GENERAL NOTES

- L ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE HOWARD COUNTY DESIGN MANUAL VOLUME IV - STANDARD SPECIFICATIONS AND DETAILS.
- 2. ELEVATIONS SHOWN ARE BASED ON THE JOHNS HOPKINS UNIVERSITY APPLIED PHYSICS LABORATORY DATUM. JHU-APL DATUM-.94' = HOWARD COUNTY DATUM. TOPOGRAPHIC SURVEY WAS DONE IN NOVEMBER
- 3. THE CONTRACTOR SHALL NOTIFY MISS UTILITY (301) 559-0100 FIVE
- DAYS PRIOR TO START OF CONSTRUCTION. 4. POLYFILTER X FILTER CLOTH BLANKET OR EQUAL SHALL BE PLACED UNDER ALL STONE RIP RAP.
- 5. AT PROXIMATE 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 CONTRACTOR'S 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 PLANT ENGINEERING OFFICE (301) 792-5134.
- 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. HOWEVER THE CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE WITH JHU APL AS TO WHEN SUCH WORK IS REQUIRED.
- 8. THE CONTRACTOR SHALL CONTACT MR. ARTHUR STUCKI, PLANT ENGINEER (301) 792-5133 AT LEAST FIVE DAYS BEFORE STARTING
- WORK OR SHUTTING DOWN ANY UTILITIES. 9. THE CONTRACTOR SHALL SHUTDOWN AND TIE-IN TO THE EXISTING UTILITIES ONLY AFTER NORMAL WORKING HOURS AT JHU-APL. WORK MUST BE SCHEDULED ACCORDINGLY. NORMAL WOEKING HOURS ARE 8:30
- AM TO 5:00 PM. 10. ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS.
- 11. ALL WATER MAINS SHALL BE DUCTILE IRON CLASS 52. 12. ALL SANITARY SEWER MAINS SHALL BE HOWARD COUNTY SCHEDULE 35
- PVC UNLESS OTHERWISE NOTED. 13. THE CONTRACTOR OR DEVELOPER SHALL CONTACT THE CONSTRUCTION INSPECTION DIVISION, 24 HOURS IN ADVANCE OF COMMENCEMENT OF
- WORK, AT 992-2417 OR 2418. 14. TOP OF ALL WATER MAINS SHALL HAVE A MINIMUM OF 3 1/2 FT. OF COVER UNLESS OTHERWISE NOTED.
- 15. ALL FITTINGS SHALL BE BUTTRESSED OR ANCHORED WITH CONCRETE IN ACCORDANCE WITH THE STANDARD DETAILS UNLESS OTHERWISE
- PROVIDED FOR ON THE DRAWING. 16. CLEAR ALL UTILITIES BY A MINIMUM OF 6". CLEAR ALL POLES 2'-0"
- MINIMUM OR TUNNEL AS REQUIRED. 17. THE CONTRACTOR SHALL NOT OPERATE ANY WATER MAIN VALVES ON THE
- EXISTING WATER SYSTEMS. 18. THE CONTRACTOR SHALL PROVIDE A JOINT IN ALL SEWER MAINS
- WITHIN 2'-0" OF EXTERIOR MANHOLE WALL.
- 19. THE CONTRACTOR SHALL PERMANENTLY SEED AND STABILIZE ALL DISTURBED AREAS THAT ARE NOT TO BE PAVED.
- 20. THE BUILDINGS PROPOSED ARE FOR RESEARCH AND DEVELOPMENT. 21. THERE ARE NO WETLANDS WITHIN THE LIMIT OF DISTURBANCE SHOWN. THEREFORE SECTION 404 AND SECTION 401 DO NOT APPLY AND
- PERMITS ARE NOT REQUIRED. 22. ALL ON-SITE WATER AND SEWER SYSTEMS ARE PRIVATE.
- 23. PREVIOUS PLANS ON THIS SITE WERE APPROVED UNDER SOP 89-65,
- 80 89-133 \$ SD-90-119. 24. STORMWATER MANAGEMENT FOR THIS DEVELOPMENT WAS PROVIDED UNDER SDP - 88 -06 .

% COVERAGE SITE ANALYSIS PRESENT ZONING - - - - - - - - RURAL -R BUILDING FLOOR SPACE: PROPOSED ---- (5,313 S.F. LOBBY AND OFFICE TOTAL - - - - - - - - - 1432,303 SF NUMBER OF EMPLOYEES EXISTING - - - - - - 3.100 TOTAL ---- 3,100 NUMBER OF PARKING SPACES EXISTING - - - - - - - 3,180 REQUIRED - - - 3,100 X 0.7 - - - - 2,170 PROVIDED - - - - - - - 3.180 GREEN AREA 83.11 EXISTING - - - - - - - 304.20 AC. 83.01 % PROPOSED - - - - - - - - - 303.82 AC. BUILDING COVERAGE EXISTING - - - - - - - - 616,571 SF. 3.87 % PROPOSED - - - - - - - - - 630,760 S.R. 3.95% PAVING AREA 12.83 7 EXISTING - - - - - - - - - 46.97 AC. PROPOSED - - - - - - - - - 4C.59 AC. 12.84%

NOTE: THERE IS NO ADDITIONAL PARKING PROPOSED BY THIS

Note: Any trees to be removed and any new landscaping will be done by JHU-APL after building is completed. 1. General:

All water main construction shall conform to the requirements contained in the current issue of the "Howard County Design Manual, Volume IV, Standard Specifications and Details fo Construction", Article 10 except as modified herein.

Water Main Notes

2. Modifications a. <u>Valves</u>

- Valves shall open left counterclockwise. Where indicated on the plans they shall be furnished with post type operators.
- All outlet nozzles shall have National Standard Fire Hose Coupling Screw Threads.

c. Pipe Joint Bonding 1) All pipe joints shall be bonded to insure electrical continuity. Bonding may be accomplished either with shop welded copper terminal straps and copper jumper straps with

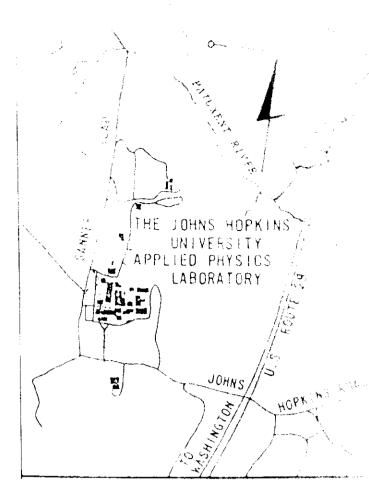
exothermic welded in the field. 2) All bonding between joints for pipe, fittings, valves, and specials shall be tested for electrical continuity. Each joint shall be inspected and resistance tested prior to coating

corrosion resistant bolts or with copper wire

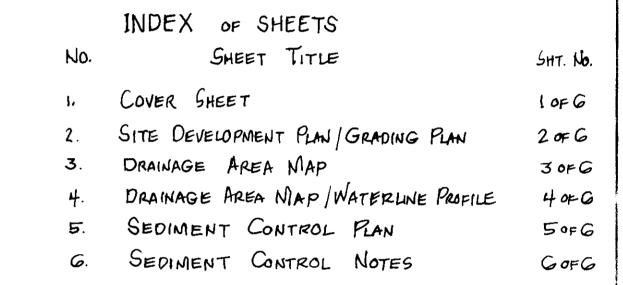
3) All bonded joints shall be coated with a rustinhibitive paint.

permissible across any joint.

and backfilling. No remistance will be



SCALE: 1" = 2000"



		ADDR	ESS	CH	ART			
PARCEL NUI	STREET ADDRESS							
P. 123/129	7	11100 JOHNS HOPKINS ROAD						
SUBDIVISION NAME J.H.U. APPLIED PHYSICS LAB.				SECT./AREA			LOT/PARCEL P.123/289	
PLAT# OR L/F 234/304 400/625	BLOCK//`	Z ONE R	TAX/ZON 41		E MAP	ELEC DIST.		CENSUS TR
WATER CODE	4	,	SEWER CODE				manun virri virri va et i manun a et i manun a ipare	
APPROVED;	FOR PUB HOWARD		HE#		DEPART			SYSTEMS

HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING March . Is lange CHIEF, DIVISION OF COMMUNITY PLANNING

& LAND DEVELOPMENT APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

SCALE:

DATE 9.26.90

CHIEF, BUREAU OF ENGINEERING MK

SHEET

REVISIONS

ATE: 03-19-90

AS SHOWN

Consulting Engineers + Land Planners + Surveyors 3230 Bethony Land, Suite 4: Filicott City, Mic Vland

304 465-0400

APPLIED PHYSICS LABORATORY THE JOHN HOPKINS UNIVERSITY JOHNS HOPKINS ROAD HOWARD COUNTY MARYLAND APPROVED FOR THE UNIVERSITY BY: Live C Toesch DATE: 4/18/90 TITLE : 2 soup Supervisor

BUILDING I - ADDITION

THE JOHNS HOPKINS UNIVERSITY APPLIED PHYSICS LABORATORY 11100 JOHNS HOPKINS ROAD

MILDRED B. PRICE ET AL

145/235 146/76

LOCATION PLAN

Scale I"= 400'

ZONED: RUSAL

LAUREL MARYLAND 2070'

PROPERTY LINE

HOPKINS ROAD LTD. PARTNERSHIP

P-124 AND P-125

ZONED: PEC.

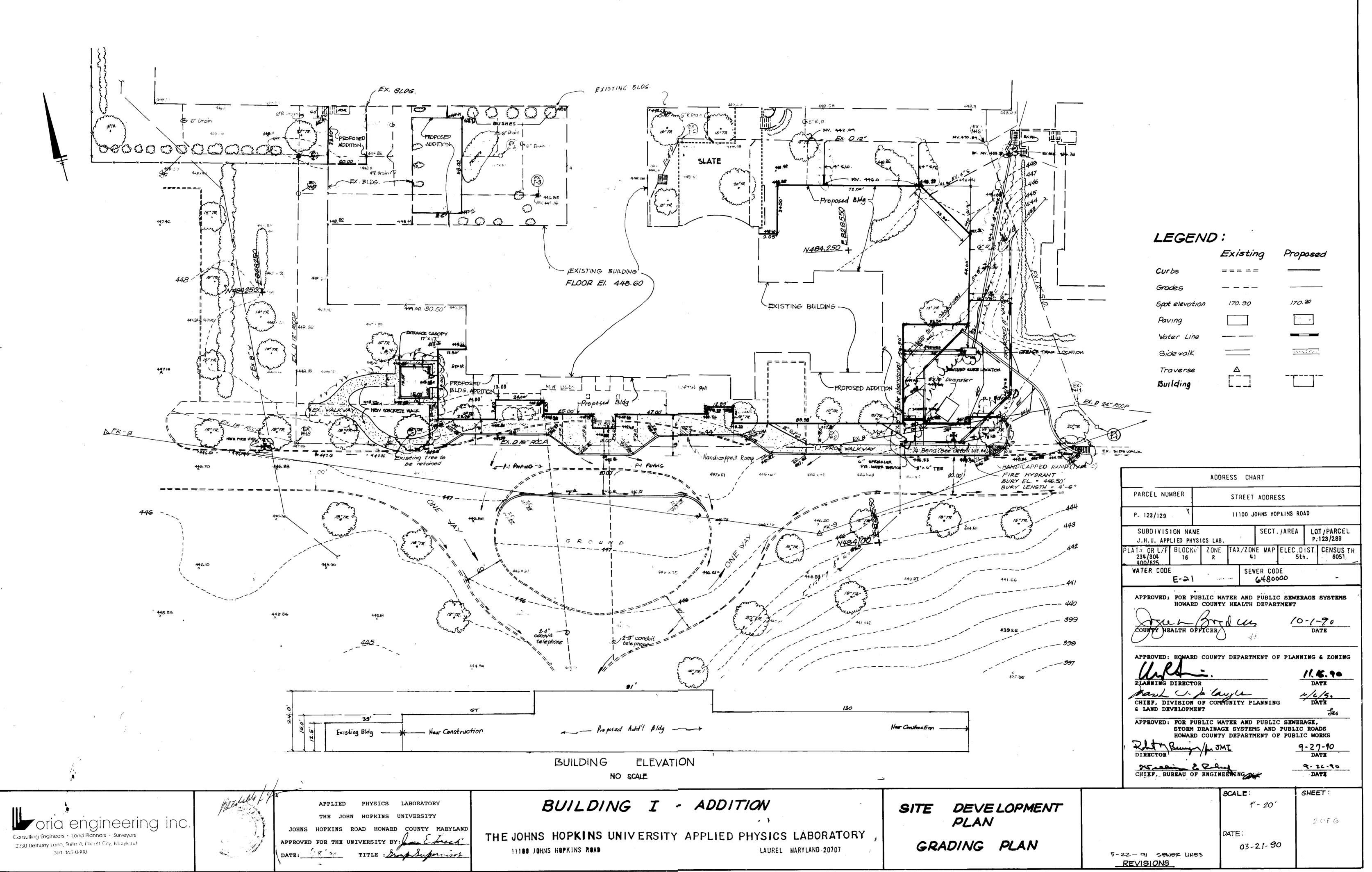
JOSEPH GREGOR LASZLO

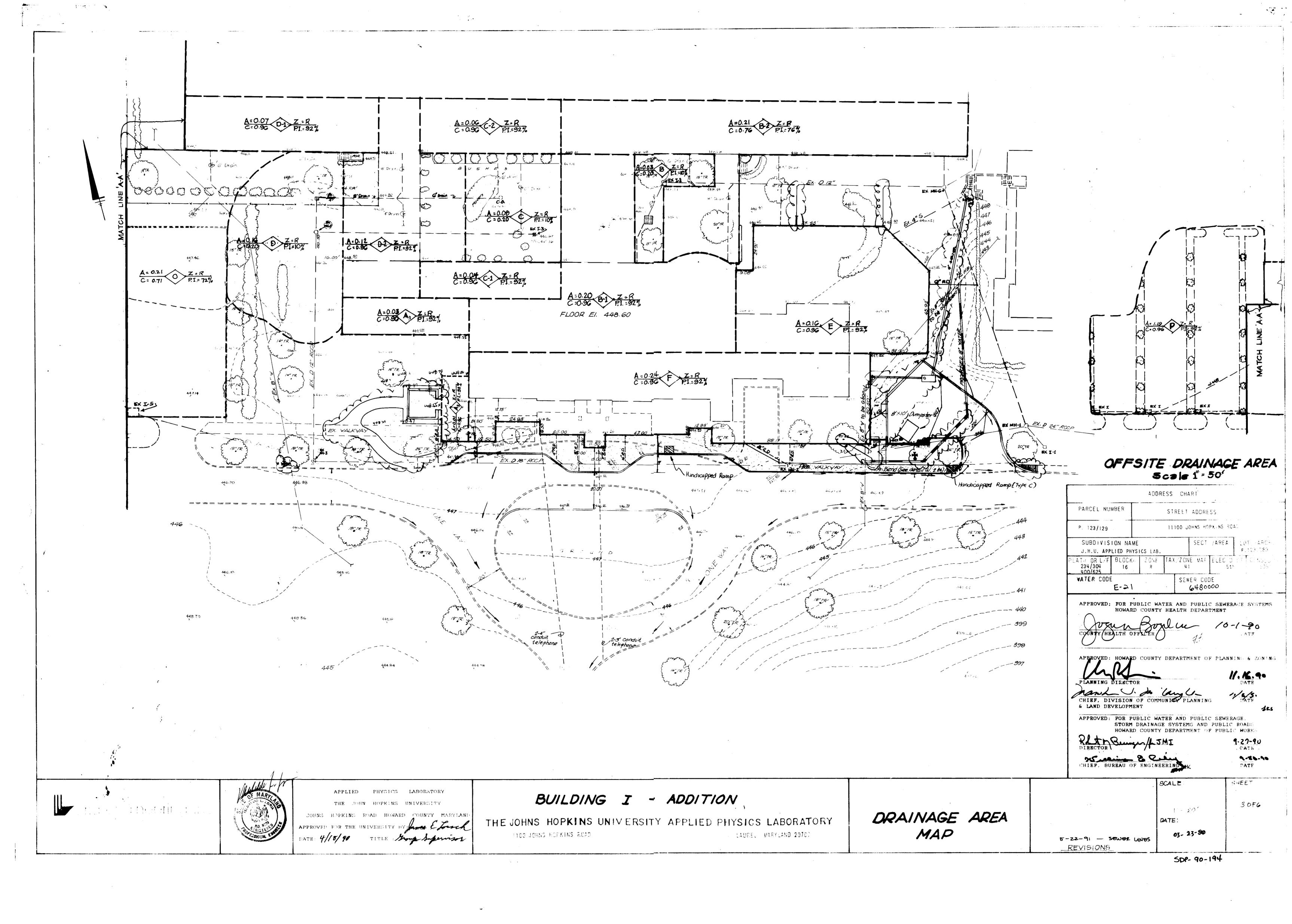
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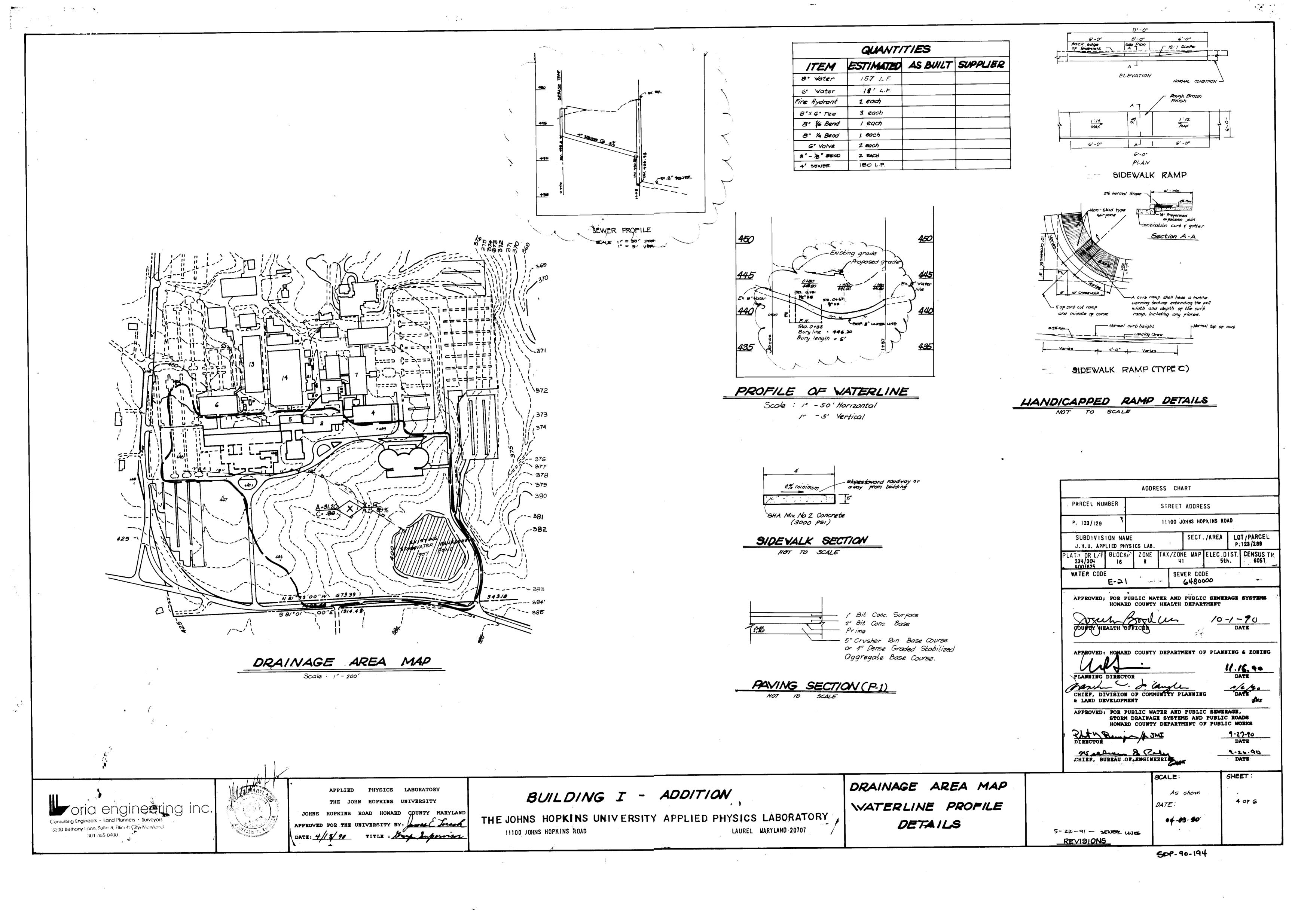
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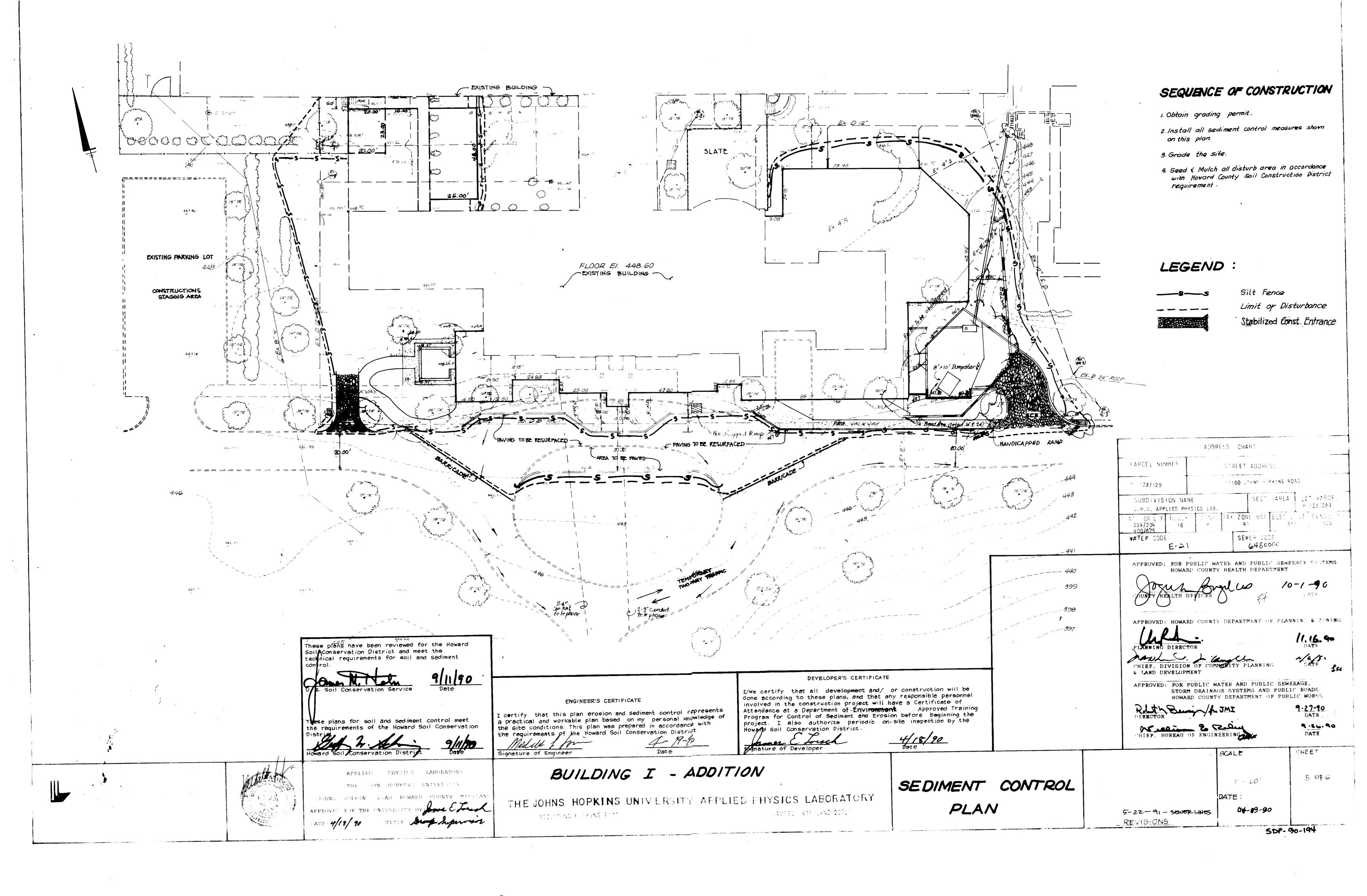
P-356

COVER SHEET



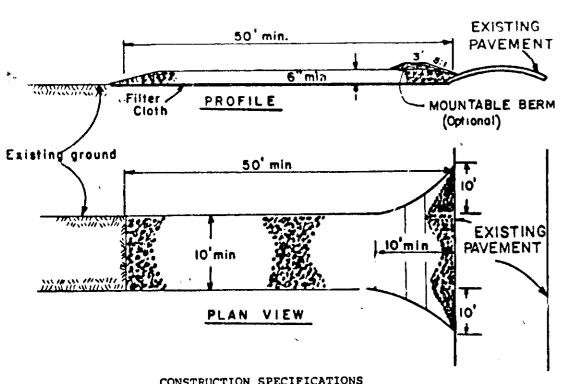






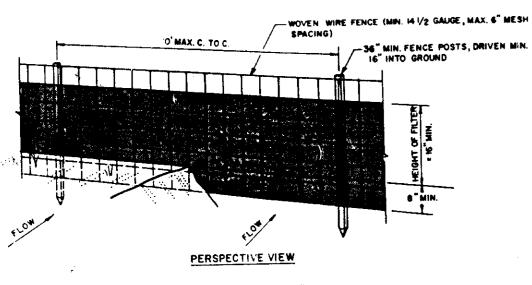
STABILIZED CONSTRUCTION ENTRANCE not to scale

STANDARD SYMBOL



CONSTRUCTION SPECIFICATIONS

- 1. Stone Size Use 2" stone, or reclaimed or recycled concrete equivalent. 2. Length - As required, but not less than 50 feet (except on a single resi-
- dence lot where a 30 foot minimum length would apply). 3. Thickness - Not less than six (6) inches.
- 4. Width Ten (10) 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 sto
- 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 berm with 5:1 slopes will be permitted. 7. Maintenance - The entrance shall be maintained in a condition which will prevent tracking or flowing of sediment onto public rights-of-way. This ma
- require periodic top dressing with additional stone as conditions demand and repair and/or cleanout of any measures used to trap sediment. All sediment spilled, dropped, washed or tracked onto public rights-of-way mus 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 are
- stabilized with stone and which drains into an approved sediment trapping 9. Periodic inspection and needed maintenance shall be provided after each rain



-36" MIN. FENCE POST WOVEN WIRE FENCE (14 1/2 GA. MIN., MAX. 6" MESH SPACING) WITH FILTER CLOTH OVER EMBED FILTER CLOTH MIN. 8" INTO GROUND -

CONSTRUCTION NOTES FOR FABRICATED SILT FENCE

SECTION

1. WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES.

2. FILTER CLOTH TO BE FASTENED SECURELY TO

- WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION. 3. WHEN TWO SECTIONS OF FILTER CLOTH
- ADJOIN EACH OTHER THEY SHALL BE OVER-LAPPED BY SIX INCHES AND FOLDED.
- 4. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.

- PREFABRICATED UNIT: GEOFAB, ENVIROFENCE, OR APPROVED

Apply to graded or cleared areas not subject to immediate further disturbance where a permanent long-lived vegetative cover is needed.

Seedbed Preparation: Loosen upper three inches of soil by raking, discing or other acceptable means before seeding, unless previously loosened.

- Soil Amendments: In lieu of soil test recommendations, use one of the following schedules 1) Preferred - Apply 2 tons per acre dolomitic limestone (92 lbs/1000 square ft) and 600 lbs per acre 10-10-10 fercilizer (14 lbs/1000 sq ft) before seeding. Harrow or disc into upper three inches of soil. At time of seeding, apply 400 lbs per acre 30-0-0 ureaform fertilizer (9 lbs/1000 sq ft).
- 2) Acceptable Apply 2 tons per acre dolomitic limestone (92 lbs/1000 sq ft) and 1000 lbs per acre 10-10-10 fertilizer (23 lbs/1000 sq ft) before seeding. Harrow or disc into upper three inches of soil.

Seeding - For the periods March 1 thru April 30, and August 1 thru October 15, seed with 60 lbs per acre (1.4 lbs/1000 sq ft) of Kentucky 31 Tall Fescue. For the period May 1 thre July 31, seed with 60 lbs Kentucky 31 Tall Fescue per acre and 2 lbs per acre (.05 lbs/1000 sq ft) of weeping lovegrass. During the period of October 16 thru February 28, protect site by: Option (1) 2 tons per acre of well anchored straw mulch and seed as soon as possible in the spring. Option (2) Use sod. Option (3) Seed with 60 lbs/ acre Kentucky 31 Tall Fescue and mulch with 2 tons/acre well anchored straw.

Mulching - Apply 12 to 2 tons per acre (70 to 90 lbs/1000 sq ft) of unrotted small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 218 gallons per acre (5 gal/1000 sq ft) of emulsified asphalt on flat areas. On slopes 8 feet or higher, use 348 gallons per acre (8 gal/1000 sq ft) for anchoring.

Matinenance - Inspect all seeded areas and make needed repairs, replacements and

TEMPORARY SEEDING NOTES

Apply to graded or cleared areas likely to be redisturbed where a short-term vegetative

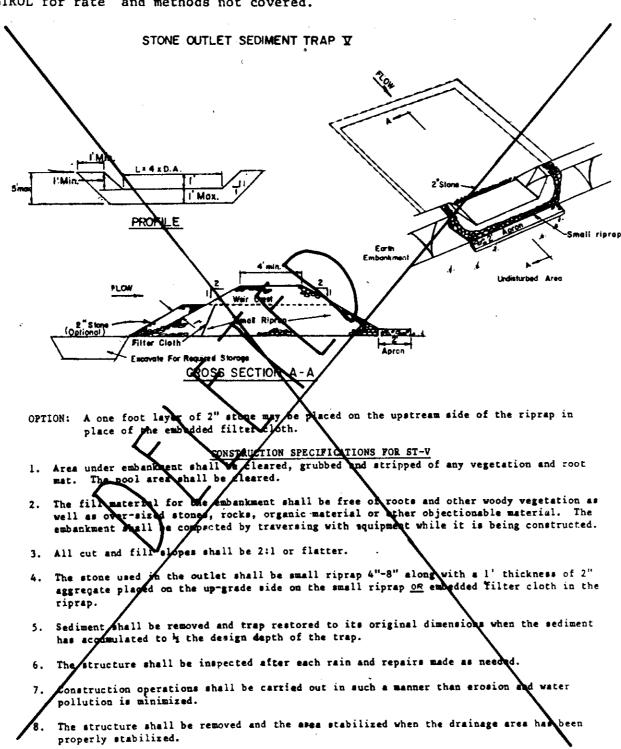
Seedbed Preparation: Loosen upper three inches of soil by raking, discing or other acceptable means before seeding, unless previously loosanad.

Soil Amendments: Apply 600 lbs per acre 10-10-10 fertilizer (14 lbs/1000 sq ft)

Seeding: For periods March 1 thru April 30 and from August 15 thru November 15, seed with 22 bushel per acre of annual rye (3.2 lbs/1000 sq ft). For the period May 1 thru August 14, seed with 3 lbs per acre of weeping lovegrass (.07 lbs/1000 sq ft). For ther period November 16 thru February 28, protect site by applying 2 tons per acre of well anchored straw mulch and seed as soon as possible in the spring, or use sod.

Mulching: Apply 1 to 2 tons per acre &70 to 90 lbs/1000 sq ft) of unrotted small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 218 gal per acre (5 gal/1000 sq ft) of emulsified asphalt on flat areas. On slopes, 8 ft or higher, use 348 gal per acre (8 gal/1000 sc ft) for anchoring.

Refer to the 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT' CONTROL for rate and methods not covered.



of the inspection agency shall be requested upon completion of installation of parimeter 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

CELTENT CONTROL MODES

- 1) A minimum of 24 hours notice has to give to the Howard County Office of Inspection and Peratta prior to the start of any construction. (992-2437)
- 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 Vol. 1. Chaper 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 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL for permanent seedings (Sec. 51) sod (Sec. 54), temporary seeding (Sec. 50) and mulching (Sec. 52.) Temporary scabilization 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:

Total Area of Site 366 Acres Area Disturbed .40 Acres Area to be roofed or paved .37 Acres Area to be vegetatively stabilized .02 Acres Total Cut 500 Cu. yds Total Fill ____ Cu. yds Offsite waste/borrow area location

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 DPW sediment control inspector.

10) On all sites with disturbed areas in excess of 2 acres, approval this initial approval by the inspection agency is made.

DEVELOPER'S CERTIFICATE

We certify that all development and/ or construction will be

done according to these plans, and that any responsible personnel involved in the construction project will have a Certificate of

Attendance at a Department of Environment Approved Training

SEDIMENT CONTROL

NOTES

Program for Control of Sediment and Erosion before beginning the

oroject. I also authorize periodic on-site inspection by the

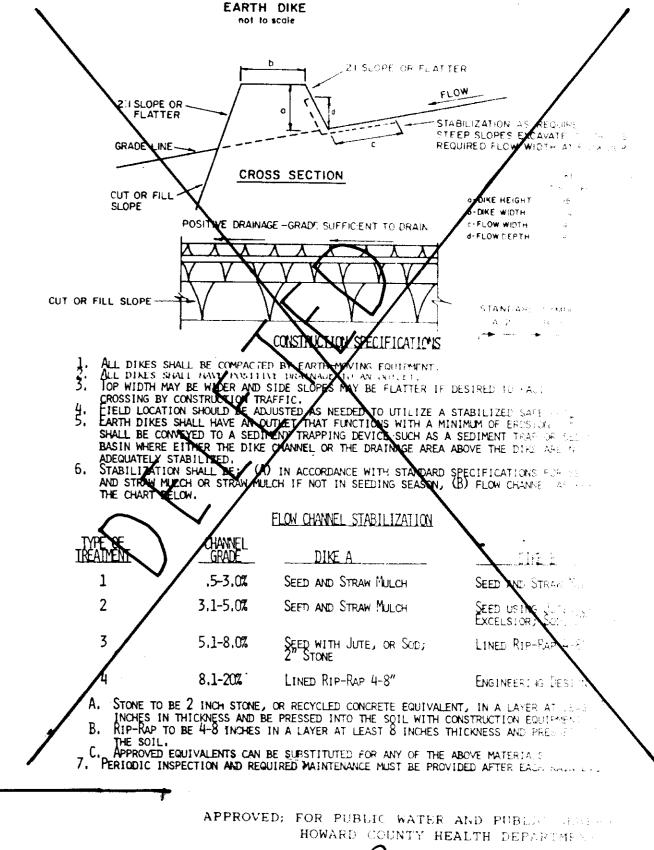
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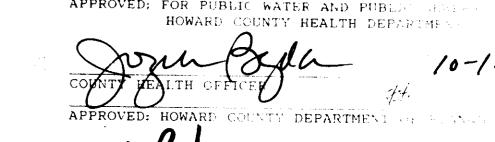
Refer to "1985 hardland Startes and Sediment Control for standard is each practice specified herein

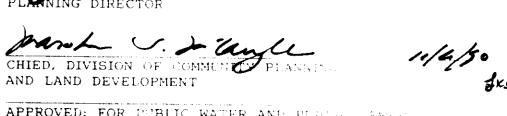
- 2) with the approval of the sedement possessed supposed municipality ments can and well be made to ensure the nearl of any sediment in sediment control practices require procur approval of the sed-more Jounte Soul Conservation 1 18th control inspector and the
- 3) At the end of each working day, all statement control practices we inspected and left in operational condition
- 4) Following initial soil disturbance or redesturbance, personent on temporary stabilization shall be completed within: a.) seven calenda. days as to the surface of all perimeter controls, dikes, swales, diteries perimeter slopes, and all slopes greater than 3 horizontal to 1 vertical (3:1) and b.) fourteen days as to all other disturbed or graded asked or the project site.
- 5) Any change to the grading proposed on this plan requires re-submania County Soil Conservation District for approval.
- 6) Dust control will be provided for all disturbed areas. Refer to 1983 Maryland Standards and Specifications for Soil Erosion and Sediment Control, pp 6201 and 62.02 for acceptable methods and specifications and dust control.
- 7) Any variation from the sequence of operations stated on this plan requires the approval of the sediment control inspector and the County Soil Conservation District prior to the initiation of the change
- 8) Excess cut or borrow material shall go to or come from, respectively. a site with an approved sediment control plan.

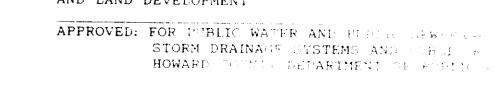
The following item may be used as applicable:

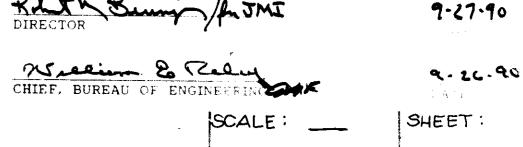
9) Refer to "Maryland's Guidelines to Waterway Construction" by the Water Resources Administration (WRA), dated January, 1986 for standard details and detailed specifications of each practice specified herein for waterway construction.

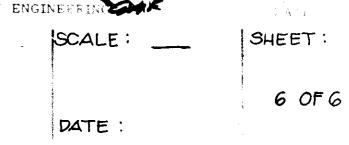












04-09-90

The all it is in Oilly, Maryland . 36146. 14

These plans have been reviewed for the Howard

hele plans for soil and sediment control meet

the requirements of the Howard Soil Conservation

APPLIED PHYSICS LABORATORY

THE JOHN HOPKINS UNIVERSITY

JOHNS HOPKINS ROAD HOWARD COUNTY MARYLAND

DATE: 4/18/90 TITLE Suprison

technical requirements for soil and sediment

Soil Conservation District and meet the

conti

BUILDING I - ADDITION

ENGINEER'S CERTIFICATE

the site conditions. This plan was prepared in accordance with

the requirements of the Howard Soil Conservation District.

I certify that this plan erosion and sediment control represents

a practical and workable plan based on my personal knewledge of

THE JOHNS HOPKINS UNIVERSITY APPLIED PHYSICS LABORATORY

11100 JOHNS HOPKING FOAD

LAUREL WARYLAND 20107

ioward Soil Conservation District.

REVISIONS

SDP- 90-194