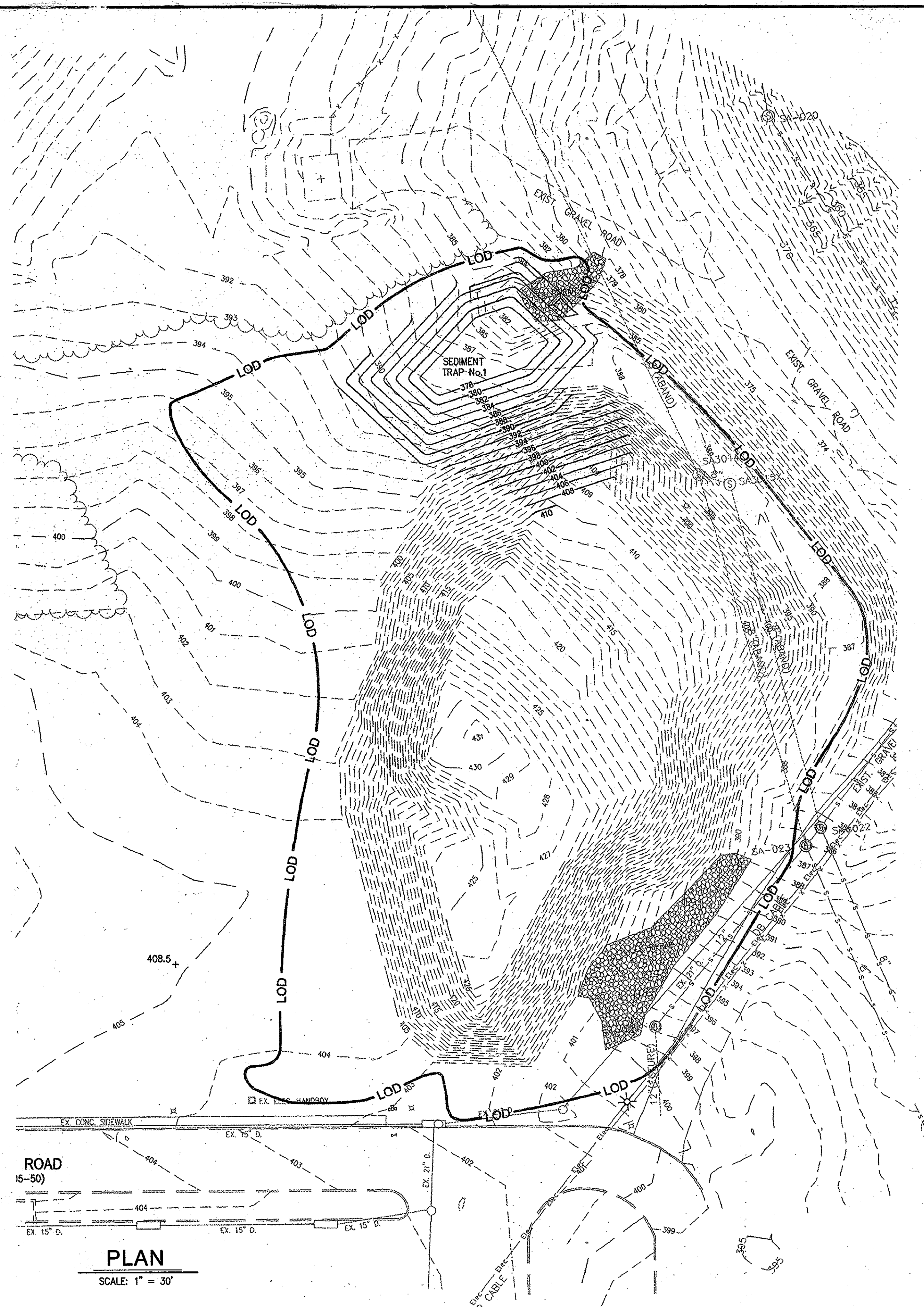
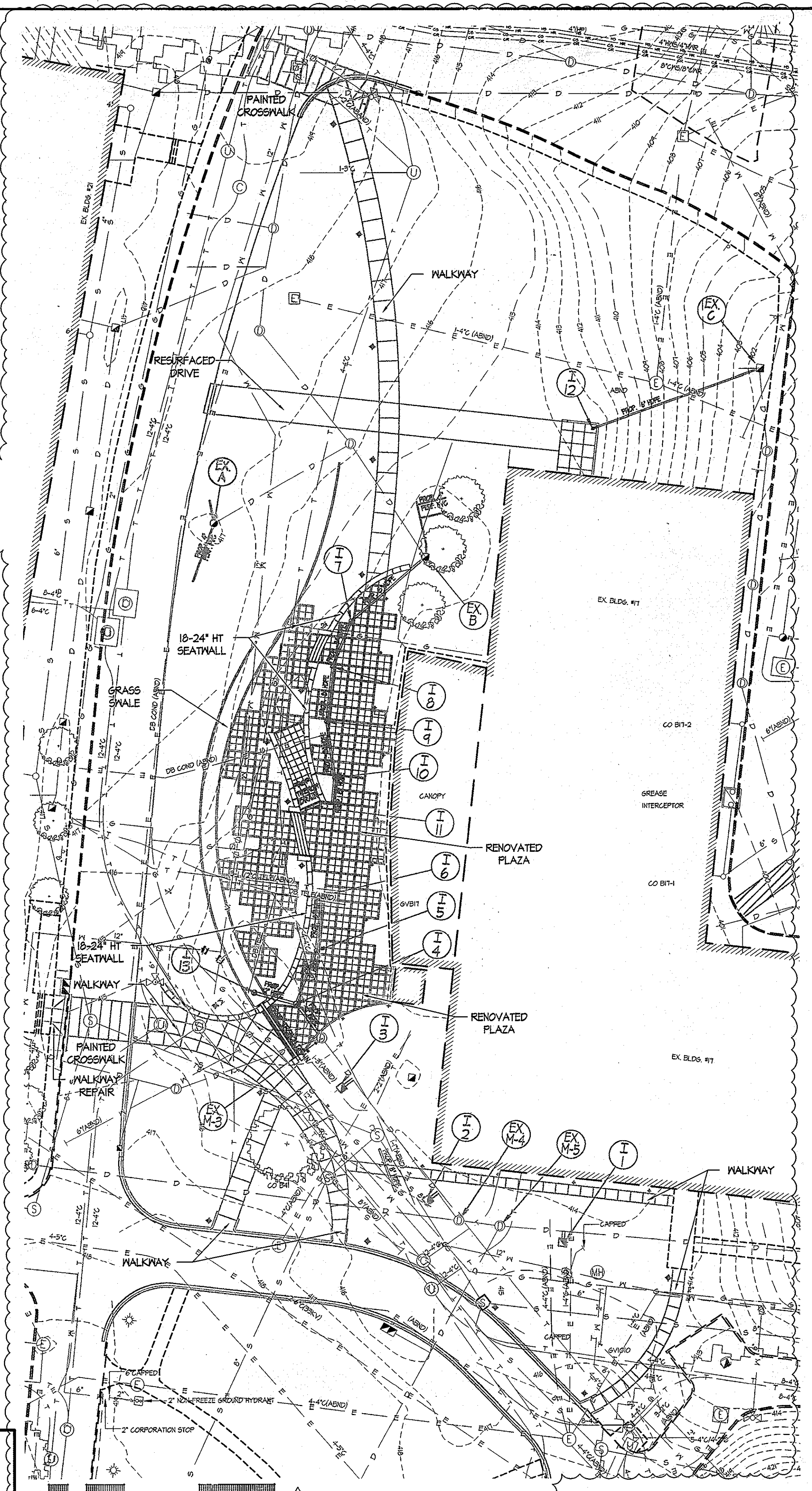
*James E. Tusch* 2.15.08  
SIGNATURE OF DEVELOPER DATE

BY THE ENGINEER:  
"I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS, AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT."

*Anthony G. Purdy* 2/2/08  
SIGNATURE OF ENGINEER DATE



3 BUILDING 17 PLAZA



**PLAN**  
SCALE: 1" = 30'

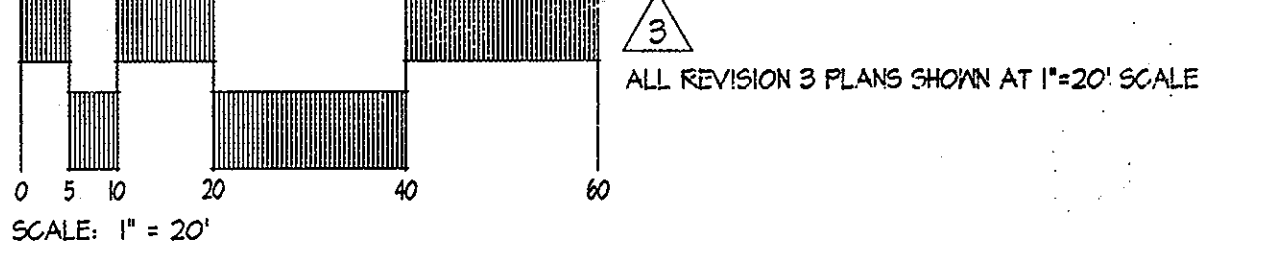
**PROFESSIONAL CERTIFICATION**  
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND  
LICENSE NUMBER: 92514 EXPIRATION DATE: 1/10/10

**LEGEND**

- EX. CONCRETE SIDEWALK
- EX. FENCE
- EX. WALL
- EX. TREE LINE
- EX. BUILDING
- EX. CURB AND GUTTER
- EX. BITUMINOUS PAVING
- PROP. CURB & GUTTER
- PROP. MINOR CONTOUR 379
- PROP. MAJOR CONTOUR 380
- PROP. SPOT ELEVATION + 385.58
- LIMIT OF DISTURBANCE LOD

THIS STAMP AND SIGNATURE APPLY ONLY TO REVISION 3.

**JHU/APL INTERNAL USE**  
THIS DATA SHALL NOT BE DISCLOSED TO A THIRD PARTY AND SHALL NOT BE DUPLICATED, USED, OR DISCLOSED IN WHOLE OR IN PART FOR ANY PURPOSE OTHER THAN TO EVALUATE THIS RFP OR, IN THE CASE OF A CONTRACT AWARD, TO PERFORM THE WORK REQUIRED HEREUNDER, WITHOUT THE EXPRESS WRITTEN CONSENT OF JHU/APL.



APPROVED: DEPARTMENT OF PLANNING AND ZONING  
Chief, Development Engineering Division  
Chief, Division of Land Development  
Director

**CENTURY ENGINEERING**  
CONSULTING ENGINEERS - PLANNERS  
10710 Gilroy Road, Hunt Valley, MD 21031  
Phone: 443.589.2400 Fax: 443.589.2401



DESIGN BY:	A.J.D.
DRAWN BY:	M.S.S.
CHECKED BY:	A.J.D.
DATE:	FEB. 15, 2008
BY:	NO.
REVISION:	
DATE:	2/13/08

**THE JOHNS HOPKINS UNIVERSITY APPLIED PHYSICS LABORATORY**  
11100 JOHNS HOPKINS ROAD  
LAUREL, MARYLAND 20723-6099  
443-778-5134

**GRADING PLAN**  
"CENTRAL GREEN, PHASE 2" - BORROW AREA  
JOHNS HOPKINS UNIVERSITY PROPERTY  
TAX MAP: 41 GRID: 16 PARCEL: 123  
ELECTION DISTRICT 5-05 HOWARD COUNTY, MARYLAND  
SHEET 8 OF 16 (RESTRICTED FILE)

C.E.I. PROJECT NUMBER 22172.25  
SCALE: 1"=30'



TRAP No.2  
STAGE/STORAGE TABLE

ELEV. FT.	AREA FT.2	AVG. AREA FT.2	ΔELEV. FT.	ΔVOL. FT.3	ΣVOL. FT.3
378	1260				0
380	1592	1426	2	2852	2852
381	2102	1847	1	1847	4699
382	2610	2356	1	2356	7055
384	3470	3040	2	3040	10095

LEGEND

- EX. MINOR CONTOUR --- -391---
- EX. MAJOR CONTOUR --- -390---
- EX. SPOT ELEVATION × 387.6
- EX. FIRE HYDRANT Ⓜ
- EX. STORM DRAIN --- SD ---
- EX. WATER LINE --- W --- W ---
- EX. SANITARY SEWER --- S --- S ---
- EX. ELECTRIC LINE --- Elec ---
- EX. COMMUNICATIONS LINE --- ---
- EX. MANHOLE ○
- EX. INLET □
- EX. TREE LINE --- ---
- EX. BUILDING [ ]
- EX. CURB AND GUTTER [ ]
- EX. BITUMINOUS PAVING [ ]
- EX. CONCRETE SIDEWALK [ ]
- EX. FENCE [ ]
- EX. WALL [ ]
- EX. CLEANOUT [ ]
- EX. LIGHT STANDARD [ ]
- EX. BUSH [ ]
- EX. TREE [ ]
- EX. PIPE BOLLARD [ ]
- EX. UTILITY POLE [ ]
- PROP. MINOR CONTOUR --- 379 ---
- PROP. MAJOR CONTOUR --- 380 ---
- PROP. SPOT ELEVATION +385.58
- PROP. CURB & GUTTER --- SF ---
- PROP. SILT FENCE --- SSF ---
- PROP. SUPER SILT FENCE --- ---
- PROP. LIMIT OF DISTURBANCE --- LOD ---
- PROP. EARTH DIKE [ ]
- PROP. STABILIZED CONSTRUCTION ENTRANCE [ ] SCE
- REMOVABLE PUMP STATION [ ] RPS
- GABION INFLOW PROTECTION [ ]
- LIGHT FIXTURES \*

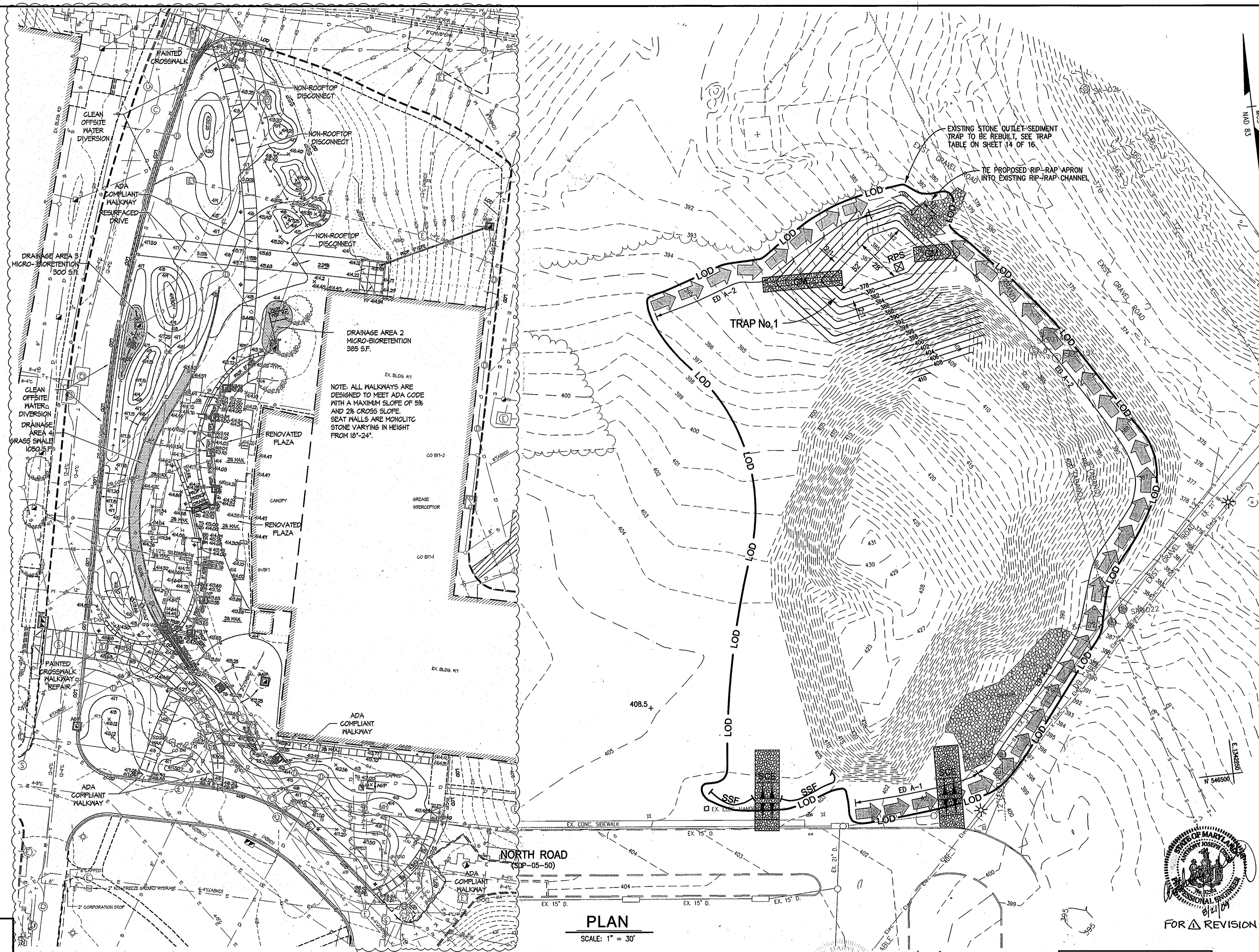
BY THE ENGINEER:  
 "I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS, AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT."

*Anthony J. D'Amico*  
 SIGNATURE OF ENGINEER      2/2/08  
 DATE

BY THE DEVELOPER:  
 "I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT."

*James E. Tesch*  
 SIGNATURE OF DEVELOPER      2.15.08  
 DATE

THIS DEVELOPMENT PLAN IS AS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.  
*John R. Robertson*  
 HOWARD S.C.D.      3/13/08  
 DATE

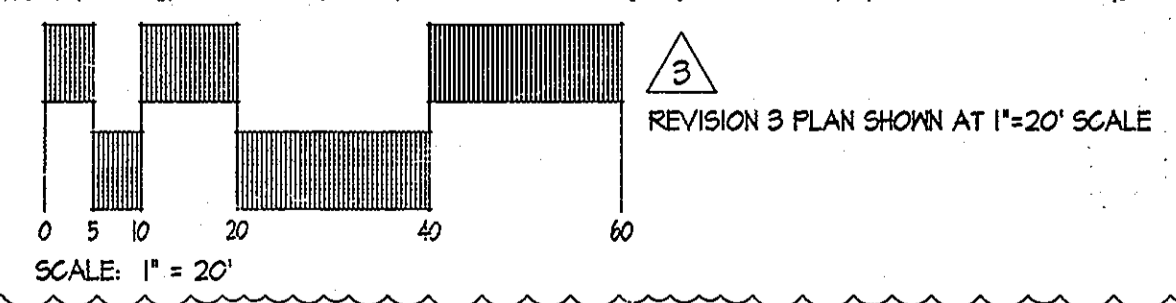


PLAN  
 SCALE: 1" = 30'

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 NUMBER: 32574      EXPIRATION DATE: 1/16/10

JHU/APL INTERNAL USE  
 THIS DATA SHALL NOT BE DISCLOSED TO A THIRD PARTY AND SHALL NOT BE DUPLICATED, USED, OR DISCLOSED IN WHOLE OR IN PART FOR ANY PURPOSE OTHER THAN TO EVALUATE THIS RFP OR, IN THE CASE OF A CONTRACT AWARD, TO PERFORM THE WORK REQUIRED HEREUNDER, WITHOUT THE EXPRESS WRITTEN CONSENT OF JHU/APL.



APPROVED: DEPARTMENT OF PLANNING AND ZONING  
*[Signature]* 2/7/08  
 Chief, Development Engineering Division  
*[Signature]* 3/19/08  
 Chief, Division of Land Development  
*[Signature]* 3/19/08  
 Director

**CENTURY ENGINEERING**  
 CONSULTING ENGINEERS - PLANNERS  
 10710 Gilroy Road, Hunt Valley, MD 21031  
 Phone: 443.589.2400 Fax: 443.589.2401



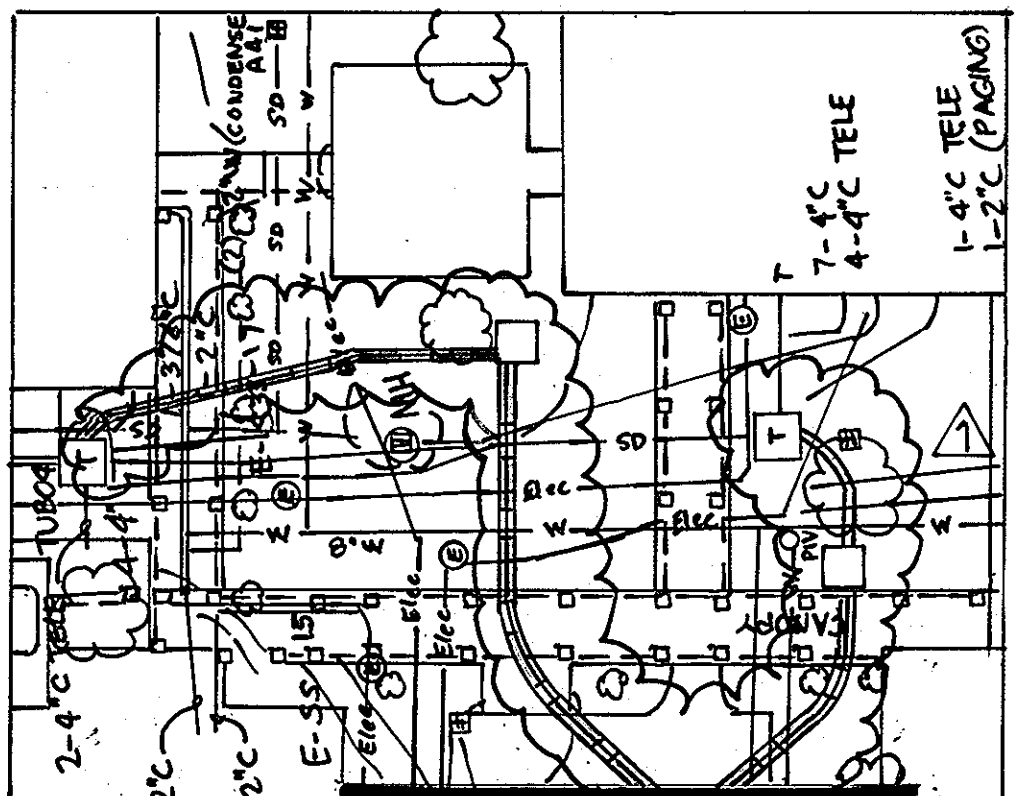
DESIGN BY:	A.J.D.		
DRAWN BY:	M.S.S.		
CHECKED BY:	A.J.D.		
DATE:	FEB. 15, 2008		
BY NO.			
REVISION			
	AFE	Δ	BUILDING 17 OUTDOOR PLAZA ASPHALT REMOVAL IN FRONT OF BUILDING 17, RESTRIPIPING BEHIND BUILDING 17 AND CENTER SERVICE LOT
	RDT	Δ	ADD SUBSTATION CONSOLIDATION & DUCT BANKS
			5-18-09
			DATE

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 APPLIED PHYSICS LABORATORY  
 11100 JOHNS HOPKINS ROAD  
 LAUREL, MARYLAND 20723-6099  
 443-778-5134

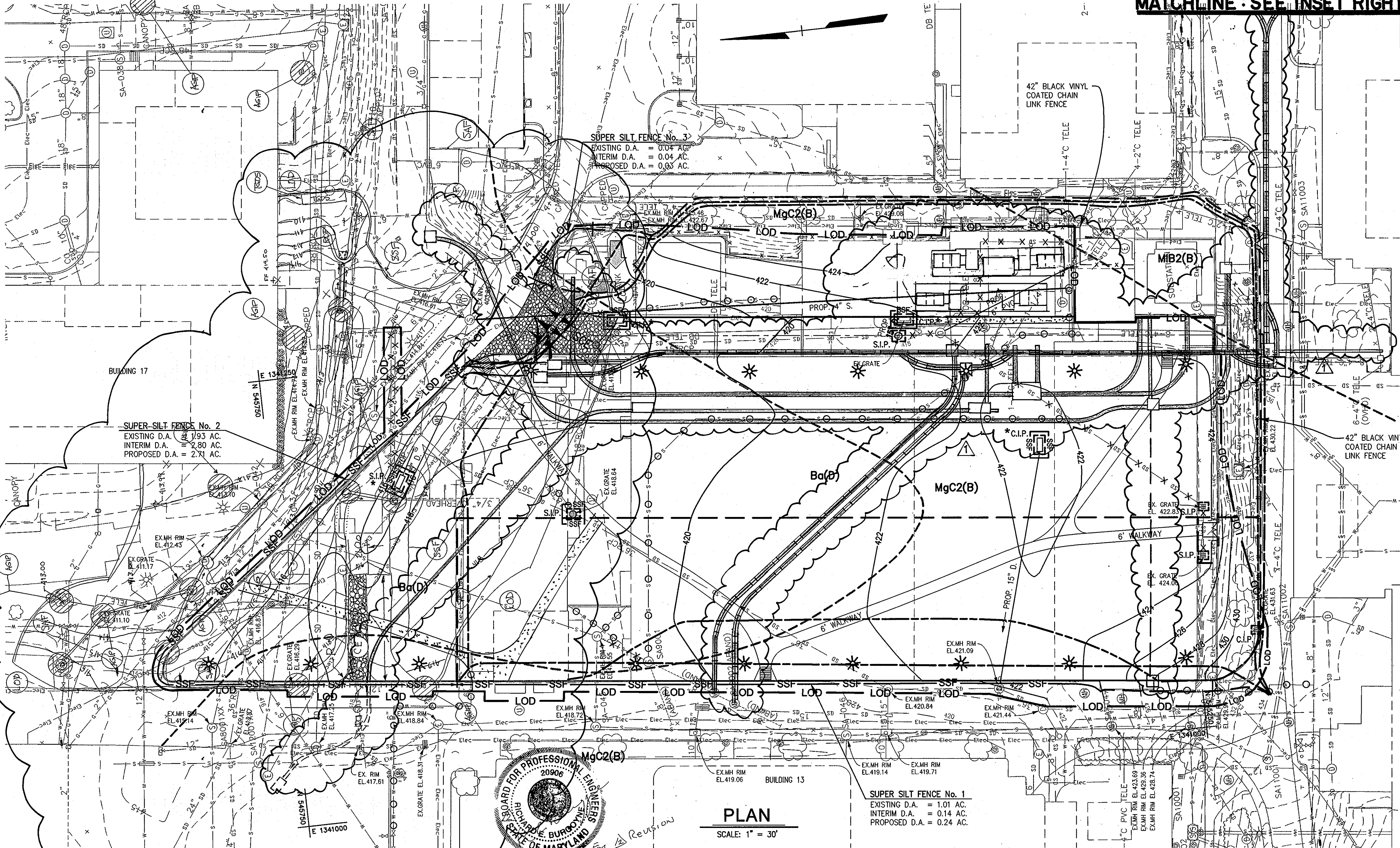
EROSION & SEDIMENT CONTROL PLAN  
 "CENTRAL GREEN, PHASE 2" - BORROW AREA  
 JOHNS HOPKINS UNIVERSITY PROPERTY  
 TAX MAP: 41 GRID: 16 PARCEL: 123  
 ELECTION DISTRICT 5-05 HOWARD COUNTY, MARYLAND  
 SHEET 9 OF 16 (RESTRICTED FILE)

C.E.I. PROJECT NUMBER 22172.25  
 SCALE: 1"=30'

MATCHLINE : SEE INSET RIGHT



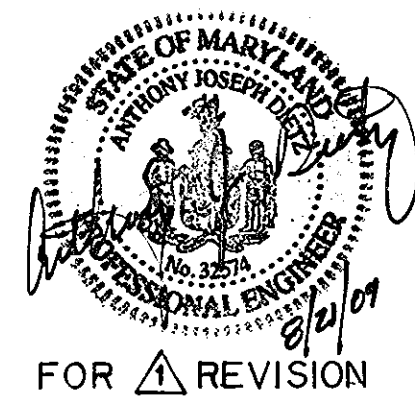
MATCHLINE : SEE PLAN LEFT



SUPER SILT FENCE No. 2  
EXISTING D.A. = 0.93 AC.  
INTERM D.A. = 2.80 AC.  
PROPOSED D.A. = 2.71 AC.

SUPER SILT FENCE No. 3  
EXISTING D.A. = 0.04 AC.  
INTERM D.A. = 0.04 AC.  
PROPOSED D.A. = 0.63 AC.

SUPER SILT FENCE No. 1  
EXISTING D.A. = 1.01 AC.  
INTERM D.A. = 0.14 AC.  
PROPOSED D.A. = 0.24 AC.



FOR REVISION

PLAN  
SCALE: 1" = 30'

EROSION AND SEDIMENT CONTROL: PHASE 2

\* SINCE INLET PROTECTION IS LIMITED TO 0.25 ACRES, PROVIDE A RING OF SUPER SILT FENCE AROUND THE INLET PROTECTION SHOWN.

LEGEND

Table defining symbols for various site features: EX. MINOR CONTOUR, EX. WALL, PROP. CURB INLET PROTECTION, etc.

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

JHU/APL INTERNAL USE  
THIS DATA SHALL NOT BE DISCLOSED TO A THIRD PARTY...

APPROVED: DEPARTMENT OF PLANNING AND ZONING  
Chief, Development Engineering Division  
Chief, Division of Land Development  
Director

CENTURY ENGINEERING  
CONSULTING ENGINEERS - PLANNERS  
10710 Gilroy Road, Hunt Valley, MD 21031  
Phone: 443.589.2400 Fax: 443.589.2401



DESIGN BY: A.J.D.  
DRAWN BY: M.S.S.  
CHECKED BY: A.J.D.  
DATE: FEB. 15, 2008

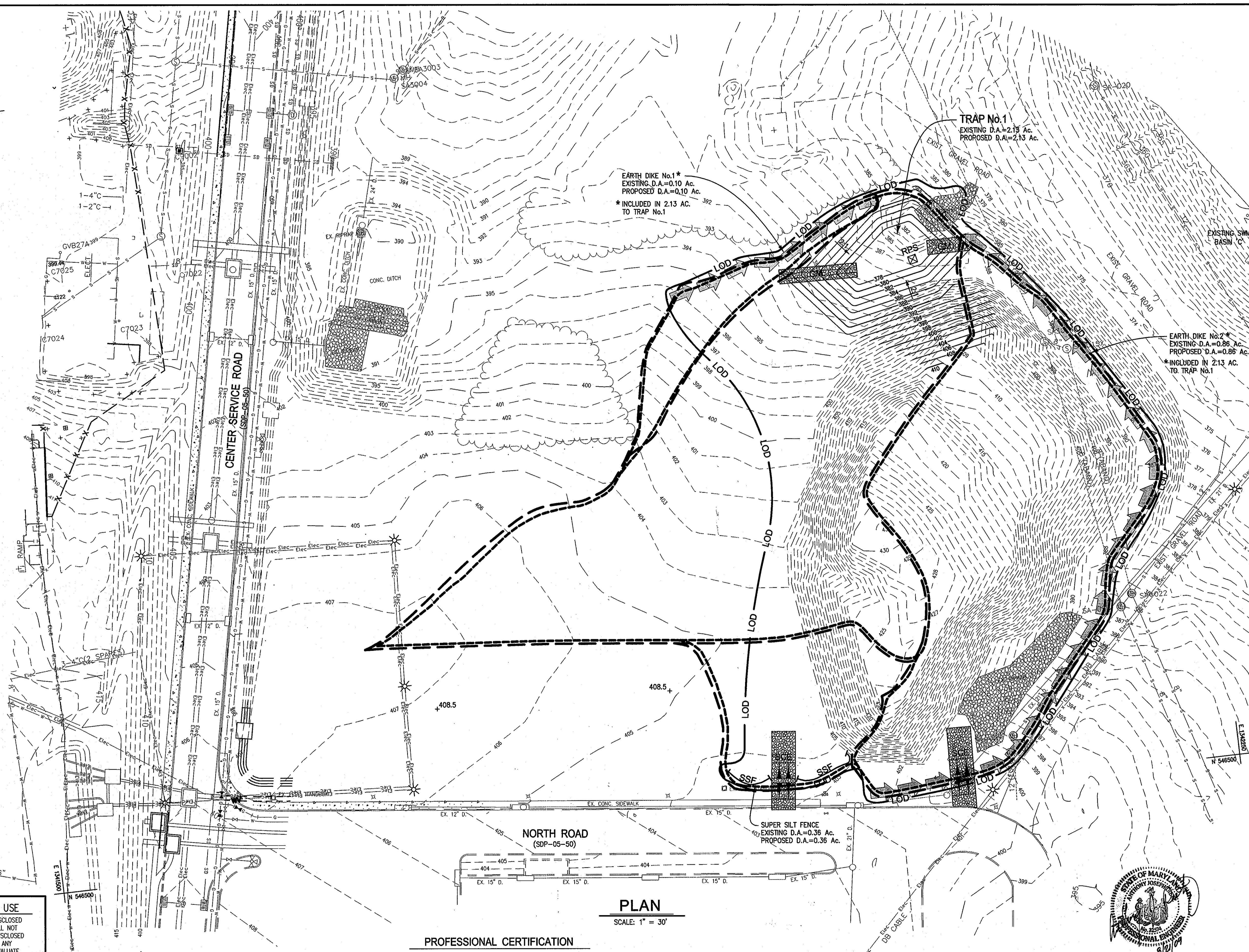
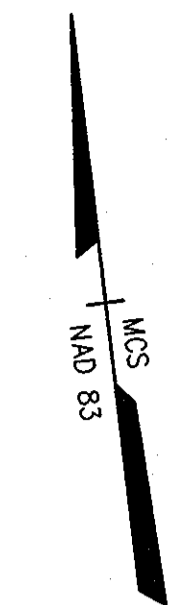
Revision table with columns for NO., REVISION, and DATE.

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LAUREL, MARYLAND 20723-6099  
443-778-5134

EROSION & SEDIMENT CONTROL DRAINAGE AREA MAP  
"CENTRAL GREEN, PHASE 2"  
JOHNS HOPKINS UNIVERSITY PROPERTY  
TAX MAP: 41 GRID: 16 PARCEL: 123  
ELECTION DISTRICT 5-05 HOWARD COUNTY, MARYLAND  
SHEET 10 OF 16 (RESTRICTED FILE)

C.E.I. PROJECT NUMBER 22172.25  
SCALE: 1"=30'

N 547000  
E 141500



**LEGEND**

- EX. MINOR CONTOUR --- 391 ---
- EX. MAJOR CONTOUR --- 390 ---
- EX. SPOT ELEVATION X 387.6
- EX. FIRE HYDRANT ⋄
- EX. STORM DRAIN SD
- EX. WATER LINE W W
- EX. SANITARY SEWER S S
- EX. ELECTRIC LINE Elec
- EX. COMMUNICATIONS LINE --- ---
- EX. MANHOLE ○
- EX. INLET □
- EX. TREE LINE ~~~~~
- EX. BUILDING [ ]
- EX. CURB AND GUTTER [ ]
- EX. BITUMINOUS PAVING [ ]
- EX. CONCRETE SIDEWALK [ ]
- EX. FENCE [ ]
- EX. WALL [ ]
- EX. CLEANOUT [ ]
- EX. LIGHT STANDARD [ ]
- EX. BUSH [ ]
- EX. TREE [ ]
- EX. PIPE BOLLARD [ ]
- EX. UTILITY POLE [ ]
- PROP. MINOR CONTOUR --- 379 ---
- PROP. MAJOR CONTOUR --- 380 ---
- PROP. SPOT ELEVATION +385.58
- PROP. CURB & GUTTER [ ]
- PROP. SILT FENCE [ ]
- PROP. SUPER SILT FENCE [ ]
- PROP. LIMIT OF DISTURBANCE [ ]
- PROP. EARTH DIKE [ ]
- PROP. STABILIZED CONSTRUCTION ENTRANCE [ ]
- EXISTING DRAINAGE AREA [ ]
- PROPOSED DRAINAGE AREA [ ]
- LIGHT FIXTURES \*

BY THE ENGINEER:  
"I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS, AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT."

*Anthony J. Pity* 2/21/00  
SIGNATURE OF ENGINEER DATE

BY THE DEVELOPER:  
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*James E. Truch* 2.15.08  
SIGNATURE OF DEVELOPER DATE

THIS DEVELOPMENT PLAN IS AS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.  
*John L. Ralston* 3/18/03  
HOWARD S.C.D. DATE

**PLAN**  
SCALE: 1" = 30'

**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 NUMBER: 32514 EXPIRATION DATE: 4/6/10

**JHU/APL INTERNAL USE**  
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FOR REVISION

TOTAL DISTURBED AREA: 75,794 SQ. FT. / 1.74 ACRES

APPROVED: DEPARTMENT OF PLANNING AND ZONING  
*Chad D. Williams* 3/17/08  
Chief, Development Engineering Division Date  
*Condy Thomas* 3/19/08  
Chief, Division of Land Development Date  
*Mark A. Taylor* 2/19/08  
Director Date

**CENTURY ENGINEERING**  
CONSULTING ENGINEERS - PLANNERS  
10710 Gilroy Road, Hunt Valley, MD 21031  
Phone: 443.589.2400 Fax: 443.589.2401

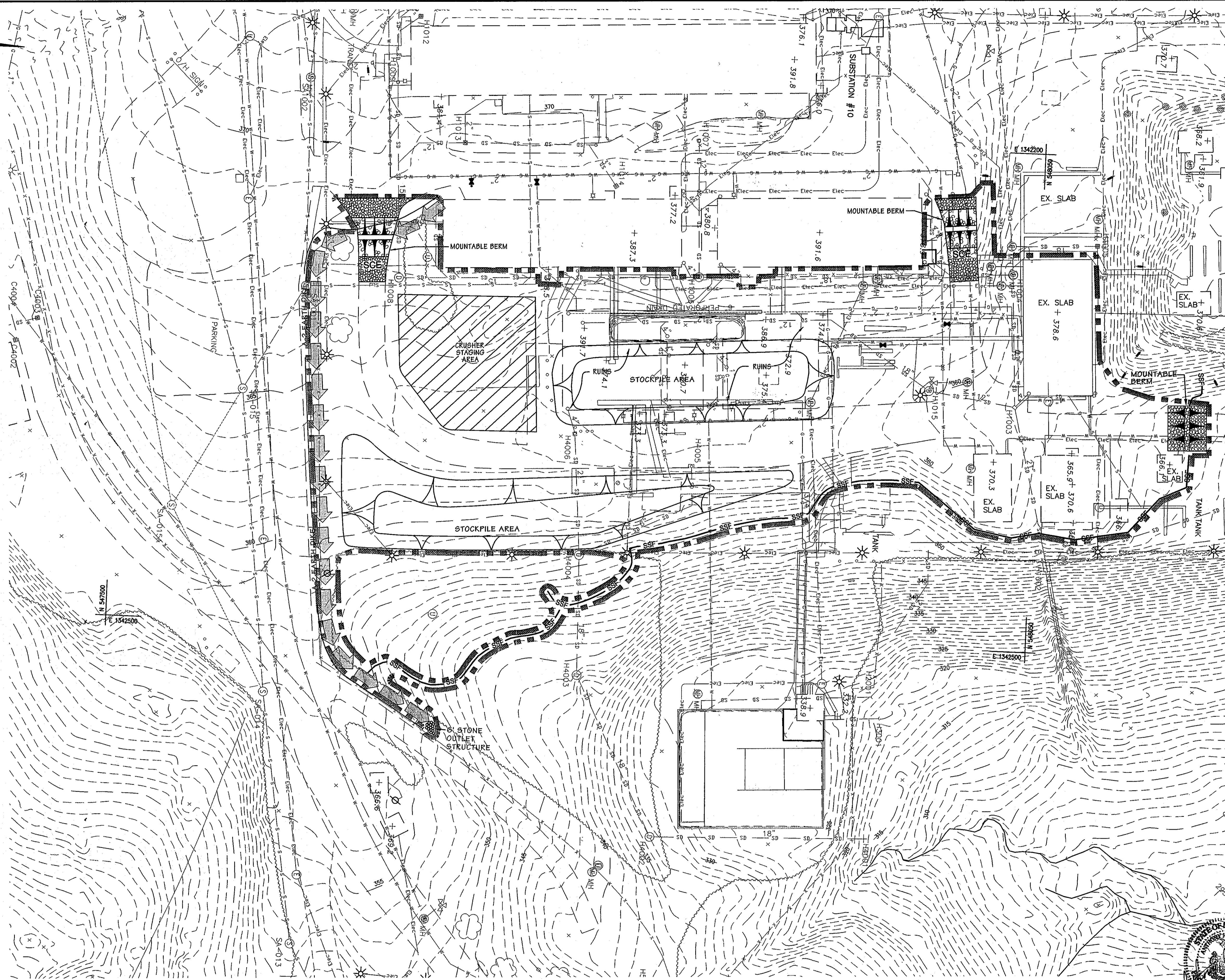


DESIGN BY: A.J.D.					
DRAWN BY: M.S.S.					
CHECKED BY: A.J.D.					
DATE: FEB. 15, 2008	RDT	ADD SUBSTATION CONSOLIDATION & DUCT BANKS	5-18-09		
	BY	NO.	REVISION	DATE	

**THE JOHNS HOPKINS UNIVERSITY APPLIED PHYSICS LABORATORY**  
11100 JOHNS HOPKINS ROAD  
LAUREL, MARYLAND 20723-6099  
443-778-5134

**EROSION & SEDIMENT CONTROL DRAINAGE AREA MAP**  
"CENTRAL GREEN, PHASE 2" - BORROW AREA  
JOHNS HOPKINS UNIVERSITY PROPERTY  
TAX MAP: 41 GRID: 16 PARCEL: 123  
ELECTION DISTRICT 5-05 HOWARD COUNTY, MARYLAND  
SHEET 11 OF 16 (RESTRICTED FILE)

C.E.I. PROJECT NUMBER 22172.25  
SCALE: 1"=30'



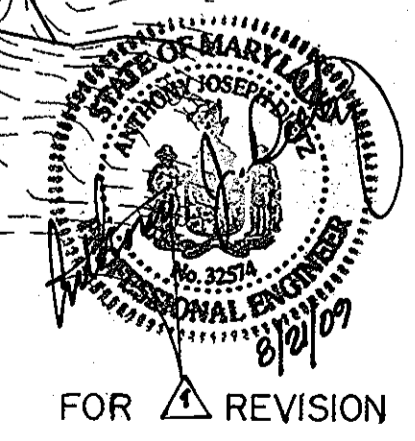
**LEGEND**

- EX. MINOR CONTOUR --- 391 ---
- EX. MAJOR CONTOUR --- 390 ---
- EX. SPOT ELEVATION X 387.6
- EX. FIRE HYDRANT db
- EX. STORM DRAIN --- SD ---
- EX. WATER LINE --- W --- W ---
- EX. SANITARY SEWER --- S --- S ---
- EX. ELECTRIC LINE --- Elec ---
- EX. COMMUNICATIONS LINE --- ---
- EX. MANHOLE o
- EX. INLET o
- EX. TREE LINE ~~~~~
- EX. BUILDING [rectangle]
- EX. CURB AND GUTTER [dashed line]
- EX. BITUMINOUS PAVING [dotted line]
- EX. CONCRETE SIDEWALK [dashed line]
- EX. FENCE [line with 'x' markers]
- EX. WALL [line with 'o' markers]
- EX. CLEANOUT [line with 'o' markers]
- EX. LIGHT STANDARD [circle with cross]
- EX. BUSH [circle with dots]
- EX. TREE [circle with cross]
- EX. PIPE BOLLARD [circle with dot]
- EX. UTILITY POLE [circle with cross]
- PROP. MINOR CONTOUR --- 379 ---
- PROP. MAJOR CONTOUR --- 380 ---
- PROP. SPOT ELEVATION + 385.58
- PROP. CURB & GUTTER [dashed line]
- PROP. SILT FENCE --- SF ---
- PROP. SUPER SILT FENCE --- SSF ---
- PROP. LIMIT OF DISTURBANCE [thick dashed line]
- PROP. EARTH DIKE [line with arrows]
- PROP. STABILIZED CONSTRUCTION ENTRANCE [arrow with 'SCE' box]
- MOUNTABLE BERM [line with triangles]
- PROP. CONSTRUCTION FENCE [line with 'x' markers]

**JHU/APL INTERNAL USE**  
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**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 NUMBER: 32514      EXPIRATION DATE: 1/16/10

**NOTE:**  
 THERE ARE NO DRAINAGE AREAS ON THIS SITE GREATER THAN 2.0 ACRES. THEREFORE INTERIM STORMWATER MANAGEMENT IS NOT REQUIRED.



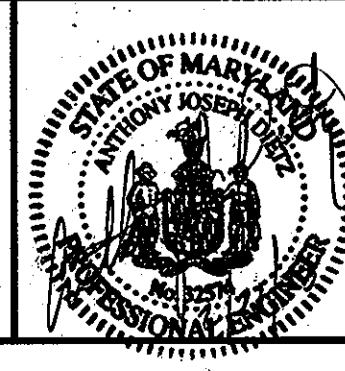
**BY THE ENGINEER:**  
 "I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS, AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT."  
*Anthony J. Dietz*      2/21/08  
 SIGNATURE OF ENGINEER      DATE

**BY THE DEVELOPER:**  
 "I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT."  
*James E. Teuch*      2.15.08  
 SIGNATURE OF DEVELOPER      DATE

THIS DEVELOPMENT PLAN IS AS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.  
*John K. Ralston*      3/13/08  
 HOWARD S.C.D.      DATE

APPROVED: DEPARTMENT OF PLANNING AND ZONING  
*[Signature]*      2/17/08  
 Chief, Development Engineering Division      Date  
*[Signature]*      3/19/08  
 Chief, Division of Land Development      Date  
*[Signature]*      3/19/08  
 Director      Date

**CENTURY ENGINEERING**  
 CONSULTING ENGINEERS - PLANNERS  
 10710 Gilroy Road, Hunt Valley, MD 21031  
 Phone: 443.589.2400 Fax: 443.589.2401

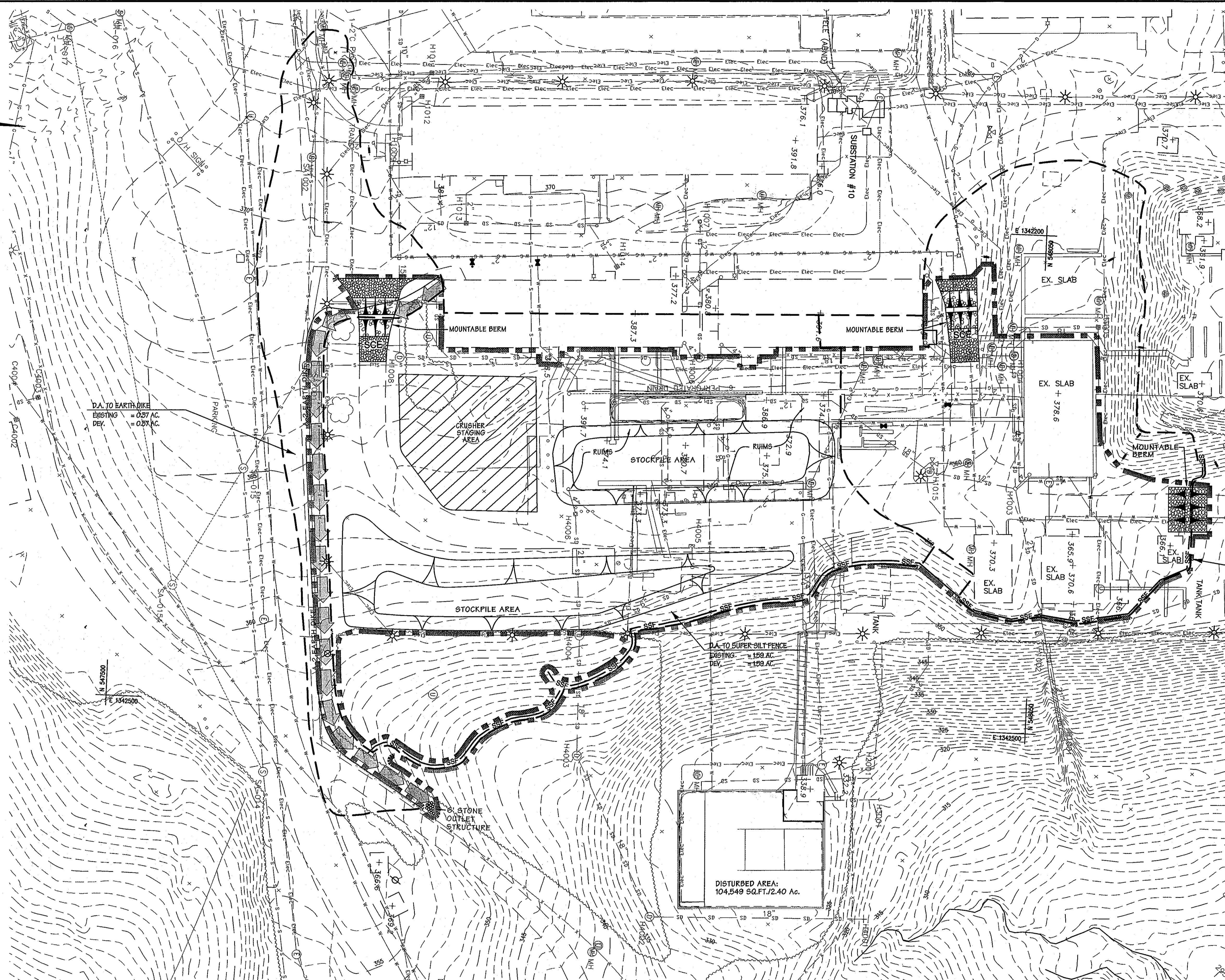


DESIGN BY:	A.J.D.				
DRAWN BY:	M.S.S.				
CHECKED BY:	A.J.D.				
DATE:	FEB. 15, 2008	RDT	ADD SUBSTATION CONSOLIDATION & DUCT BANKS	05-18-09	
		BY	NO.	REVISION	DATE

**THE JOHNS HOPKINS UNIVERSITY APPLIED PHYSICS LABORATORY**  
 11100 JOHNS HOPKINS ROAD  
 LAUREL, MARYLAND 20723-6099  
 443-778-5134

**EROSION AND SEDIMENT CONTROL PLAN STOCKPILE PRL SITE AREA**  
**"CENTRAL GREEN, PHASE 2"**  
 JOHNS HOPKINS UNIVERSITY PROPERTY  
 TAX MAP: 41      GRID: 16      PARCEL: 123  
 ELECTION DISTRICT 5-05      HOWARD COUNTY, MARYLAND  
 SHEET 12 OF 16 (RESTRICTED FILE)

C.E.I. PROJECT NUMBER 22172.25  
 SCALE: 1"=30'



**LEGEND**

- EX. MINOR CONTOUR --- 391 ---
- EX. MAJOR CONTOUR --- 380 ---
- EX. SPOT ELEVATION X 387.6
- EX. FIRE HYDRANT (Symbol)
- EX. STORM DRAIN --- SD ---
- EX. WATER LINE --- W --- W
- EX. SANITARY SEWER --- S --- S
- EX. ELECTRIC LINE --- Elec ---
- EX. COMMUNICATIONS LINE ---
- EX. MANHOLE (Symbol)
- EX. INLET (Symbol)
- EX. TREE LINE (Symbol)
- EX. BUILDING (Symbol)
- EX. CURB AND GUTTER (Symbol)
- EX. BITUMINOUS PAVING (Symbol)
- EX. CONCRETE SIDEWALK (Symbol)
- EX. FENCE (Symbol)
- EX. WALL (Symbol)
- EX. CLEANOUT (Symbol)
- EX. LIGHT STANDARD (Symbol)
- EX. BUSH (Symbol)
- EX. TREE (Symbol)
- EX. PIPE BOLLARD (Symbol)
- EX. UTILITY POLE (Symbol)
- PROP. MINOR CONTOUR --- 379 ---
- PROP. MAJOR CONTOUR --- 380 ---
- PROP. SPOT ELEVATION +385.58
- PROP. CURB & GUTTER (Symbol)
- PROP. SILT FENCE --- SF ---
- PROP. SUPER SILT FENCE --- SSF ---
- PROP. LIMIT OF DISTURBANCE (Symbol)
- PROP. EARTH DIKE (Symbol)
- PROP. STABILIZED CONSTRUCTION ENTRANCE (Symbol)
- MOUNTABLE BERM (Symbol)
- PROP. CONSTRUCTION FENCE (Symbol)



BY THE ENGINEER:  
 "I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS, AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT."  
*Anthony J. Dutz* 2/2/08  
 SIGNATURE OF ENGINEER DATE

BY THE DEVELOPER:  
 "I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT."  
*James E. Fusch* 2.15.08  
 SIGNATURE OF DEVELOPER DATE

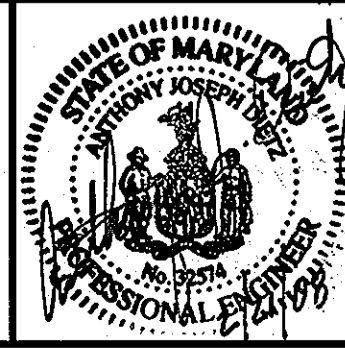
THIS DEVELOPMENT PLAN IS AS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.  
*John R. Robertson* 3/13/08  
 HOWARD S.C.D. DATE

**JHU/APL INTERNAL USE**  
 THIS DATA SHALL NOT BE DISCLOSED TO A THIRD PARTY AND SHALL NOT BE DUPLICATED, USED, OR DISCLOSED IN WHOLE OR IN PART FOR ANY PURPOSE OTHER THAN TO EVALUATE THIS RFP OR, IN THE CASE OF A CONTRACT AWARD, TO PERFORM THE WORK REQUIRED HEREUNDER, WITHOUT THE EXPRESS WRITTEN CONSENT OF JHU/APL.

**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 NUMBER: 31514 EXPIRATION DATE: 1/16/10

APPROVED: DEPARTMENT OF PLANNING AND ZONING  
*[Signature]* 2/7/08  
 Chief, Development Engineering Division Date  
*[Signature]* 3/19/08  
 Chief, Division of Land Development Date  
*[Signature]* 3/19/08  
 Director Date

**CENTURY ENGINEERING**  
 CONSULTING ENGINEERS - PLANNERS  
 10710 Gilroy Road, Hunt Valley, MD 21031  
 Phone: 443.589.2400 Fax: 443.589.2401



DESIGN BY:	A.J.D.				
DRAWN BY:	M.S.S.				
CHECKED BY:	A.J.D.				
DATE:	FEB. 15, 2008	RDT	ADD SUBSTATION CONSOLIDATION & DUCT BANKS	05-18-09	
		BY	NO.	REVISION	DATE

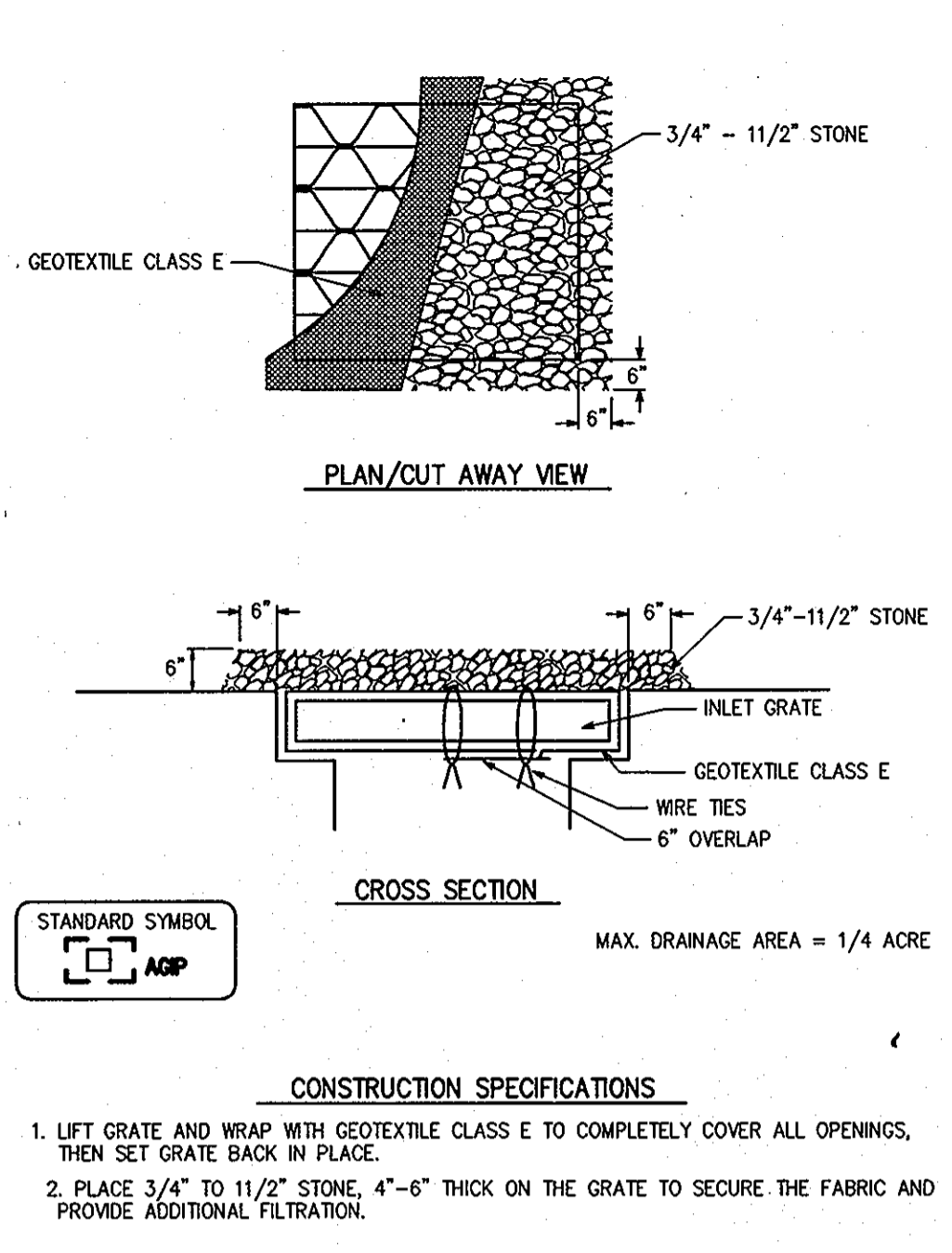
**THE JOHNS HOPKINS UNIVERSITY APPLIED PHYSICS LABORATORY**  
 11100 JOHNS HOPKINS ROAD  
 LAUREL, MARYLAND 20723-6C39  
 443-778-5134

EROSION AND SEDIMENT CONTROL  
 DRAINAGE AREA MAP STOCKPILE PRL SITE AREA  
**"CENTRAL GREEN, PHASE 2"**  
 JOHNS HOPKINS UNIVERSITY PROPERTY  
 TAX MAP: 41 GRID: 16 PARCEL: 123  
 ELECTION DISTRICT 5-05 HOWARD COUNTY, MARYLAND  
**SHEET 13 OF 16** (RESTRICTED FILE)

C.E.I. PROJECT NUMBER 22172.25  
 SCALE: 1"=30'

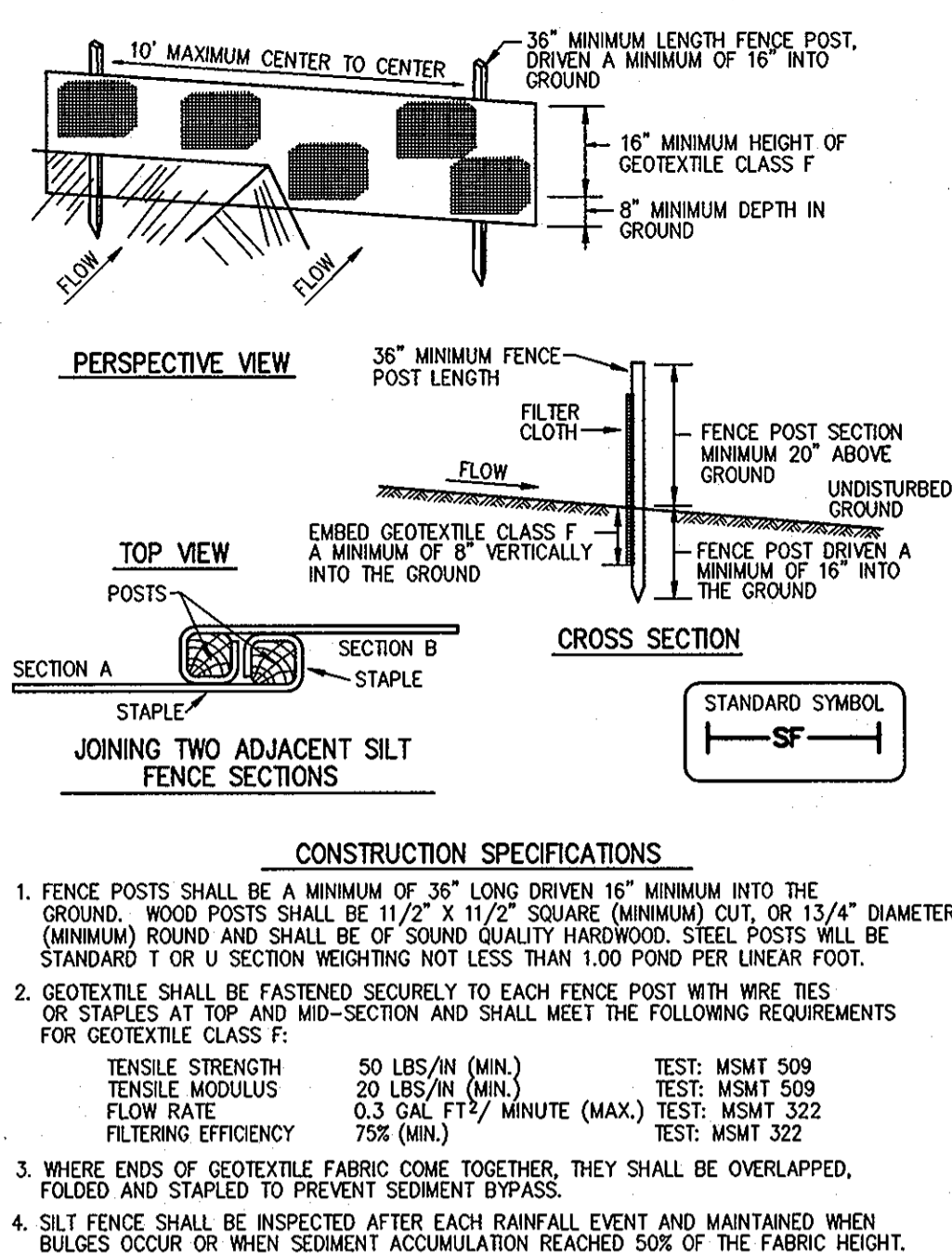


**DETAIL 23B - AT GRADE INLET PROTECTION**



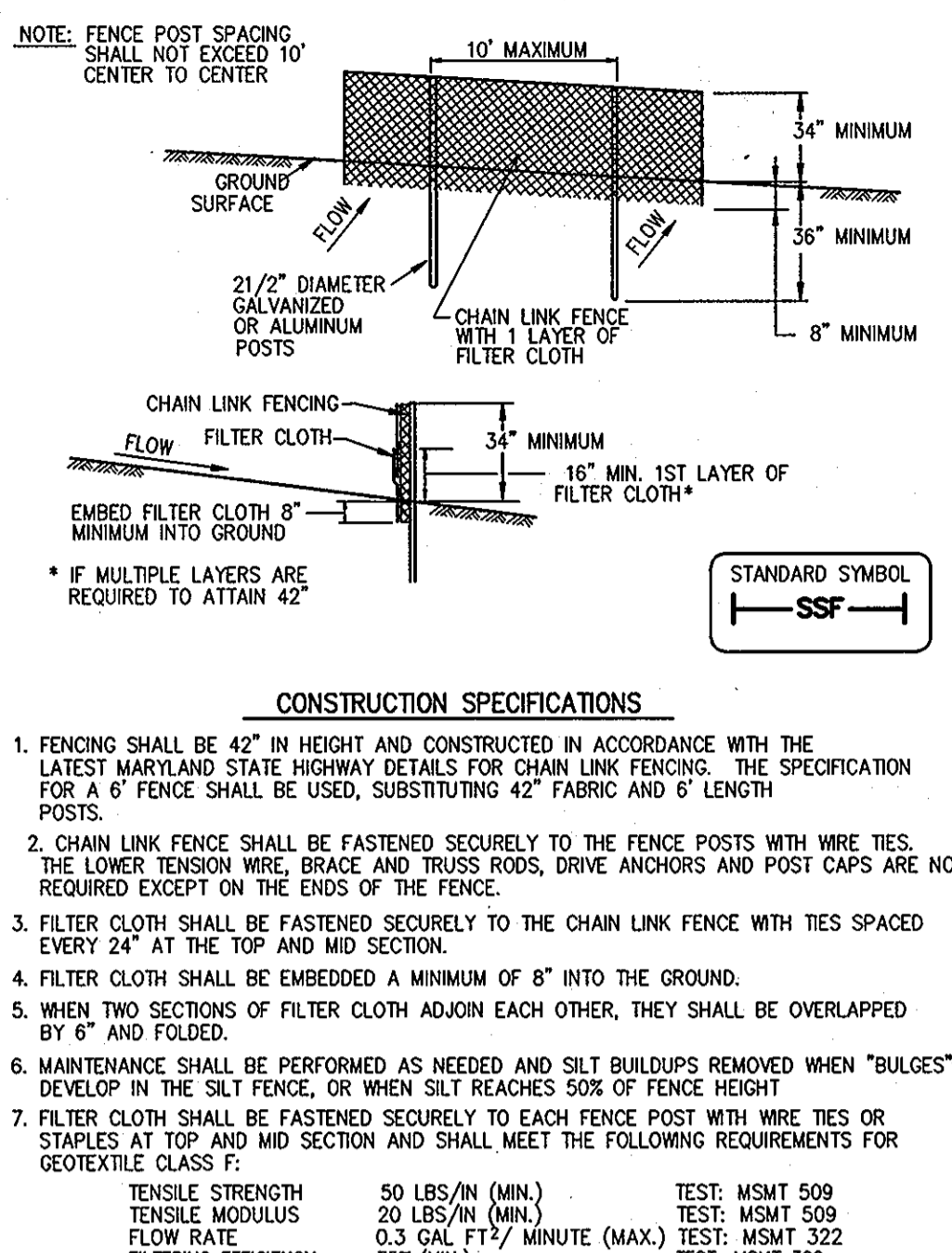
U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE PAGE E-16-5A MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

**DETAIL 22 - SILT FENCE**



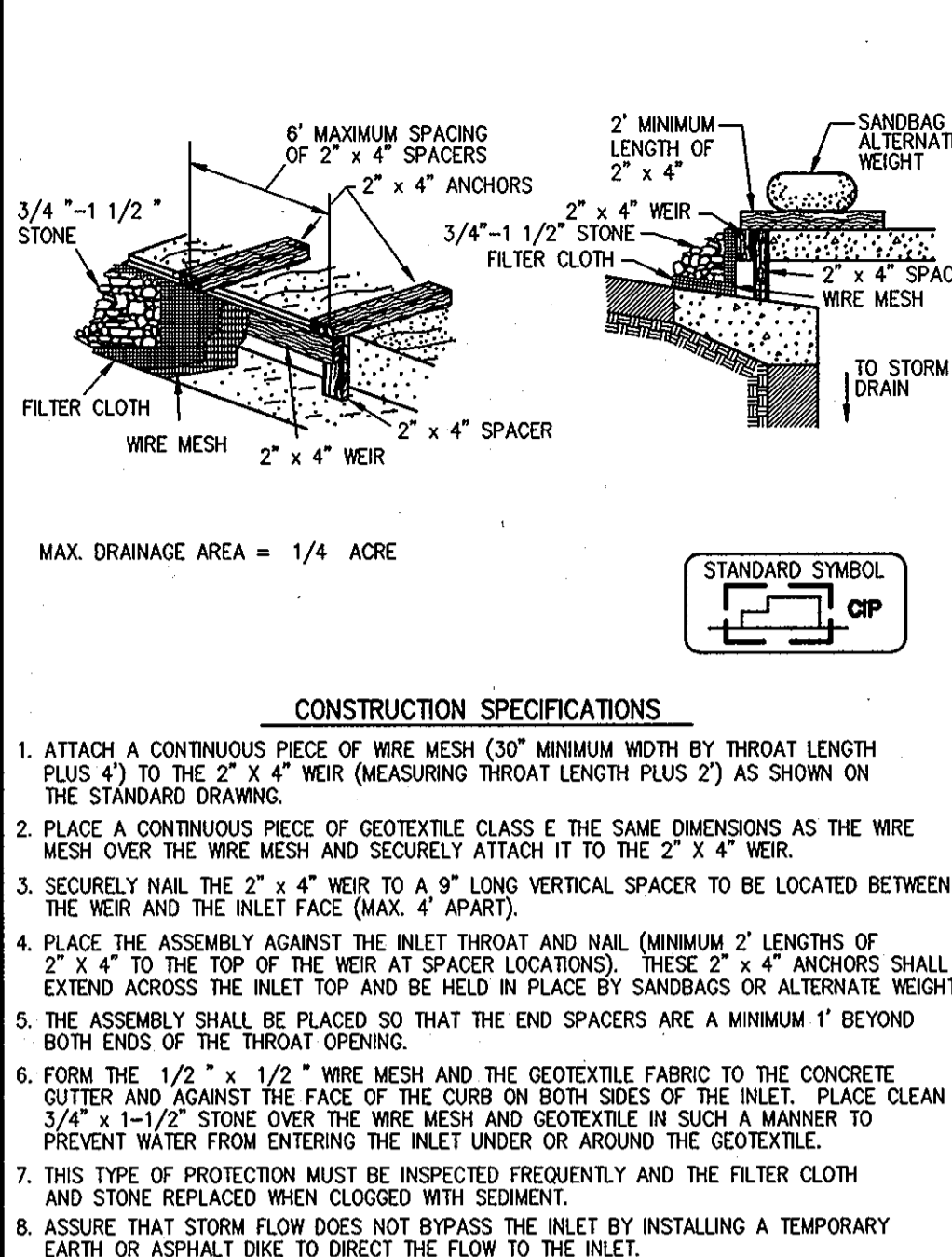
U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE PAGE E-15-3 MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

**DETAIL 23 - SUPER SILT FENCE**



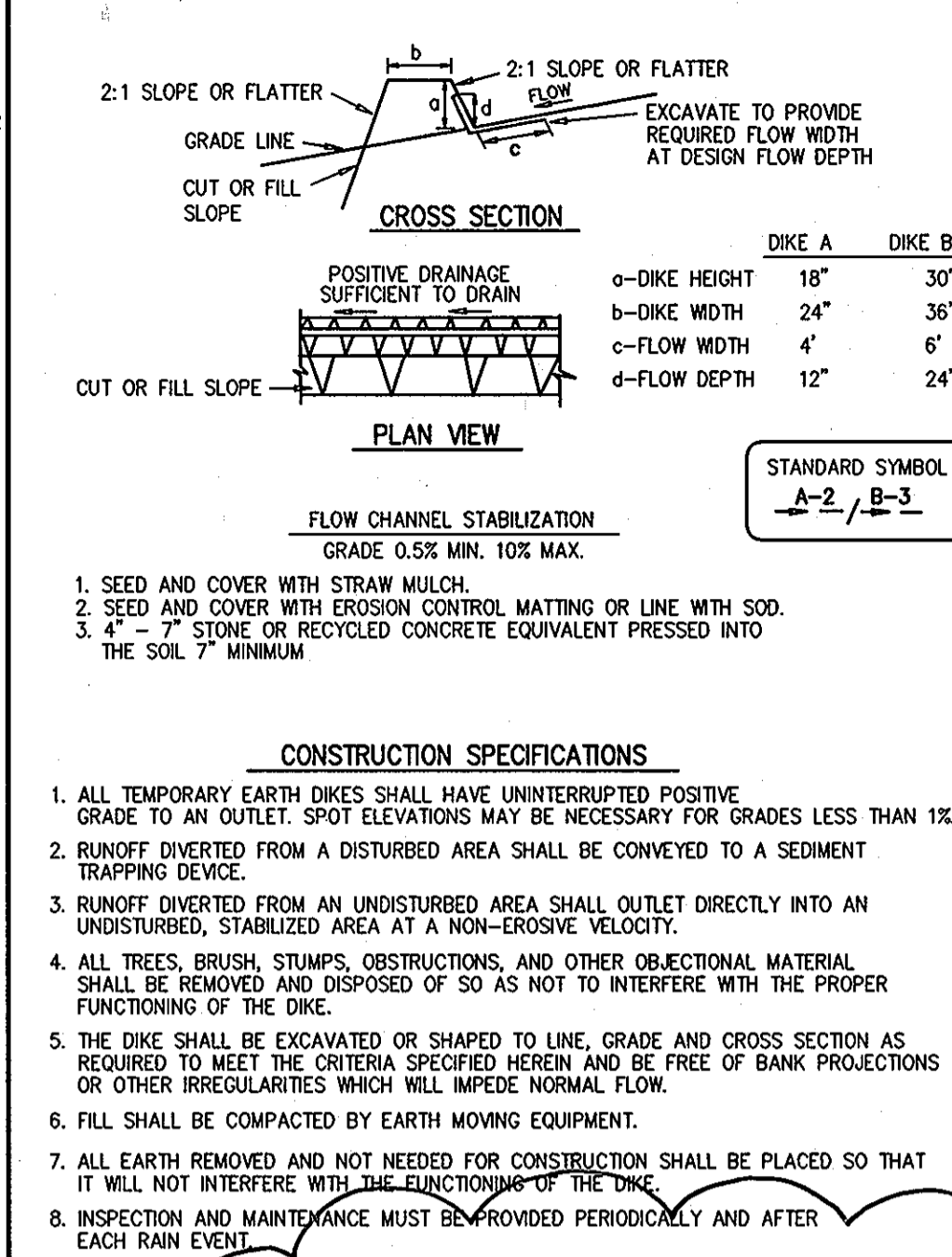
U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE PAGE H-28-3 MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

**DETAIL 23C - CURB INLET PROTECTION (COG OR COS INLETS)**



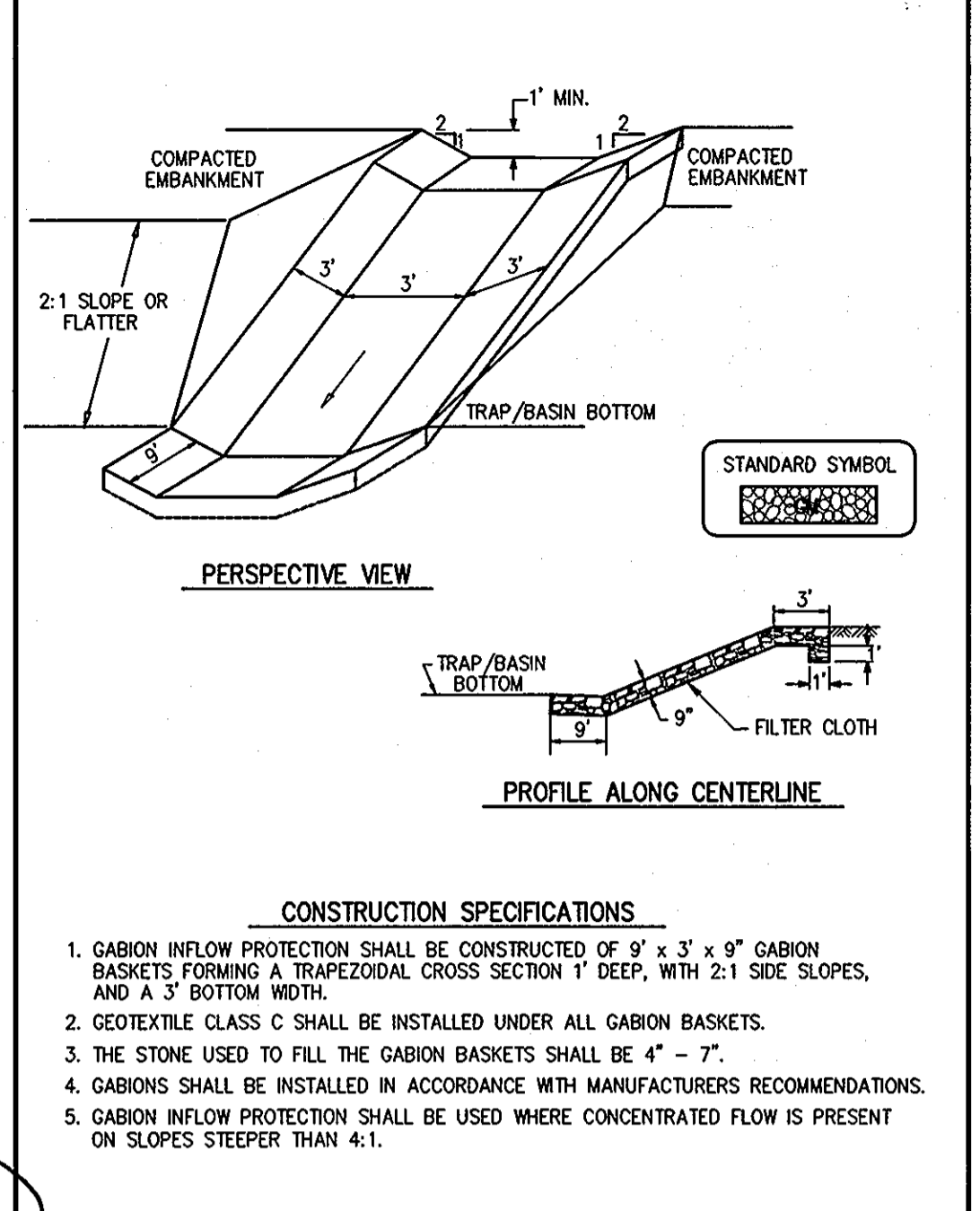
U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE PAGE E-16-5B MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

**DETAIL 1 - EARTH DIKE**



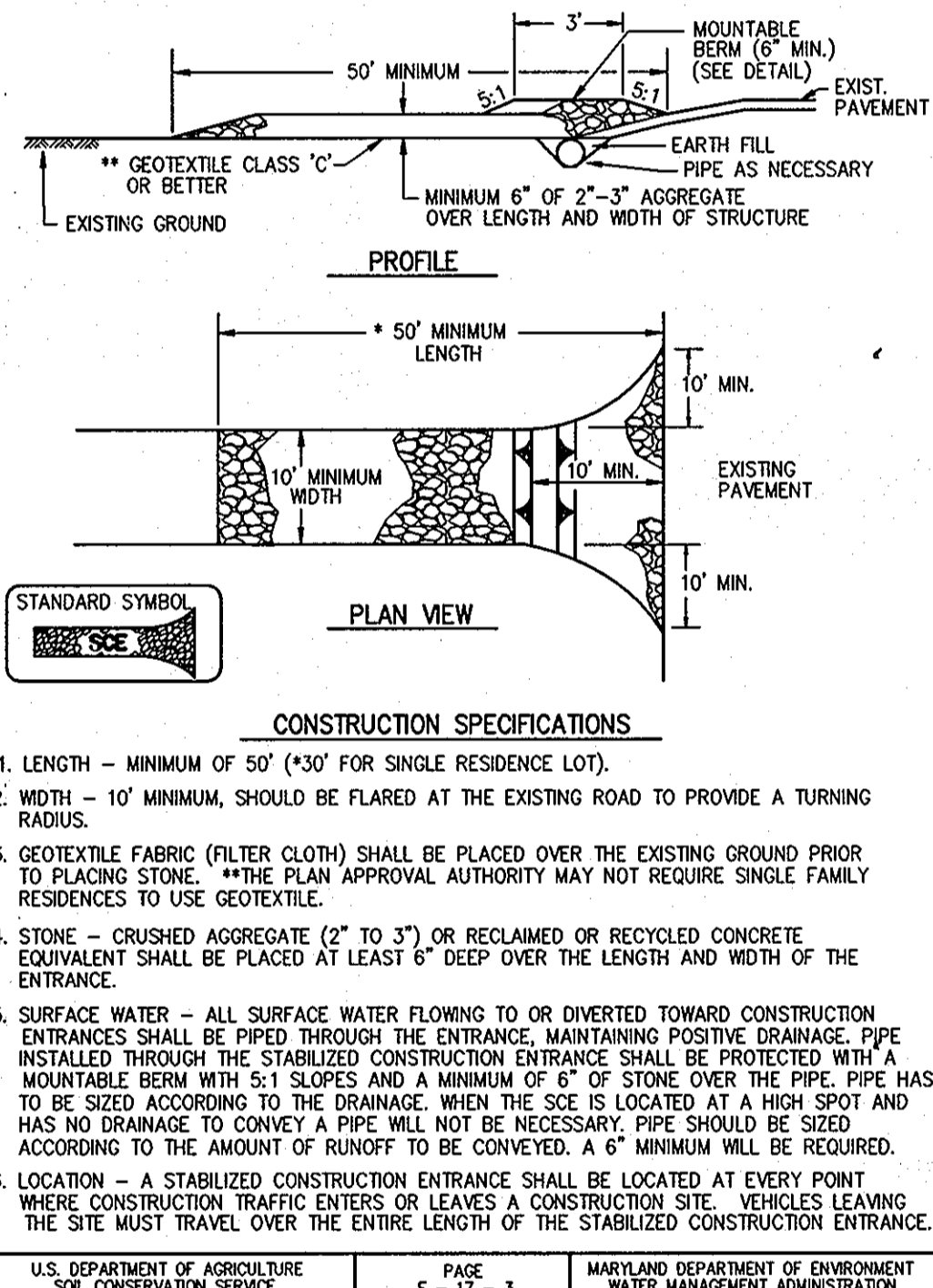
U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE PAGE A-1-6 MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

**DETAIL 6 - GABION INFLOW PROTECTION**



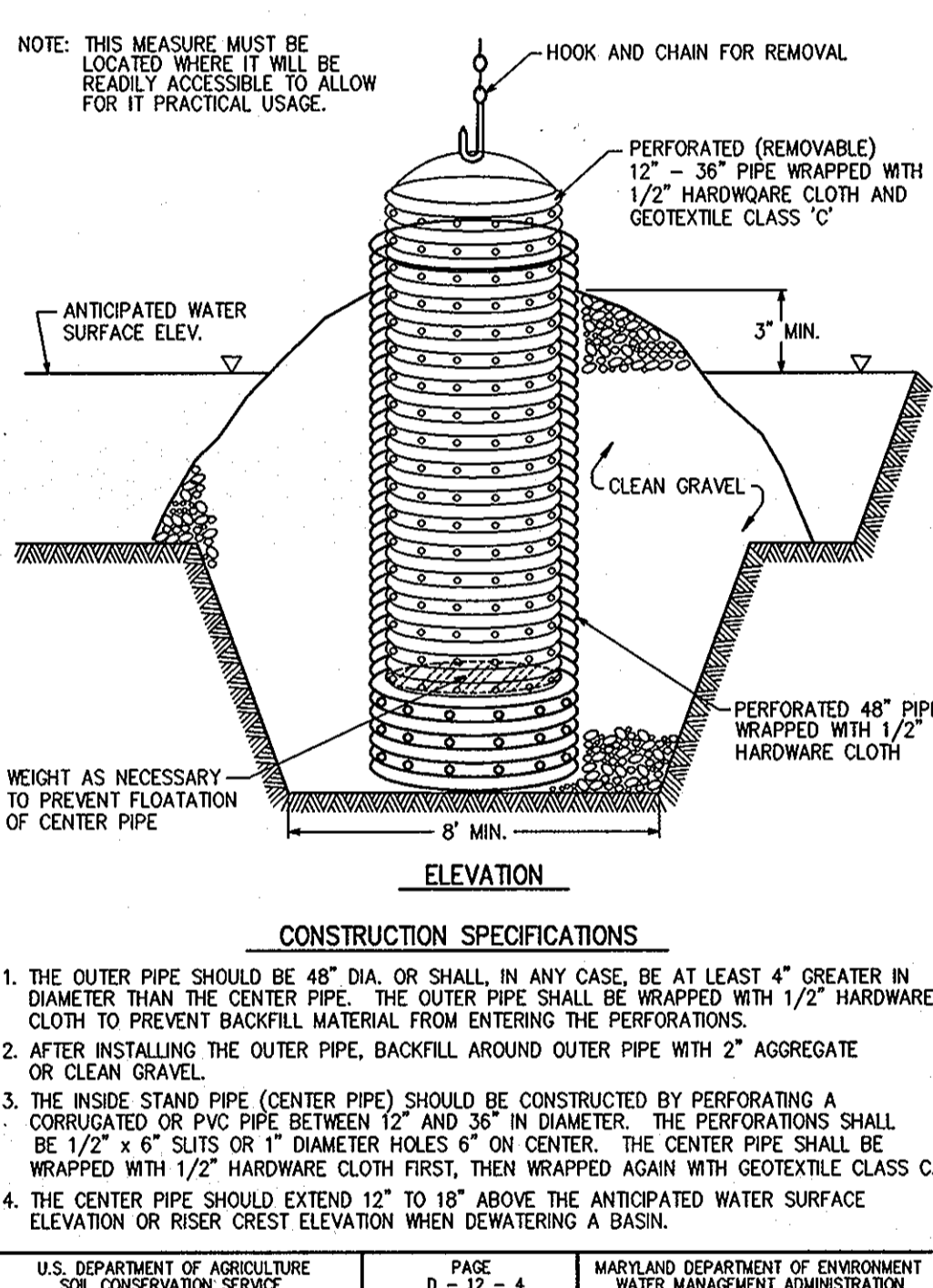
U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE MOOFD 8-7-2 MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

**DETAIL 24 - STABILIZED CONSTRUCTION ENTRANCE**



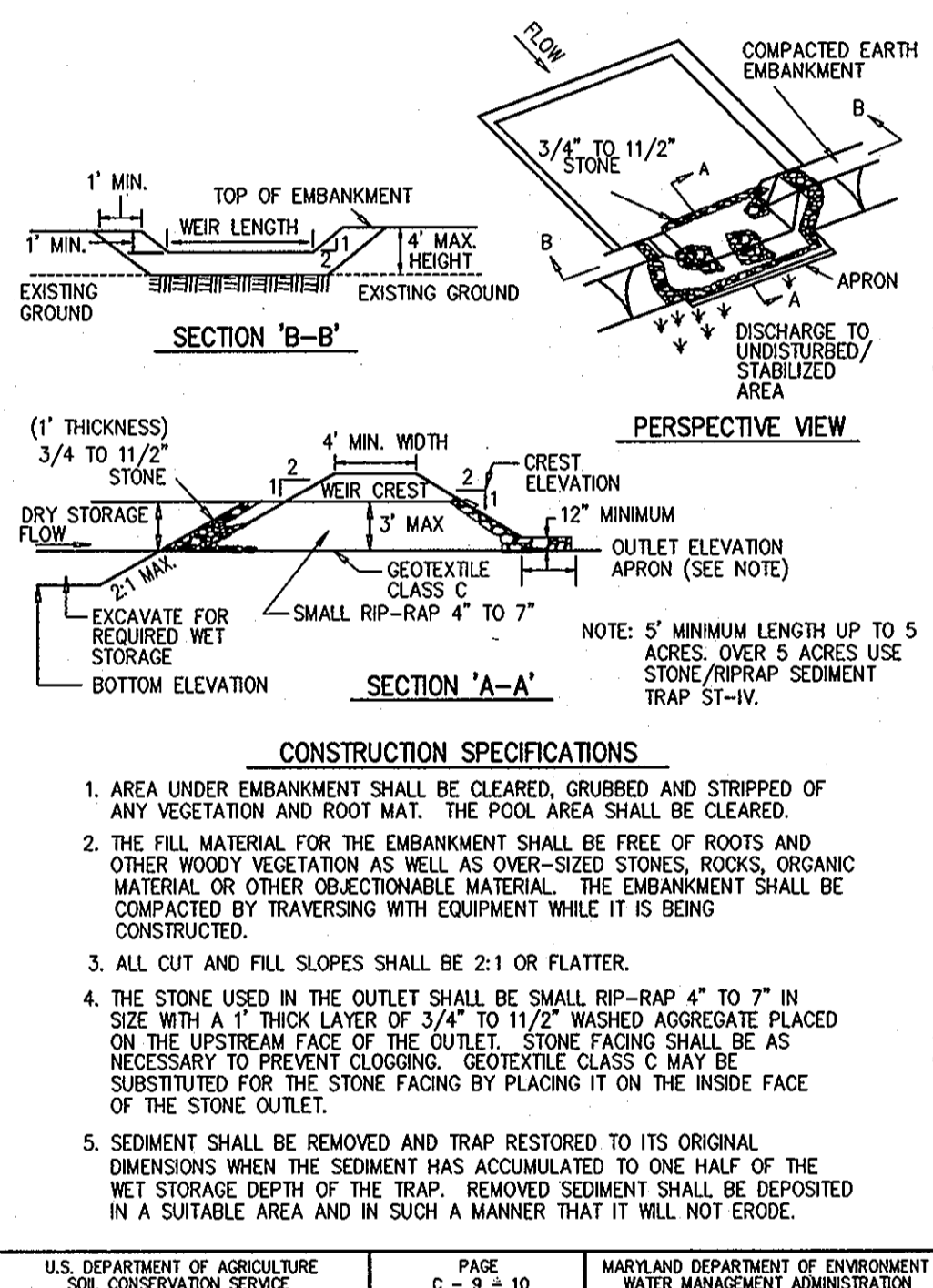
U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE PAGE F-17-3 MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

**DETAIL 20A - REMOVABLE PUMPING STATION**



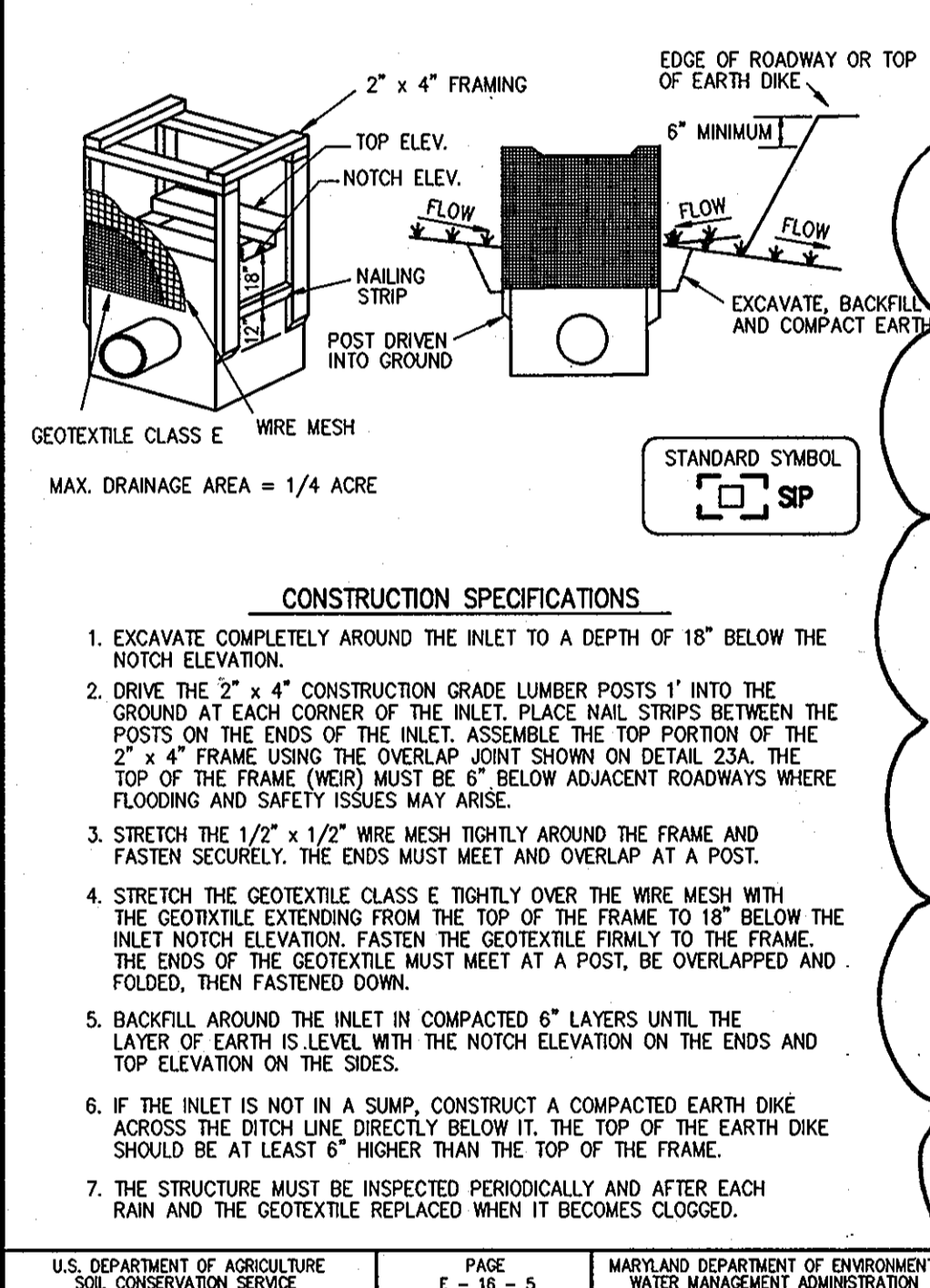
U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE PAGE D-12-4 MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

**DETAIL 9 - STONE OUTLET SEDIMENT TRAP - ST II**



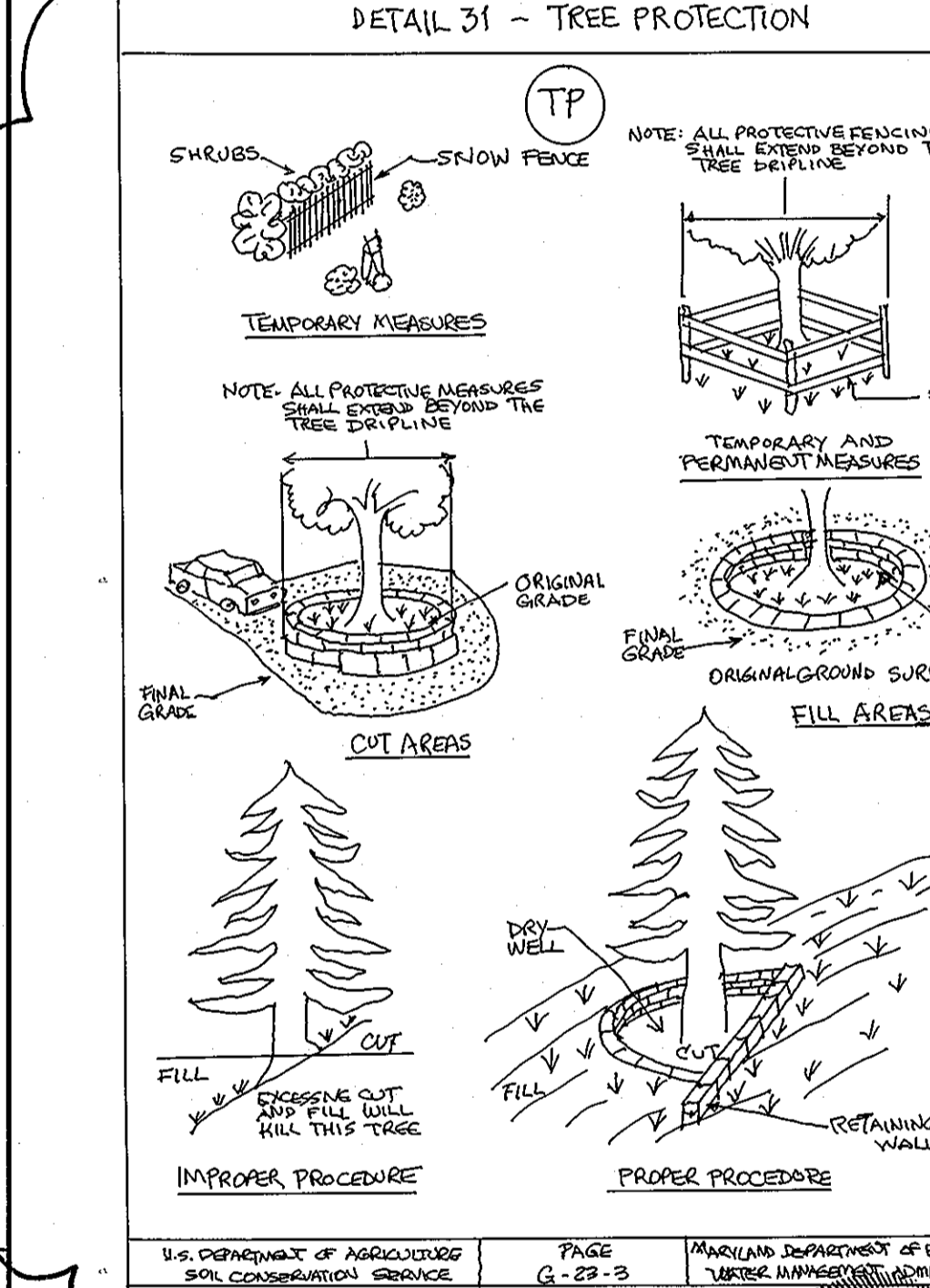
U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE PAGE C-9-10 MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

**DETAIL 23A - STANDARD INLET PROTECTION**



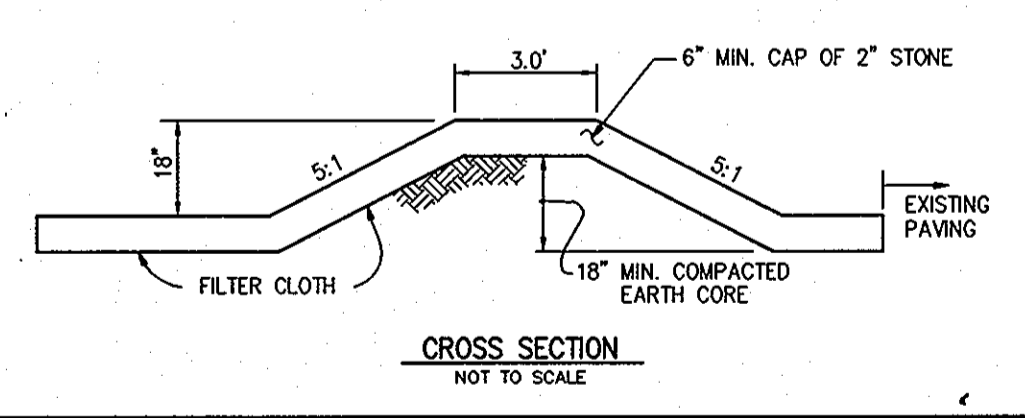
U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE PAGE E-16-5 MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

**DETAIL 31 - TREE PROTECTION**



U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE PAGE G-22-3 MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

**MOUNTABLE BERM DETAIL**



U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE PAGE H-28-3 MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

**JHU/APL INTERNAL USE**  
 THIS DATA SHALL NOT BE DISCLOSED TO A THIRD PARTY AND SHALL NOT BE DUPLICATED, USED, OR DISCLOSED IN WHOLE OR IN PART FOR ANY PURPOSE OTHER THAN TO EVALUATE THIS RFP OR, IN THE CASE OF A CONTRACT AWARD, TO PERFORM THE WORK REQUIRED HEREUNDER, WITHOUT THE EXPRESS WRITTEN CONSENT OF JHU/APL.

**CONSTRUCTION SPECIFICATIONS**

- LENGTH - MINIMUM OF 50' (\*30' FOR SINGLE RESIDENCE LOT).
- WIDTH - 10' MINIMUM, SHOULD BE FLARED AT THE EXISTING ROAD TO PROVIDE A TURNING RADIUS.
- GEOTEXTILE FABRIC (FILTER CLOTH) SHALL BE PLACED OVER THE EXISTING GROUND PRIOR TO PLACING STONE. \*\*THE PLAN APPROVAL AUTHORITY MAY NOT REQUIRE SINGLE FAMILY RESIDENCES TO USE GEOTEXTILE.
- STONE - CRUSHED AGGREGATE (2\"/>

**CONSTRUCTION SPECIFICATIONS**

- FENCE POSTS SHALL BE A MINIMUM OF 36\"/>

**CONSTRUCTION SPECIFICATIONS**

- ATTACH A CONTINUOUS PIECE OF WIRE MESH (30\"/>

**CONSTRUCTION SPECIFICATIONS**

- ALL TEMPORARY EARTH DIKES SHALL BE UNDISTURBED POSITIVE GRADE TO AN OUTLET. SPOT ELEVATIONS MAY BE NECESSARY FOR GRADES LESS THAN 1%.
- RUNOFF DIVERTED FROM AN UNDISTURBED AREA SHALL BE CONVEYED TO A SEDIMENT TRAPPING DEVICE.
- RUNOFF DIVERTED FROM AN UNDISTURBED AREA SHALL OUTLET DIRECTLY INTO AN UNDISTURBED, STABILIZED AREA AT A NON-EROSIVE VELOCITY.
- ALL TREES, BRUSH, STUMPS, OBSTRUCTIONS, AND OTHER OBJECTIONAL MATERIAL SHALL BE REMOVED AND DISPOSED OF SO AS NOT TO INTERFERE WITH THE PROPER FUNCTIONING OF THE DIKE.

**APPROVED: DEPARTMENT OF PLANNING AND ZONING**

*[Signature]*  
 Chief, Development Engineering Division  
 Date: 5/12/08  
*[Signature]*  
 Chief, Division of Land Development  
 Date: 3/19/08  
*[Signature]*  
 Director  
 Date: 3/19/08

**CENTURY ENGINEERING**

CONSULTING ENGINEERS - PLANNERS  
 10710 Gilroy Road, Hunt Valley, MD 21031  
 Phone: 443.589.2400 Fax: 443.589.2401

**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 NUMBER: 32574 EXPIRATION DATE: 4/16/10

**DESIGN BY: A.J.D.**

DRAWN BY: M.S.S.  
 CHECKED BY: A.J.D.  
 DATE: FEB. 15, 2008  
 SERVICE ROAD REALIGNMENT TO BUILDINGS 7, 8, 9  
 ADD SUBSTATION CONSOLIDATION & DUCT BANKS  
 REVISION  
 DATE: 3/10/08  
 DATE: 05-18-08

**THE JOHNS HOPKINS UNIVERSITY APPLIED PHYSICS LABORATORY**

11100 JOHNS HOPKINS ROAD  
 LAUREL, MARYLAND 20723-6099  
 443-778-5134

**EROSION & SEDIMENT CONTROL DETAILS**

**"CENTRAL GREEN, PHASE 2"**  
 JOHNS HOPKINS UNIVERSITY PROPERTY  
 TAX MAP: 41 GRID: 16 PARCEL: 123  
 ELECTION DISTRICT 5-05 HOWARD COUNTY, MARYLAND  
 SHEET 15 OF 16 (RESTRICTED FILE)

**C.E.I. PROJECT NUMBER**

22172.25  
 SCALE: AS SHOWN

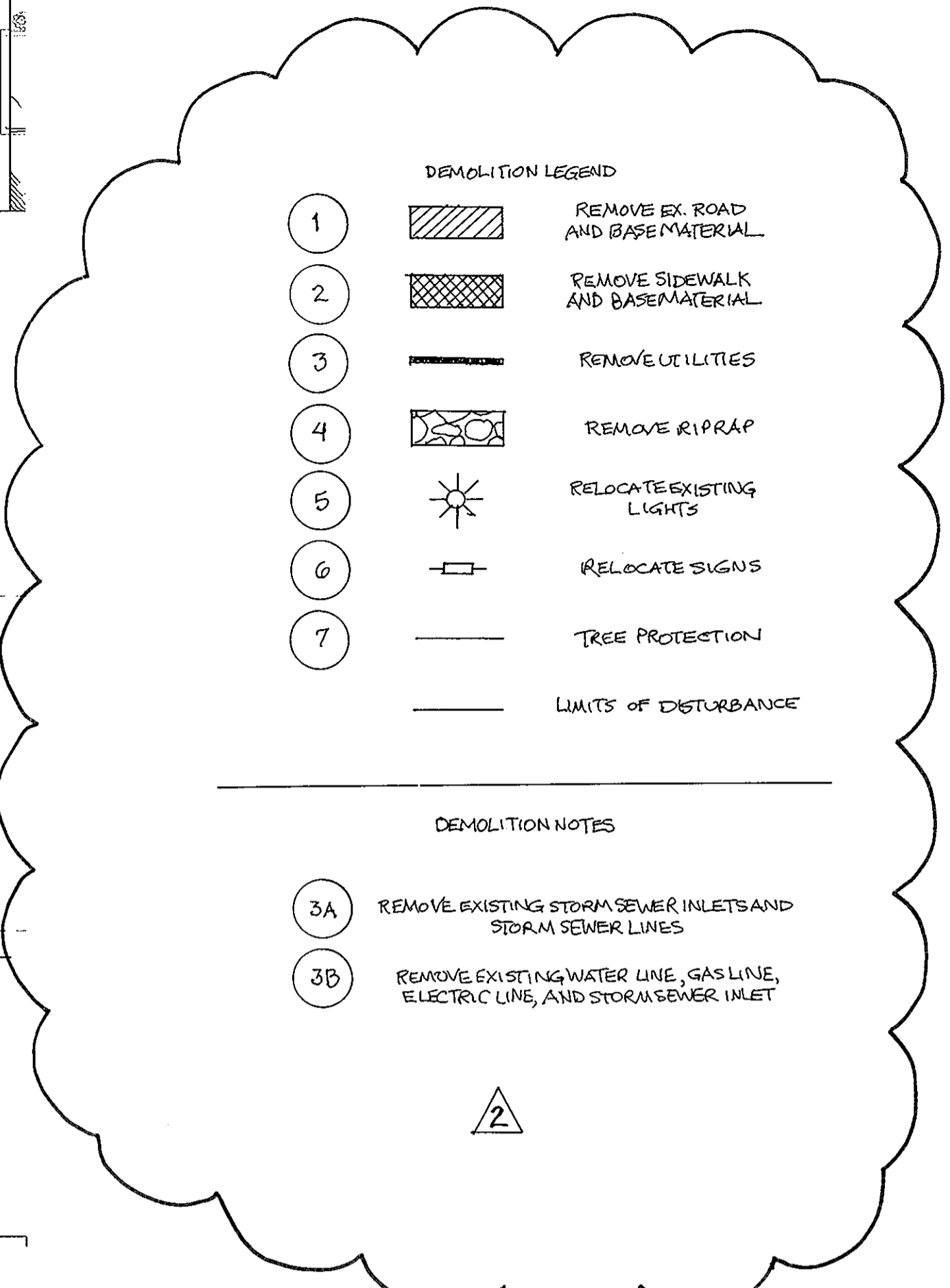
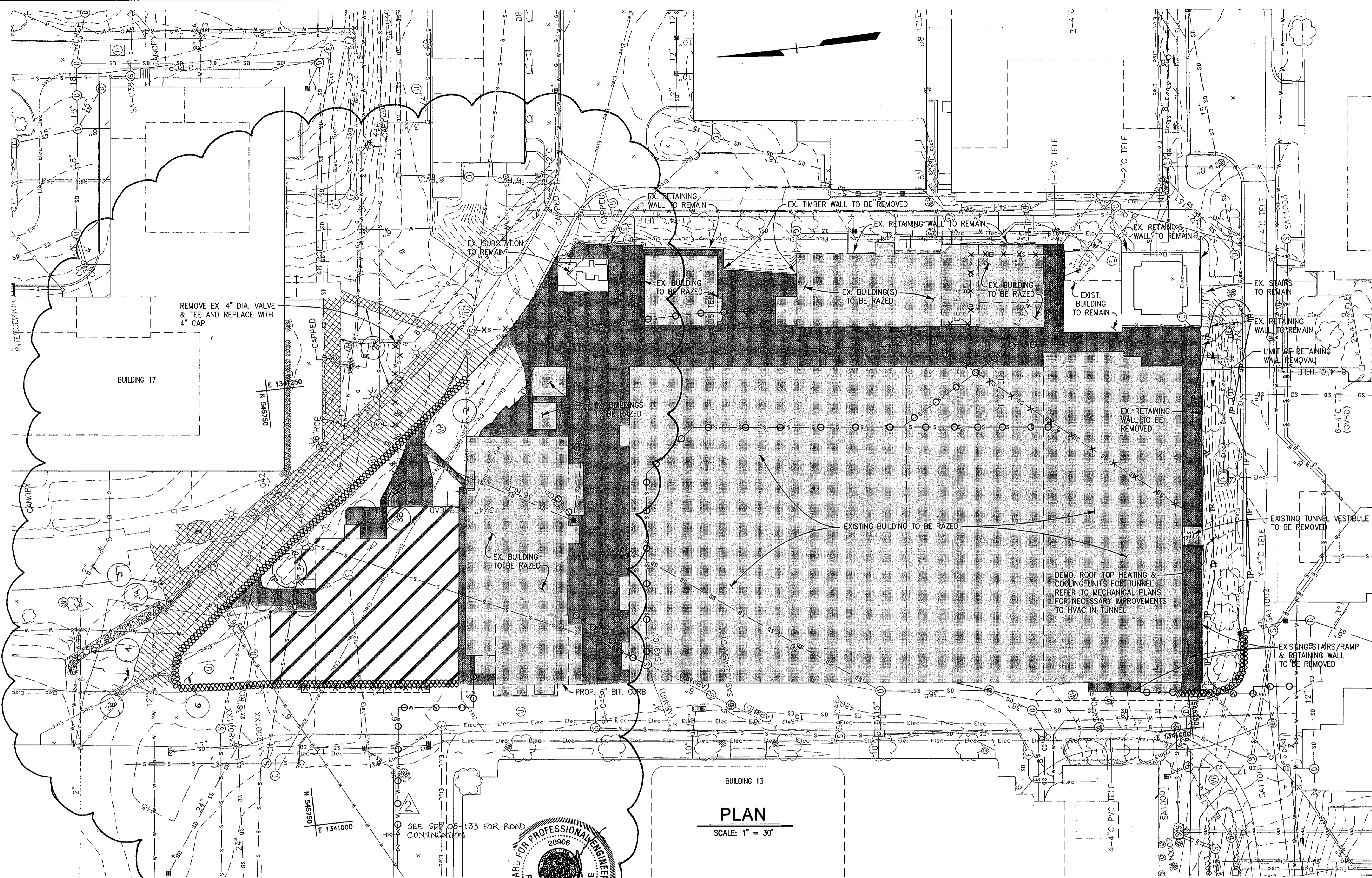
BY THE ENGINEER:  
*Anthony J. Dwy*  
 SIGNATURE OF ENGINEER  
 2/21/08  
 DATE

BY THE DEVELOPER:  
*James E. Fusch*  
 SIGNATURE OF DEVELOPER  
 2.15.08  
 DATE

THIS DEVELOPMENT PLAN IS AS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.

*John K. Rutherford*  
 SIGNATURE OF DEVELOPER  
 3/13/08  
 DATE

FOR REVISION



**PLAN**  
SCALE: 1" = 30'



LEGEND	
EX. MINOR CONTOUR	---391---
EX. MAJOR CONTOUR	---390---
EX. SPOT ELEVATION	× 387.6
EX. FIRE HYDRANT	⊕
EX. STORM DRAIN	SD
EX. WATER LINE	W
EX. SANITARY SEWER	S
EX. ELECTRIC LINE	Elec
EX. COMMUNICATIONS LINE	---
EX. MANHOLE	○
EX. INLET	□
EX. TREE LINE	~~~~~
EX. BUILDING	▭
EX. CURB AND GUTTER	====
EX. BITUMINOUS PAVING	-----
EX. CONCRETE SIDEWALK	-----
EX. FENCE	---X---
EX. WALL	---
EX. CLEANOUT	○ <sup>CO</sup>
EX. SAWCUT EX. PAVING	-----
EX. CURB AND GUTTER TO BE REMOVED	-----
EX. LIGHT STANDARD	⊕
EX. BUSH	○
EX. TREE	⊕
EX. PIPE BOLLARD	⊕
EX. UTILITY POLE	⊕
EX. UTILITY TO BE REMOVED	---X---SD---X---
EX. UTILITY TO BE ABANDONED IN PLACE	---○---SD---○---
EX. RETAINING WALL TO REMAIN	=====
PROP. MINOR CONTOUR	---379---
PROP. MAJOR CONTOUR	---380---
PROP. SPOT ELEVATION	+ 385.58
PROP. CURB & GUTTER	====
EX. BUILDING TO BE RAZED	▭
EX. PAVING & SIDEWALKS TO BE REMOVED	▭
EX. FOUNDATION TO BE REMOVED	▭
TREE PROTECTION FENCE	---TP---

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APPROVED: DEPARTMENT OF PLANNING AND ZONING  
 Chief, Development Engineering Division: *[Signature]* 3/17/08  
 Chief, Division of Land Development: *[Signature]* 3/19/08  
 Director: *[Signature]* 3/19/08

**CENTURY ENGINEERING**  
CONSULTING ENGINEERS - PLANNERS  
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Phone: 443.589.2400 Fax: 443.589.2401

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LICENSE NUMBER: 22574 EXPIRATION DATE: 1/16/10

DESIGN BY:	A.J.D.
DRAWN BY:	M.S.S.
CHECKED BY:	A.J.D.
DATE:	FEB. 15, 2008
REVISION	DATE
1	3/10/10
2	5-18-09
3	
4	
5	
6	
7	

**THE JOHNS HOPKINS UNIVERSITY APPLIED PHYSICS LABORATORY**  
11100 JOHNS HOPKINS ROAD  
LAUREL, MARYLAND 20723-6099  
443-778-5134

**DEMOLITION PLAN**  
"CENTRAL GREEN, PHASE 2"  
JOHNS HOPKINS UNIVERSITY PROPERTY  
TAX MAP: 41 GRID: 16 PARCEL: 123  
ELECTION DISTRICT 5-05 HOWARD COUNTY, MARYLAND  
SHEET 16 OF 16 (RESTRICTED FILE)

C.E.I. PROJECT NUMBER: 22172.25  
SCALE: 1"=30'