

VICINITY MAP
SCALE - 1" = 200'-0"

ADJOINING PROPERTY OWNERS

① HARVEY HORTMAN JR.	5625	FURNACE AVE.	P47	M-2
② INGERSOL RAND EQUIPMENT CORP.	5618	MAIN ST.	P31	M-2
③ TOM PALACOROLLA	5673	FURNACE AVE.	P625	M-2
④ EUGENE D. TITUS & WIFE	5618	FURNACE AVE.	P626	M-2
⑤ EUGENE D. TITUS & WIFE	5626	FURNACE AVE.	P432	R-12
⑥ MURRAY B. SMITH & WIFE	5634	FURNACE AVE.	P618	R-12
⑦ GORDON E. ROYER	5642	FURNACE AVE.	P619	R-12
⑧ TRUSTEES - METH. EPS. CHURCH OF MELVILLE CHAPTER	5656	FURNACE AVE.	P433	R-12

ROAD OWNERSHIP:

FURNACE AVE. - COUNTY (HOWARD)
MAIN STREET - COUNTY (HOWARD)

SUB-DIVISION NAME		SECT./AREA	PARCEL NO.
WESTERN EXPRESS			782
PLAT# OR L/F	BLOCK#	TAX/ZONE MAP	ELEC. DIST
	4	38	1
WATER CODE		SEWER CODE	CENSUS TR.
A01		2080000	6012

ADDRESS CHART

PARCEL #	STREET ADDRESS
P-782	5635 FURNACE AVE.

GENERAL NOTES

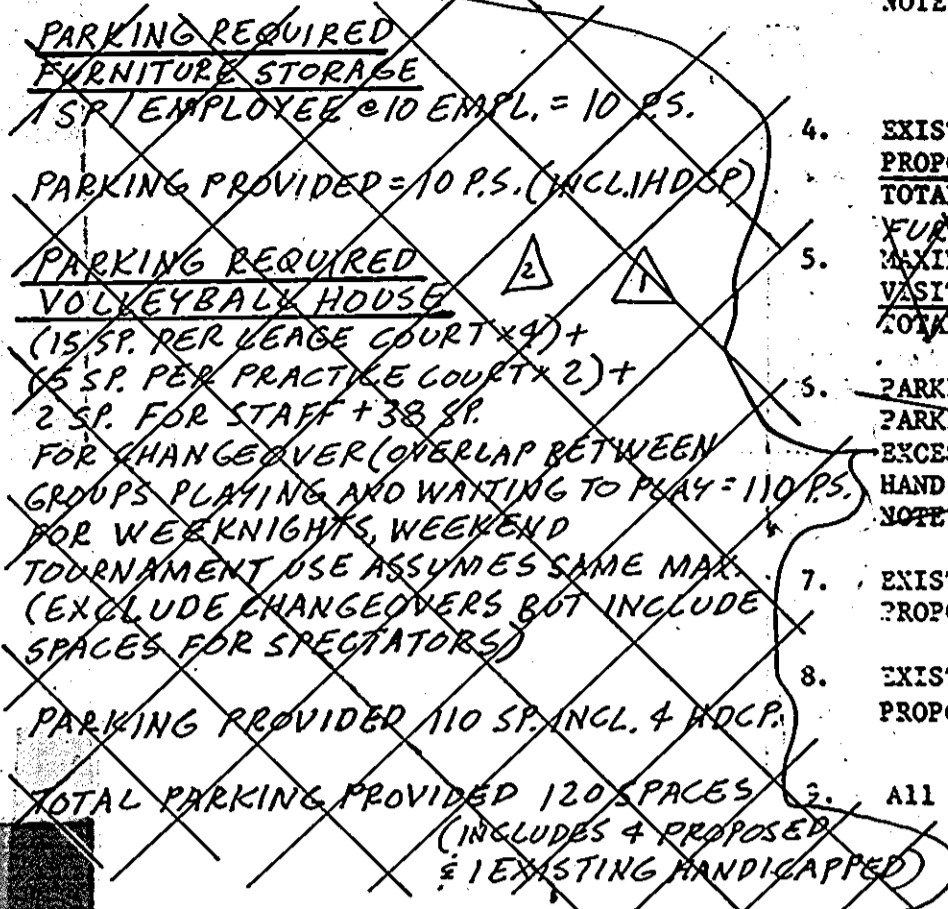
- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE HOWARD COUNTY DESIGN MANUAL VOL. IV 1a., STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION.
- THE CONTRACTOR SHALL VERIFY ALL EXISTING UTILITIES TO HIS OWN SATISFACTION BEFORE STARTING CONSTRUCTION.
- HANDICAP PARKING DETAILS SHALL BE IN ACCORDANCE WITH THE MARYLAND BUILDING CODE FOR THE HANDICAPPED, SECTION 5.01-7.05 AND DETAILS SHEET 3.
- THE CONTRACTOR OR DEVELOPER SHALL CONTACT THE CONSTRUCTION INSPECTION/SURVEY DIVISION, 24 HOURS PRIOR TO COMMENCEMENT OF WORK @ 992-2417 OR 792-1212.
- TOPOGRAPHY WAS COMPILED FROM ACTUAL FIELD SURVEY.
- ALL DRIVEWAYS TO BE PRIVATELY OWNED AND MAINTAINED.
- CLASS "C" TRENCH BEDDING SHALL BE USED UNDER ALL STORM DRAINS UNLESS SHOWN OTHERWISE.
- A STORM WATER MANAGEMENT WAIVER HAS BEEN REQUESTED FROM THE DIRECTOR OF PUBLIC WORKS.
- THERE WILL BE NO EXTENSION OF DOMESTIC WATER OR SEWER INTO THE PROPOSED BUILDING. EMPLOYEES WILL HAVE ACCESS TO EXISTING TOILET FACILITIES IN THE EXISTING BUILDING.
- THE PROPOSED ADDITION WILL NOT RESULT IN ANY ADDITIONAL EMPLOYEES SINCE THE OWNER IS PLANNING TO RELOCATE STORAGE FROM A 25,000 SF WAREHOUSE CURRENTLY LEASED FROM DICKIE MILES IN OELLA, BALTIMORE COUNTY.
- THERE WILL BE NO RETAIL SALES OF FURNITURE OR OTHER GOODS FROM THIS FACILITY.
- THE ENTIRE EXISTING LOT IS 8" OF COMPACTED CR6 CRUSHED LIME STONE WITH FINES. THE ONLY AREA THAT WILL RECEIVE FILL IS THE INSIDE OF THE BUILDING PERIMETER AND ALL OTHER AREAS SHALL ONLY BE FINE GRADED FOR PAVING &c. THERE WILL BE NO SUBSTANTIAL CHANGES IN CONTOUR OR DRAINAGE. ALL EXISTING VEGETATION AND TREES SHALL REMAIN INTACT AND UNDISTURBED.
- THIS SITE DEVELOPMENT PLAN IS AN ADDITION TO SDP 86-103.
- A STORM WATER MANAGEMENT WAIVER HAS BEEN GRANTED FOR THIS PROJECT BY THE HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS ON NOVEMBER 4, 1986.

NOTE: FOR PARKING CALCULATIONS SEE SHEET 1A

SITE ANALYSIS

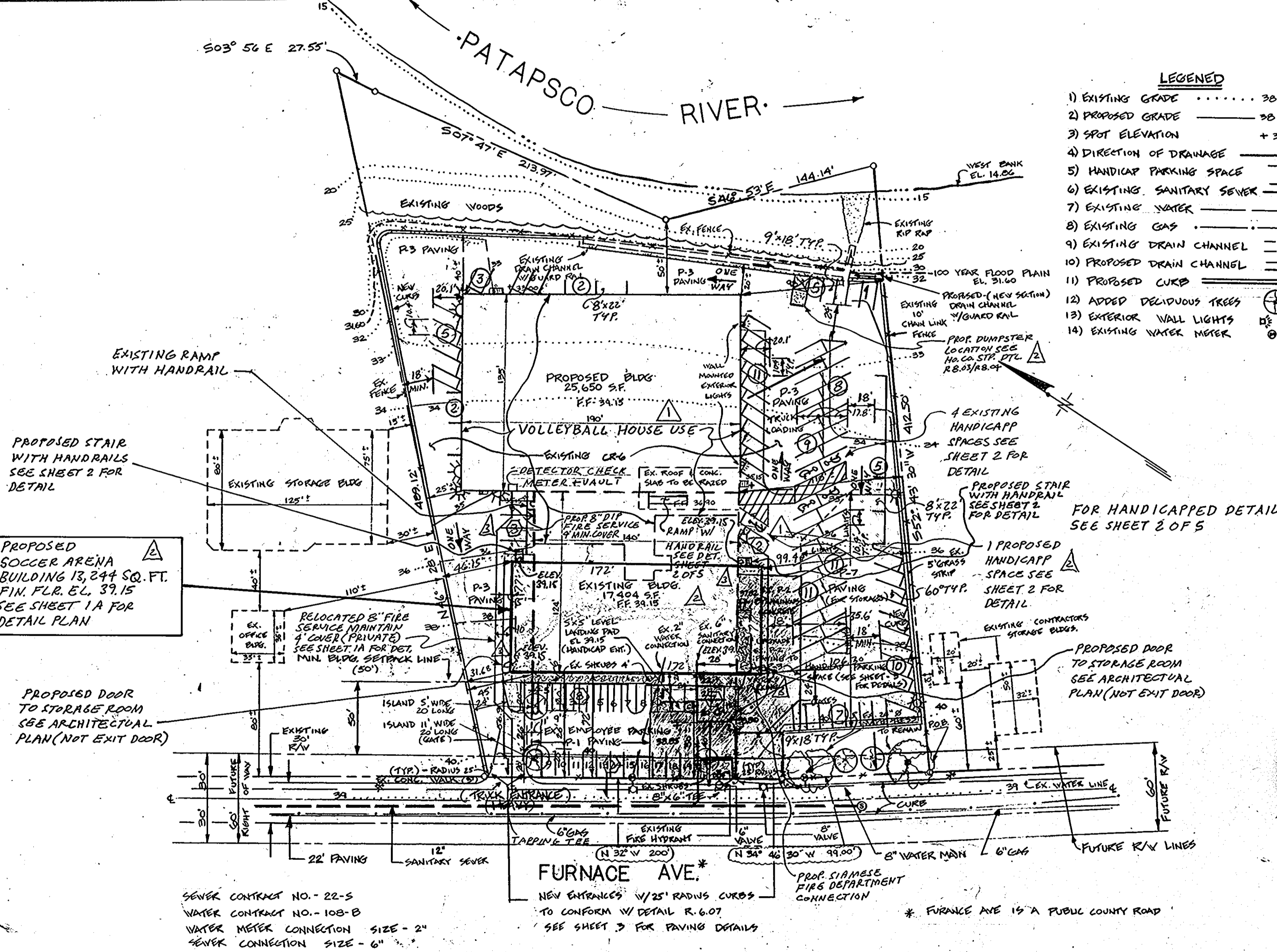
- AREA OF PARCEL 3.117 ACRES, 135,777sq. ft.
- CURRENT ZONING M-2
- EXISTING USE FURNITURE STORAGE VACANT VOLLEYBALL FACILITY / SOCCER ARENA
PROPOSED USE FURNITURE STORAGE / INDOOR VOLLEYBALL FACILITY / SOCCER ARENA
NOTE: OWNER IS PROPOSING TO RELOCATE 25,000 SF OF FURNITURE STORAGE NOW LEASED IN OELLA, MARYLAND TO THIS SITE, WHICH WILL NOT RESULT IN ANY ADDITIONAL EMPLOYEES
- EXISTING FLOOR SPACE 17,404 sq. ft.
PROPOSED FLOOR SPACE 25,650 sq. ft.
TOTAL FLOOR SPACE 43,054 sq. ft.
- EXISTING VOLUME 13,844 cu. ft.
PROPOSED VOLUME 13,844 cu. ft.
TOTAL VOLUME 27,688 cu. ft.
- PARKING REQUIRED 1 SPACE/EMP. 17 SPACES
PARKING PROVIDED 22 SPACES
EXCESS PARKING 5 SPACES
HANDICAP PARKING 1 SPACE
NOTE: (ALL PARKING IS EXISTING)
- EXISTING GREEN AREA 27,582 sq. ft. AND 20.3%
PROPOSED GREEN AREA 27,582 sq. ft. AND 20.3%
- EXISTING BUILDING COVERAGE 43,054 sq. ft. AND 31.7%
PROPOSED BUILDING COVERAGE 43,054 sq. ft. AND 31.7%

All parking and drives are private, and Furnace Ave is a County Road



LEGEND

- EXISTING GRADE
- PROPOSED GRADE
- SPOT ELEVATION
- DIRECTION OF DRAINAGE
- HANDICAP PARKING SPACE
- EXISTING SANITARY SEWER
- EXISTING WATER
- EXISTING GAS
- EXISTING DRAIN CHANNEL
- PROPOSED DRAIN CHANNEL
- PROPOSED CURB
- ADDED DELICIOUS TREES
- EXTERIOR WALL LIGHTS
- EXISTING WATER METER



PROPOSED SOCCER ARENA BUILDING 13,244 SQ. FT. FIN. FLR. EL. 39.15 SEE SHEET 1A FOR DETAIL PLAN

PROPOSED DOOR TO STORAGE ROOM SEE ARCHITECTURAL PLAN (NOT EXIT DOOR)

SEWER CONTRACT NO. - 22-5
WATER CONTRACT NO. - 108-B
WATER METER CONNECTION SIZE - 2"
SEWER CONNECTION SIZE - 6"

LIGHTING LEGEND
STREET LIGHTS * (EXIST.)
ELECTRIC LIGHT POLES *
BUILDING PERIMETER LIGHT *
EXIST. HIGH INTENSITY LIGHTS OR HALOGENS *
SECURITY SPOTLIGHTS SETS *

ALL OUTDOOR LIGHTING SHALL COMPLY WITH THE REQUIREMENTS OF ZONING SECTION 137.

ALL FEATURES SHOWN PROPOSED ARE NOW EXISTING, EXCEPT PARKING STRIPING.

REVISIONS

- ADDED STAIRWAYS WITH HANDRAILS AND DOORS TO STORAGE ROOMS AT EACH SIDE OF PROPOSED SOCCER ARENA BUILDING. ADDED EXISTING RAMP WITH HANDRAILS AND REVISED PARKING ACCORDINGLY. BY GWS DATED 01/08/02.

REVISIONS

- 01/08/02 RESTRIPTED PARKING LOT REVISED USE TO INDOOR VOLLEYBALL FACILITY BY G.W.S.
- 08/06/03 ADDED SOCCER ARENA BUILDING REVISED PARKING AND PAVING ACCORDINGLY. REVISED PARKING CALCULATIONS AND SITE ANALYSIS ACCORDINGLY BY GWS.



DEVELOPER'S BUILDER'S CERTIFICATE
I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN FOR EROSION AND CONTROL AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A D.N.R. 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 OR THEIR AUTHORIZED AGENTS, AS ARE DEEMED NECESSARY.
Arthur W. Gessert Sr. 3-5-87
SIGNATURE OF DEVELOPER/BUILDER DATE

ENGINEER'S CERTIFICATE
I HEREBY 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.
Steven K. Broyles P.E./No. Sc. 914429 3-5-87
SIGNATURE OF ENGINEER DATE

REVIEWED FOR HOWARD S.C.D. AND METS TECHNICAL REQUIREMENTS...
Stephen L. Huber 3-18-87
DATE
THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
Stephen L. Huber 3/18/87
HOWARD S.C.D. DATE

APPROVED
DIVISION OF LAND DEVELOPMENT & ZONING ADMINISTRATION
HOWARD COUNTY, MARYLAND
DATE 1-30-87
M. J. G. / J. M. M.

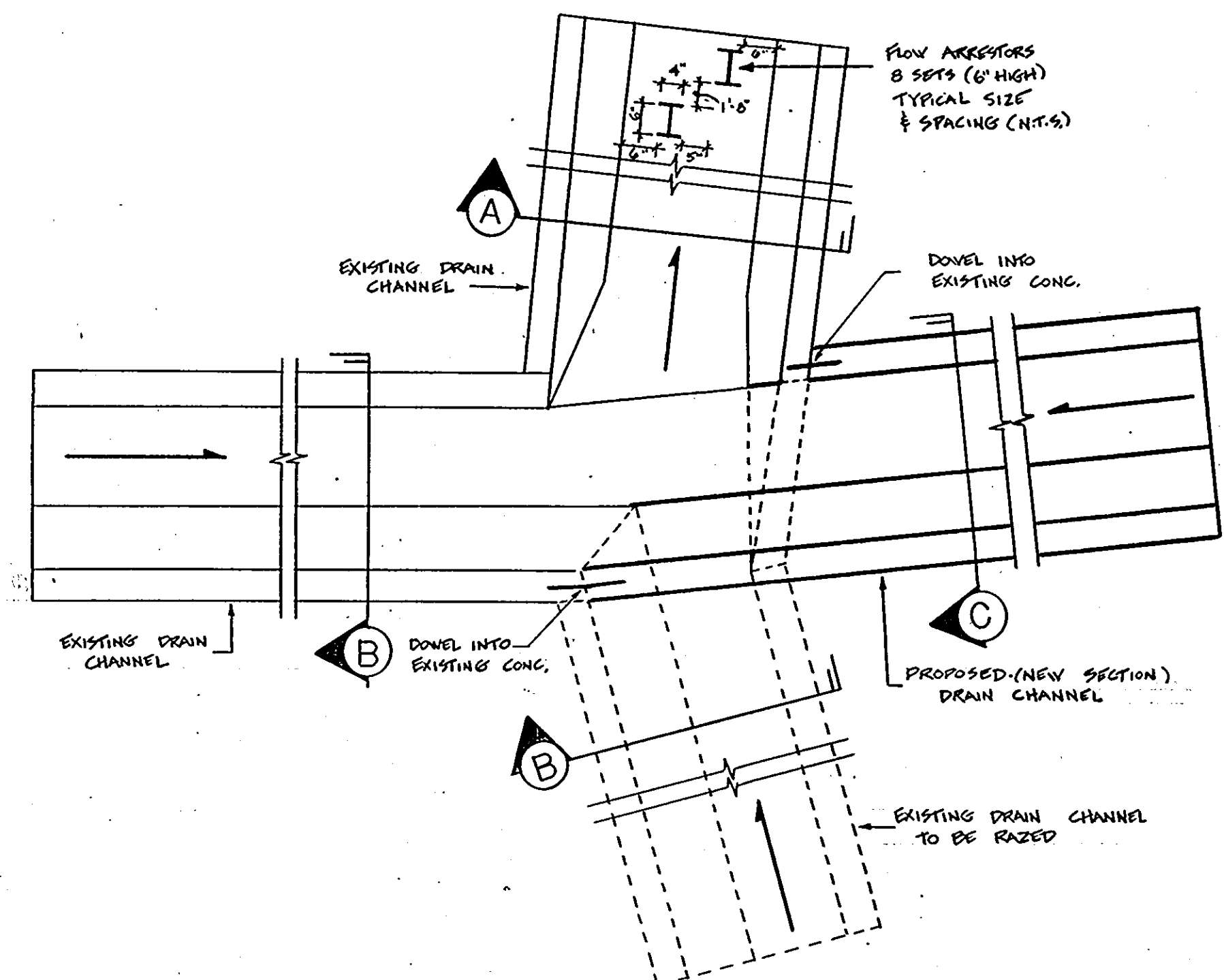
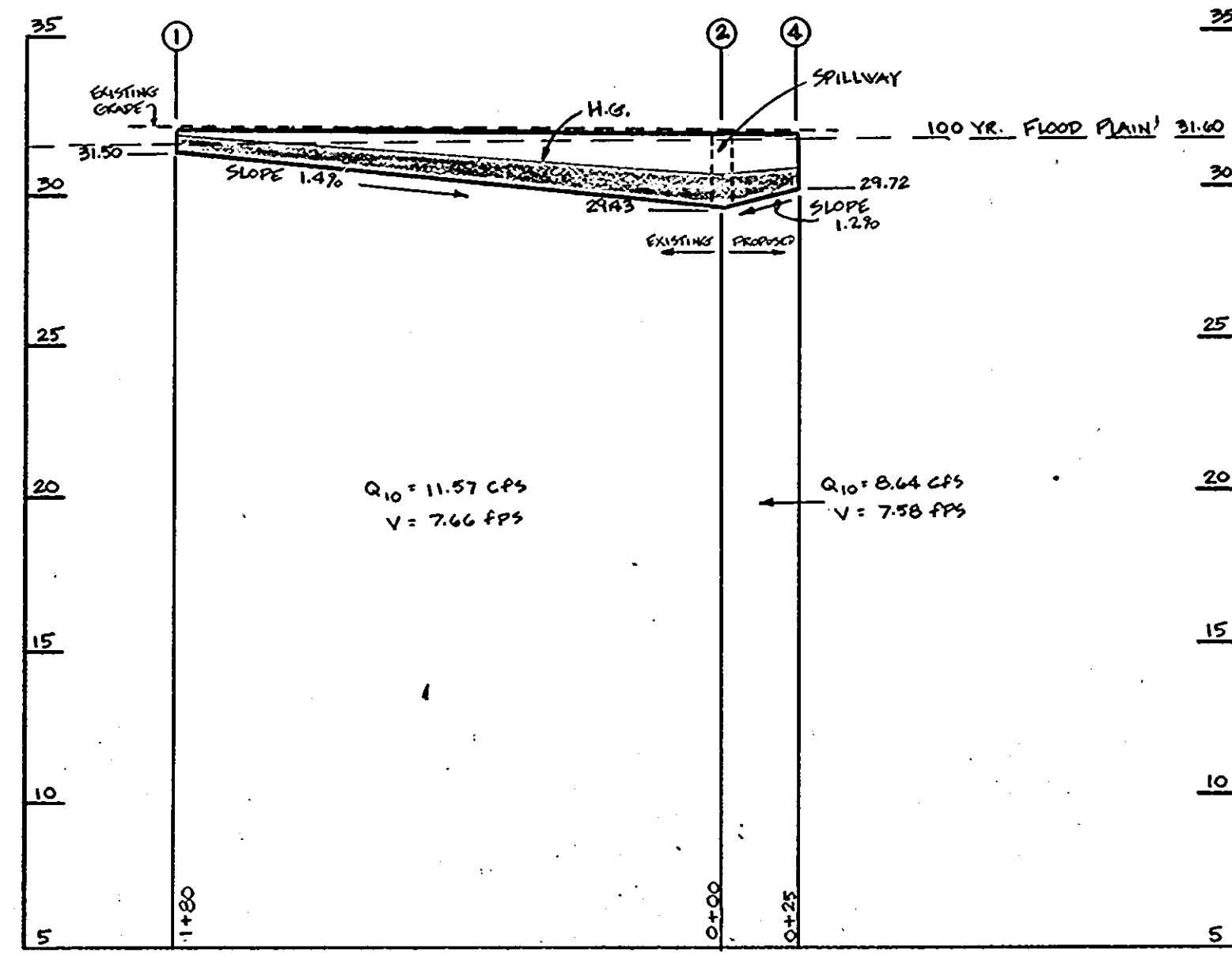
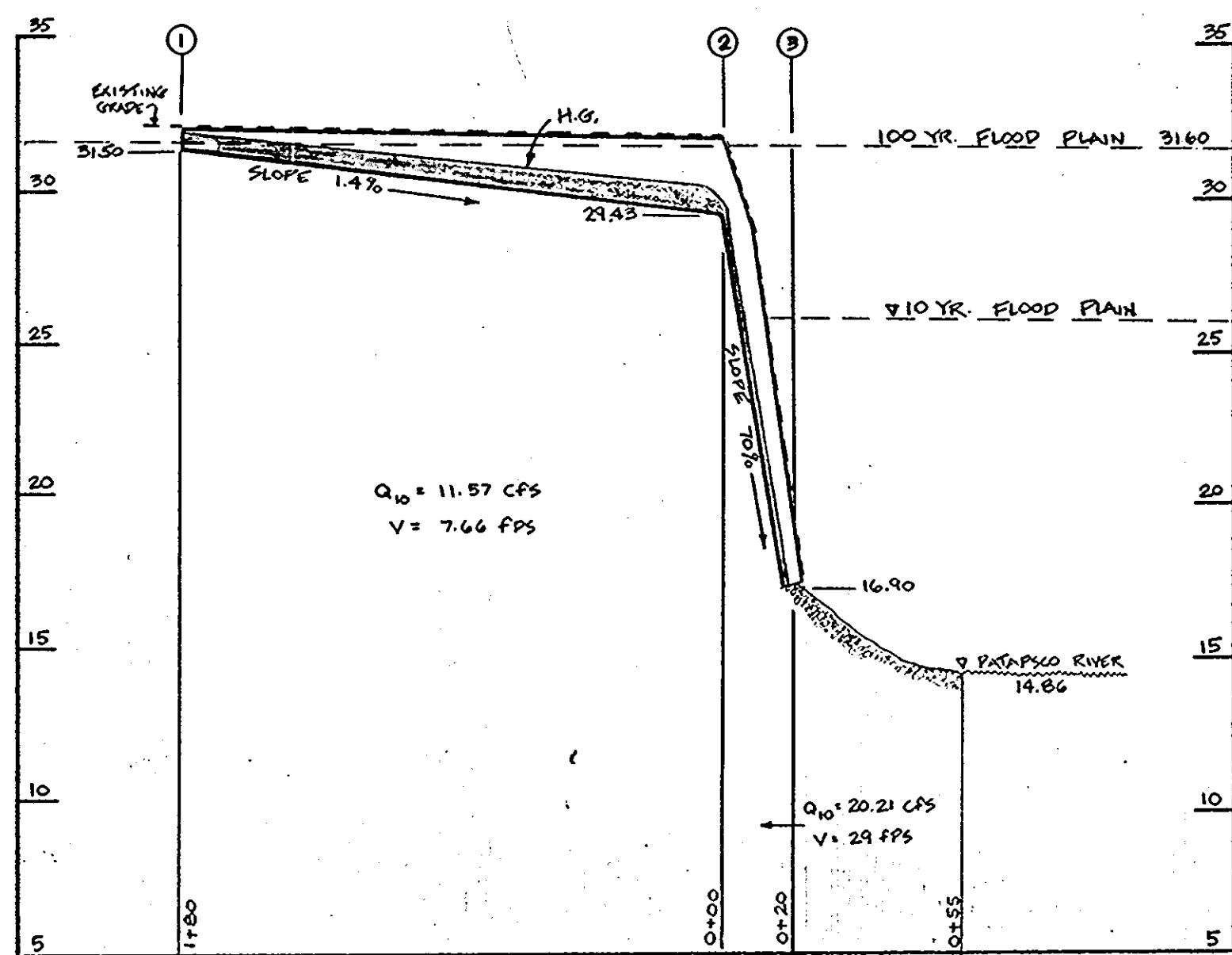
APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT
John W. Gessert Sr. 3-24-87
DATE
APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING
John W. Gessert Sr. 3-26-87
DATE
APPROVED: DIVISION OF LAND DEVELOPMENT & ZONING ADMINISTRATION
John W. Gessert Sr. 3-26-87
DATE

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
John W. Gessert Sr. 3-23-87
DATE
DIRECTOR
John W. Gessert Sr. 3-20-87
DATE
CHIEF BUREAU OF ENGINEERING
John W. Gessert Sr. 3-20-87
DATE

SUBDIVISION NAME	SECT./AREA	LOT/ PARCEL NO.
WESTERN EXPRESS		782
PLAT NO	BLOCK/ ZONE	TAX MAP
4	M-2	38
WATER CODE		SEWER CODE
A01		2080000

DEED REFERENCE - LIBER: 1104 / FOLIO: 020
PROPOSED ADDITION OF 25,650 SF FOR A FURNITURE STORAGE FACILITY

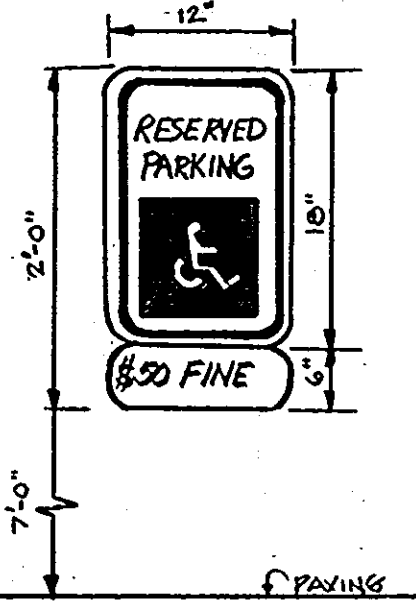
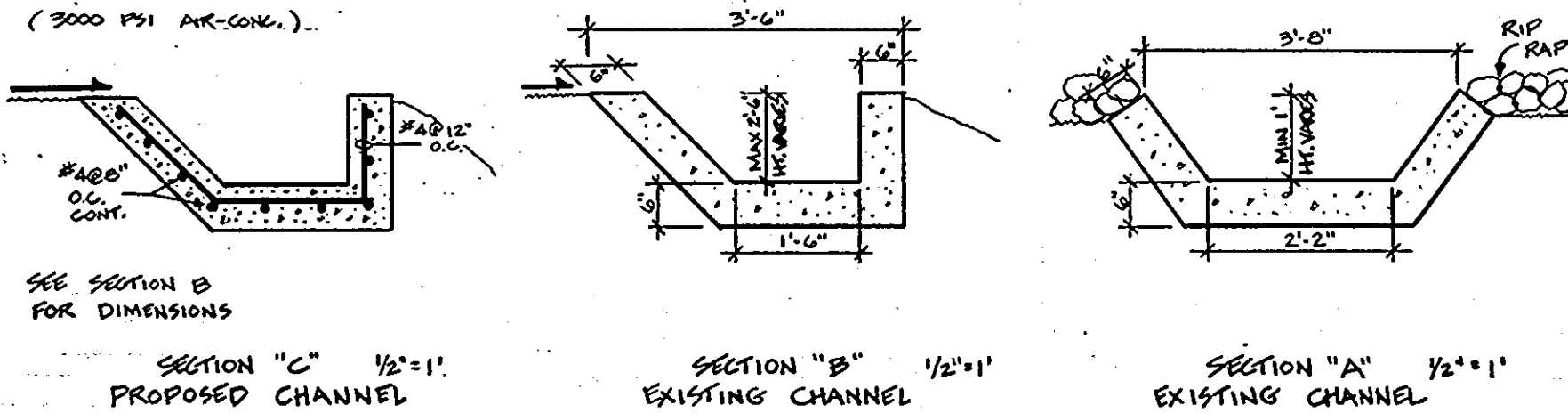
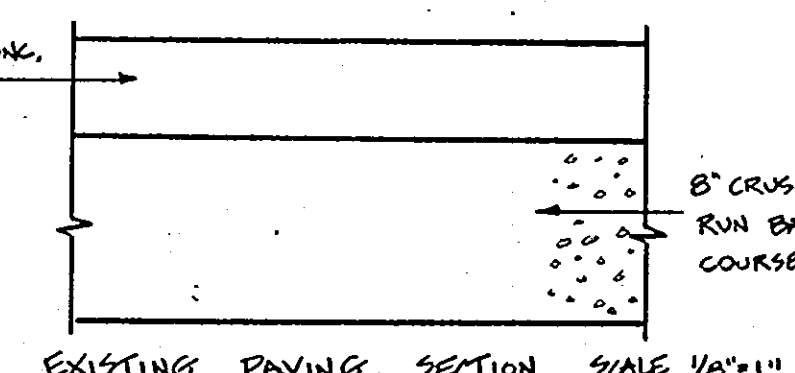
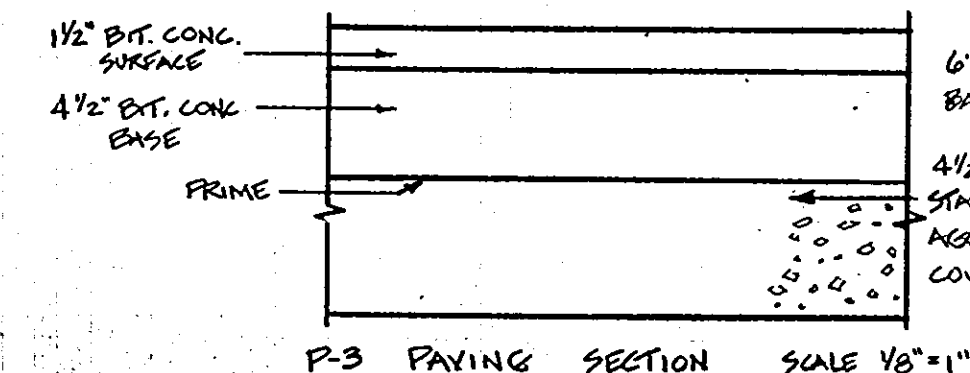
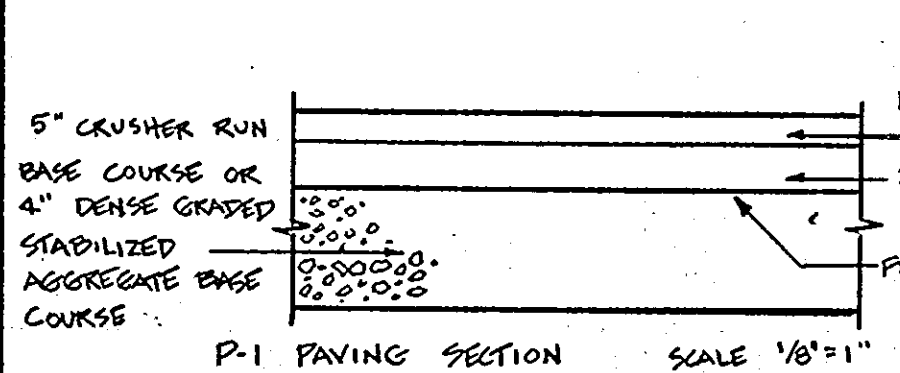
APPLICANT OWNER:
ARTHUR W. GESSERT SR.
302 N. BEECHWOOD AVE.
CATONSVILLE MD. 21228
OWNER DEVELOPER DATE



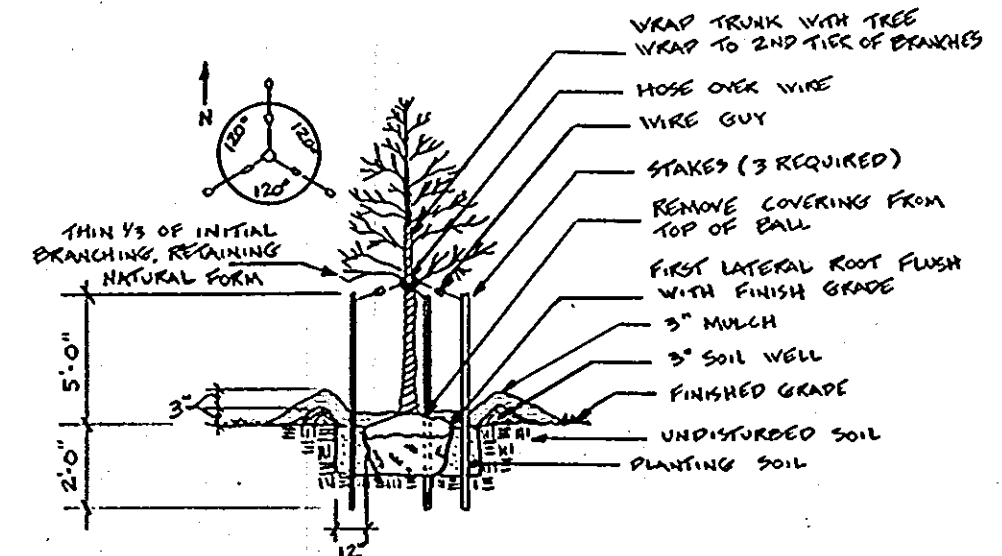
EXISTING STORM DRAIN PROFILE
SCALE: HORIZ. - 1"=50', VERT. - 1"=5'

PROPOSED STORM DRAIN PROFILE
SCALE: HORIZ. - 1"=50', VERT. - 1"=5'

PLAN VIEW OF THE EXISTING AND PROPOSED DRAIN CHANNEL CONNECTIONS
SCALE: 1/2"=1'

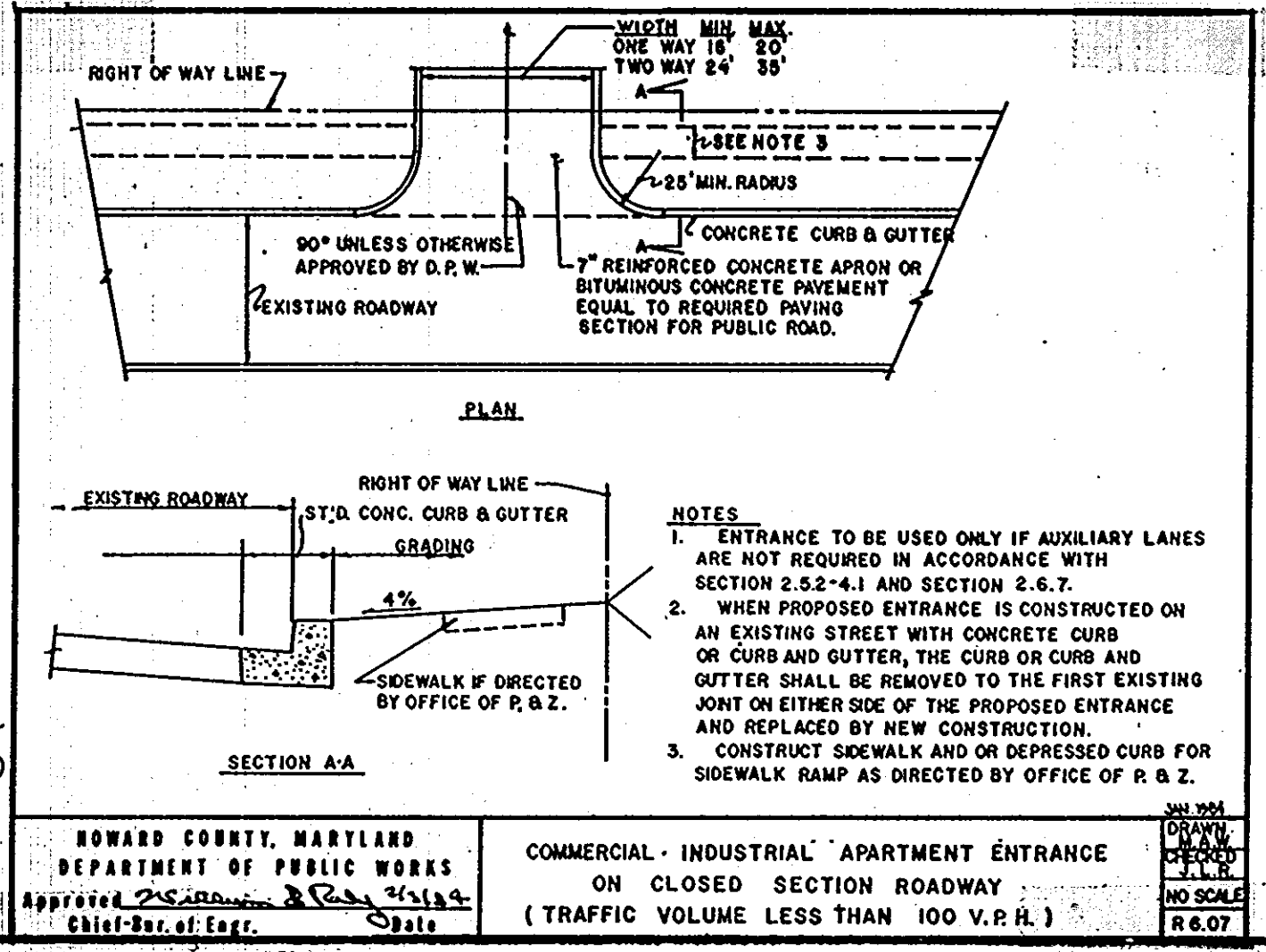
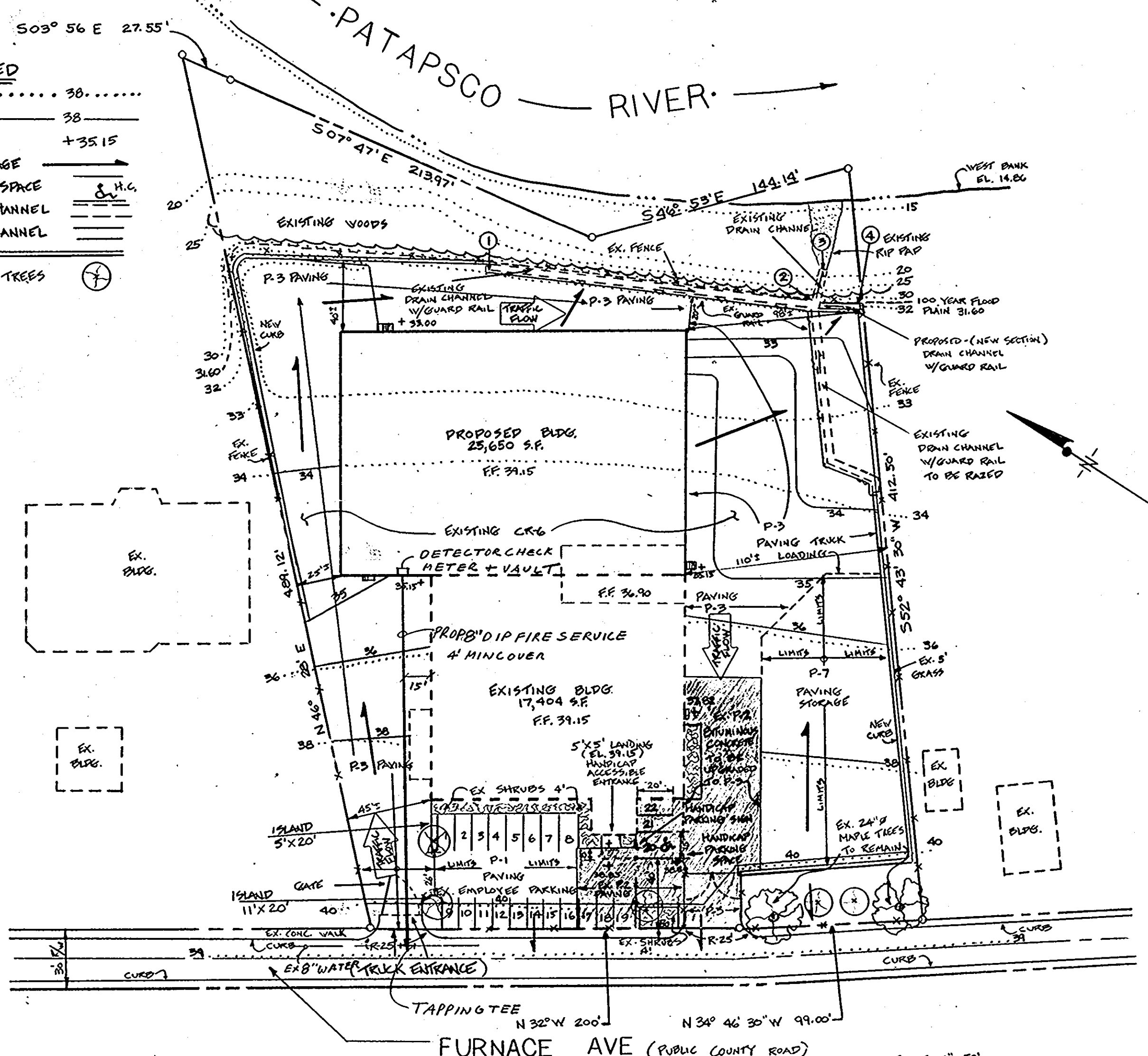


NOTES: 1. SIGN SHALL MEET DESIGN STANDARDS OF THE FEDERAL H.V.Y. ADMINISTRATION
2. ONE REQUIRED PER PARKING SPACE ATTACHED TO FENCE AS SHOWN



DECIDUOUS TREE DETAIL (N.T.S.)

- LEGEND
- 1) EXISTING GRADE 30.....
 - 2) PROPOSED GRADE 38.....
 - 3) SPOT ELEVATION +35.15
 - 4) DIRECTION OF DRAINAGE →
 - 5) HANDICAP PARKING SPACE ♿
 - 6) EXISTING DRAIN CHANNEL ———
 - 7) PROPOSED DRAIN CHANNEL ———
 - 8) PROPOSED CURB ———
 - 9) ADDED DECIDUOUS TREES ⊕



HOWARD COUNTY, MARYLAND
DEPARTMENT OF PUBLIC WORKS
COMMERCIAL-INDUSTRIAL APARTMENT ENTRANCE
ON CLOSED SECTION ROADWAY
(TRAFFIC VOLUME LESS THAN 100 V.P.H.)

DEVELOPER'S/BUILDER'S CERTIFICATE
I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN FOR EROSION AND CONTROL AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A D.H.R. 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 OR THEIR AUTHORIZED AGENTS, AS ARE DEEMED NECESSARY.
Arthur W. Gessert Sr. 3-5-87
SIGNATURE OF DEVELOPER/BUILDER DATE

ENGINEER'S CERTIFICATE
I HEREBY 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.
Steven K. Broyles 9-5-87
STEVEN K. BROYLES P.E., No. ST.#14429 DATE

REVIEWED FOR HOWARD S.C.D. AND MEETS TECHNICAL REQUIREMENTS
Cynthia M. Nelson 3-18-87
U.S. SOIL CONSERVATION SERVICE DATE
THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT
Stephen L. Nelson 3-18-87
HOWARD S.C.D. DATE

APPROVED
DIVISION OF LAND DEVELOPMENT & ZONING ADMINISTRATION
HOWARD COUNTY, MARYLAND
DATE 1-30-87
M. J. FUM

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT
Joseph B. B... 3-24-87
COUNTY HEALTH OFFICER DATE
APPROVED HOWARD COUNTY OFFICE OF PLANNING & ZONING
Thomas J. Davis 3-25-87
DIRECTOR DATE
John W. M... 3-26-87
CHIEF DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION DATE

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
DIRECTOR DATE
CHIEF BUREAU OF ENGINEERING DATE

PLAT NO.	BLOCK	ZONE	TAX MAP	ELEC. DIST.	CENSUS TR.
	4	M-2	38	ONE	6012
WATER CODE	SEWER CODE				
A01	2080000				

DEED REFERENCE - LIBER: 1104 / FOLIO: 020
PROPOSED ADDITION OF 25,650 SF FOR A FURNITURE STORAGE FACILITY
APPLICANT OWNER:
ARTHUR W. GESSERT SR.
302 N. BEECHWOOD AVE.
CATONSVILLE, MD. 21228
OWNER DEVELOPER DATE



Engineering Construction Corp.
Engineers - Surveyors
2227 Monocacy Road
Baltimore, Maryland, 21221
ph.: 301-574-2227

WESTERN EXPRESS
HOWARD COUNTY, MARYLAND
PROJECT: PROPOSED BUILDING ADDITION TO SDP-86-105
DATE: JULY 10, 1986
SCALE: 1"=50'
DWG. BY: M.R.S.

FILE NUMBER	REVISIONS
	9-25-86
	11-26-86
	2-17-87
	2-27-87 (S-87)

DRAWING 3
SHEET 3 OF 5
3
STORM DRAINAGE PLAN

PERMANENT SEEDING NOTES

Seedbed Preparation: Loosen upper 3 inches of soil by raking, discing or other acceptable means before seeding.

Soil Amendments: Use one of the following schedules:

- 1) Preferred - Apply 2 tons per acre dolomitic limestone (92 lbs./1000 sq. ft.) and 600 lbs. per acre 10-10-10 fertilizer (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 urea form 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 thru 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 1 1/2 to 2 tons per acre (70 to 90 lbs./1000 sq. ft.) of rotted 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.

Maintenance - Inspect all seeded areas and make needed repairs, replacements and reseeding.

TEMPORARY SEEDING NOTES

Seedbed Preparation: Loosen upper 3 inches of soil by raking, discing or other acceptable means before seeding.

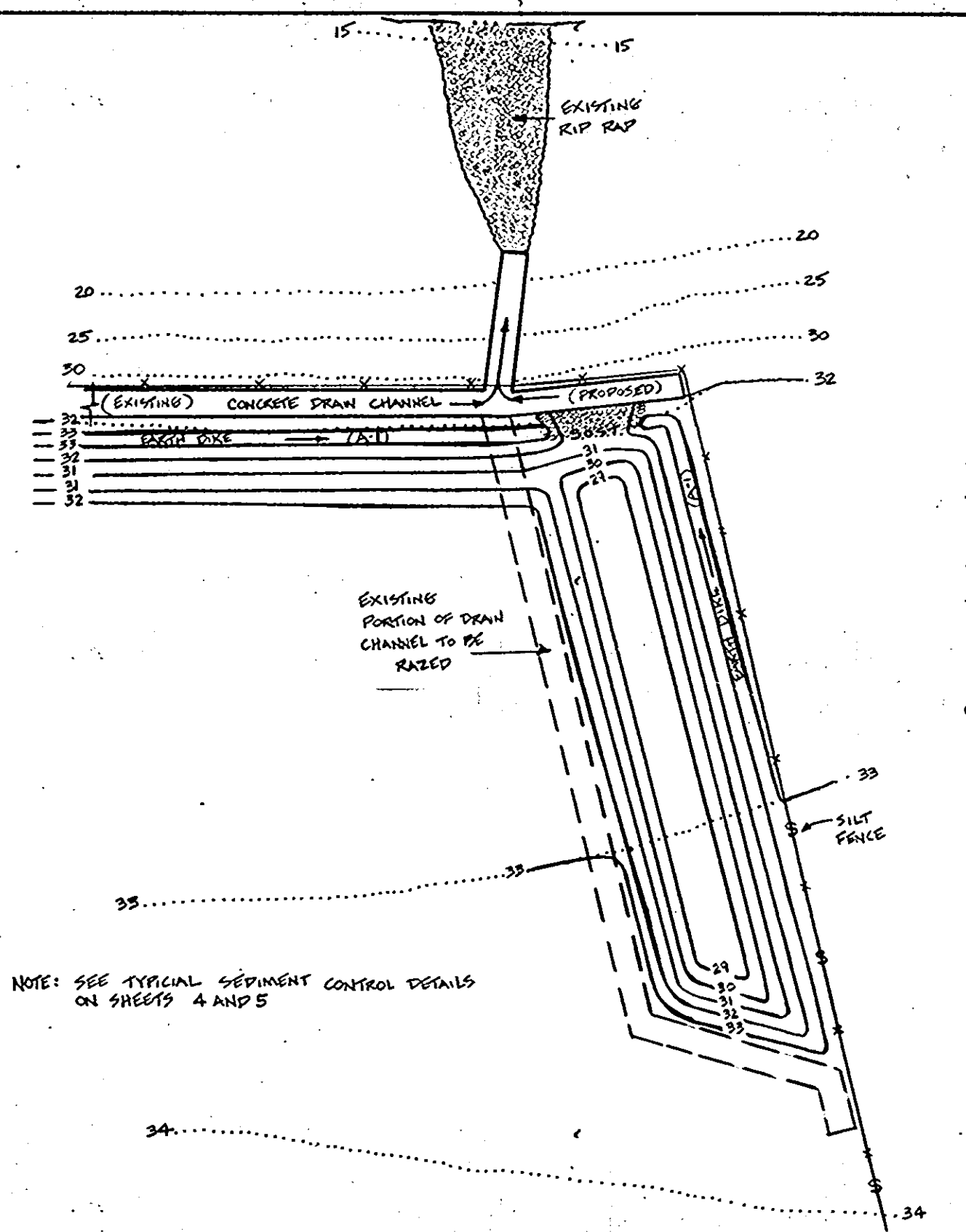
Soil Amendments: Apply 600 lbs. per acre 10-10-10 fertilizer (14 lbs./1000 sq. ft.)

Seeding - For periods March 1 thru April 30 and from August 15 thru Nov. 15, seed with 2 1/2 bu. 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 the 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 1/2 to 2 tons per acre (70-90 lbs./1000 sq. ft.) of rotted 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 sq. ft.) for anchoring.

CONSTRUCTION SEQUENCE

Days	1	2	3	4	5	6	7	8	9	10	11	12	13	14
1	Notify Howard County Department of Inspections 48 hours prior to beginning work													
2	Install stabilized construction entrance													
3	Construct new drain channel and stone outlet sediment trap													
4	Install silt fence, perimeter dike swale and temporary swale													
5	Raze existing drain channel as noted													
6	Compact fill, construct building, fine grade and paving to extent as possible													
7	Stabilize remaining areas													
8	After obtaining permission of sediment control inspector, remove sediment control devices													
9	Finish fine grading and paving on removed sediment control areas and existing lot with stone base													



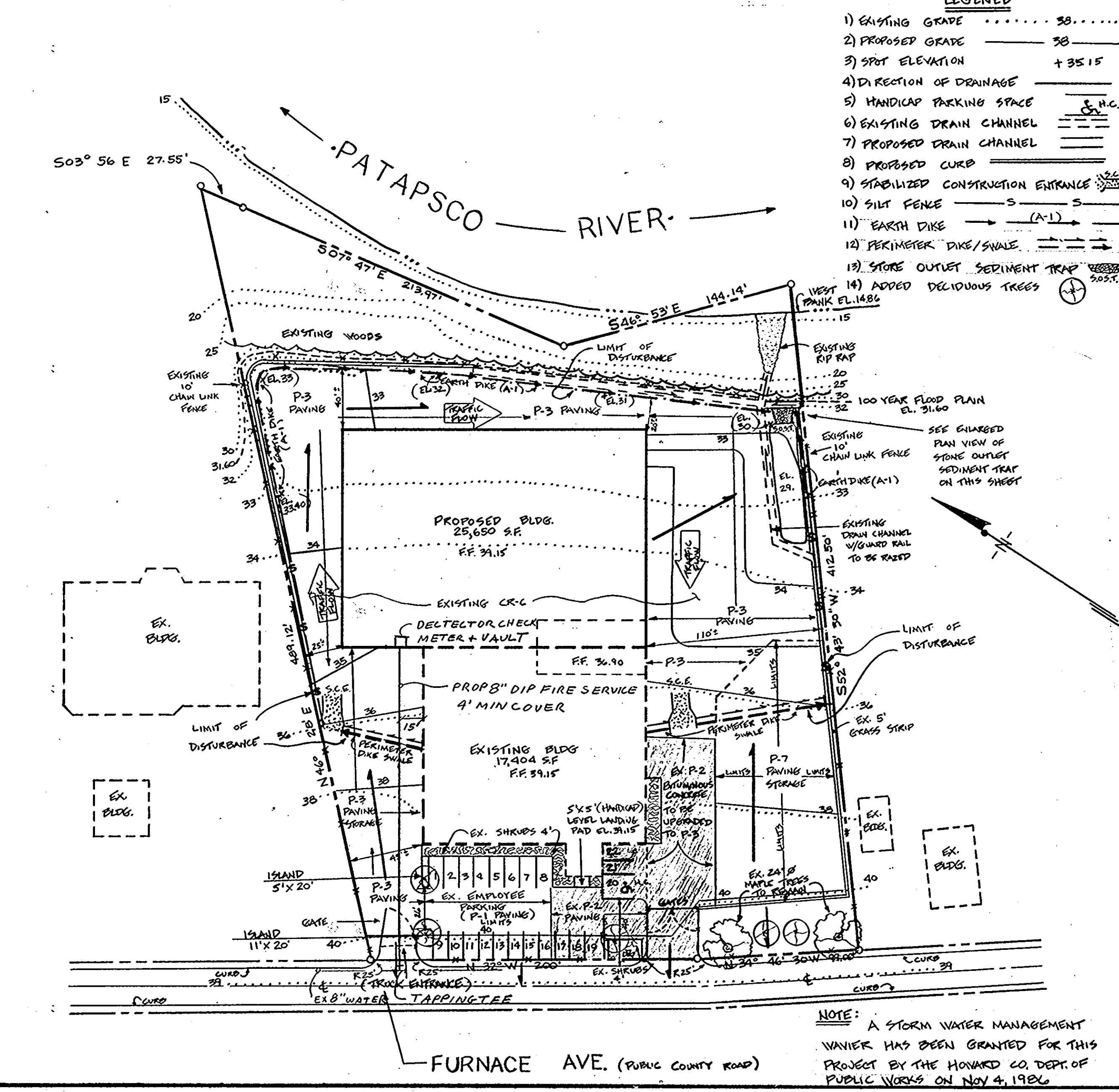
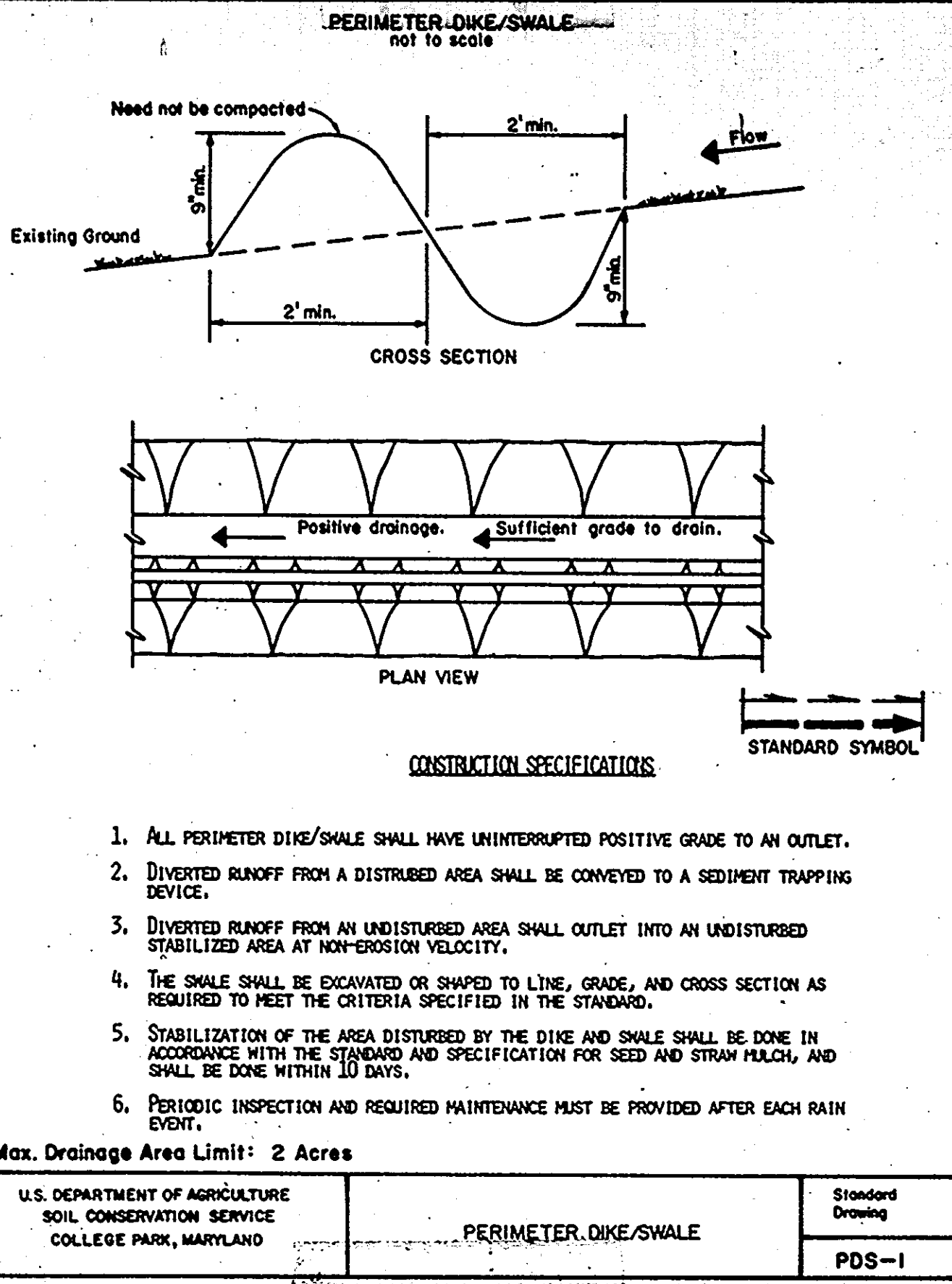
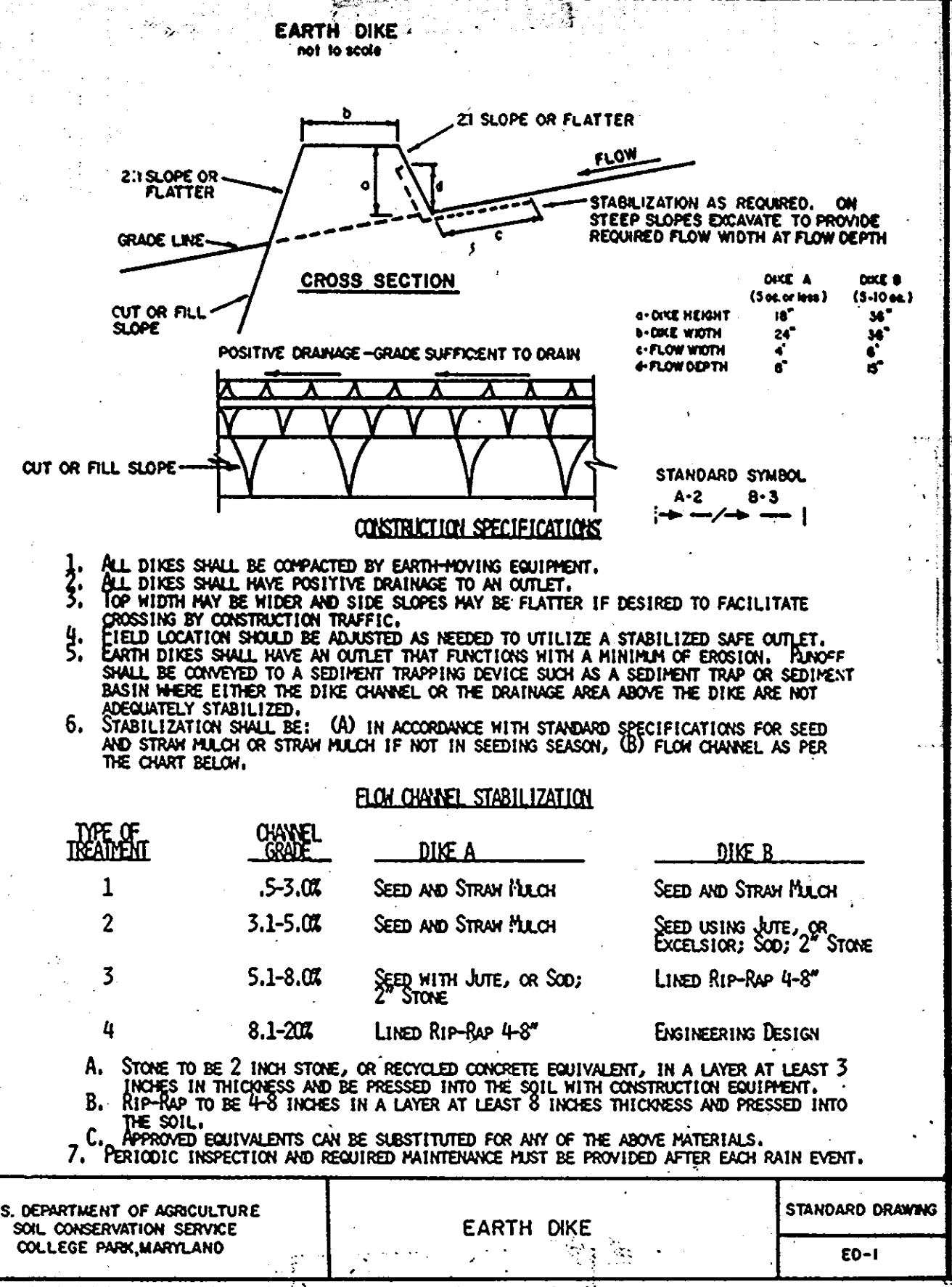
PLAN VIEW OF STONE OUTLET SEDIMENT TRAP

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. (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. 71, Chapter 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 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:

Total Area of Site	3.17 Acres
Area Disturbed	1.65 Acres
Area to be roofed or paved	1.48 Acres
Area to be vegetatively stabilized	.02 Acres
Total Cut	0 Cu. yds
Total Fill	5000.0 Cu. yds

 Offsite waste/borrow area location: BELL GROVE COMMERCIAL FILL SALES, A.A. CO. MD.
- 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 DPW 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.



DEVELOPER'S/BUILDER'S CERTIFICATE

I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN FOR EROSION AND SEDIMENT CONTROL AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A D.N.R. 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 OR THEIR AUTHORIZED AGENTS, AS ARE DEEMED NECESSARY.

John W. Hessel Sr. 3-5-87
 SIGNATURE OF DEVELOPER/BUILDER DATE

ENGINEER'S CERTIFICATE

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Steven K. Broyles 3-18-87
 SIGNATURE DATE
 STEVEN K. BROYLES P.E. No. 714429 DATE

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

James M. ... 3-18-87
 U.S. SOIL CONSERVATION SERVICE DATE

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

Stephen L. ... 3/18/87
 HOWARD S.C.D. DATE

APPROVED
 DIVISION OF LAND DEVELOPMENT &
 ZONING ADMINISTRATION
 HOWARD COUNTY, MARYLAND
 DATE 1-30-87

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

John W. Hessel Sr. 2-24-87
 COUNTY HEALTH OFFICER DATE

APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING

Thomas J. ... 3-26-87
 DIRECTOR DATE

John W. Hessel Sr. 3-26-87
 CHIEF DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION DATE

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

James M. ... 3-23-87
 DIRECTOR DATE

John W. Hessel Sr. 3-23-87
 CHIEF BUREAU OF ENGINEERING DATE

SUBDIVISION NAME: WESTERN EXPRESS
 LOT/PARCEL NO.: 782

PLAT NO. BLOCK ZONE TAX MAP ELEC. DIST. CENSUS TR. 4 M-2 38 ONE 6012

WATER CODE: A01 SEWER CODE: 208000

DEED REFERENCE - LIBR: 1109 / FOLIO: 020
 PROPOSED ADDITION OF 25,650 SF FOR A FURNITURE STORAGE FACILITY

APPLICANT OWNER:
 ARTHUR V. GESSERT SR
 302 N. BEECHWOOD AVE
 CATONSVILLE, MD 21220

OWNER DEVELOPER DATE

WESTERN EXPRESS
 HOWARD COUNTY, MARYLAND
 PROJECT: PROPOSED BUILDING ADDITION TO SDP-86-105
 DATE: JULY 10, 1986
 SCALE: 1"=50'

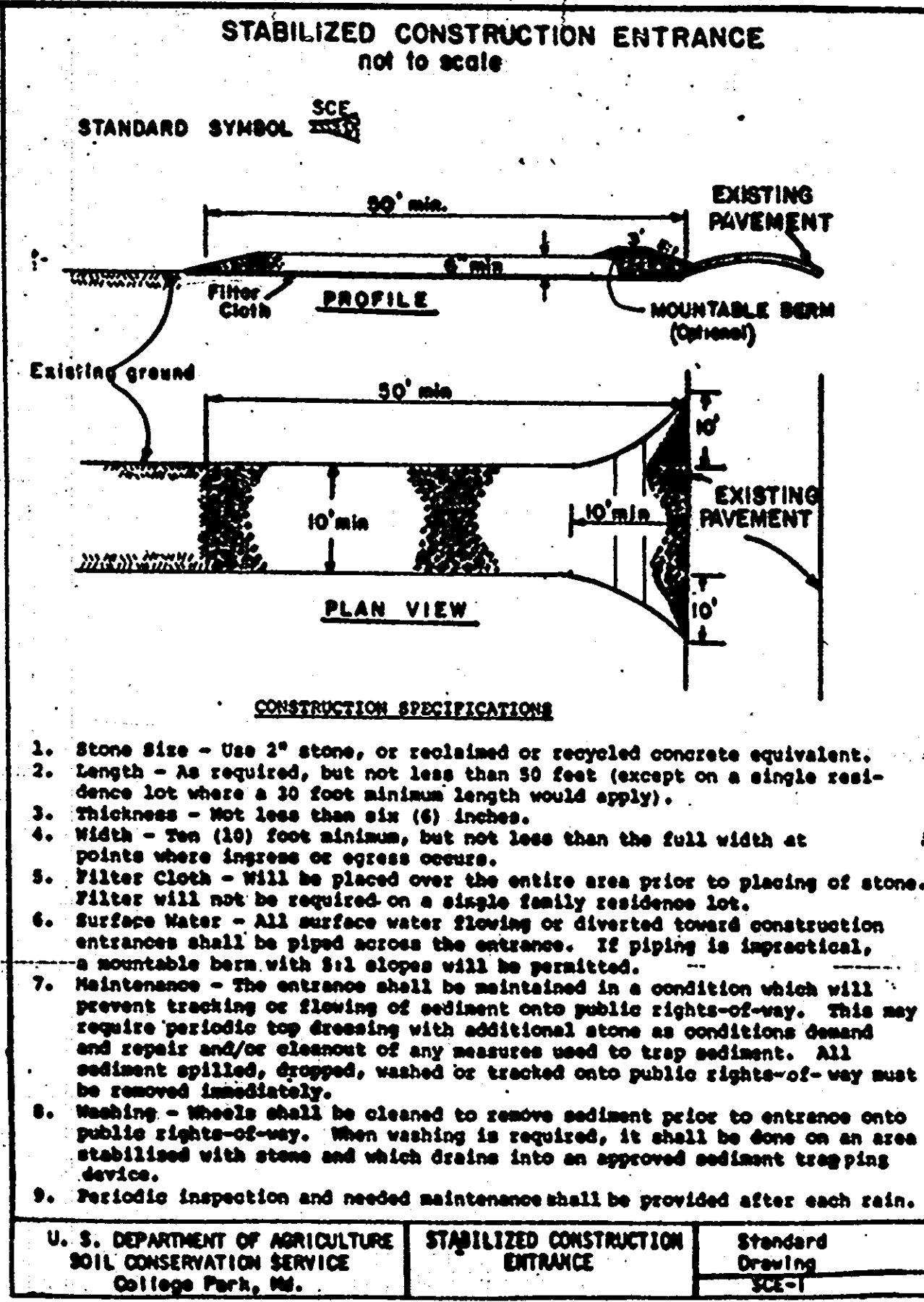
Engineering Construction Corp.
 Engineers - Surveyors
 2227 Monocacy Road
 Baltimore, Maryland, 21221
 ph.: 301-574-2227

FILE NUMBER: _____
 REVISIONS:
 1 9-25-86
 2 11-24-86
 3 2-17-87
 4 2-27-87/5/8/88

DRAWING 4
 SHEET 4065

4

SOIL EROSION CONTROL PLAN



Maryland SCS/WRA April 1983

Criteria for Filter Cloth

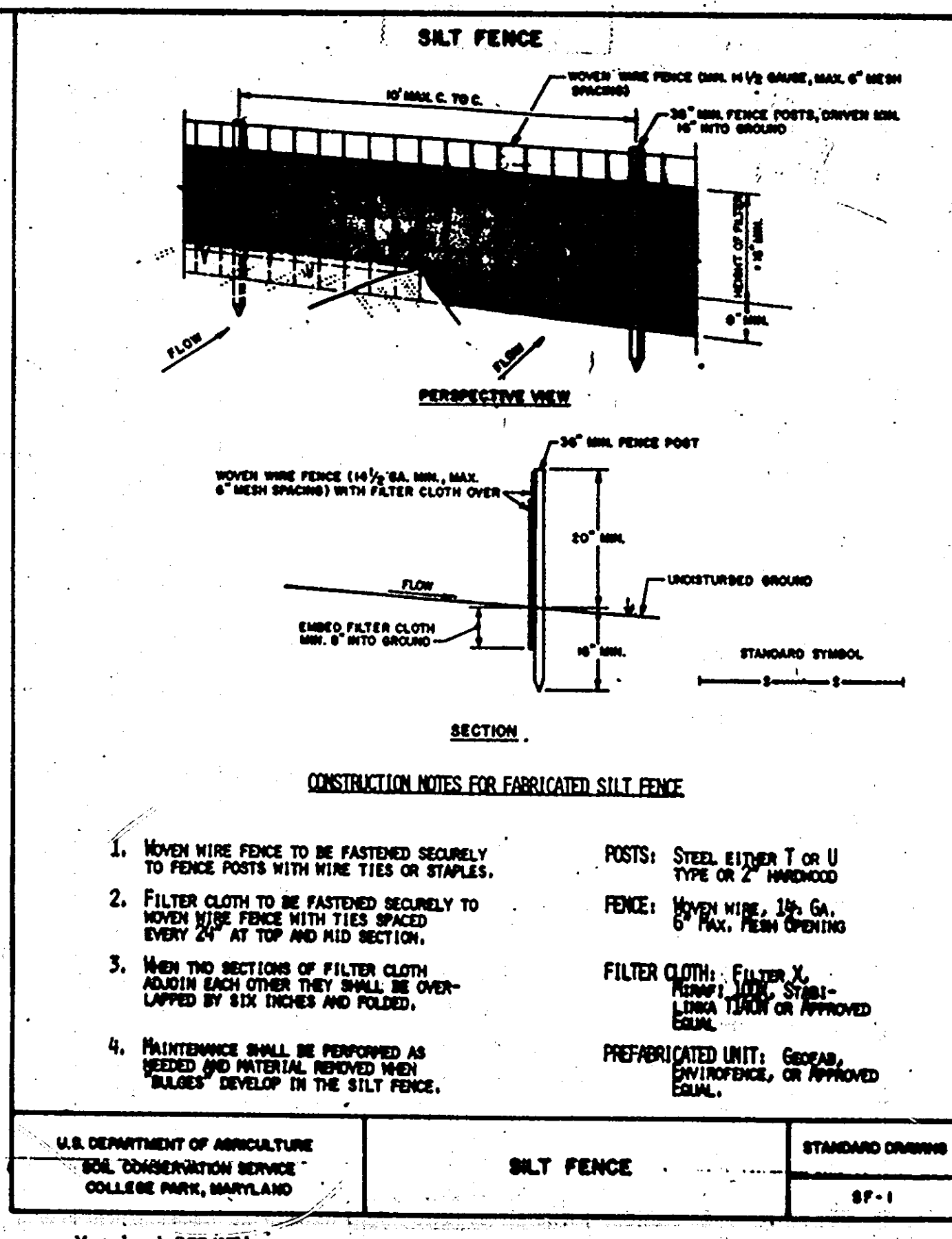
The filter cloth shall be a woven or nonwoven fabric consisting only of continuous chain polymeric filaments or yarns of polyester. The fabric shall be inert to commonly encountered chemicals, hydrocarbons, mildew, rot resistant, and conform to the properties of the following table:

Fabric Properties 3/	Light Duty 1/	Heavy Duty 2/	Test Method
	Roads	Haul Roads	
Grab Tensile Strength (lbs)	200	220	ASTM D1682
Elongation at Failure (%)	50	60	ASTM D1682
Mullen Burst Strength (lbs)	190	430	ASTM D3786
Puncture Strength (lbs)	40	125	ASTM D751-modified
Equivalent Opening Size	40-80	40-80	US Std Sieve CW-02215
Aggregate Depth (in)	6	10	

1/ Light Duty Road: Are sites that have been graded to subgrade and where most travel would be single axle vehicles and an occasional multi-axle truck. Trevira Spunbond 1115, Mirafit 100X, Typar 3401, or equivalent.

2/ Heavy Duty Road: Are sites with only rough grading, and where most travel would be multi-axle vehicles. Trevira Spunbond 1135, Mirafit 600X, or equivalent.

3/ Fabrics not meeting these specifications may be used only when design procedure and supporting documentation are supplied to determine aggregate depth and fabric strength.



Maryland SCS/WRA April 1983

2. The size of woven wire support fences.
3. The type of filter cloth used.
4. The method of anchoring the filter cloth.
5. The method of fastening the filter cloth to the fencing support.

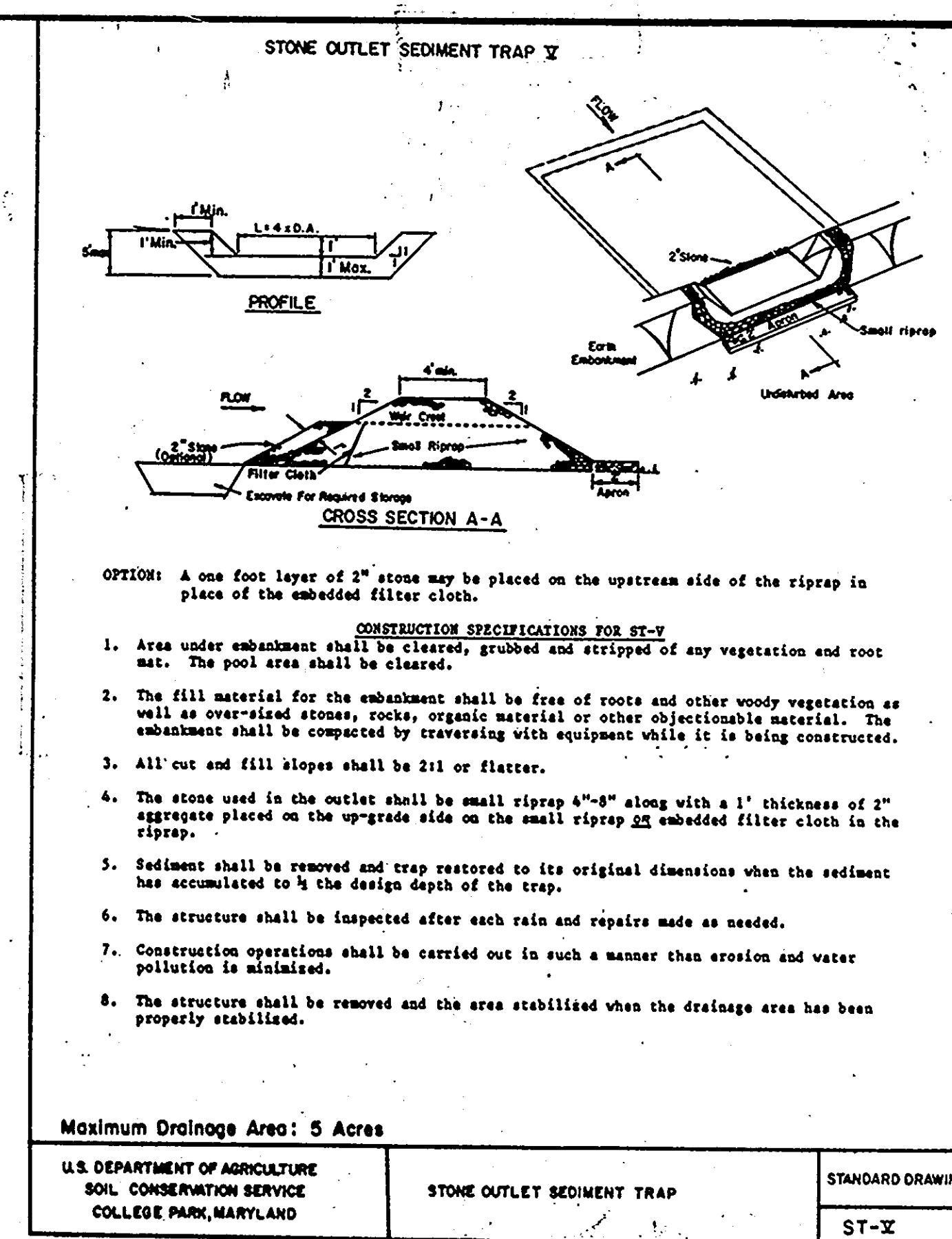
Where ends of filter cloth come together, they shall be overlapped, folded and stapled to prevent sediment bypass.

See Standard Drawing SF-1 for details.

Criteria for Silt Fence Materials

- Silt Fence Fabric: The fabric shall meet the following specifications unless otherwise approved by the appropriate erosion and sediment control plan approval authority. Such approval shall not constitute statewide acceptance. Statewide acceptability shall depend on in-field and/or laboratory observations and evaluations.
- Fence Posts (for fabricated units): The length shall be a minimum of 36 inches long. Wood posts will be of sound quality hardwood with a minimum cross sectional area of 3.0 square inches. Steel posts will be standard T and U section weighing not less than 1.00 pound per linear foot.
- Wire Fence (for fabricated units): Wire fencing shall be a minimum 1/4" gage with a maximum 6" mesh opening, or as approved.
- Prefabricated Units: Envirofence or approved equal may be used in lieu of the above method providing the unit is installed per manufacturer's instructions.

Fabric Properties	Minimum Acceptable Value	Test Method
Grab Tensile Strength (lbs)	90	ASTM D1682
Elongation at Failure (%)	50	ASTM D1682
Mullen Burst Strength (PSI)	190	ASTM D3786
Puncture Strength (lbs)	40	ASTM D751 (modified)
Slurry Flow Rate (gal/min/ft)	0.3	Virginia DOT VTN-51
Equivalent Opening Size	40-80	US Std Sieve CW-02215
Ultraviolet Radiation Stability %	90	ASTM-C-26



Maryland SCS/WRA April 1983

Trap Cleanout

Sediment shall be removed and the trap restored to the original dimensions when the sediment has accumulated to 1/4 of the design depth of the trap. Sediment removed from the trap shall be deposited in a protected area and in such a manner that it will not erode.

Embankment

All embankments for sediment traps shall not exceed five (5) feet in height as measured at the low point of the original ground along the centerline of the embankment. Embankments shall have a minimum four (4) foot wide top and side slopes of 2:1 or flatter. The embankment shall be compacted by traversing with equipment while it is being constructed.

The elevation of the top of any dike directing water to any sediment trap will equal or exceed the maximum height of the outlet structure along the entire length of the trap.

Excavation

All excavation operations shall be carried out in such a manner that erosion and water pollution shall be minimal. Excavated portions of sediment traps shall have 1:1 or flatter slopes.

Outlet

The outlet shall be designed, constructed and maintained in such a manner that sediment does not leave the trap and that erosion at or below the outlet does not occur.

Sediment traps must outlet onto stabilized (preferably undisturbed) ground, into a watercourse, stabilized channel, or into a storm drain system.

Trap details needed on Erosion and Sediment Control Plans

There is no standard symbol for a sediment trap. Each trap shall be delineated on the plans in such a manner that it will not be confused with any other features. Each trap on a plan shall indicate all the information necessary to properly construct and maintain the structure. If the drawings are such that this information cannot be delineated on the drawings, then a table shall be developed. If a table is developed, then each trap on a plan shall have a number and the numbers shall be consecutive. The following information shall be shown for each trap in a summary - table form on the plans.

- Trap number
- Type of trap
- Drainage area
- Storage required
- Storage provided (if applicable)
- Outlet length or pipe sizes
- Storage depth below outlet or cleanout elevation
- Embankment height and elevation (if applicable)

DEVELOPER'S BUILDER'S CERTIFICATE

I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN FOR EROSION AND CONTROL AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A D.N.R. 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 OR THEIR AUTHORIZED AGENTS, AS ARE DEEMED NECESSARY.

Arthur W. Gessert SK 3-5-87
SIGNATURE OF DEVELOPER/BUILDER DATE

ENGINEER'S CERTIFICATE

I HEREBY 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.

Steven K. Broyles P.E./Md. Sc.#14429 3-5-87
SIGNATURE OF DEVELOPER/BUILDER DATE

REVIEWED FOR HOWARD S.C.D. AND METEOROLOGICAL REQUIREMENTS

John A. McNeil 3-18-87
UP. SOIL CONSERVATION SERVICE DATE

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

Stephen L. Ashby 3-18-87
HOWARD S.C.D. DATE

APPROVED

DIVISION OF LAND DEVELOPMENT & ZONING ADMINISTRATION

HOWARD COUNTY, MARYLAND

DATE 1-30-87

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT
3-24-87

APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING
3-26-87

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
3-22-87

CHIEF BUREAU OF ENGINEERING
3-20-87

WESTERN EXPRESS

HOWARD COUNTY, MARYLAND

PROJECT: PROPOSED BUILDING ADDITION TO SDP-86-103

DATE: JULY 10, 1986

SCALE: N/A

DWG. BY: HKS

FILE NUMBER

REVISIONS

1	9-25-86
2	11-24-86
3	2-17-87
4	2-27-87

DRAWING 5

SHEET 5 OF 5

5

SOIL EROSION CONTROL DETAILS

DEED REFERENCE - LIBR: 1104 / FOLIO: 020

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APPLICANT OWNER:

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OWNER DEVELOPER DATE

SDP-87-74



Engineering Construction Corp.

Engineers - Surveyors

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