

**GENERAL NOTES**

1. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE HOWARD COUNTY SPECIFICATIONS AND DETAILS FOR CONSTRUCTION.
2. ELEVATIONS SHOWN ARE BASED ON THE JOHNS HOPKINS UNIVERSITY APPLIED PHYSICS LABORATORY DATUM. JHU-APL-DATUM - 0.94' = HOWARD COUNTY DATUM.
3. THE CONTRACTOR SHALL CALL MISS UTILITY (301) 559-0100, FIVE DAYS PRIOR TO THE START OF CONSTRUCTION.
4. POLY FILTER X FILTER CLOTH BLANKET OR EQUAL SHALL BE PLACED UNDER ALL STONE RIP RAP.
5. APPROXIMATE LOCATION OF EXISTING UTILITIES ARE SHOWN. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT THE EXISTING UTILITIES AND TO MAINTAIN AN UNINTERRUPTED SERVICE. ANY DAMAGE BY THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED IMMEDIATELY AT THE CONTRACTORS EXPENSE.
6. ACCESS TO THE CONSTRUCTION AREA THROUGH THE SECURE AREA OF THE APPLIED PHYSICS LABORATORY (WITHIN THE FENCED ENCLOSURE) MUST BE ARRANGED IN ADVANCE BY CONTACTING THE LABORATORY SECURITY OFFICE (301) 953-7100.
7. SECURITY MUST BE MAINTAINED WITHIN THE EXISTING FENCED AREA. ALL REQUIRED FENCE CONSTRUCTION AND RELOCATION SHALL BE BY THE JOHNS HOPKINS UNIVERSITY APPLIED PHYSICS LABORATORY. HOW EVER THE CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE WITH JHU APL AS TO WHEN SUCH WORK IS REQUIRED.
8. LANDSCAPING SHALL BE BY JHU-APL.
9. THE CONTRACTOR SHALL CONTACT MR. ARTHUR STUCKI, PLANT ENGINEER, (301) 953-7100 AT LEAST 5 WORKING DAYS PRIOR TO COMMENCING ANY WORK OR SHUTTING DOWN ANY UTILITIES.
10. THE CONTRACTOR SHALL SHUTDOWN AND TIE-IN TO THE EXISTING WATER SYSTEM ONLY AFTER NORMAL WORKING HOURS AT JHU-APL. WORK SHALL BE SCHEDULED ACCORDINGLY. NORMAL WORKING HOURS ARE 8:30 AM TO 5:00 PM. MONDAY THROUGH FRIDAY.
11. ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS.
12. ALL WATER MAINS SHALL BE DUCTILE IRON PIPE CLASS 52.
13. ALL SANITARY SEWER MAINS SHALL BE HOWARD COUNTY SCHEDULE 35 P.V.C. UNLESS OTHERWISE NOTED.
14. THE CONTRACTOR OR DEVELOPER SHALL CONTACT THE CONSTRUCTION INSPECTION/SURVEY DIVISION, 24 HOURS IN ADVANCE OF COMMENCEMENT OF WORK, AT 992-2417 OR 2418.
15. TOP OF ALL WATER MAINS SHALL HAVE A MINIMUM OF 3 1/2 FEET OF COVER UNLESS OTHERWISE NOTED.
16. ALL FITTINGS SHALL BE BUTTRESSED OR ANCHORED WITH CONCRETE IN ACCORDANCE WITH THE STANDARD DETAILS UNLESS OTHERWISE PROVIDED FOR ON THE DRAWINGS.
17. CLEAR ALL UTILITIES BY A MINIMUM OF 6". CLEAR ALL POLES BY 2'-0" MINIMUM OR TUNNEL AS REQUIRED.
18. THE CONTRACTOR SHALL NOT OPERATE ANY WATER MAIN VALVES ON THE EXISTING WATER SYSTEM.
19. THE CONTRACTOR SHALL PROVIDE A JOINT IN ALL SEWER MAINS WITHIN 2'-0" OF EXTERIOR MANHOLE WALL.
20. ALL MANHOLES SHALL BE 4'-0" INSIDE DIAMETER UNLESS OTHERWISE NOTED.
21. VALVES ADJACENT TO TEES SHALL BE STRAPPED TO TEES.

**△ PURPOSE STATEMENT:** THE REDLINE REVISION OF THIS SHEET IS FOR THE REMOVAL AND REPLACEMENT OF A CANOPY ON BUILDING 25.

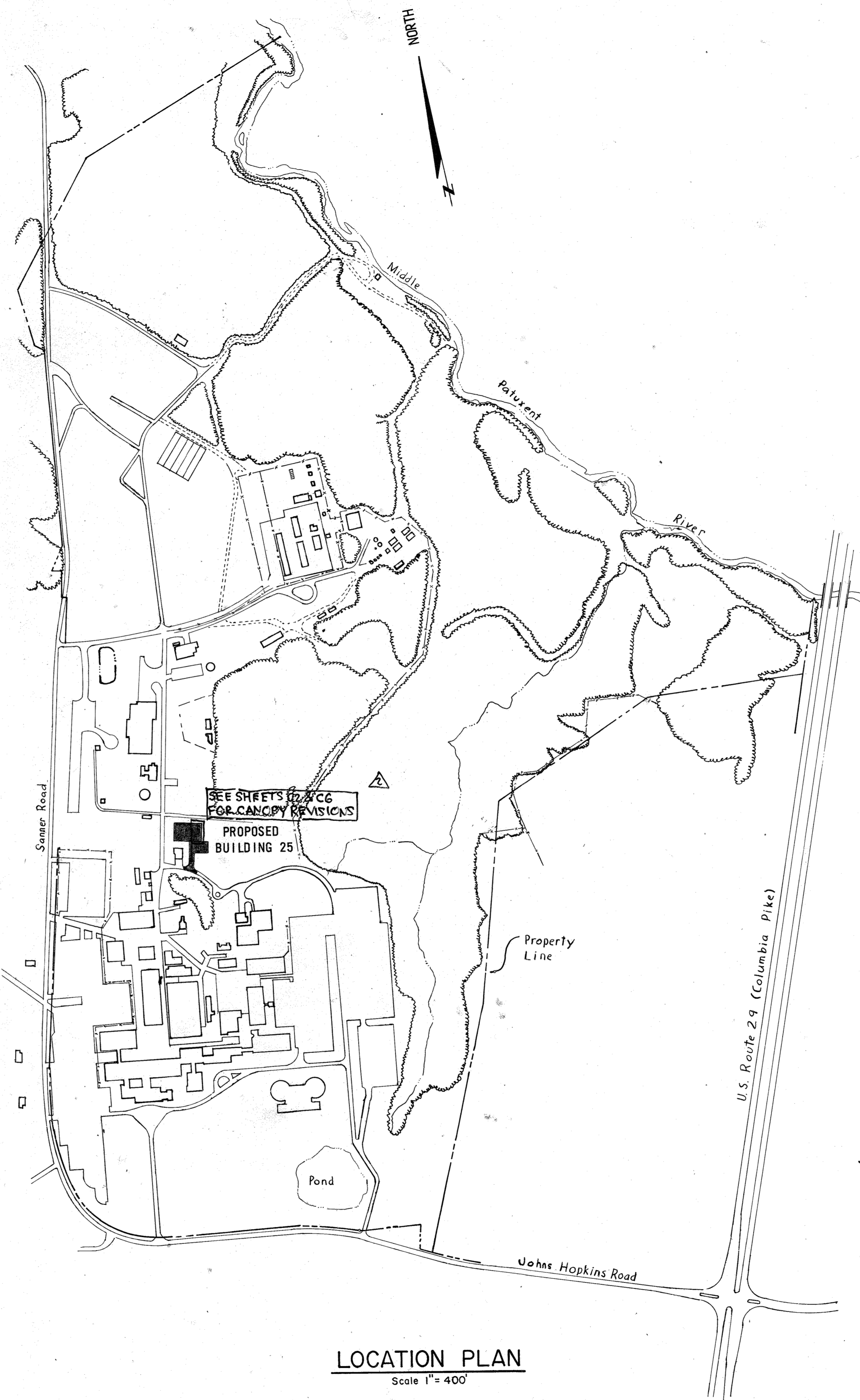
**△ LAND COVER SUMMARY**

LIMIT OF WORK:	1,320 SF
LIMIT OF DISTURBANCE:	0 SF
CUT:	0 CY
FILL:	0 CY

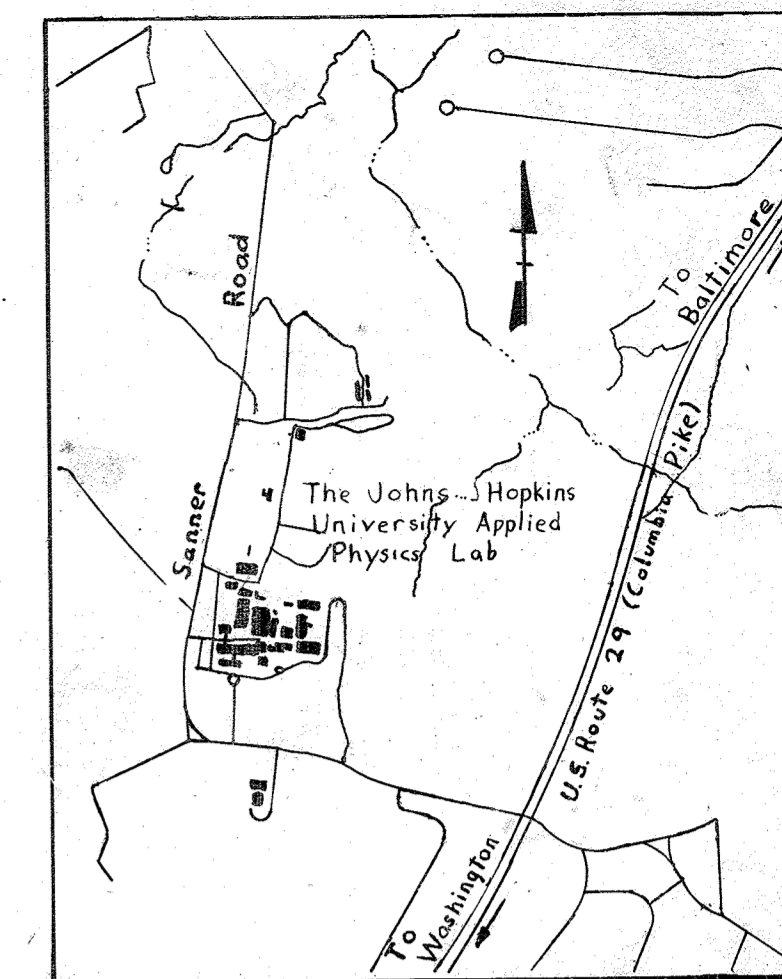
**SITE DATA**

1. ZONING ..... RURAL, R
  2. SITE AREA ..... 1.6 AC.
  3. BUILDING FLOOR AREA (GROSS AREA OF TWO FLOORS) ..... 24,000 SF.
  4. ACREAGE OF ENTIRE PROPERTY ..... 366 ACRES
  5. EXISTING BUILDING COVERAGE ..... 14.0 AC = 3.82%
  6. PROPOSED BUILDING COVERAGE ..... 0.37 AC = 0.10%
  7. MAXIMUM NUMBER OF EMPLOYEES (TO BE RELOCATED FROM EXISTING BUILDINGS ON SITE) IN THE PROPOSED BUILDING \* ..... 80
  8. TOTAL NUMBER OF EXISTING EMPLOYEES/ PERSONNEL ON THE ENTIRE SITE ..... 3100
  9. TOTAL NUMBER OF EXISTING AND PROPOSED FUTURE EMPLOYEES/PERSONNEL ON THE ENTIRE SITE ..... 3225
  10. TOTAL NUMBER OF PARKING SPACES REQUIRED ..... 2258
  11. TOTAL NUMBER PARKING, SPACES PROVIDED ..... 2596
- EXISTING SPACES ..... 2596  
PROPOSED SPACES ..... 0

\* NOTE: FOR PROPOSED BUILDING 25, NO ADDITIONAL EMPLOYEES ARE REQUIRED. ALL EMPLOYEES FOR PROPOSED BUILDING 25 ARE TO BE RELOCATED FROM EXISTING BUILDINGS ON-SITE.



**LOCATION PLAN**  
Scale 1" = 400'



**VICINITY MAP**  
Scale 1" = 2000'

**SHEET INDEX**

1. TITLE SHEET
2. BUILDING 25 GRADING AND UTILITY PLAN
3. DRAINAGE AREA MAPS, PROFILES AND DETAILS
4. SEDIMENT CONTROL PLAN, NOTES AND DETAILS
5. BORING LOGS
6. LANDSCAPE PLAN

ADDRESS CHART	
LOT NUMBER	STREET ADDRESS
P 123	11100 JOHNS HOPKINS ROAD

SUBDIVISION NAME		SECT. / AREA	LOT / PARCEL	
J. H. U. APPLIED PHYSICS LAB.		N/A	123	
PLAT# OR L/F	BLOCK #	TAX / ZONE MAP	ELEC. DIST.	CENSUS TR.
234/304	16	41	5TH	6051
WATER CODE		SEWER CODE		



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. CHARLES MITCHELL LICENSE NO. 44143, EXPIRATION DATE: 5/21/24.

**APPROVED**  
DIVISION OF LAND DEVELOPMENT & ZONING ADMINISTRATION  
HOWARD COUNTY, MARYLAND  
DATE 9-18-85

APPROVED: FOR PRIVATE WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT.

*George M. Boyce* 10-21-81  
COUNTY HEALTH OFFICER DATE

APPROVED: STORM DRAINAGE SYSTEMS, ROADS AND PUBLIC SEWERAGE SYSTEMS - HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS.

*Henry F. Nemig* 10-24-81  
DIRECTOR DATE

*William B. Ryan* 10-23-85  
CHIEF, BUREAU OF ENGINEERING DATE

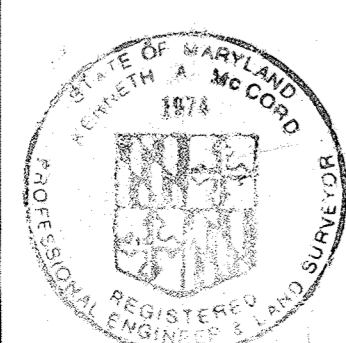
APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING

*Thomas L. Hamigh* 10-24-85  
PLANNING DIRECTOR DATE

*John W. Muschman* 10-24-85  
CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION DATE

BUILDING #25 ADDITION TO SDP-85-100

WHITMAN, REQUARDT AND ASSOCIATES  
CIVIL & STRUCTURAL ENGINEERS  
2315 SAINT PAUL STREET  
BALTIMORE, MARYLAND 21218



*Kenneth A. McLeod*

JAMES GOLDSTEIN & PARTNERS  
ARCHITECTS  
225 MILLBURN AVENUE  
MILLBURN, NEW JERSEY 07041

HENRY ADAMS, INC.  
MECHANICAL & ELECTRICAL ENGINEERS  
600 BALTIMORE AVENUE  
BALTIMORE, MARYLAND

APPLIED PHYSICS LABORATORY  
THE JOHNS HOPKINS UNIVERSITY  
Johns Hopkins Road Howard County, Maryland

Approved For The University By: *C. J. Smith*  
Date: 8-6-85 Title: Business Manager

**BUILDING 25**

APPLIED PHYSICS LABORATORY  
THE JOHNS HOPKINS UNIVERSITY  
11100 JOHNS HOPKINS ROAD, LAUREL MD. 20707

**TITLE SHEET**

Fifth Election District Howard County, MD  
Tax Map 41 Parcel 50 and 123

REVISIONS  
RKR & REMOVE & REPLACE CANOPY ON BUILDING 25 04/14/22

SCALE: AS SHOWN  
SHEET NO. 1  
OF  
DATE: 7-31-85

**DRAWING**  
**C1**  
OF C6

STORM DRAIN STRUCTURE SCHEDULE

No	Type	Top	Inv. In.	Inv. Out	Remarks
I1	S	408.00	-	401.77	SD 4.22
S1	15" Precast	-	400.93	-	SD 5.51 or 5.52

Note: 1. Contractor shall hand excavate around communication line for installation of 8"x6" Tee.  
 2. Contractor shall be responsible for protecting and maintaining existing utilities.  
 3. Contractor shall hand excavate to find exact location of existing electrical duct bank prior to installation of I-1.

DEMOLITION KEY NOTES

- 1 REMOVE WOOD FRAMED CANOPY, GUTTER, DOWNSPOUTS AND STANDING SEAM METAL ROOF IN ITS ENTIRETY.

PROPOSED KEY NOTES

- 2 NEW CANOPY ROOF

Note A: When working near utility lines, contractor is to verify and protect the utility lines



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. CHARLES MITCHELL LICENSE NO. 144922. EXPIRATION DATE: 5/1/24

PURPOSE STATEMENT: THE REPLY REVISION OF THIS SHEET IS FOR THE REMOVAL AND REPLACEMENT OF A CANOPY ON BUILDING 25

APPROVED FOR PRIVATE WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT

*[Signature]* 10-24-85  
 COUNTY HEALTH OFFICER DATE

APPROVED STORM DRAINAGE SYSTEMS, ROADS AND PUBLIC SEWERAGE SYSTEMS - HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

*[Signature]* 10-24-85  
 DIRECTOR DATE

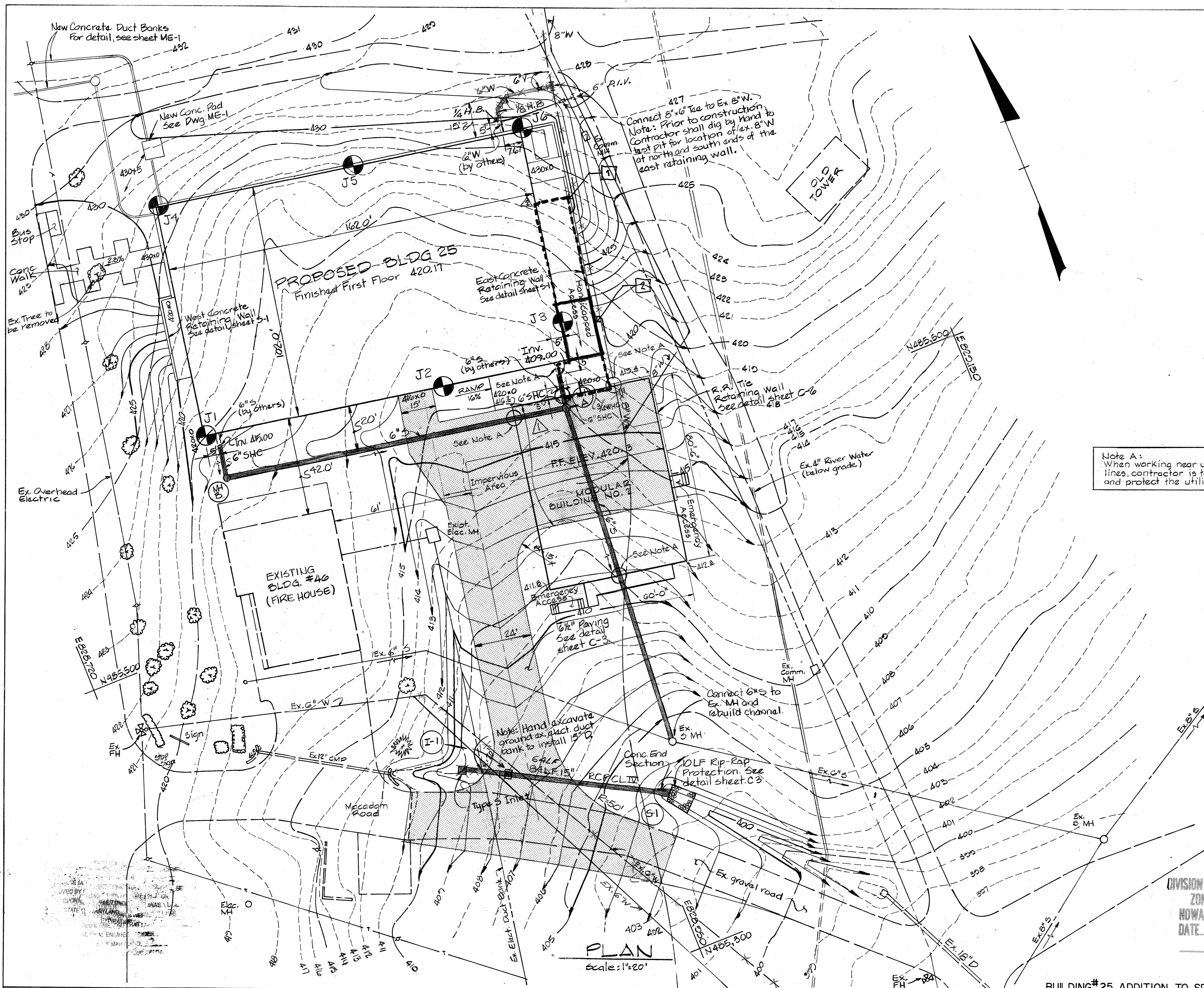
*[Signature]* 10-24-85  
 CHIEF, BUREAU OF ENGINEERING DATE

APPROVED HOWARD COUNTY OFFICE OF PLANNING AND ZONING

*[Signature]* 10-24-85  
 PLANNING DIRECTOR DATE

*[Signature]* 10-24-85  
 CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION DATE

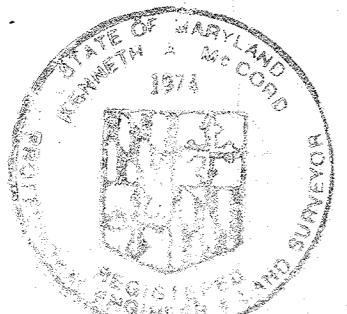
APPROVED  
 DIVISION OF LAND DEVELOPMENT & ZONING ADMINISTRATION  
 HOWARD COUNTY, MARYLAND  
 DATE 9-18-85  
*[Signature]*



PLAN  
 Scale: 1"=20'

BUILDING #25 ADDITION TO SDP-85-100

WHITMAN, REQUART AND ASSOCIATES  
 CIVIL & STRUCTURAL ENGINEERS  
 2315 SAINT PAUL STREET  
 BALTIMORE, MARYLAND 21218  
*[Signature]*



JAMES GOLDSTEIN & PARTNERS  
 ARCHITECTS  
 225 MILLBURN AVENUE  
 MILLBURN, NEW JERSEY 07041  
 HENRY ADAMS, INC.  
 MECHANICAL & ELECTRICAL ENGINEERS  
 600 BALTIMORE AVENUE  
 BALTIMORE, MARYLAND

APPLIED PHYSICS LABORATORY  
 THE JOHNS HOPKINS UNIVERSITY  
 Johns Hopkins Road, Howard County, Maryland  
 Approved For The University By *[Signature]*  
 Date 8-6-85 Title Business Manager

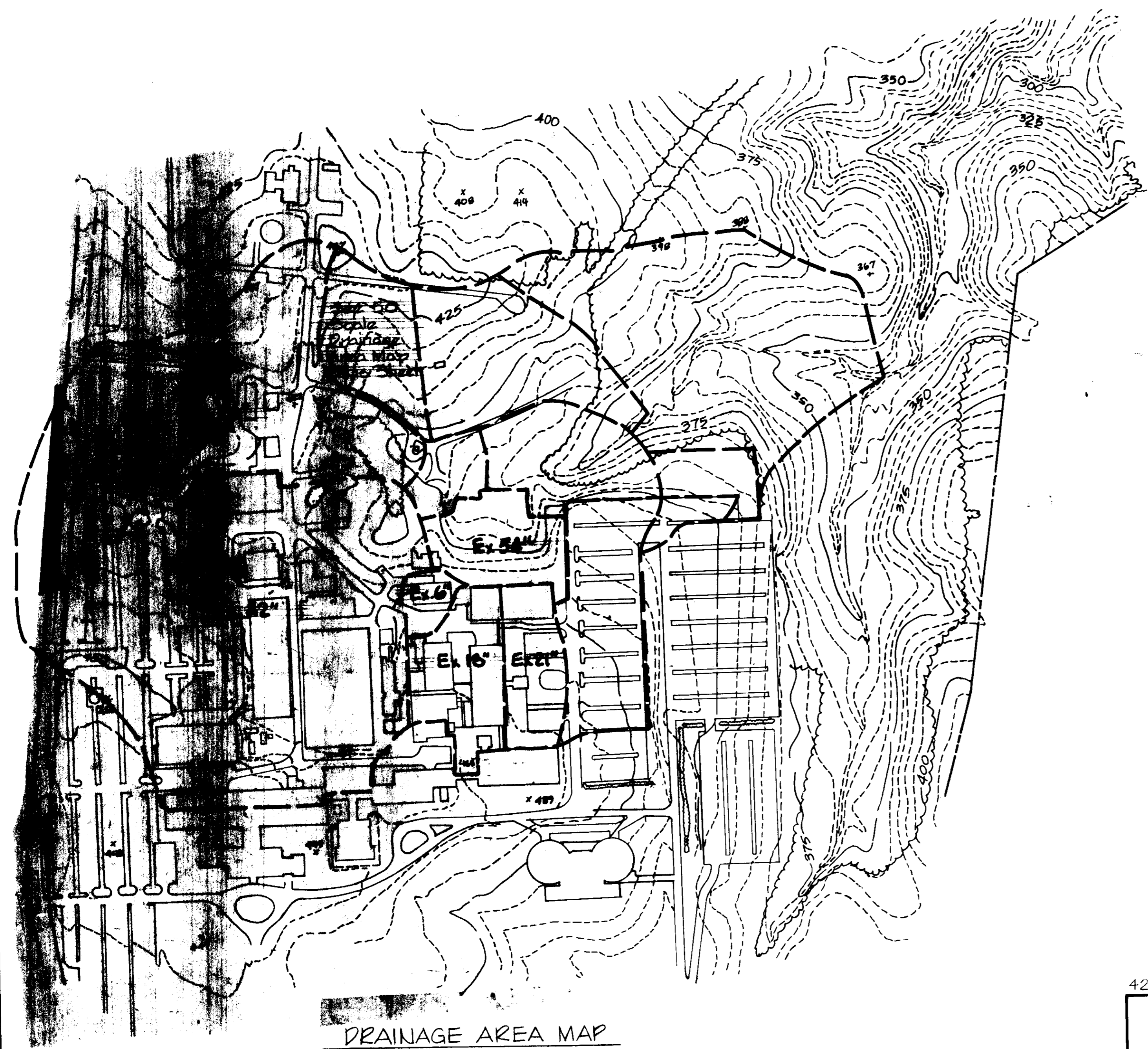
**BUILDING 25**  
 APPLIED PHYSICS LABORATORY  
 THE JOHNS HOPKINS UNIVERSITY  
 11100 JOHNS HOPKINS ROAD, LAUREL MD. 20707

**GRADING AND UTILITY PLAN**  
 Fifth Election District Howard County, MD  
 Tax Map 41 Parcel 50 and 123

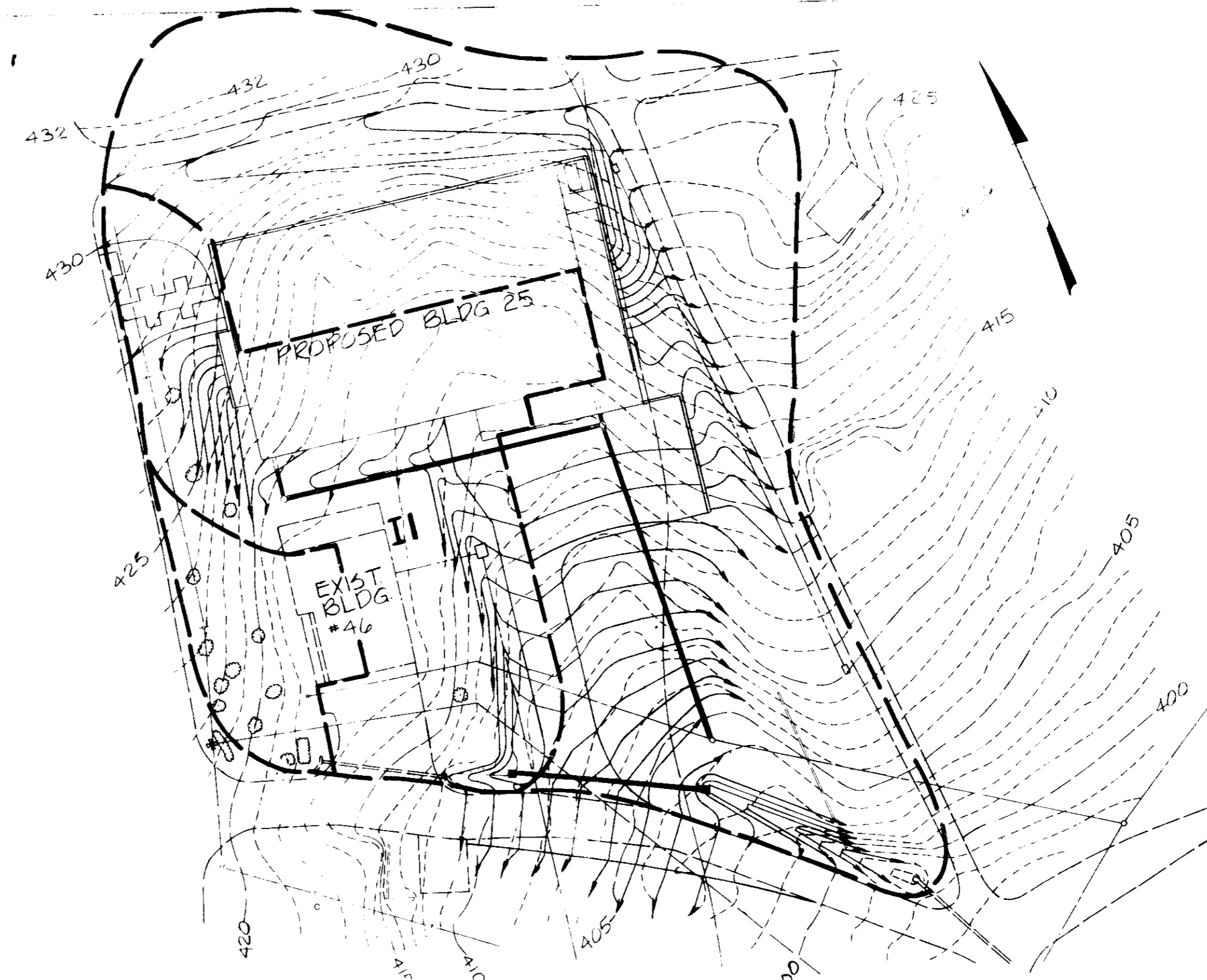
REVISIONS  
 9-24-85  
 2" CATCH BASIN  
 EXIST. 6" WATER LINE  
 8" WATER LINE  
 Addition of Modular Bldg. 4/18/87  
 REMOVE & REPLACE CANOPY ON BUILDING 25 04/14/22

SCALE: 1"=20'  
 SHEET NO. 2  
 OF  
 DATE 7-31-85

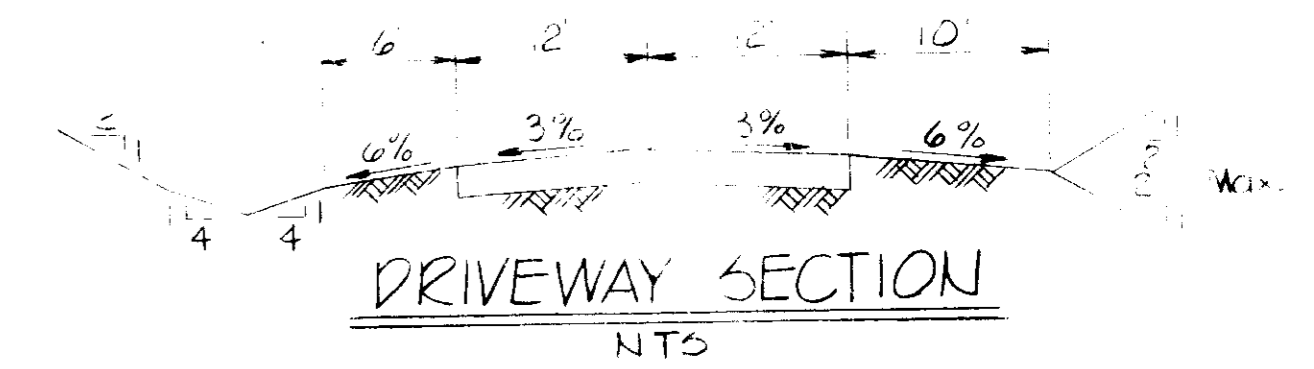
**DRAWING**  
**C2**  
 OF C6



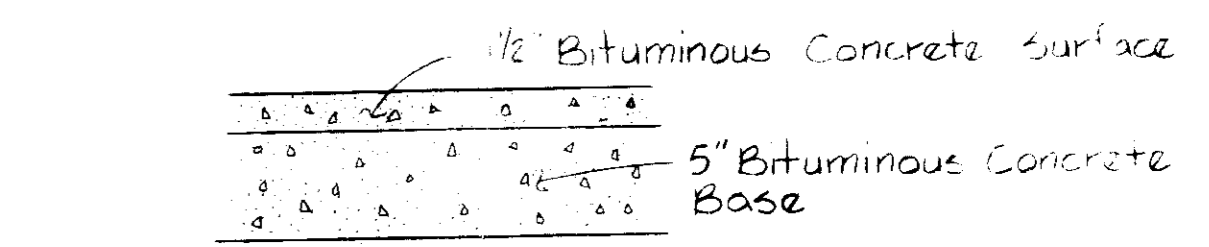
**DRAINAGE AREA MAP**  
Scale: 1" = 200'



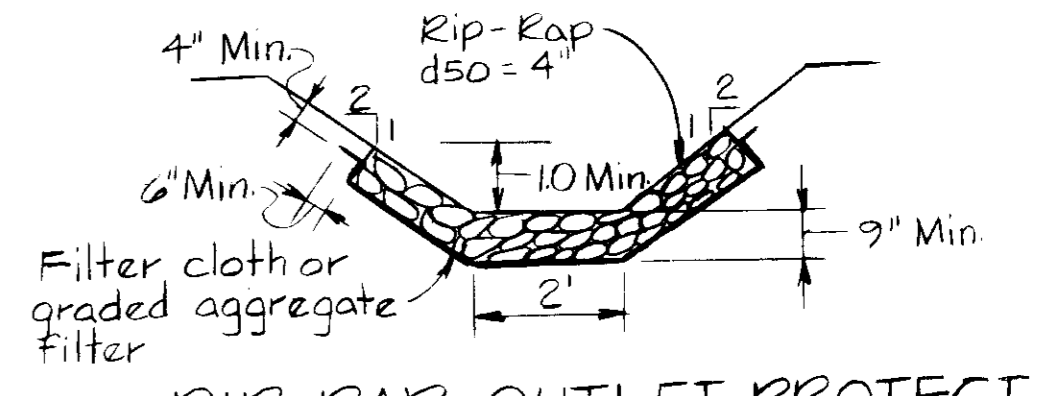
**DRAINAGE AREA MAP**  
Scale: 1" = 50'



**DRIVEWAY SECTION**  
NTS

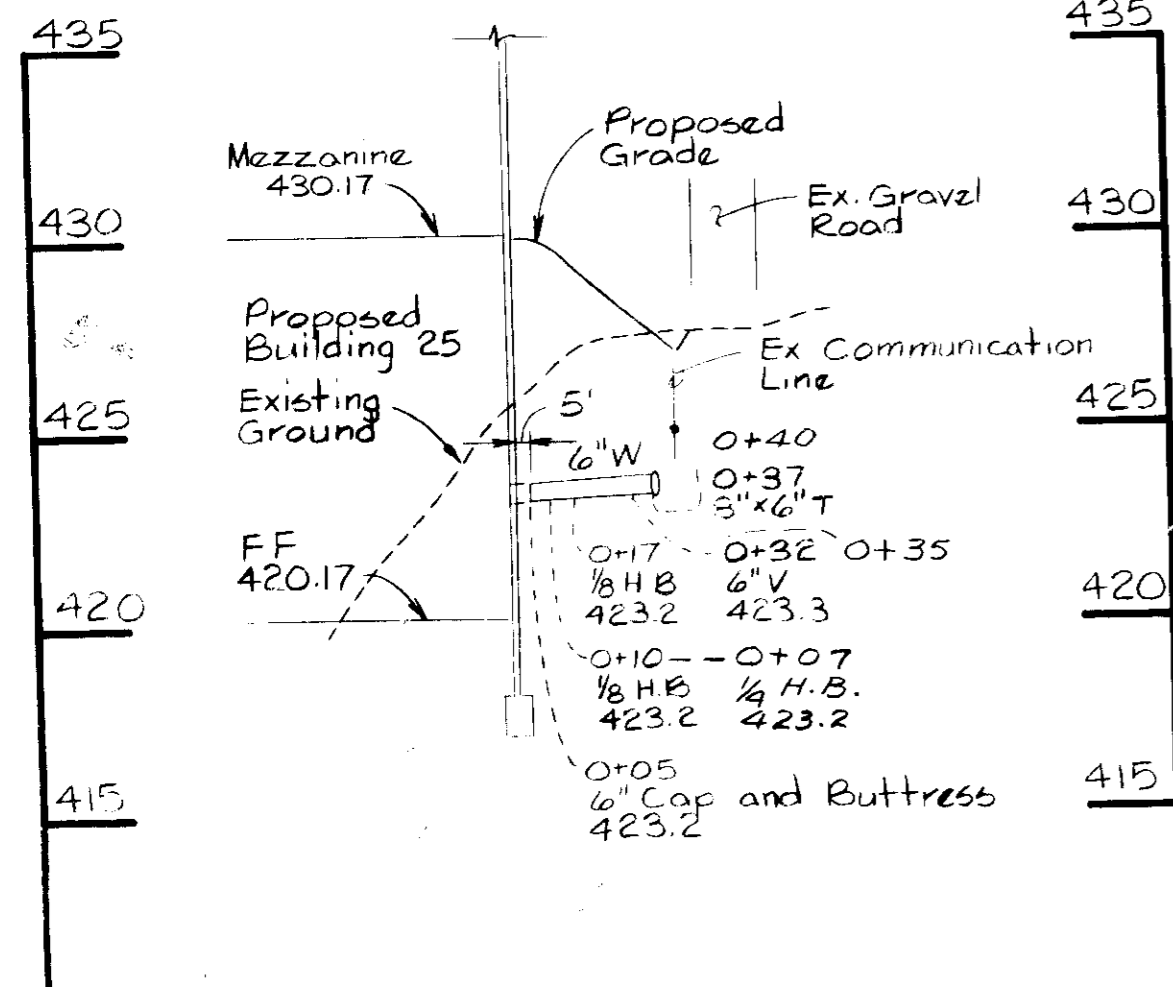


**PAVING SECTION**  
NTS

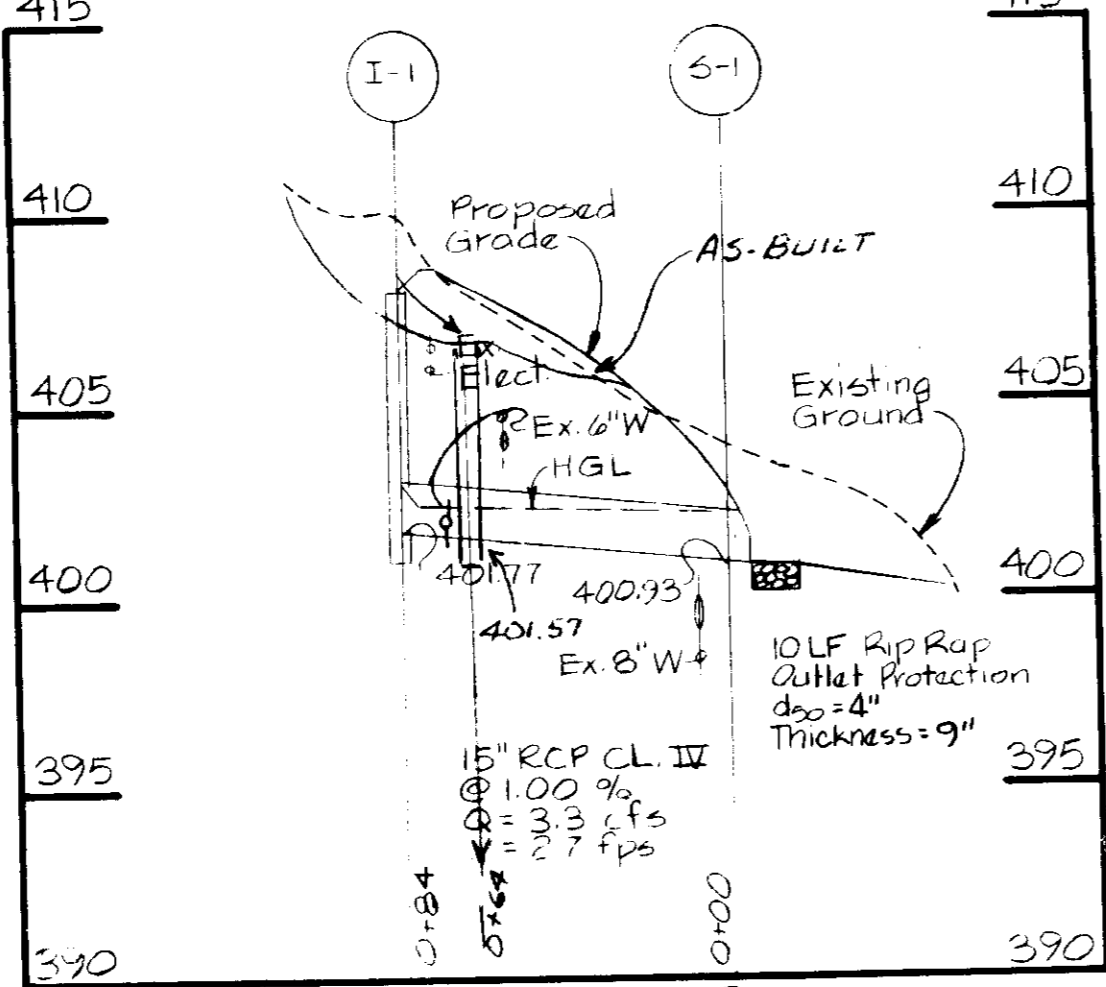


**RIP-RAP OUTLET PROTECTION**  
NTS

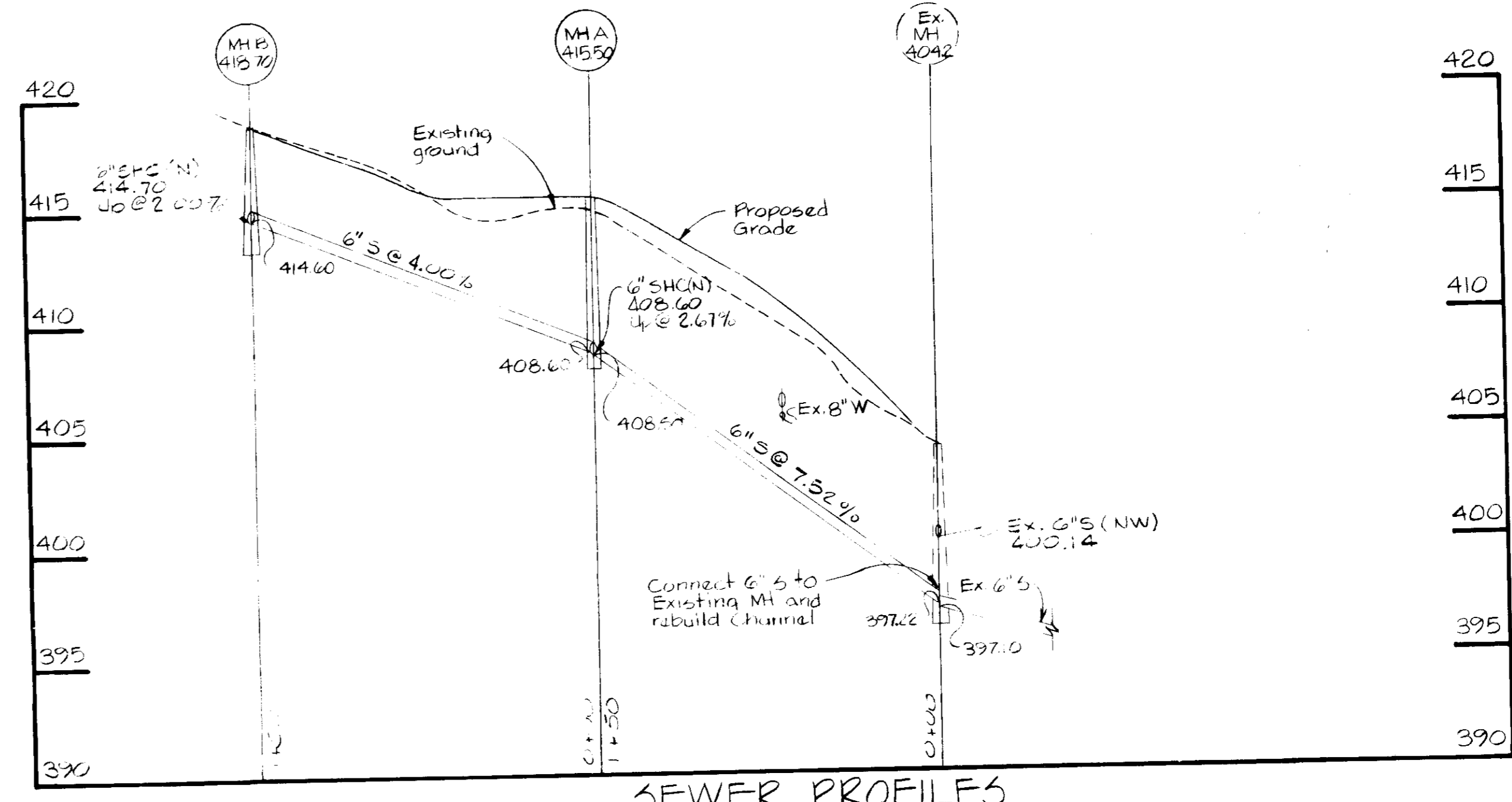
Inlet	Area (Ac)	Percent Impervious	C
1	0.74	45	0.60



**WATER CONNECTION PROFILE**  
Scale: Hor. 1" = 50'  
Ver. 1" = 5'



**STORM DRAIN PROFILE**  
Scale: Hor. 1" = 50'  
Ver. 1" = 5'



**SEWER PROFILES**  
Scale: Hor. 1" = 50'  
Ver. 1" = 5'

9-18-85

APPROVED FOR HEALTH, WATER AND PUBLIC SEWERAGE SYSTEMS  
HOWARD COUNTY HEALTH DEPARTMENT

*[Signature]*  
COUNTY HEALTH OFFICER

APPROVED SEWERAGE SYSTEMS, RECORDS AND PUBLIC UTILITY WORKS  
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

*[Signature]*  
DIRECTOR

APPROVED  
CHIEF, BUREAU OF ENGINEERING

APPROVED HOWARD COUNTY OFFICE OF PLANNING AND ZONING

*[Signature]*  
PLANNING DIRECTOR

*[Signature]*  
CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION

BUILDING #25 ADDITION TO SDP-85-100

**BUILDING 25**

APPLIED PHYSICS LABORATORY  
THE JOHNS HOPKINS UNIVERSITY  
11100 JOHNS HOPKINS ROAD LAUREL MD 20707

**DRAINAGE AREA MAP  
PROFILES AND DETAILS**

3-24-87  
DRAWING REVISIONS 4515  
I-1 CATCH BASIN PROFILE  
6" WATER LINE CONNECTION PROFILE  
J. SHANAHAN, P.E.

SCALE AS SHOWN  
SHEET NO. 3  
OF  
DATE 7-31-85

**DRAWING**  
**C3**  
OF C6

WHITMAN REGULARY AND ASSOCIATES  
CIVIL & STRUCTURAL ENGINEERS  
2315 SAINT PAUL STREET  
BALTIMORE, MARYLAND 21205

*[Signature]*

AMEL GOLDSTEIN & PARTNERS  
ARCHITECTS  
225 MILLBURN AVENUE  
MILLBURN, NEW JERSEY 07041

HENRY ADAMS, INC.  
MECHANICAL ENGINEERS  
600 BALTIMORE AVENUE  
BALTIMORE, MARYLAND

APPLIED PHYSICS LABORATORY  
THE JOHNS HOPKINS UNIVERSITY  
11100 JOHNS HOPKINS ROAD LAUREL MD 20707

APPROVED FOR THE UNIVERSITY BY *[Signature]*  
DATE 8-6-85 Business Manager

SEQUENCE OF CONSTRUCTION

1. NOTIFY THE HOWARD SOIL CONSERVATION DISTRICT AND THE HOWARD COUNTY BUREAU OF LICENCES, INSPECTIONS AND PERMITS AT LEAST 24 HOURS BEFORE ANY WORK BEGINS.
2. CONSTRUCT STABILIZED CONSTRUCTION ENTRANCE FEATURES.
3. INSTALL STORM INLET SEDIMENT TRAP AND OTHER SEDIMENT CONTROL FEATURES.
4. STRIP TOPSOIL IN VICINITY OF THE PROPOSED BUILDING AND PARKING AREA AND STOCKPILE IN DESIGNATED AREA.
5. ROUGH GRADE THE SITE.
6. CONSTRUCT STORM DRAIN FROM S1 TO I1 AND INSTALL OUTLET PROTECTION.
7. INSTALL 6" WATER AND SANITARY LINES.
8. COMPLETE GRADING FOR BUILDING TO SUBGRADE ELEVATION.
9. CONSTRUCT BUILDING AND OTHER SITE IMPROVEMENTS.
10. PAVE DRIVEWAY AND PARKING AREA.
11. PERMANENTLY SEED AND STABILIZE PROPOSED GRASSED AREAS.
12. PUMP THE STANDING CLEAN WATER FROM THE SEDIMENT TRAP WHEN THE CONTRIBUTING DRAINAGE AREAS HAVE BEEN STABILIZED AND RESTORE SWALE TO EXISTING INLET.
13. DISPOSE OF THE SEDIMENT FROM THE SEDIMENT TRAP IN A MANNER APPROVED BY THE HOWARD SOIL CONSERVATION DISTRICT.

SEDIMENT CONTROL NOTES

1. A MINIMUM OF 24 HOURS NOTICE MUST BE GIVEN TO THE HOWARD COUNTY OFFICE OF INSPECTION AND PERMITS PRIOR TO THE START OF ANY CONSTRUCTION. (932.2437).
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 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.
3. FOLLOWING INITIAL SOIL DISTURBANCE OR REDISTURBANCE, 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 VOLUME 1, CHAPTER 12, OF THE HOWARD COUNTY DESIGN MANUAL. STORM DRAINAGE, IN ACCORDANCE WITH THE 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR PERMANENT SEEDINGS (SEC-51) SOIL (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.
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.
7. SITE ANALYSIS:
  - TOTAL AREA OF SITE ----- 266 ACRES.
  - AREA DISTURBED ----- 1.6 ACRES.
  - AREA TO BE ROOFED OR PAVED ----- 0.7 ACRES.
  - AREA TO BE VEGETATIVELY STABILIZED ----- 0.9 ACRES.
  - TOTAL CUT ----- 2015 CU. YDS.
  - TOTAL FILL ----- 2780 CU. YDS.
  - OFFSITE WASTE/BORROW AREA LOCATION ONSITE, SEE PLANS
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 CONTROLS MUST BE PROVIDED, IF DEEMED NECESSARY BY THE HOWARD COUNTY DPM 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 EARTH DISTURBANCE OR GRADING INSPECTION APPROVALS MAY NOT BE AUTHORIZED UNTIL THIS INITIAL APPROVAL BY THE INSPECTION AGENCY IS MADE.

CONSTRUCTION SEQUENCE	
Operation	Time Sch.
Sediment Control	Oct 1, 1985
Grading	Oct 7 - Oct 21
Storm drains and Utilities	Oct 21 - Nov 4
Building Construction and other site improvements	Nov /85 - Apr /86
Permanent Seeding and removal of Sediment Control	May /86

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

APPROVED Stephen L. Hulm DATE 10-16-85  
HOWARD S.C.D.

REVIEWED FOR HOWARD S.C.D. AND MEETS TECHNICAL REQUIREMENTS

SIGNATURE James M. Della DATE 10-16-85  
U.S. SOIL CONSERVATION SERVICE

CERTIFICATION BY THE DEVELOPER

I CERTIFY THAT ALL DEVELOPMENT AND OR CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT AND PLAN FOR EROSION AND SEDIMENT CONTROL AND I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS, AS DEEMED NECESSARY.

SIGNATURE C. J. Smith DATE 8-6-85  
OF DEVELOPER

RESPONSIBLE PERSONNEL CERTIFICATION

I HEREBY CERTIFY THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE FROM A DEPARTMENT OF NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT.

SIGNATURE C. J. Smith DATE 8-6-85  
OF DEVELOPER

CERTIFICATION 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.

SIGNATURE Kenneth A. Alford DATE 8-6-85  
OF ENGINEER

APPROVED FOR PRIVATE WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT

SIGNATURE John E. ... DATE 10-26-85  
HEALTH OFFICER

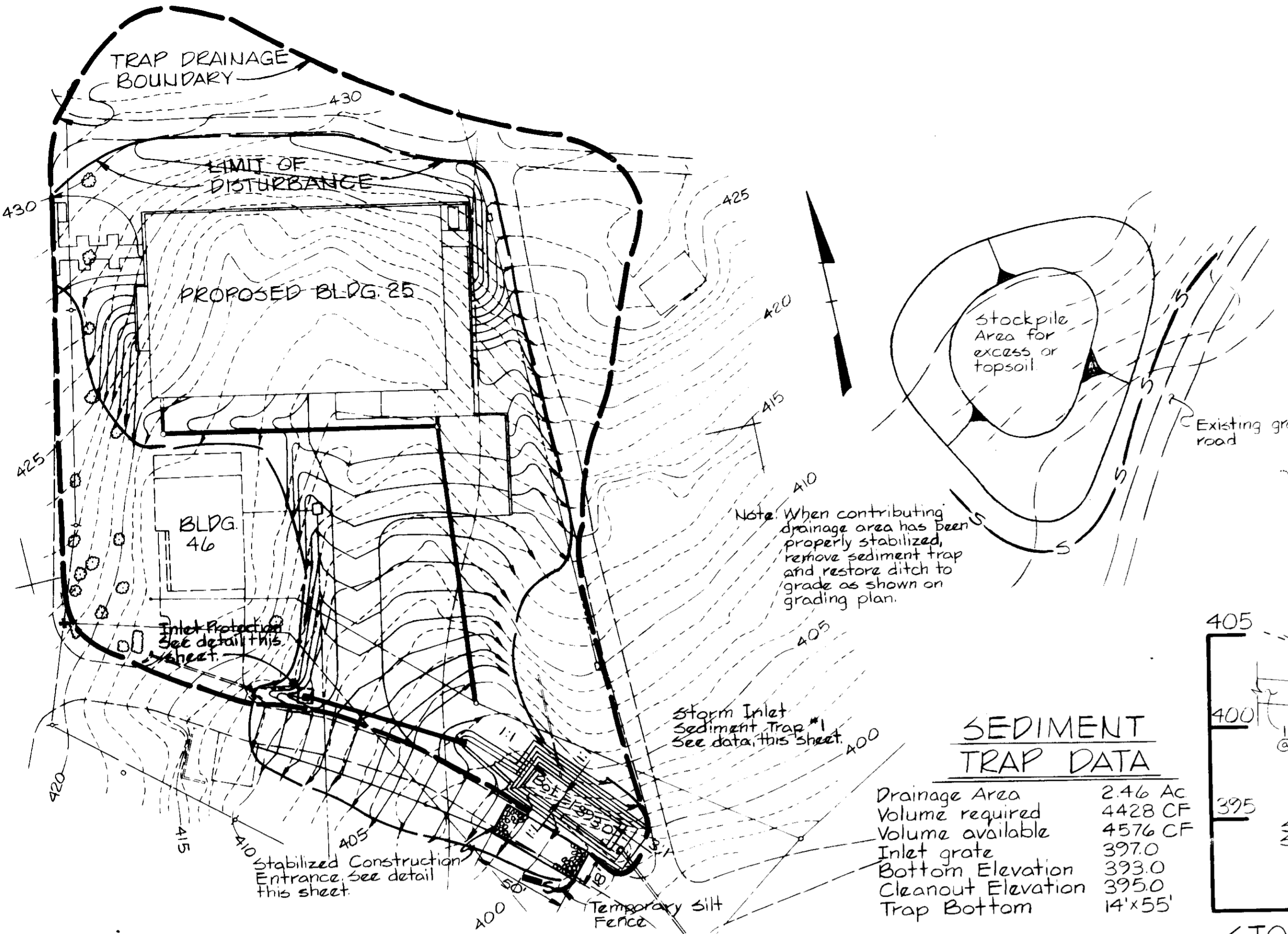
APPROVED STORM DRAINAGE SYSTEMS, ROADS AND PUBLIC SEWERAGE SYSTEMS - HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

SIGNATURE Henry F. ... DATE 10-24-85  
DIRECTOR

APPROVED HOWARD COUNTY OFFICE OF PLANNING AND ZONING

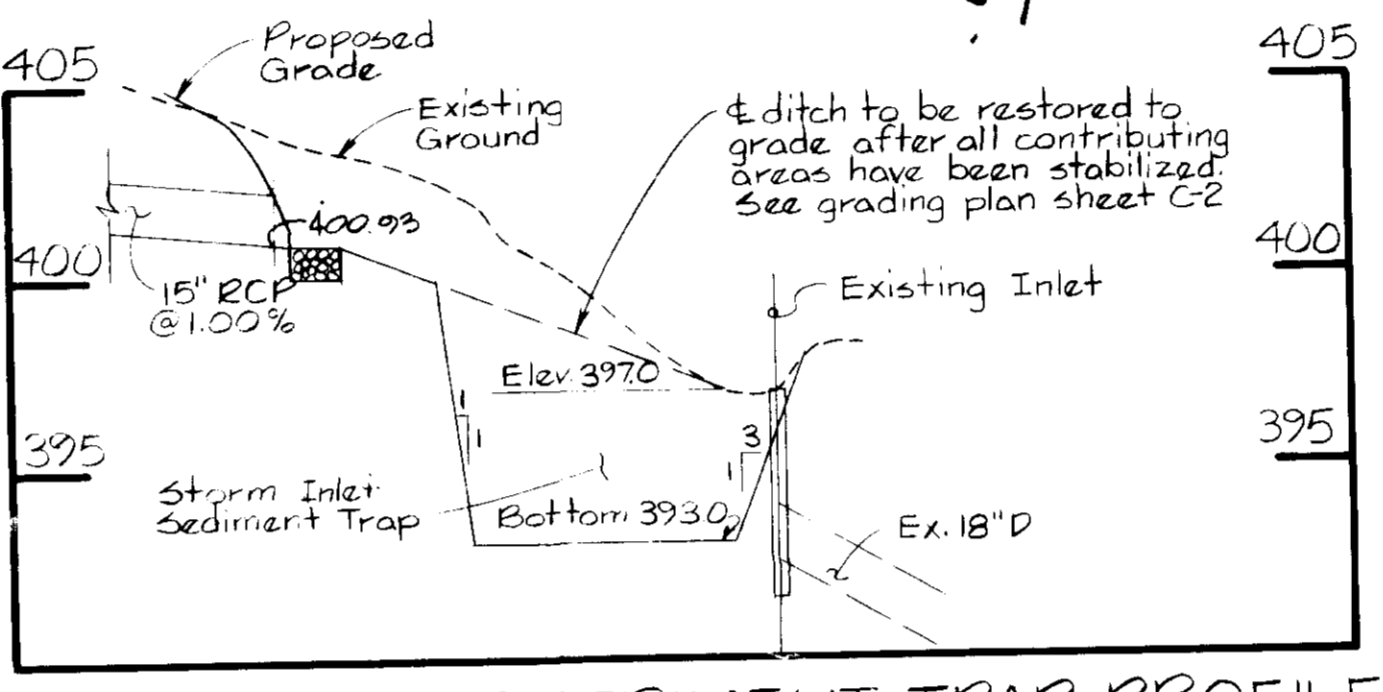
SIGNATURE Thomas L. ... DATE 10-21-85  
PLANNING DIRECTOR

SIGNATURE John W. ... DATE 10-24-85  
CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION



SEDIMENT TRAP DATA

Drainage Area	246 AC
Volume required	4428 CF
Volume available	4576 CF
Inlet grade	397.0
Bottom Elevation	393.0
Cleanout Elevation	395.0
Trap Bottom	14'x55'

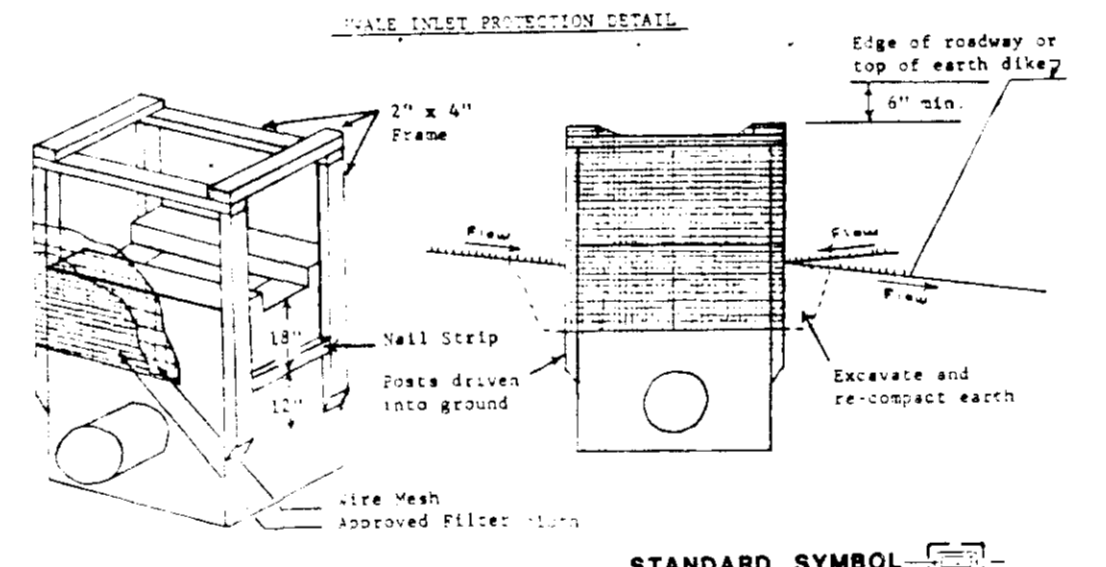
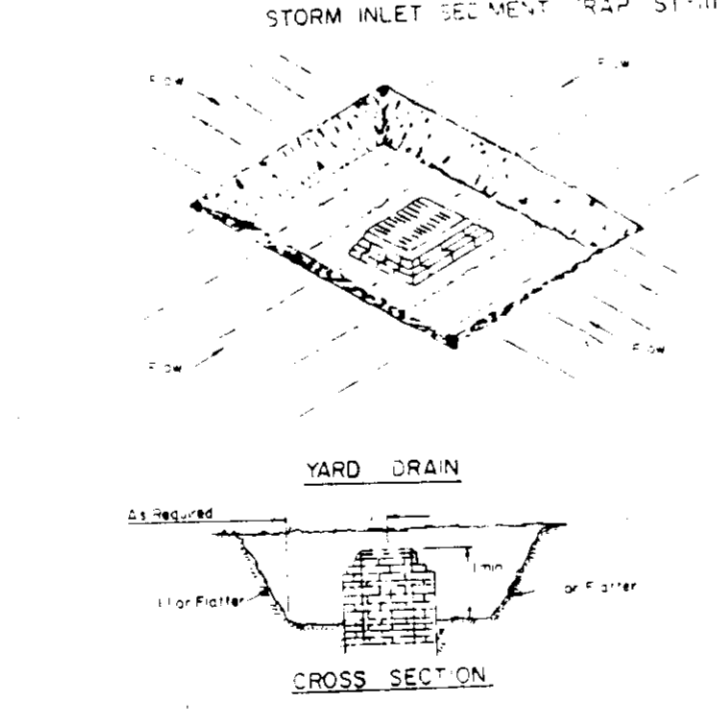
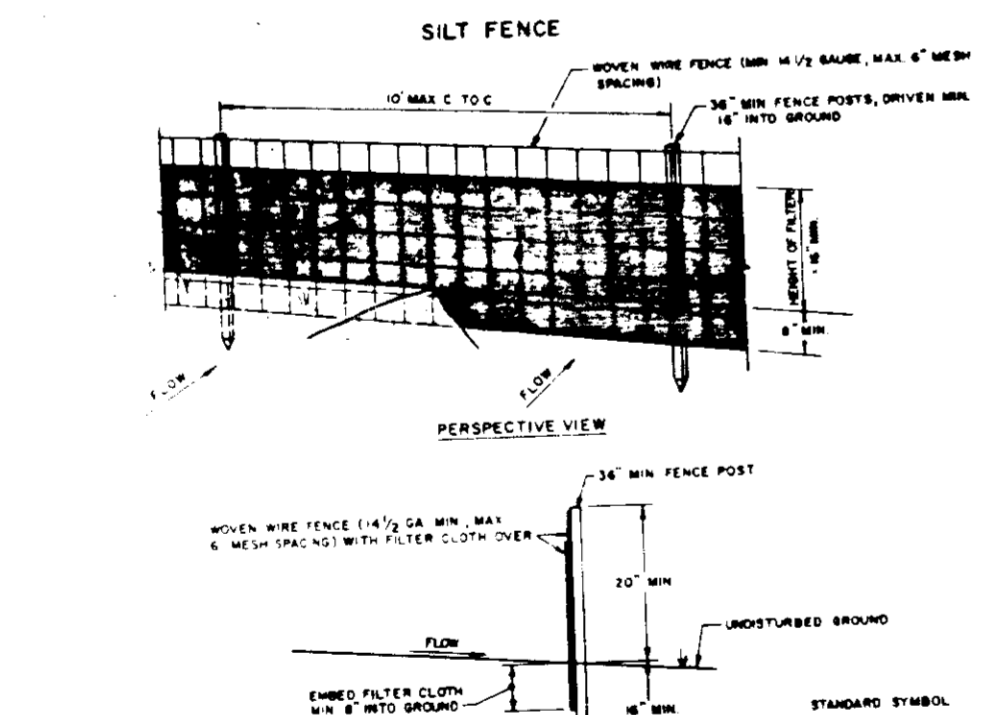
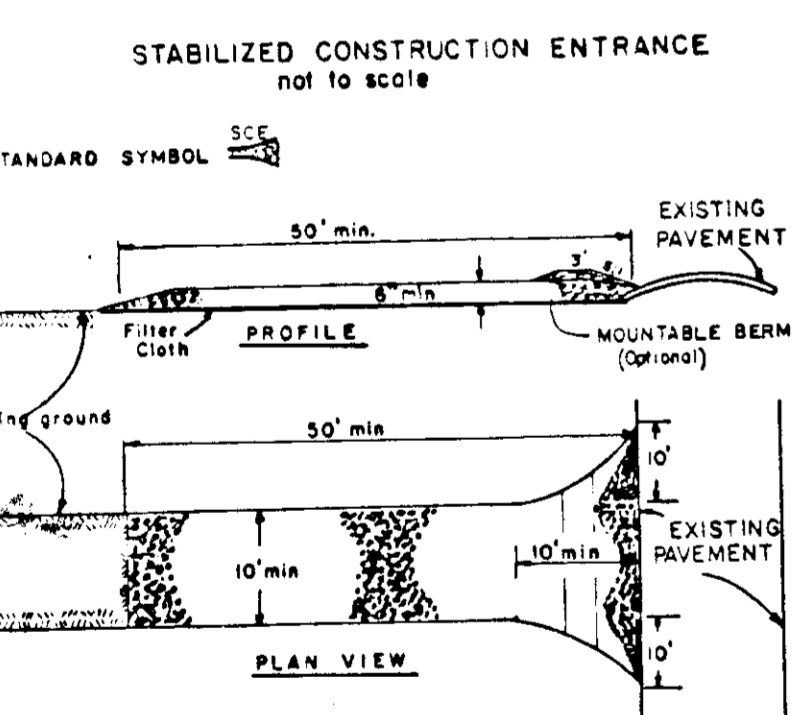


STORM INLET SEDIMENT TRAP PROFILE

Scale Hor: 1"=40'  
Ver: 1"=4'

PLAN Scale: 1"=50'

\* Note: Stormwater Management to be provided under Contract SDP-85-100.



**Purpose**  
Filter cloth installed around inlets in the form of a fence or across an opening, thereby reducing sediment content of sediment laden water.

**Conditions Where Practice Applies**  
This practice shall be used where the drainage area to an inlet is undisturbed or it is not possible to temporarily divert the storm drain outfall into a sediment trapping device and watertight blocking of inlets is not desirable. It is not to be used in place of sediment trapping devices.

**Construction Specifications**  
1. The structure shall be inspected after each rain and repairs made as needed.  
2. Construction operations shall be carried out in such a manner that erosion and water pollution shall be minimized.  
3. The sediment trap shall be cleaned and the area stabilized when the sedimented drainage area has been completely stabilized.  
4. All dirt from the trap shall be left in place.

**Materials**  
A. Wooden frame is to be constructed of 2" x 4" construction grade lumber.  
B. Wire mesh must be of sufficient strength to support filter fabric, and sturdy for curb inlets, with wire fully rounded against it.  
C. Filter cloth must be of a type approved for this purpose; resistant to sunlight with some size, 80% mesh, to allow sufficient passage of water and removal of sediment.  
D. Stone is to be 2" in size and clean, since fines would clog the cloth.

- CONSTRUCTION SPECIFICATIONS**
1. Stone Size - Use 2" stone, or reclaimed or recycled concrete equivalent.
  2. Length - As required, but not less than 30 feet (except on single residential lots where a 30 foot minimum length would apply).
  3. Thickness - Not less than six (6) inches.
  4. Width - The 100 foot minimum, but not less than the full width at points where ingress or egress occurs.
  5. Filter Cloth - Will be placed over the entire area prior to placing of stone. Filter will not be required on a single family residence lot.
  6. Surface Water - All surface water flowing or diverted toward construction entrances shall be piped across the entrance. If piping is impractical, a mountable beam with six (6) slopes will be permitted.
  7. Maintenance - The entrance shall be maintained in a condition which will prevent trapping or flowing of sediment onto public rights-of-way. This may require periodic top dressing with additional stone as conditions demand. All sediment applied, dropped, washed or tracked onto public rights-of-way must be removed immediately.
  8. Washing - Wheels shall be cleaned to remove sediment prior to entrance onto public rights-of-way. When washing is required, it shall be done on an area stabilized with stone and which drains into an approved sediment trapping device.
  9. Routine inspection and needed maintenance shall be provided after each rain.

- CONSTRUCTION NOTES FOR FABRICATED SILT FENCE**
1. WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES.
  2. FILTER CLOTH TO BE FASTENED SECURELY TO WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION.
  3. WHEN TWO SECTIONS OF FILTER CLOTH JOIN EACH OTHER THEY SHALL BE OVERLAPPED BY SIX INCHES AND FOLDED.
  4. MAINTENANCE SHALL BE PERFORMED AS NECESSARY AND MATERIAL REMOVED WHEN "MUDS" DEVELOP IN THE SILT FENCE.
- POSTS:** STEEL BUSHES 1" OR 1 1/2" TYPE OR 4" WOODEN  
**FENCE:** WIRE MESH 1/4" GA. OR 3/8" GALV. STEEL OPENING  
**FILTER CLOTH:** FILTER FABRIC 1/2" MESH (100% APPROVED QUAL.)  
**PREFABRICATED UNIT:** (SEEBAR, HANCOCK, OR APPROVED QUAL.)

1. Sediment shall be removed and the trap restored to its original condition when the sediment has accumulated to the bottom level of the trap.
  2. The volume of sediment removed shall be 1000 cubic feet per acre of contributing drainage.
  3. The structure shall be inspected after each rain and repairs made as needed.
  4. Construction operations shall be carried out in such a manner that erosion and water pollution shall be minimized.
  5. The sediment trap shall be cleaned and the area stabilized when the sedimented drainage area has been completely stabilized.
  6. All dirt from the trap shall be left in place.
- Maximum Drainage Area: 3 Acres

BUILDING #25 ADDITION TO SDP-85-100

WHITMAN, REQUARDT AND ASSOCIATES  
CIVIL & STRUCTURAL ENGINEERS  
2315 SAINT PAUL STREET  
BALTIMORE, MARYLAND 21218

JAMES GOLDSTEIN & PARTNERS  
ARCHITECTS  
225 MILLBURN AVENUE  
MILLBURN, NEW JERSEY 07041

HENRY ADAMS, INC.  
MECHANICAL/ELECTRICAL ENGINEERS  
600 BALTIMORE AVENUE  
BALTIMORE, MARYLAND

APPLIED PHYSICS LABORATORY  
THE JOHNS HOPKINS UNIVERSITY  
Johns Hopkins Road, Howard County, Maryland

Approved For the University By C. J. Smith  
Date 8-6-85 C. J. Smith BUSINESS MANAGER

**BUILDING 25**

APPLIED PHYSICS LABORATORY  
THE JOHNS HOPKINS UNIVERSITY  
1100 JOHNS HOPKINS ROAD, LAUREL MD 20707

**SEDIMENT CONTROL PLAN**

Fifth Election District Howard County, MD  
Tax Map 41 Parcel 50 and 123

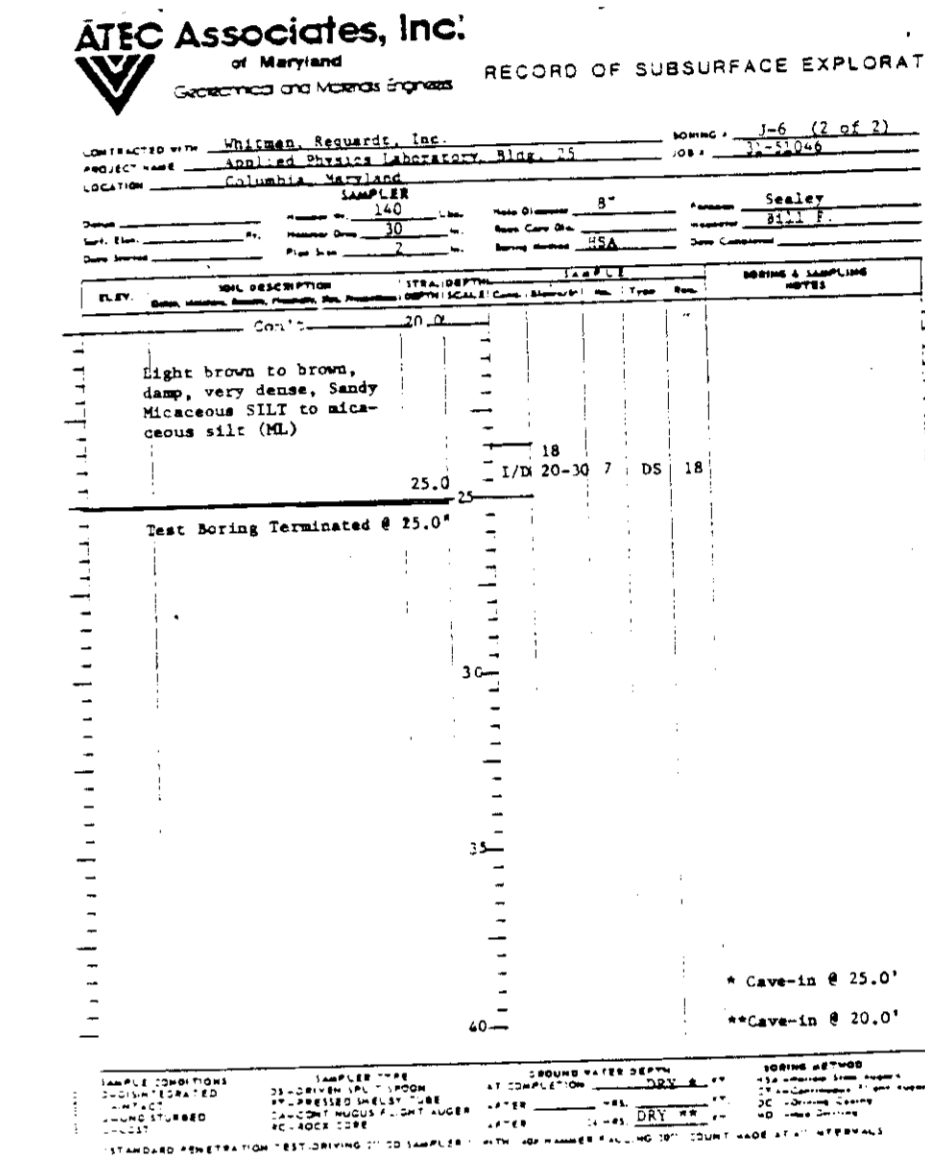
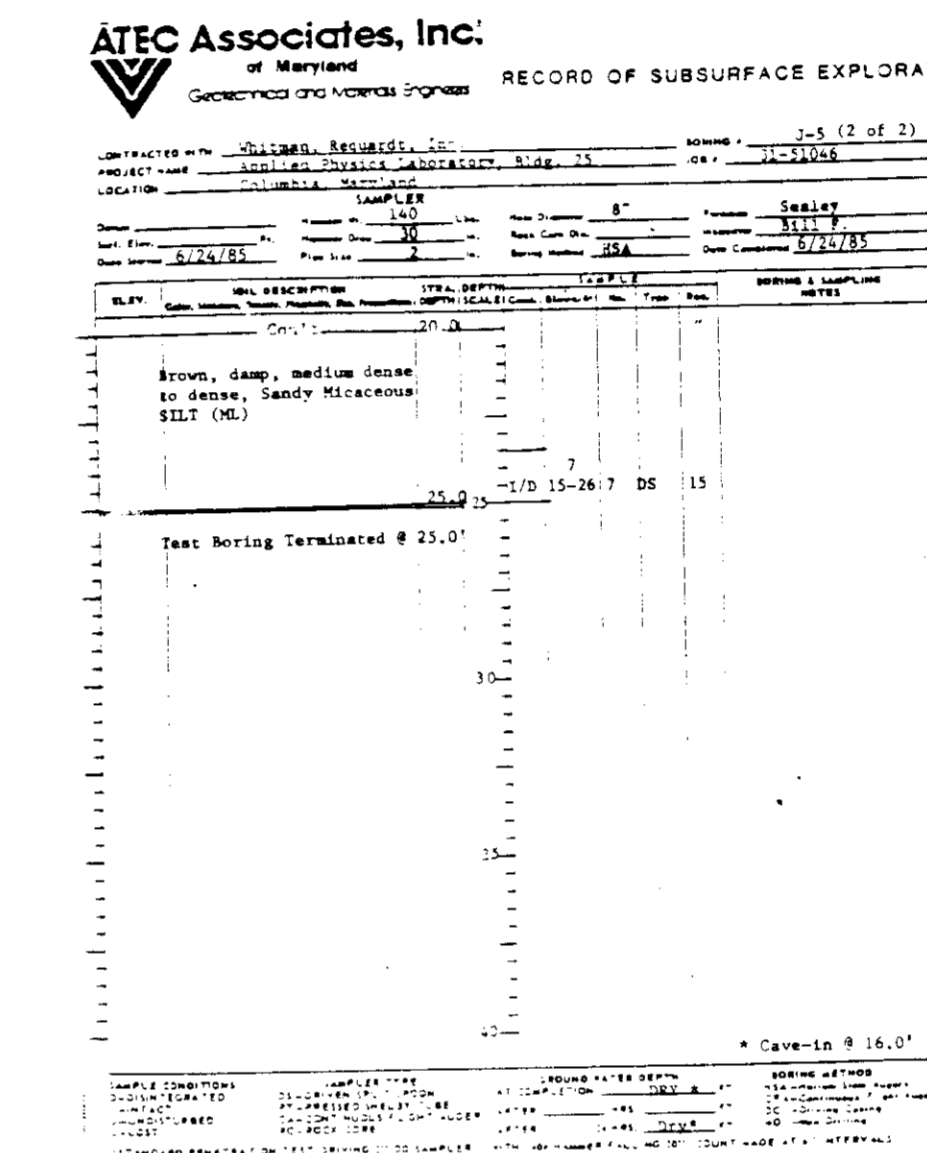
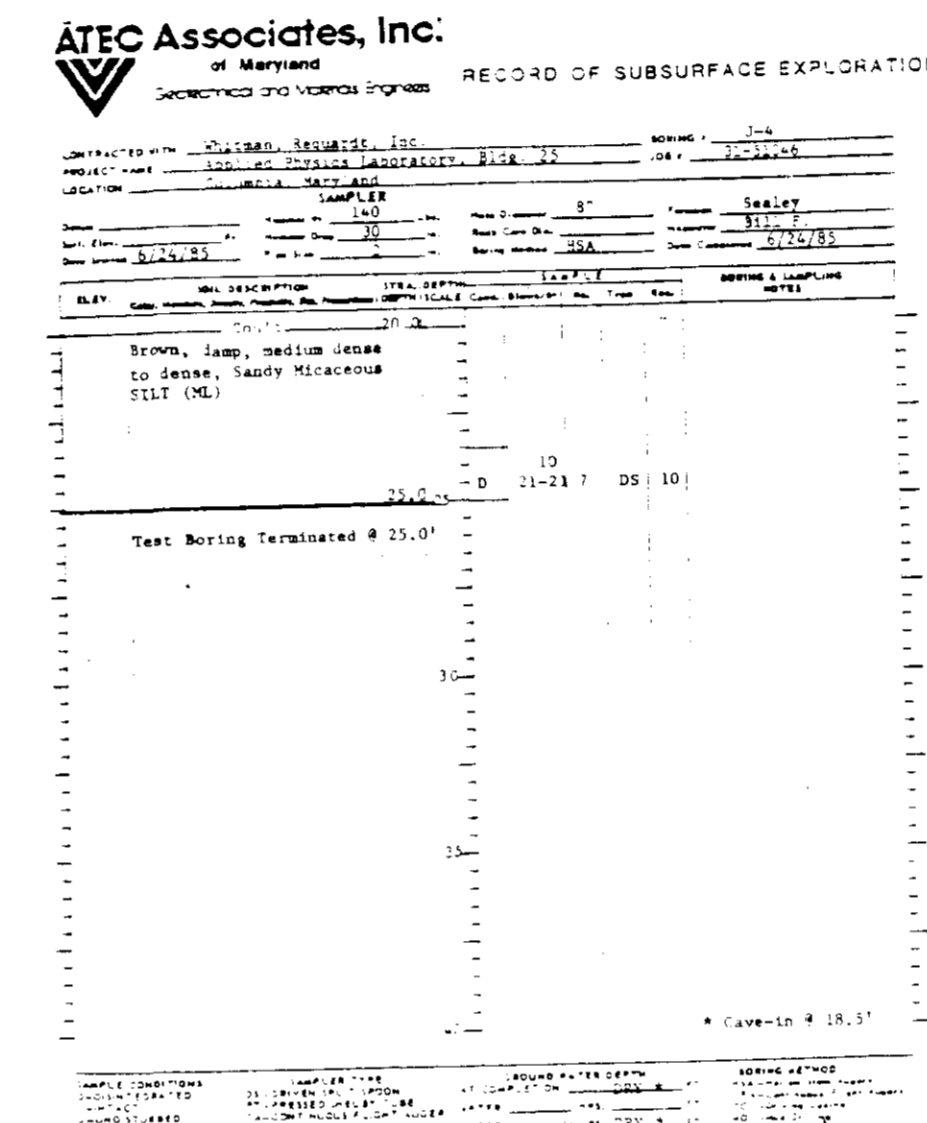
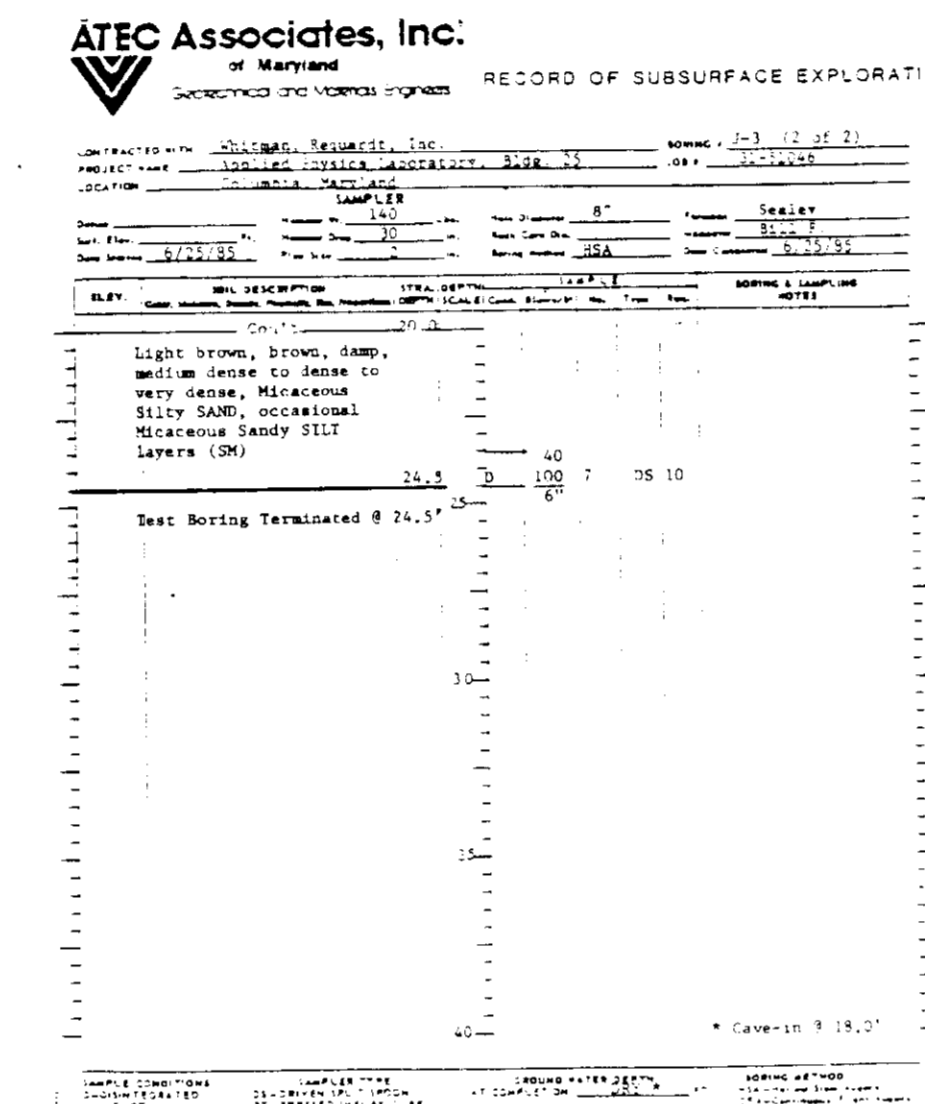
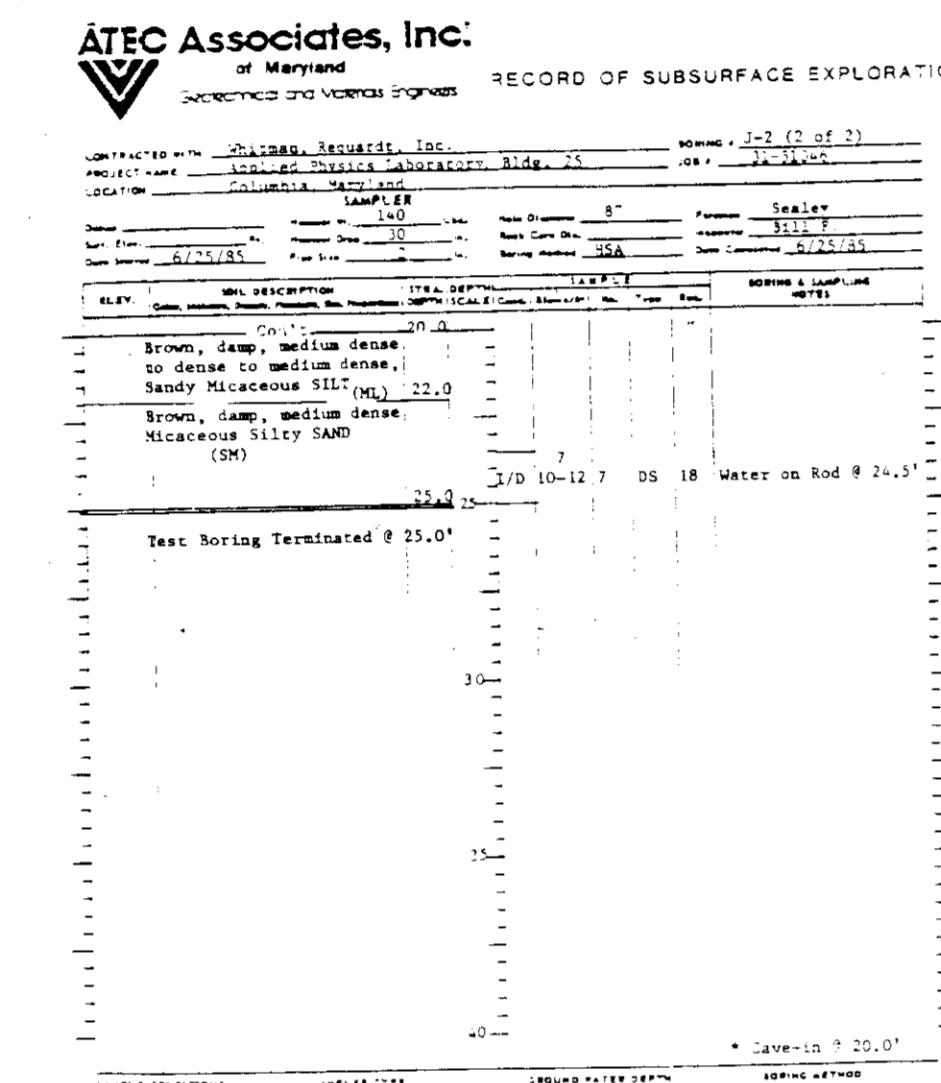
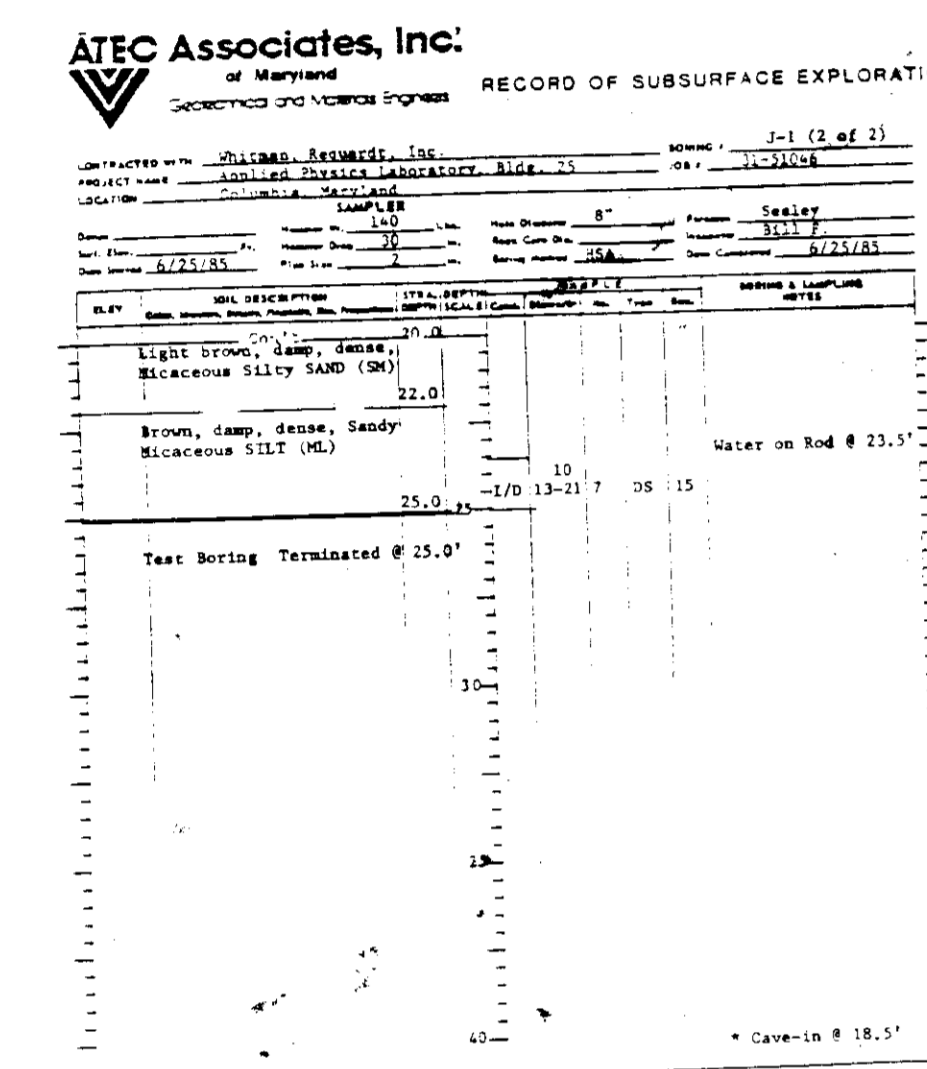
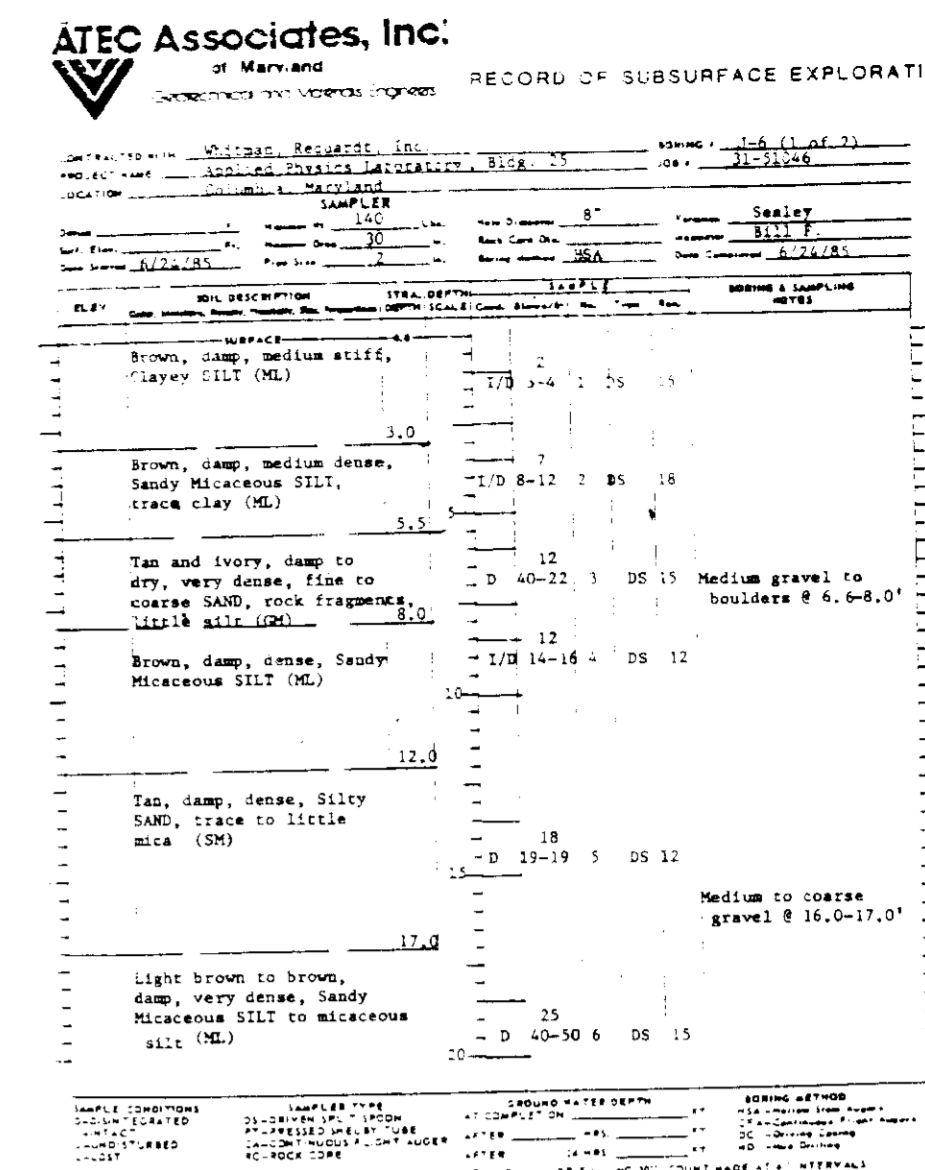
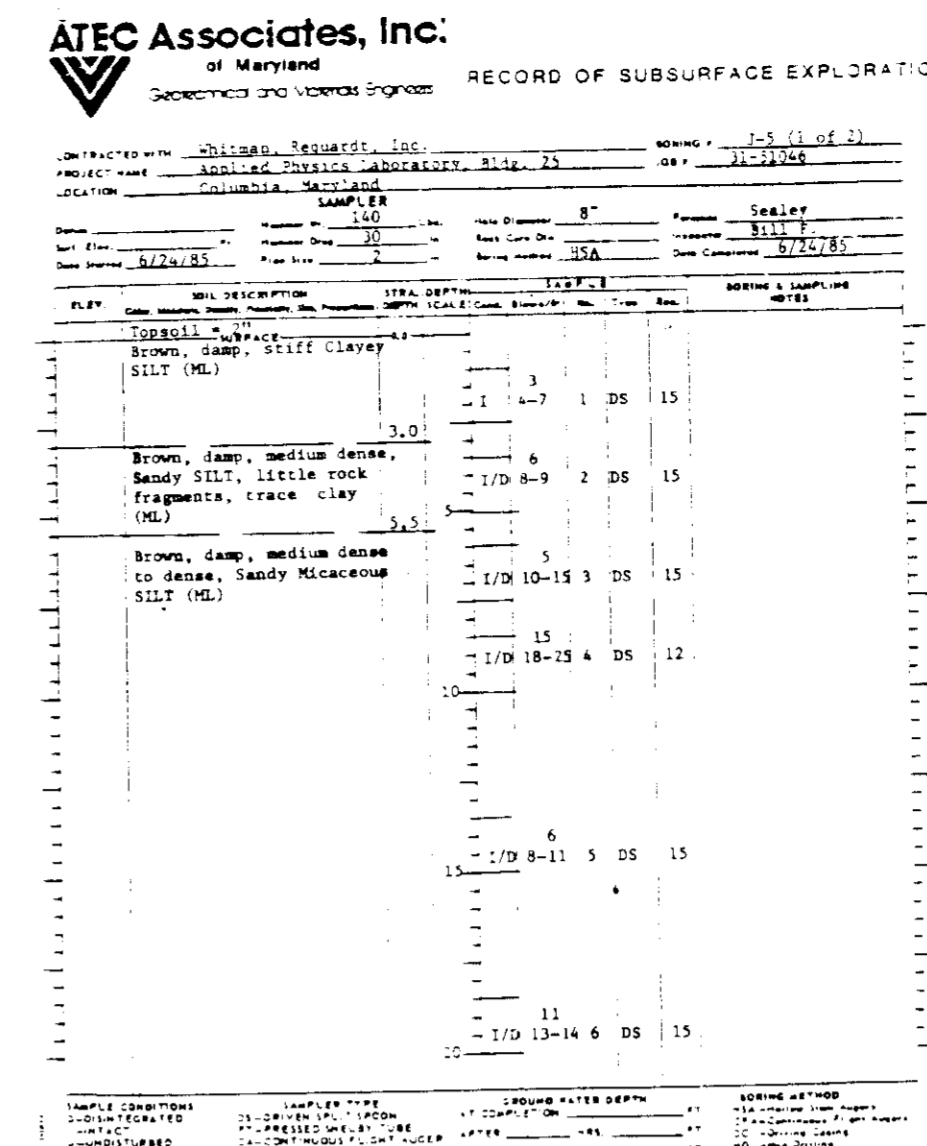
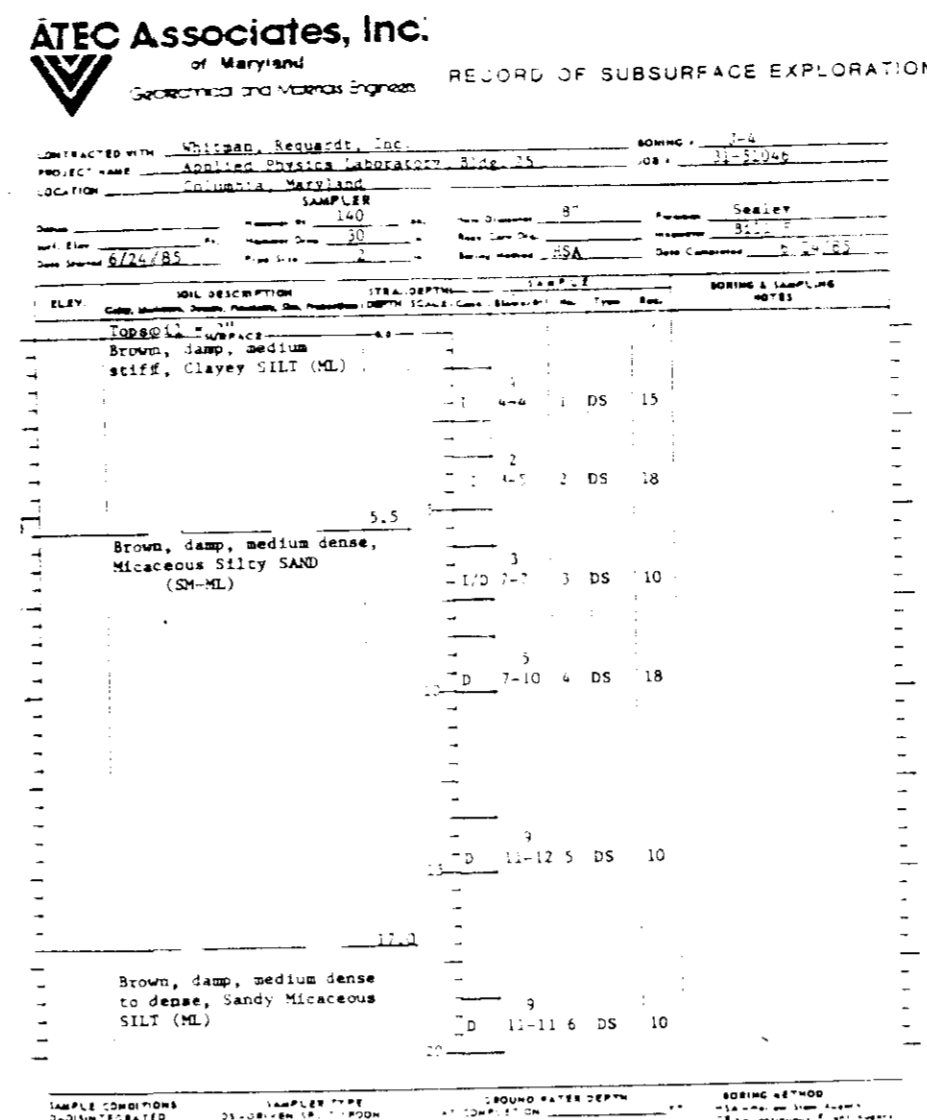
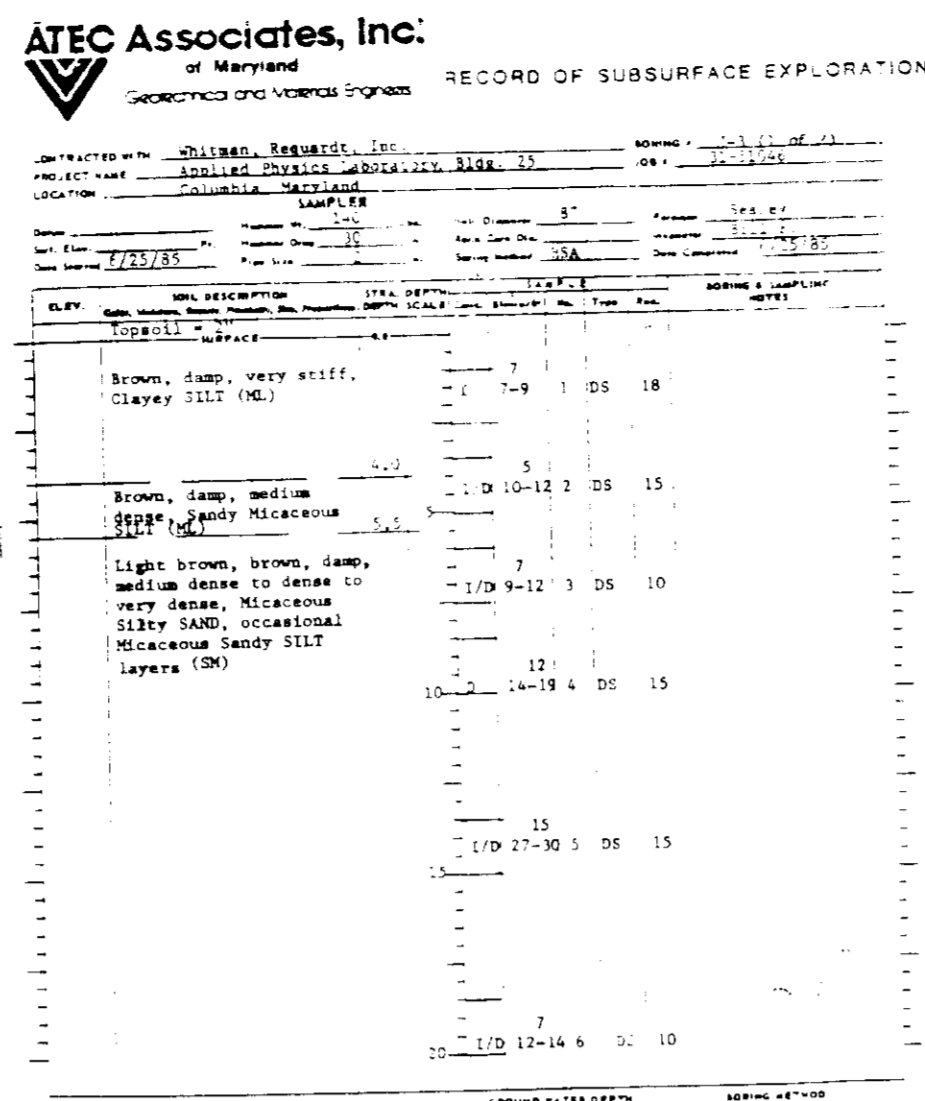
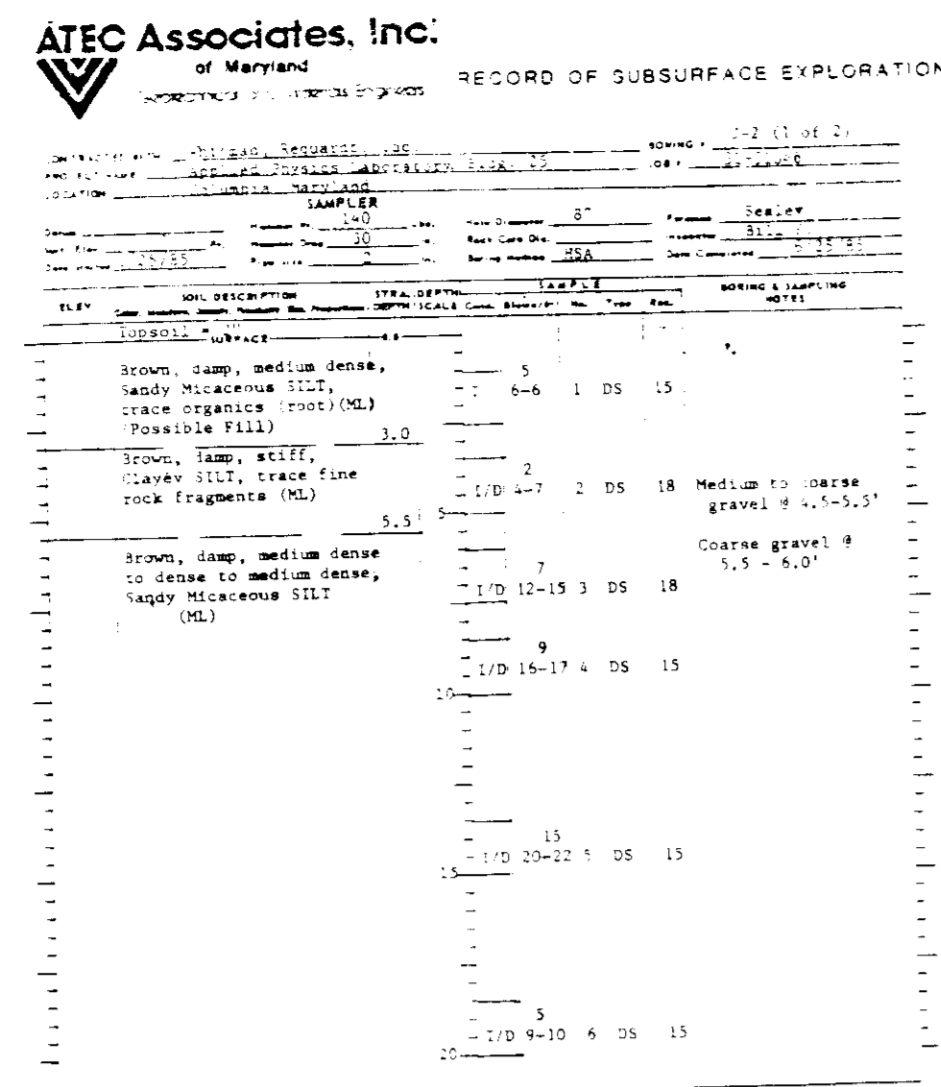
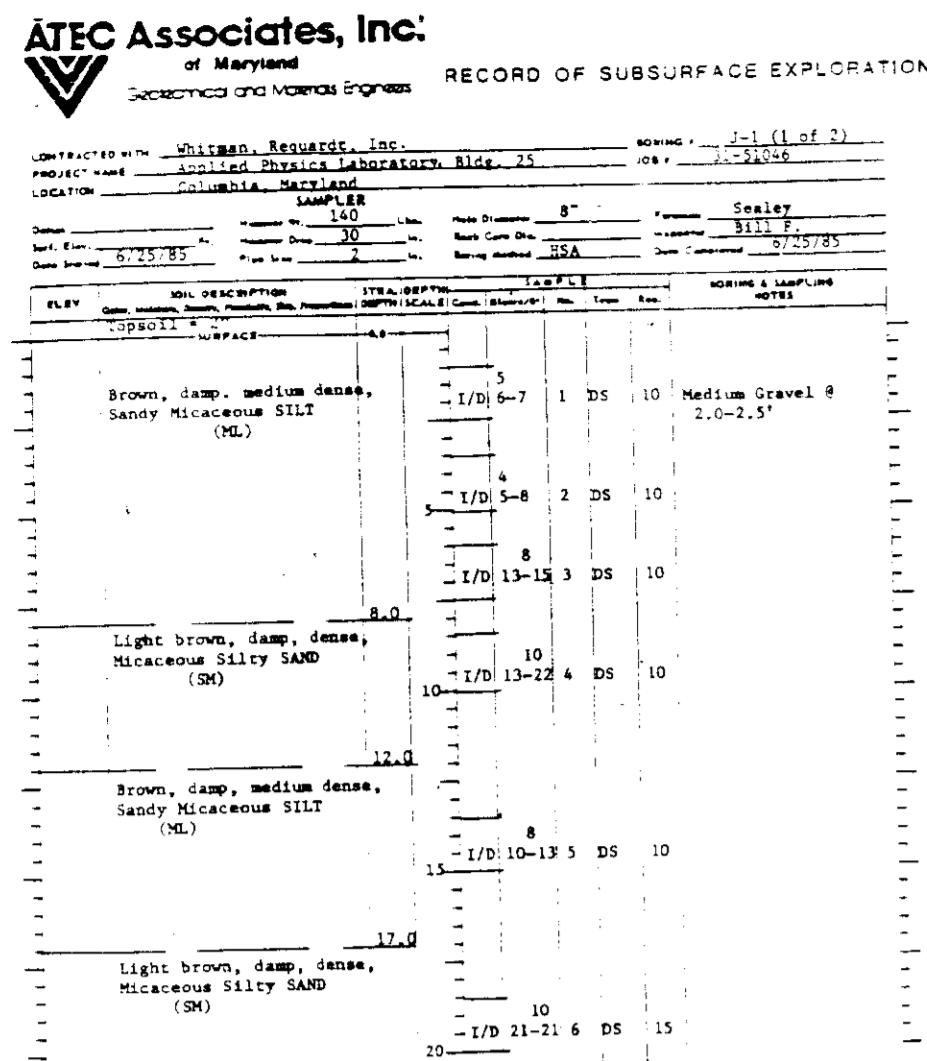
REVISIONS

SCALE AS SHOWN

SHEET NO 4 OF DATE 7-31-85

**DRAWING C4 OF C6**

SDP-86-36



BORING J1

BORING J2

BORING J3

BORING J4

BORING J5

BORING J6

BUILDING #25 ADDITION TO SDP-85-100

WHITMAN, FOUQUARD AND ASSOCIATES  
CIVIL & STRUCTURAL ENGINEERS  
2315 SAINT PAUL STREET  
BALTIMORE, MARYLAND 21218

JAMES GOLDSTEIN & PARTNERS  
ARCHITECTS  
225 MILLBURN AVENUE  
MILLBURN, NEW JERSEY 07041

HENRY ADAMS, INC.  
MECHANICAL & ELECTRICAL ENGINEERS  
600 BALTIMORE AVENUE  
BALTIMORE, MARYLAND

APPLIED PHYSICS LABORATORY  
THE JOHNS HOPKINS UNIVERSITY  
Johns Hopkins Road, Howard County, Maryland

Approved For The University By *C.J. Smith*  
Date 8-6-85 Title BUSINESS MANAGER

**BUILDING 25**

APPLIED PHYSICS LABORATORY  
THE JOHNS HOPKINS UNIVERSITY  
1100 JOHNS HOPKINS ROAD, LAUREL, MD 21077

**BORING LOGS**

Fifth Election District, Howard County, MD  
Tax Map 4, Block 5, Lot 23

REVISIONS

SCALE: NONE  
SHEET NO. 5  
OF  
DATE 7-31-85

**DRAWING**  
**C5**  
OF C6

APPROVED FOR PRIVATE WATER AND PUBLIC SEWERAGE SYSTEMS,  
HOWARD COUNTY HEALTH DEPARTMENT

*[Signature]* HEALTH OFFICER DATE 7-31-85

APPROVED FOR STORM DRAINAGE SYSTEMS, ROADS AND PUBLIC SEWERAGE  
SYSTEMS, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

*[Signature]* DIRECTOR DATE 7-31-85

PLANNING BUREAU OF ENGINEERING DATE 7-31-85

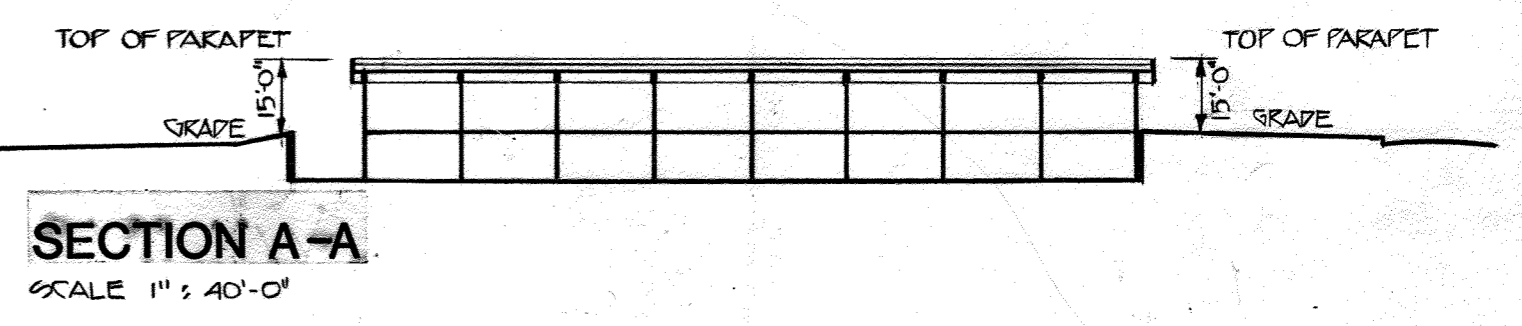
APPROVED HOWARD COUNTY OFFICE OF PLANNING AND ZONING

*[Signature]* PLANNING DIRECTOR DATE 7-31-85  
*[Signature]* CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION DATE 7-31-85

9-18-85

**PLANT LIST**

QUANTITY	BOTANICAL NAME	COMMON NAME	SIZE	SPACING
6	PYRUS CALLERYANA REDSPIRE	REDSPIRE PEAR	12 TO 14 FT.	AS SHOWN
2	ILEX OPACA FEMALE	FEMALE AMERICAN HOLLY	6 TO 7 FT.	AS SHOWN
76	ILEX CORNUTA ROTUNDA	DWARF CHINESE HOLLY	12 TO 15 IN.	2'-0" O.C.
10	CUPRESSOCYPARIS LEYLANDII	LEYLAND CYPRESS	4 TO 5 FT	20 FT.
20	PICEA ABIES EXCELSA	NORWAY SPRUCE	5 TO 6 FT	20 FT.
20	JUNIPERUS CHINENSIS HETZI	HETZ BLUE JUNIPER	24" TO 30"	10 FT.
40	TAXUS CUPIDATA 'DENSIFORMIS'	DENSE JAPANESE YEW	15" TO 18"	6 FT.
15	PRUNUS LAUROCERASUS-OTTO LUYKEN'	OTTO LUYKEN LAUREL	18" TO 24"	24 FT.
2	PYRACANTHA 'TETON'	YELLOW-ORANGE FIRETHORN	4 TO 5 FT	AS SHOWN



**GENERAL LANDSCAPING NOTES**

- ALL PLANTINGS BY OWNER.
- ALL INSTALLATION BY OWNER.
- ALL SEEDING BY OWNER.  
GRASS SEED MIXTURE: (5 LBS. PER 1000 SQ. FT.)  
1/3 KENTUCKY BLUE GRASS (WIDE BLADE VARIETY)  
1/3 CREEPING FESCUE  
1/3 PERENNIAL RYE  
1" DEEP STRAW MULCH
- FINAL GRADING BY GENERAL CONTRACTOR.
- ALL TREES - PROVIDE 4-5 FT. DIA. PINEBARK MULCH.
- ALL HEDGES - PROVIDE 3-4 FT. WIDE CONTINUOUS PINE BARK MULCH STRIP.
- CONCRETE PAVERS - INTERLOCKING TYPE TO MATCH APL/JHU STANDARD, PROVIDED BY AND INSTALLED BY GENERAL CONTRACTOR.
- BENCHES - MODEL NO. UB318-EA BY VICTOR STANLEY INC, DUNKIRK, MARYLAND (BY OWNER).

**DEMOLITION KEY NOTES**

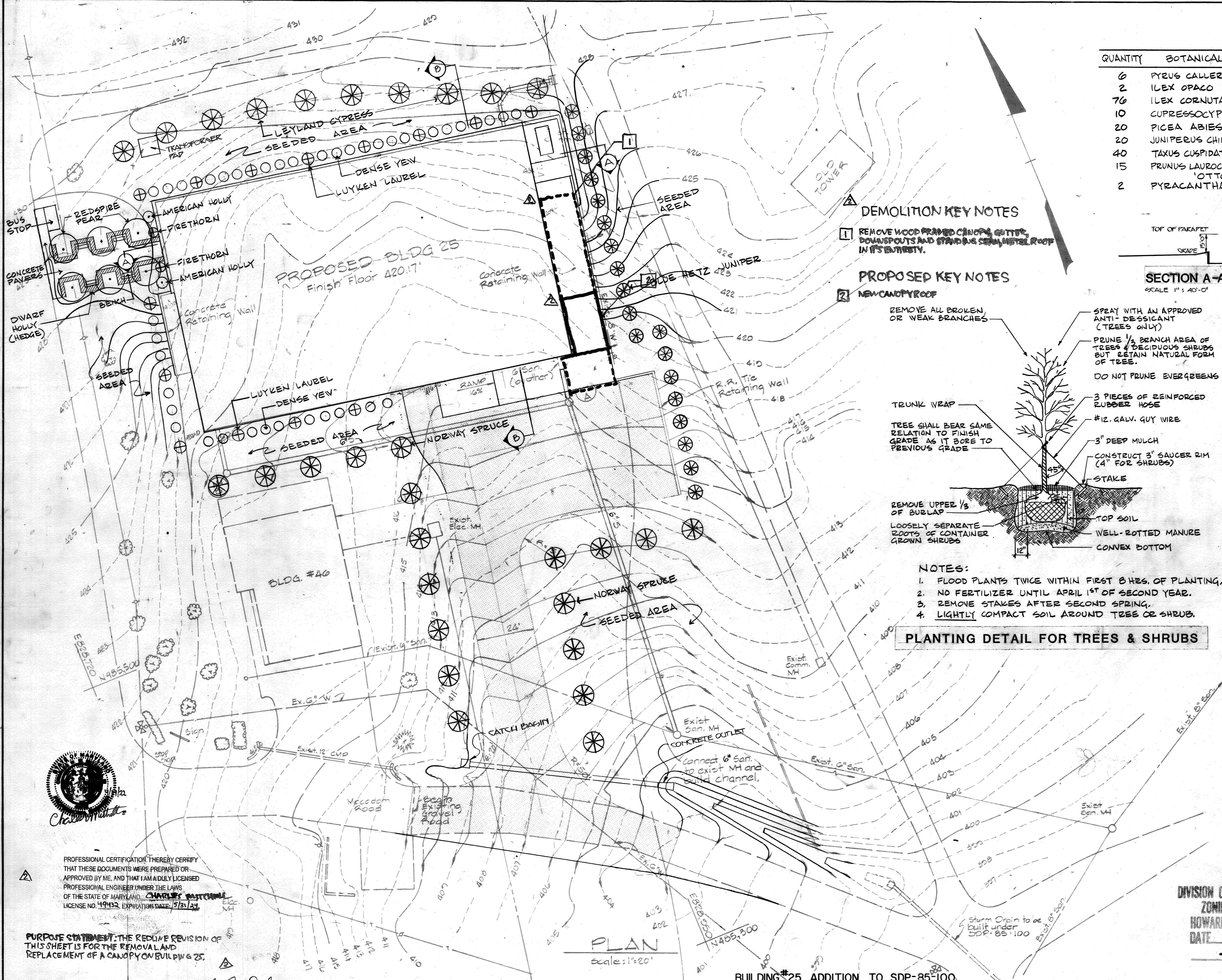
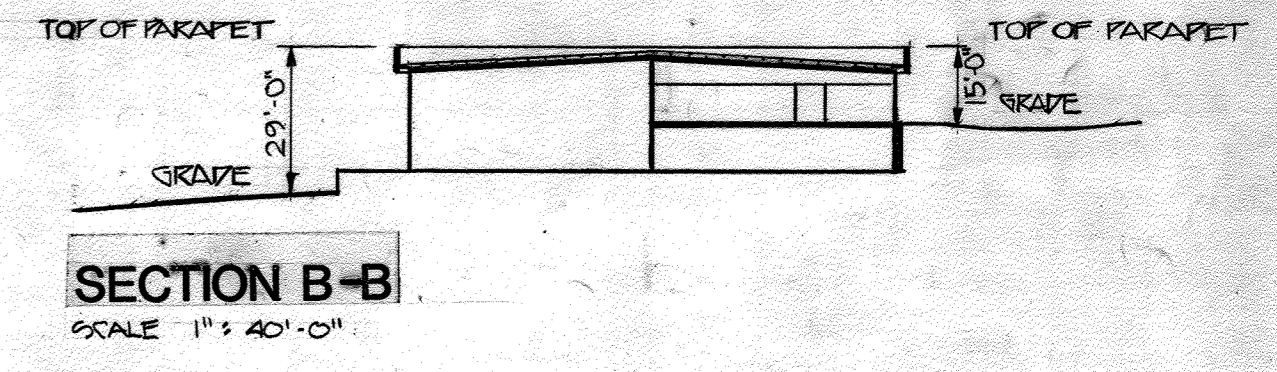
- REMOVE WOOD FRAMED CANOPY GUTTER, DOWNSPOUTS AND STANDING SEAM METAL ROOF IN ITS ENTIRETY.

**PROPOSED KEY NOTES**

- NEW CANOPY ROOF  
REMOVE ALL BROKEN, OR WEAK BRANCHES  
SPRAY WITH AN APPROVED ANTI-DESICCANT (TREES ONLY)  
PRUNE 1/2 BRANCH AREA OF DECIDUOUS SHRUBS BUT RETAIN NATURAL FORM OF TREE.  
DO NOT PRUNE EVERGREENS  
3 PIECES OF REINFORCED RUBBER HOSE  
#12 GALV. GUY WIRE  
3" DEEP MULCH  
CONSTRUCT 3" SAUCER RIM (4" FOR SHRUBS)  
STAKE  
TOP SOIL  
WELL-ROTTED MANURE  
CONVEX BOTTOM
- TRUNK WRAP  
TREE SHALL BEAR SAME RELATION TO FINISH GRADE AS IT BORE TO PREVIOUS GRADE  
REMOVE UPPER 1/3 OF BURLAP  
LOOSELY SEPARATE ROOTS OF CONTAINER GROWN SHRUBS

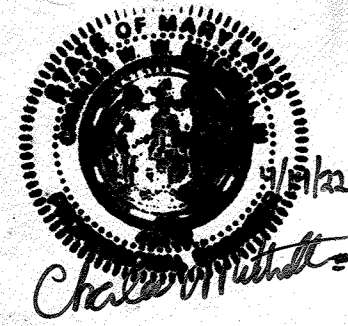
- NOTES:**
- FLOOD PLANTS TWICE WITHIN FIRST 8 WKS. OF PLANTING.
  - NO FERTILIZER UNTIL APRIL 1ST OF SECOND YEAR.
  - REMOVE STAKES AFTER SECOND SPRING.
  - LIGHTLY COMPACT SOIL AROUND TREE OR SHRUB.

**PLANTING DETAIL FOR TREES & SHRUBS**



**PLAN**  
Scale: 1" = 20'

BUILDING #25 ADDITION TO SDP-85-100



PROFESSIONAL CERTIFICATION, THEREBY 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.  
**Charles W. Whitman**  
LICENSE NO. 19452, EXPIRATION DATE: 5/31/24

PURPOSE STATEMENT: THE REDLINE REVISION OF THIS SHEET IS FOR THE REMOVAL AND REPLACEMENT OF A CANOPY ON BUILDING 25.

APPROVED  
DIVISION OF LAND DEVELOPMENT & ZONING ADMINISTRATION  
HOWARD COUNTY, MARYLAND  
DATE: 9-18-85  
*[Signature]*

APPROVED FOR PRIVATE WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT. <i>[Signature]</i> HEALTH OFFICER DATE: 9-24-85
APPROVED: STORM DRAINAGE SYSTEMS, ROADS AND PUBLIC SEWERAGE SYSTEMS - HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS. <i>[Signature]</i> DIRECTOR DATE: 10-26-85
APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING <i>[Signature]</i> PLANNING DIRECTOR DATE: 10-24-85
<i>[Signature]</i> CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION DATE: 10-24-85

WHITMAN, REQUARDT AND ASSOCIATES  
CIVIL & STRUCTURAL ENGINEERS  
2315 SAINT PAUL STREET  
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JAMES GOLDSTEIN & PARTNERS  
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HENRY ADAMS, INC.  
MECHANICAL & ELECTRICAL ENGINEERS  
600 BALTIMORE AVENUE  
BALTIMORE, MARYLAND

APPLIED PHYSICS LABORATORY  
THE JOHNS HOPKINS UNIVERSITY  
Johns Hopkins Road Howard County, Maryland  
Approved For The University By: *[Signature]*  
Date: 8-6-85 Title: Business Manager

**BUILDING 25**  
APPLIED PHYSICS LABORATORY  
THE JOHNS HOPKINS UNIVERSITY  
11100 JOHNS HOPKINS ROAD, LAUREL MD. 20707

**LANDSCAPE PLAN**  
Fifth Election District Howard County, MD  
Tax Map 41 Parcel 50 and 123

REVISIONS  
RKK REMOVE & REPLACE CANOPY ON BUILDING 25 04/14/82  
SCALE: 1" = 20'  
SHEET NO. 6  
OF  
DATE: 7-31-85

**DRAWING**  
**C6**  
OF C6