

SHEET INDEX

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3 of 7	DRAINAGE AREA MAP & UTILITY PLAN
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6 of 7	DETAIL
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SITE DEVELOPMENT PLAN

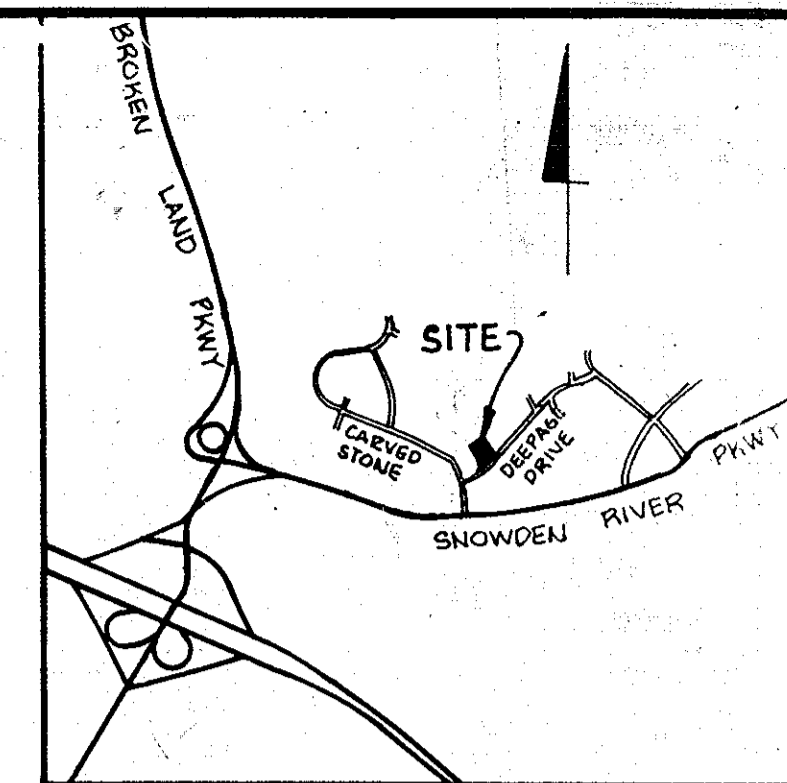
LOTS C-5 & C-6

VILLAGE OF OWEN BROWN SECTION 2 AREA 2

TAX MAP 42 - PARCEL 33

6TH ELECTION DISTRICT

HOWARD COUNTY, MARYLAND



VICINITY MAP
SCALE 1" = 2000'

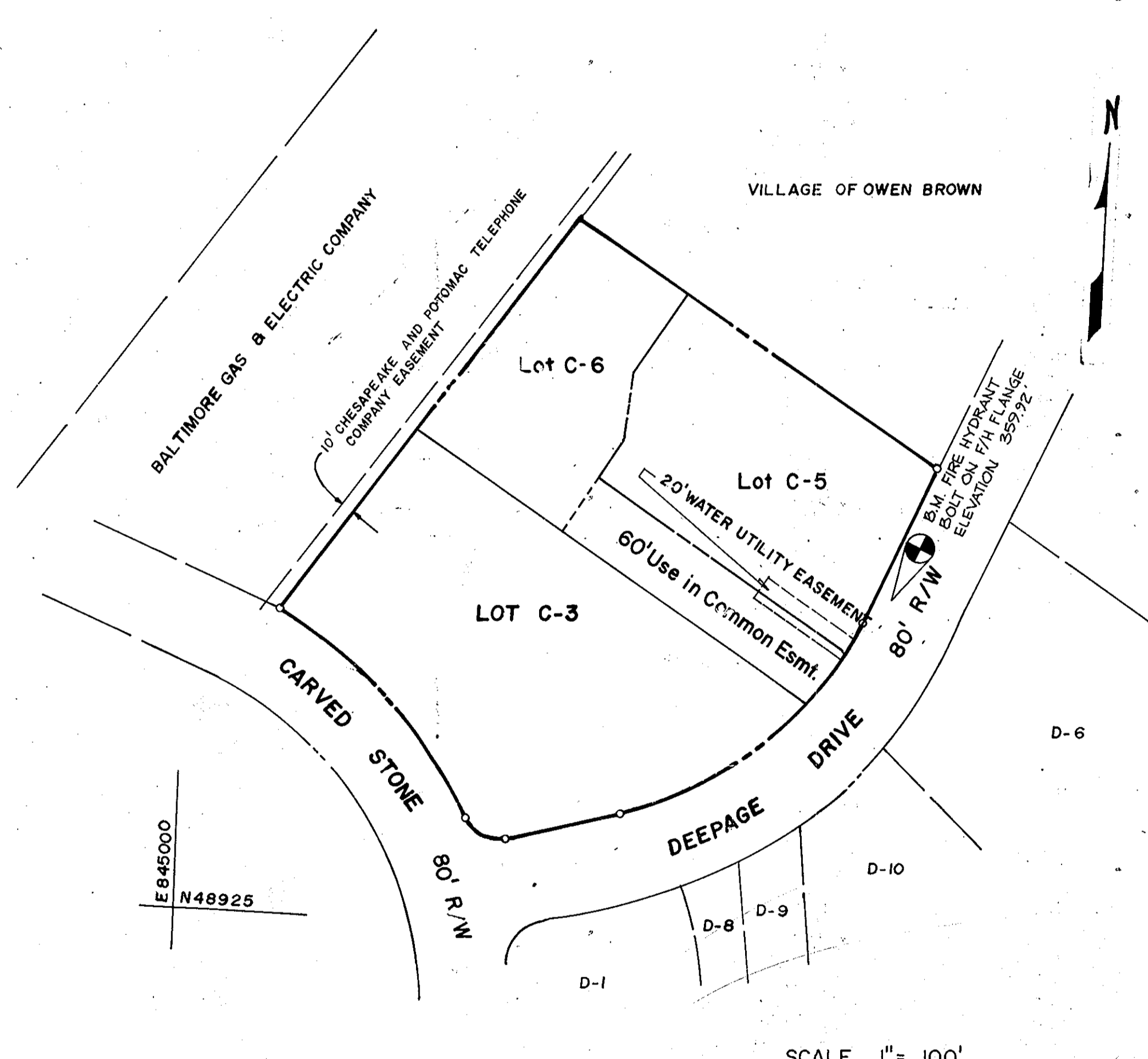
GENERAL NOTES

- ALL WATER LINES SHALL BE CONSTRUCTED A MINIMUM OF 42" COVER BELOW FINISHED GRADE.
- CORRUGATED STEEL PIPE SECTIONS WILL BE JOINED WITH A SINGLE OR TWO PIECE CORRUGATED BAND WITH A WATERTIGHT NEOPRENE GASKET. DIMPLE BAND CONNECTORS WILL NOT BE PERMITTED.
- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE HOWARD COUNTY DESIGN MANUAL, VOLUME IV, I.E., STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION.
- APPROXIMATE LOCATIONS OF EXISTING UTILITIES ARE SHOWN. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT THE EXISTING UTILITIES AND MAINTAIN UNINTERRUPTED SERVICE. ANY DAMAGE INCURRED DUE TO CONTRACTOR'S OPERATIONS SHALL BE REPAIRED IMMEDIATELY AT THE CONTRACTOR'S EXPENSE.
- THE CONTRACTOR SHALL TEST PIT EXISTING UTILITIES, WHERE DIRECTED BY THE ENGINEER, A MINIMUM OF TWO WEEKS IN ADVANCE OF CONSTRUCTION OPERATIONS.
- CONTRACTOR TO NOTIFY THE FOLLOWING UTILITIES OR AGENCIES AT LEAST FIVE DAYS BEFORE STARTING WORK SHOWN ON THESE DRAWINGS:

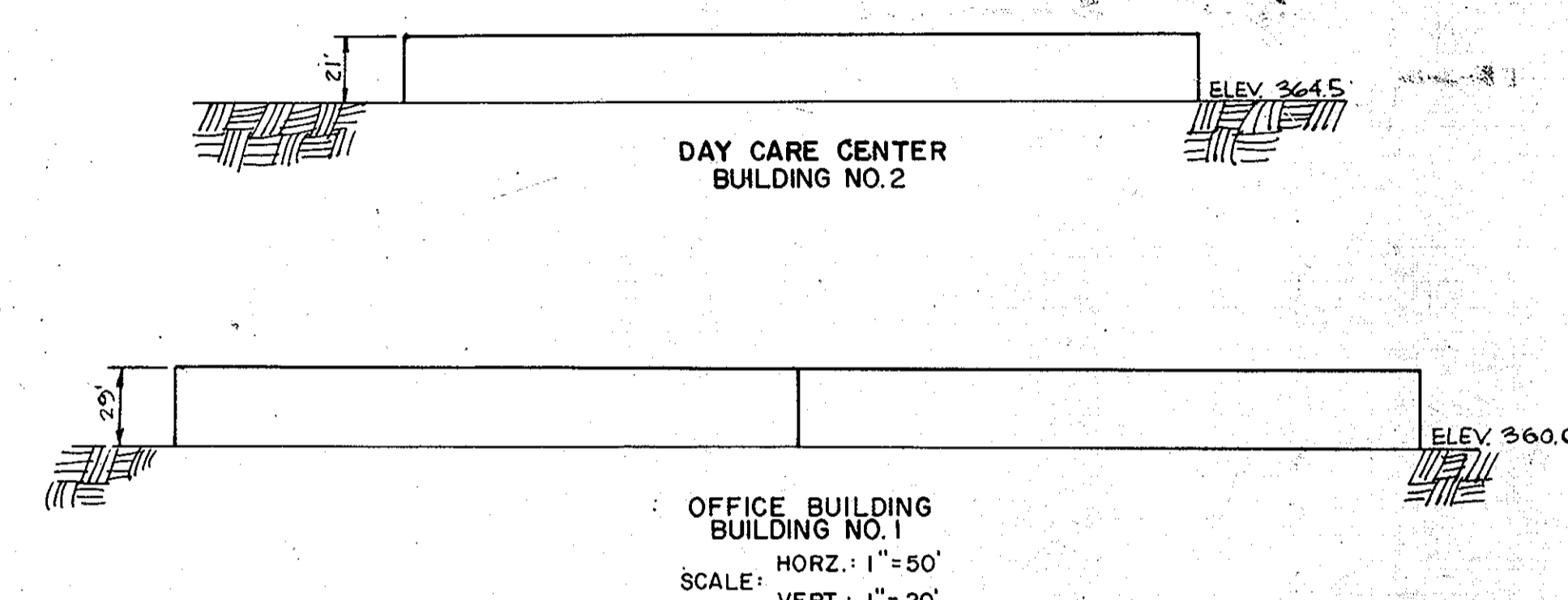
MISS UTILITY	539-0100
C&P TELEPHONE COMPANY	725-9976
HOWARD COUNTY BUREAU OF UTILITIES	992-2366
ATT CABLE LOCATIONS DIVISION	393-3583
BALTIMORE GAS & ELECTRIC COMPANY	685-0123
STATE HIGHWAY ADMINISTRATION	531-5533
HOWARD COUNTY CONSTRUCTION/INSPECTION SURVEY DIVISION (24 HOURS NOTICE PRIOR TO COMMENCEMENT OF WORK)	792-7272
- ALL INLETS SHALL BE CONSTRUCTED IN ACCORDANCE WITH HOWARD COUNTY STANDARDS.
- ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS.
- PROFILE STATIONS SHALL BE ADJUSTED AS NECESSARY TO CONFORM TO PLAN DIMENSIONS.
- TOPO TAKEN FROM FIELD RUN SURVEY DATED FEBRUARY 10, 1986 BY THE RBA GROUP.
- ALL PLAN DIMENSIONS ARE TO FACE OF CURB UNLESS OTHERWISE NOTED.
- ALL STORM DRAIN PIPE BEDDING SHALL BE AS SHOWN IN DETAIL G2.01 (TRENCH IN ROCK OR TRENCH IN EARTH AS DETERMINED BY FIELD CONDITIONS) IN VOL. IV OF HOWARD COUNTY DESIGN MANUAL UNLESS OTHERWISE DIRECTED BY THE ENGINEER OR AS SHOWN ON THE DRAWINGS.
- THE DEVELOPER IS RESPONSIBLE FOR THE ACQUISITION OF ALL EASEMENTS, RIGHTS AND/OR RIGHTS-OF-WAY THAT MAY BE REQUIRED FOR THE SEDIMENT AND EROSION CONTROL PRACTICES, STORM WATER MANAGEMENT PRACTICES AND THE DISCHARGE OF STORM WATER ONTO OR ACROSS ADJACENT OR DOWNSTREAM PROPERTIES INCLUDED IN THIS PLAN. HE IS ALSO RESPONSIBLE FOR THE ACQUISITION OF ALL EASEMENTS, RIGHTS AND/OR RIGHTS-OF-WAY THAT MAY BE REQUIRED FOR GRADING AND/OR WORK ON ADJACENT PROPERTIES INCLUDED IN THIS PLAN.
- ALL HORIZONTAL CONTROLS ARE BASED ON MARYLAND STATE COORDINATES.
- CLEAR ALL UTILITIES BY A MINIMUM OF 6". CLEAR ALL POLES BY 2'-0" MINIMUM OR TUNNEL AS REQUIRED.
- THE CONTRACTOR SHALL PROVIDE A JOINT IN ALL SEWER MAINS WITHIN 2'-0" OF EXTERIOR MANHOLE WALLS.
- CONTRACTOR SHALL USE DIMENSIONS SHOWN. SCALING OF THESE PLANS IS DISCOURAGED UNLESS DIRECTED BY CIVIL ENGINEER.
- DEVIATIONS FROM THESE PLANS AND SPECIFICATIONS WITHOUT THE PRIOR WRITTEN CONSENT OF THE CIVIL ENGINEER MAY CAUSE THE WORK TO BE UNACCEPTABLE.
- ALL GUTTER SLOPES TO MATCH SLOPE OF ADJACENT PAVEMENT.
- CONTRACTOR IS TO REFER TO ARCHITECT'S PLANS FOR SPECIFIC BUILDING AND SUPPORT FACILITY FEATURES PRIOR TO AND DURING CONSTRUCTION.
- ALL PIPE LENGTHS SHOWN ARE MEASURED BETWEEN THE CENTER OF STRUCTURES AND SHALL BE CONSIDERED APPROXIMATE. THE CONTRACTOR IS TO VERIFY ALL LENGTHS OF PIPE WITH FIELD MEASUREMENTS AFTER STRUCTURES ARE IN PLACE.
- THERE MAY BE ADDITIONAL UTILITIES NOT SHOWN ON THESE PLANS. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR LOCATIONS SHOWN AND IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE LOCATIONS OF ALL UTILITIES WITHIN THE LIMITS OF CONSTRUCTIONS AND NOTIFY THE ENGINEER.

23. HOWARD COUNTY PLANNING BOARD APPROVED WAIVER WP-98-10 TO REACTIVATE SITE PLAN ON 06/04/98. THIS WAIVER RELATES TO SECTIONS 16.156 (M)(1) & (2).

24. THE INTERIOR RENOVATION WILL INCLUDE ONE (1) SANCTUARY 120 SEATING WITH SEATING FOR 120 PERSONS, FOUR (4) SUNDAY SCHOOL CLASSROOMS WITH SEATING FOR A TOTAL OF FORTY (40) STUDENTS, THREE (3) OFFICES, SIX (6) TOILET ROOMS (4 EXISTING & 2 NEW), ONE (1) VESTIBULE AND ONE (1) LOBBY.



SCALE 1" = 100'



APPROVED
PLANNING BOARD
OF HOWARD COUNTY
DATE 1-7-87

SITE TABULATION

GROSS AREA OF PROPERTY	2.355 ACRES	102,583.8 SF
GROSS AREA OF SUBMISSION	2.355 ACRES	102,583.8 SF
PRESENT ZONING - COMMERCIAL FDP - 118 - A - 1		
PART II		
GROSS BUILDING COVERAGE	(28.32%)	54,643 SF
GROSS BUILDING AREA		31,513 SF
TWO STORY OFFICE BLDG. NO. 1	(24.04%)	24,663 SF
CHURCH/RELIGIOUS FACILITY - BLDG. 2	(4.28%)	6,850 SF
OPEN SPACE REQUIRED	(20.00%)	20,517 SF
OPEN SPACE PROVIDED	(40.85%)	41,910 SF
PARKING REQUIRED TOTAL		72 SPACES
OFFICE 2 SPACES/1000 SF		50 SPACES
CHURCH/RELIGIOUS FACILITY - 1 SPACE PER 3 SEATS IN SANCTUARY		37 SPACES
HANDICAPP		8 SPACES
PARKING PROVIDED TOTAL		100 SPACES
NO. 1 OFFICE AND NO. 2 CHURCH/RELIGIOUS FACILITY		95 SPACES
HANDICAPP	SEE PLAN	5 SPACES
LANDSCAPED ISLANDS REQUIRED	(5%)	1,844 SF
LANDSCAPED ISLANDS PROVIDED	(10.8%)	3,980 SF

ADDRESS CHART

BUILDING	STREET ADDRESS
NO. 1 OFFICE	7061 DEEPAE DRIVE
NO. 2 CHURCH	7065 DEEPAE DRIVE

SUBDIVISION NAME	SECTION/AREA	LOT/PARCEL
VILLAGE OF OWEN BROWN	SEC. 2 AREA 2	LOTS C-5 & C-6
PLAT 7033	BLOCK 4	NT COM. 42
ELEC. DIST 6	CENSUS TR 6061.03	
WATER CODE E12	SEWER CODE 5330300	

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

James P. ... 11-9-87
COUNTY HEALTH OFFICER DATE

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING.

W. ... 11-19-87
PLANNING DIRECTOR DATE

P.D. ... 18 Nov 87
CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION DATE

APPROVED FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS.

James P. ... 12/1/87
DIRECTOR DATE

... 11-8-87
CHIEF, BUREAU OF ENGINEERING DATE

OWNER/DEVELOPERS:
C-6 CHURCH/RELIGIOUS FACILITY C-5 OFFICE OWNER
OWNER VALLEY BROOK ELKHORN ASSOC LTD PARTNERSHIP
COMMUNITY CHURCH 5052 DORSEY HALL RD
9399 SPANNEVILLE ROAD ELLICOTT CITY, MD 21042
BURTONVILLE MD 20866 (410) 730-6607
301-436-9499

STATE OF MARYLAND PROFESSIONAL REGISTERED ENGINEER
STATE OF MARYLAND PROFESSIONAL REGISTERED ENGINEER
STATE OF MARYLAND PROFESSIONAL REGISTERED ENGINEER

REVISED 06/04/98 REVISED 12/28/88
SITE TABULATION PER ARCHITECTURAL
PLAN REVISIONS

8/23/10 FOR REV.

revisions

no.	Description	date
1	REVISED AS PER COUNTY COMMENTS	3/24/87
2	REVISED AS PER COUNTY COMMENTS	4/9/87

prepared by
RBA ENGINEERS • ARCHITECTS • PLANNERS
7164 COLEMBIA "GATEWAY" DRIVE
COLUMBIA, MARYLAND 21046
410-312-0966

Lots C-5 & C-6
VILLAGE OF OWEN BROWN
Section 2 Area 2
6th Election District
Howard County, Md
Tax Map 42 Par 397
REDLINE REVISIONS 3/21/88

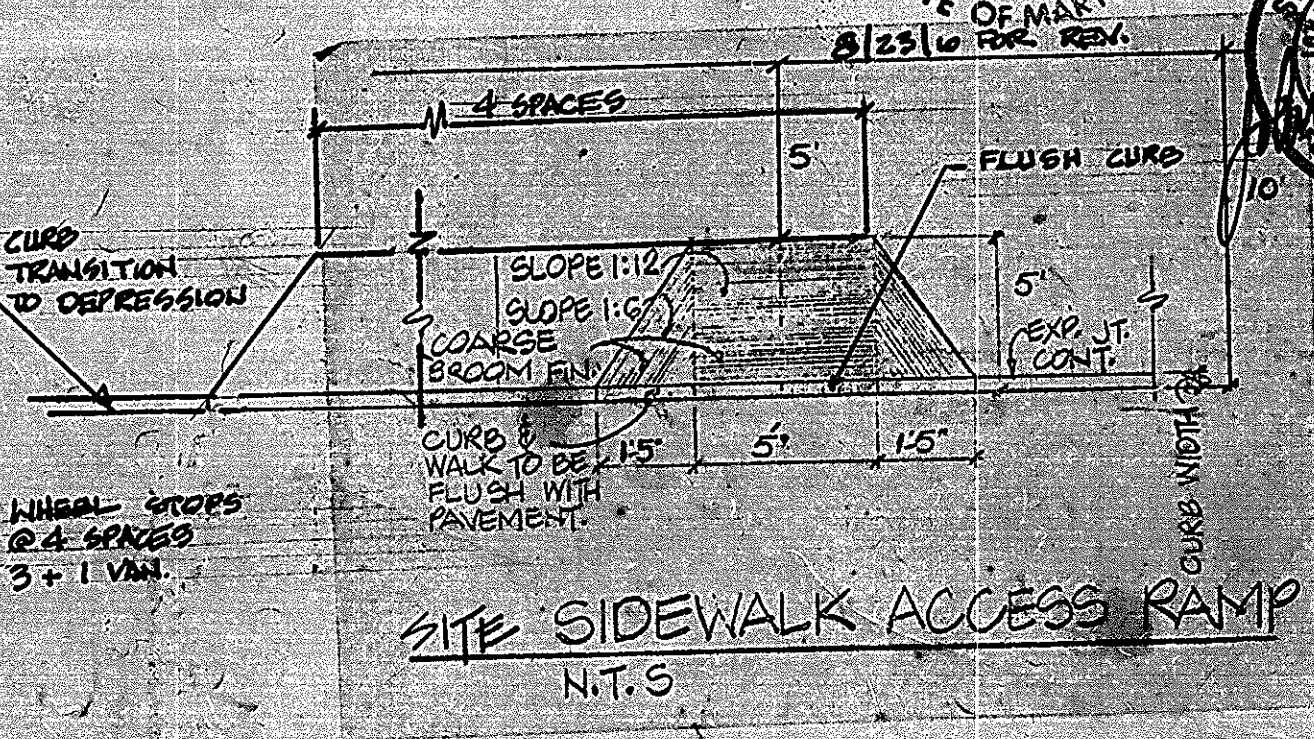
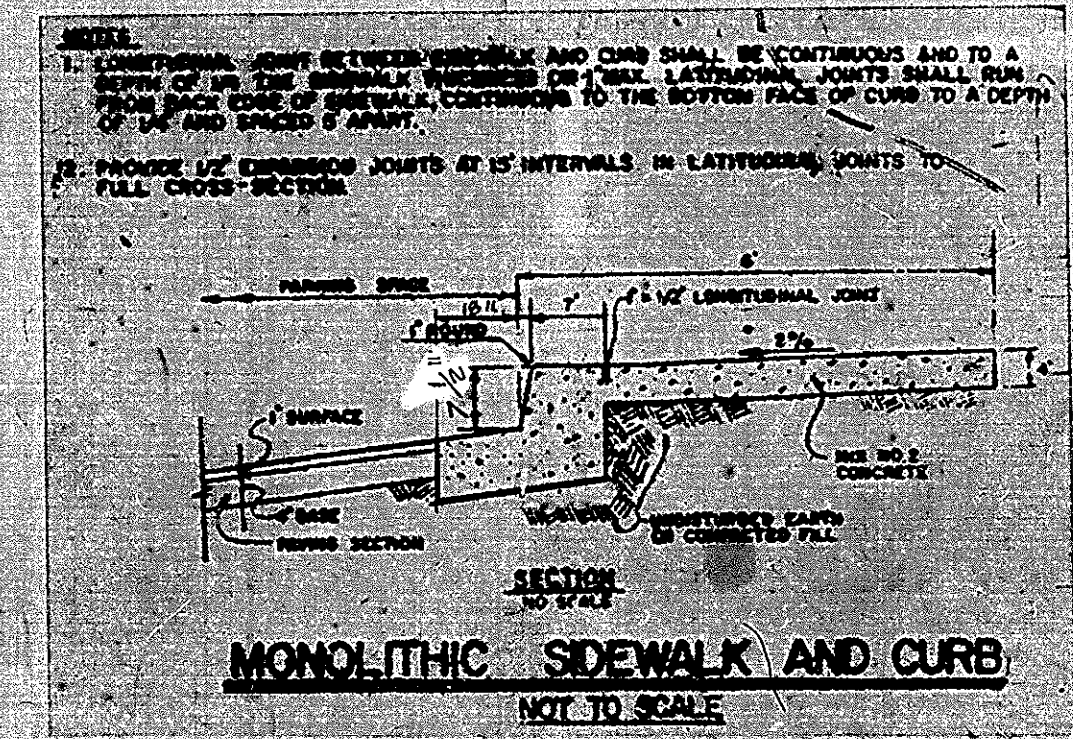
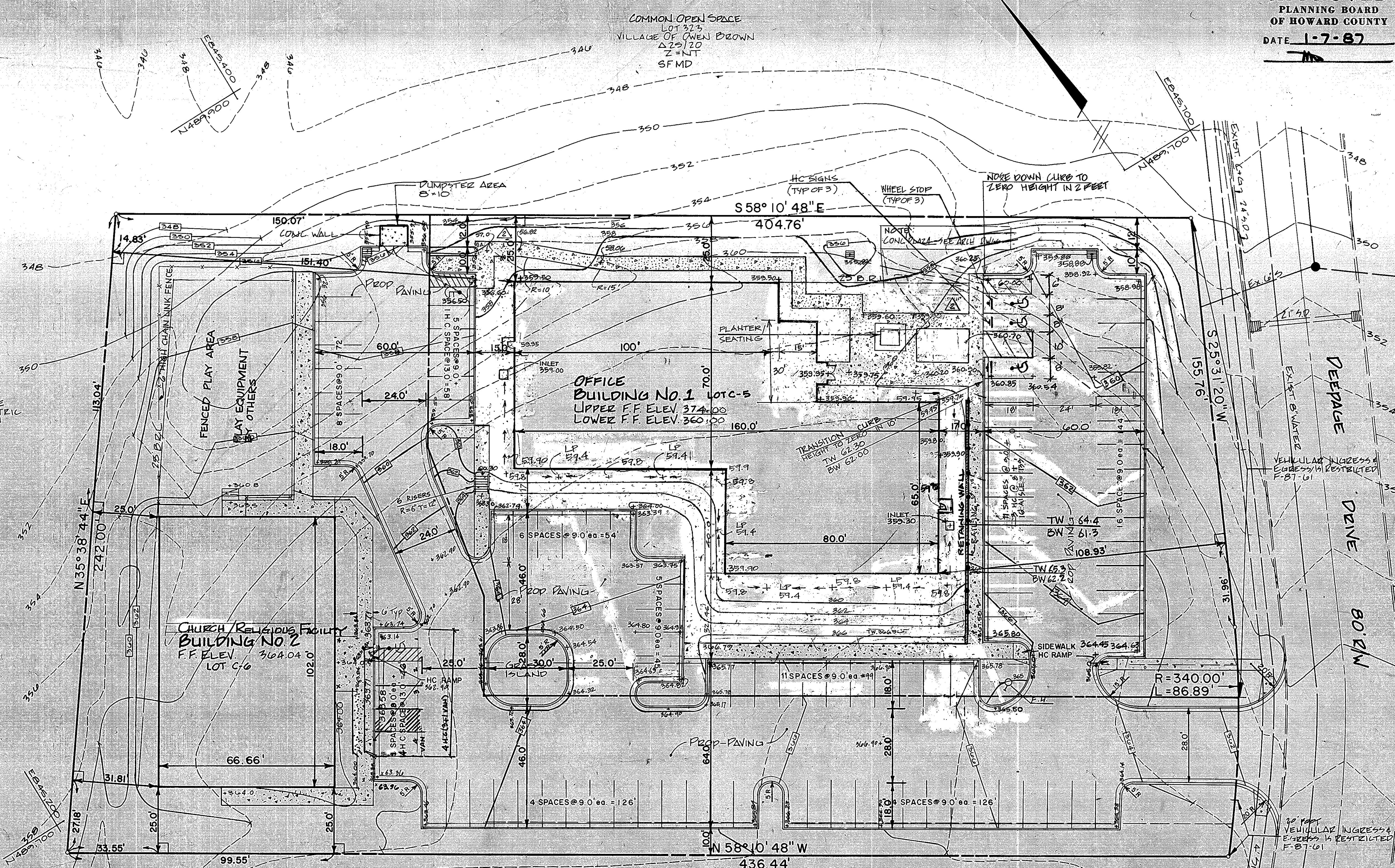
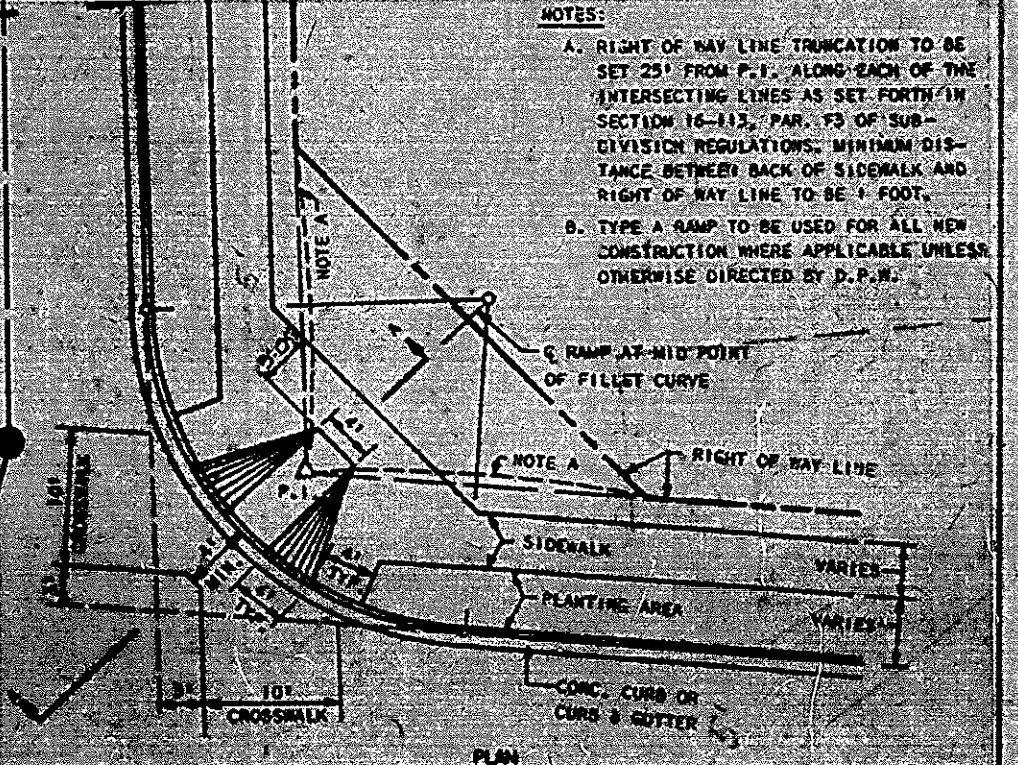
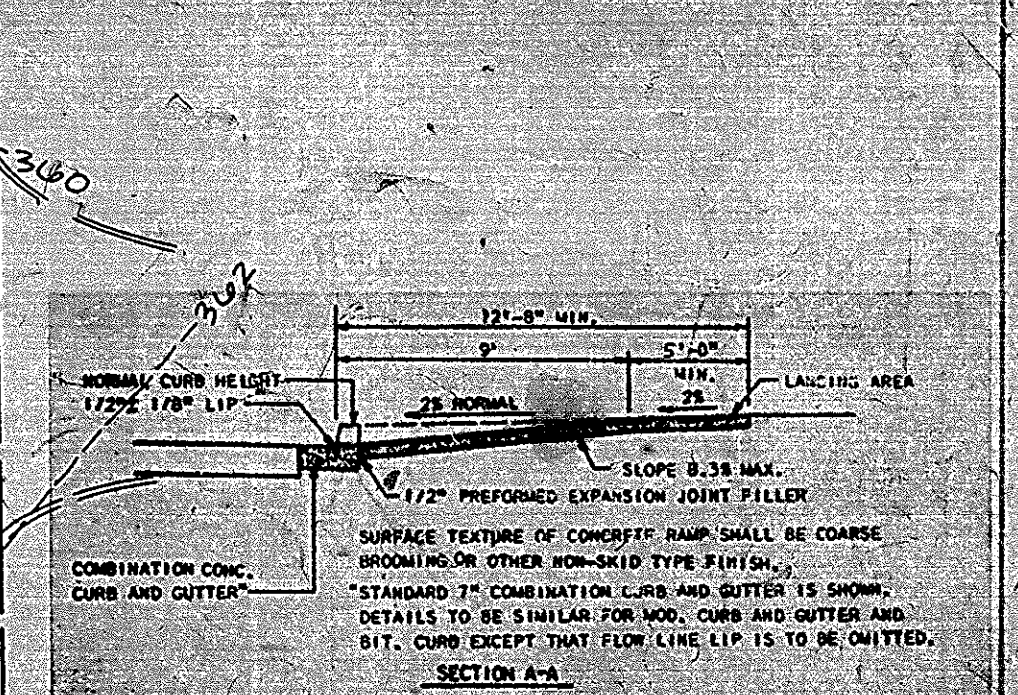
SCALE	N/A
DRAWN	DATE
4810	7/10/86
PROJ NO	DATE
4810	7/10/86
SHEET	1 OF 7

APPROVED
PLANNING BOARD
OF HOWARD COUNTY
 DATE 1-7-87

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT.
James B. ... 11-9-87
 COUNTY HEALTH OFFICER DATE
 APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING.
Un Admin. 11.19.87
 PLANNING DIRECTOR DATE
P. DeCello 18 Nov 87
 CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION

APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS.
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
James H. ... 11/6/87
 DIRECTOR DATE
William S. ... 11-2-87
 CHIEF, BUREAU OF ENGINEERING
 OWNER/DEVELOPER:
 C-5 FRANCHISE OWNER: C-5 OFFICE OWNER
 DEEPAGE DRIVE ASSOC. INC. ELKHORN ASSOC. LTD PARTNERSHIP
 BY RANDALL L. REINER, V.P. 5052 DORSEY HALL RD.
 RANDALL CONSTRUCTION CO., INC. ELLICOTT CITY, MD 21042
 GENERAL PARTNER (410) 790-6607

NOTES:
 1. ALL HANDICAPPED ENTRANCES SHALL HAVE A 5' LEVEL LANDING AREA AT EACH ENTRANCE DOOR AND SHALL BE LEVEL WITH THE ENTRANCE FLOOR ELEVATION.
 2. USE MODIFIED 2" BARRIER CURB IN ALL AREAS EXCEPT ALONG SIDEWALKS. USE 6" BARRIER CURB AND MONOLITHIC SIDEWALK IN ALL OTHER AREAS UNLESS OTHERWISE NOTED.
 3. ALL DIMENSIONS TO R/W LINES ARE FROM EXISTING R/W LINES.
 4. ALL ELEV. SHOWN ARE PROPOSED FINISH ELEV.
 5. VEHICULAR ENGRESS AND EGRESS TO DEEPAGE DRIVE WILL BE PERMITTED ONLY AT POINTS OF ACCESS APPROVED BY THE HOWARD COUNTY OFFICES OF PLANNING AND ZONING.
 6. PROVIDE EXTERIOR RAILINGS AS PER MD. VEHICLE EDITION OF 1984 BUILDING CODE. RAILINGS SHALL BE NOT LESS THAN 4" IN HEIGHT. HORIZONTAL MEMBERS SHALL NOT EXCEED 4" O.C. RAILINGS SHALL BE DESIGNED TO RESIST A SIMULTANEOUS VERTICAL AND HORIZONTAL THRUST OF 50 LBS. PER LINEAL FOOT. SEE ARCHITECT AND ENGINEER.



Professional Engineer seals for the State of Maryland, including the seal for William S. ... and others. The text includes 'REGISTERED PROFESSIONAL ENGINEER', 'STATE OF MARYLAND', and 'EXPIRES 12/31/87'.

REVISOR 12/20/80 PER ARCHITECTURAL PLAN REVISIONS
 REVISOR 11/24/87 PER COUNTY COMMENTS 3/24/87
 BUILDING AND GRADING 06/04/88
 SIDEWALK AND GRADING 5/24/89

prepared by **RBA** ENGINEERS ARCHITECTS PLANNERS
 1104 COLUMBIA FORTER ROAD, DRIVE 3000
 COLUMBIA, MARYLAND 21046
 301.282.0955

Lot C-5 & C-6
VILLAGE OF OWEN BROWN
 Section 2 Area 2
 6th Election District
 Howard County, Md
 Tax Map 4:2 Par 397
 SCALE 1" = 20'
 DRAWN [] CHECKED []
 PROJ. NO. 4810 DATE []
 SHEET 2 of 7
 SDP-87-276

APPROVED
PLANNING BOARD
OF HOWARD COUNTY
 DATE 1-7-87

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEM
 HOWARD COUNTY HEALTH DEPARTMENT

John P. Miller 11-7-87
 COUNTY HEALTH OFFICER DATE

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING

William J. ... 11-19-87
 PLANNING DIRECTOR DATE

P.O. Fields 18 Nov 87
 CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION DATE

APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS

HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

James P. ... 11/2/87
 DIRECTOR DATE

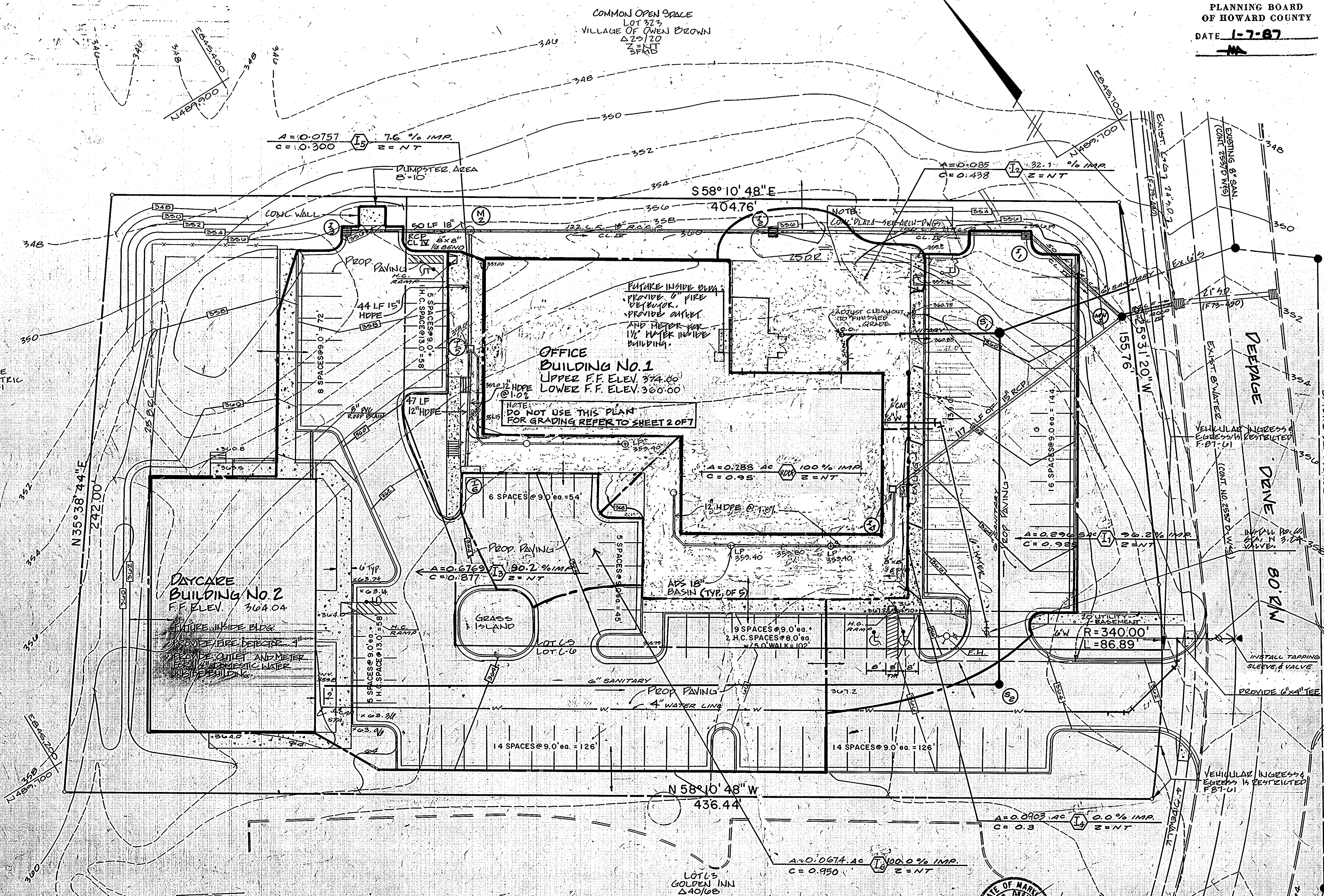
D. ... 11-2-87
 CHIEF, BUREAU OF ENGINEERING DATE

OWNER/DEVELOPERS:
 C-6 DAYCARE OWNER: PEEBLES PINE ASSOC., INC.
 C-5 OFFICE OWNER: ELKHORN ASSOCIATES PARTNERSHIP
 BY RANDALL L. REINER, V.P. 9052 DORSEY HALL RD
 RANDALL CONSTRUCTION CO., INC. ELLICOTT CITY MD 21042
 GENERAL PARTNER (410) 730-6607

NOTES

1. FOR S.W.M. COMPUTATIONS & DRAWINGS SEE REF. NO. F-7907
2. WATER & SEWER LINES ARE TO BE CONSTRUCTED TO S' OF BUILDINGS. BUILDING CONTRACTOR TO CONTINUE LINES INTO BUILDING.
3. CONNECT WATER AND SEWER CONTRACT #2537-D W4S

NOTE: REFER TO SHEET 2 OF 7 FOR ALL BUILDING LAYOUT, SITE LAYOUT AND GRADING.



IS	YARDIN.	SEE PLAN	353.80	353.03	359.00	HO CO STD SD 4-14
I-10	A-10	SEE PLAN	357.00	363.39		HO CO STD SD 4-02
M-2	MANHOLE	SEE PLAN	351.30	351.04	356.00	HO CO STD SD 65-12

No.	TYPE	LOCATION	INV. IN	INV. OUT	TOP ELEV.	REMARKS
I-1	A-10	SEE PLAN	349.91	349.66	358.82	HO CO STD SD4-02
I-2	YARD INLET	"	350.76	350.51	359.20	HO CO STD SD4-14
I-3	A-10	"	352.14	351.89	359.20	HO CO STD SD4-02
I-4	YARD INLET	"	353.52	353.27	359.20	HO CO STD SD4-14
S-1	4 DIA. MH	"	346.22	342.73	357.3	HO CO STD GS-12
S-2	4 DIA. MH	"	354.4	354.2	362.20	HO CO STD GS-12
MH-1	4 DIA. MH	"	349.16	348.91	354.50	

STATE OF MARYLAND PROFESSIONAL ENGINEER
 JOHN P. MILLER
 7/10/98
 FOR 6/1/98
 REVISIONS TO PER COUNTY COMMENTS 3/1/87
 REVISIONS TO PER COUNTY COMMENTS 9/1/87. WATER
 REVISED DRAINAGE AND UTILITIES 06/04/98

Prepared by
RBA ENGINEERS • ARCHITECTS • PLANNERS
 7164 COLUMBIA GATEWAY DR.
 COLUMBIA, MARYLAND 21046
 410-312-0966 621-6050

UTILITY AND DRAINAGE PLAN
 Lots C-5 & C-6
VILLAGE OF OWEN BROWN
 Section 2 - Area 2
 6th Election District
 Howard County, Md.
 Tax Map 42-Par 397
 SCALE 1"=20'
 DRAWN CHECKED
 PROJ. NO. DATE
 4810
 SHEET 13 OF 7

APPROVED
PLANNING BOARD
OF HOWARD COUNTY
 DATE 1-7-87

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

Joyce J. ... 11-7-87
 COUNTY HEALTH OFFICER DATE

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING

W. ... 11-19-87
 PLANNING DIRECTOR DATE

P. ... 11-18-87
 CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION

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

J. ... 11-2-87
 DIRECTOR DATE

R. ... 11-2-87
 CHIEF, BUREAU OF ENGINEERING

OWNER / DEVELOPER
 C-6 Daycare Owner
 Daycare Drive Associates, Inc.
 by: Randall L. Reiner, Vice President
 General Partner
 964-1777
 C-6 Office Owner
 Fibrom Associates-Ltd. Partnership
 5052 FORSYTH HALL RD
 ELLICOTT CITY, MD 21042
 (410) 730-6607

BY THE DEVELOPER:
 I 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 Natural Resources Approved Training Program for the control of sediment and erosion before beginning this project.
R. Reiner 10/11/87
 Signature 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.
John M. ... 3-30-87
 Signature Date

Reviewed for HOWARD S.C.D. and costs Technical Requirements.
John M. ... 10/21/87
 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. ... 10/26/87
 Howard S.C.D.

SEPT 1986 PROFESSIONAL ENGINEER
 STATE OF MARYLAND
 JOHN M. ...
 7164 B
 FEB 24 1987
 REVISED ONLY

SEPT 1986 PROFESSIONAL ENGINEER
 STATE OF MARYLAND
 JOHN M. ...
 7164 B
 FEB 24 1987
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 FEB 24 1987
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SEPT 1986 PROFESSIONAL ENGINEER
 STATE OF MARYLAND
 JOHN M. ...
 7164 B
 FEB 24 1987
 REVISED ONLY

STORM INLET SEDIMENT TRAP #2
 PROP. D.A. = 0.729 A²
 STORAGE REQUIRED: 21725+1800 = 13925 C.U.F.T.
 STORAGE PROVIDED EL. 50.0 FT. 213 C.U.F.T.

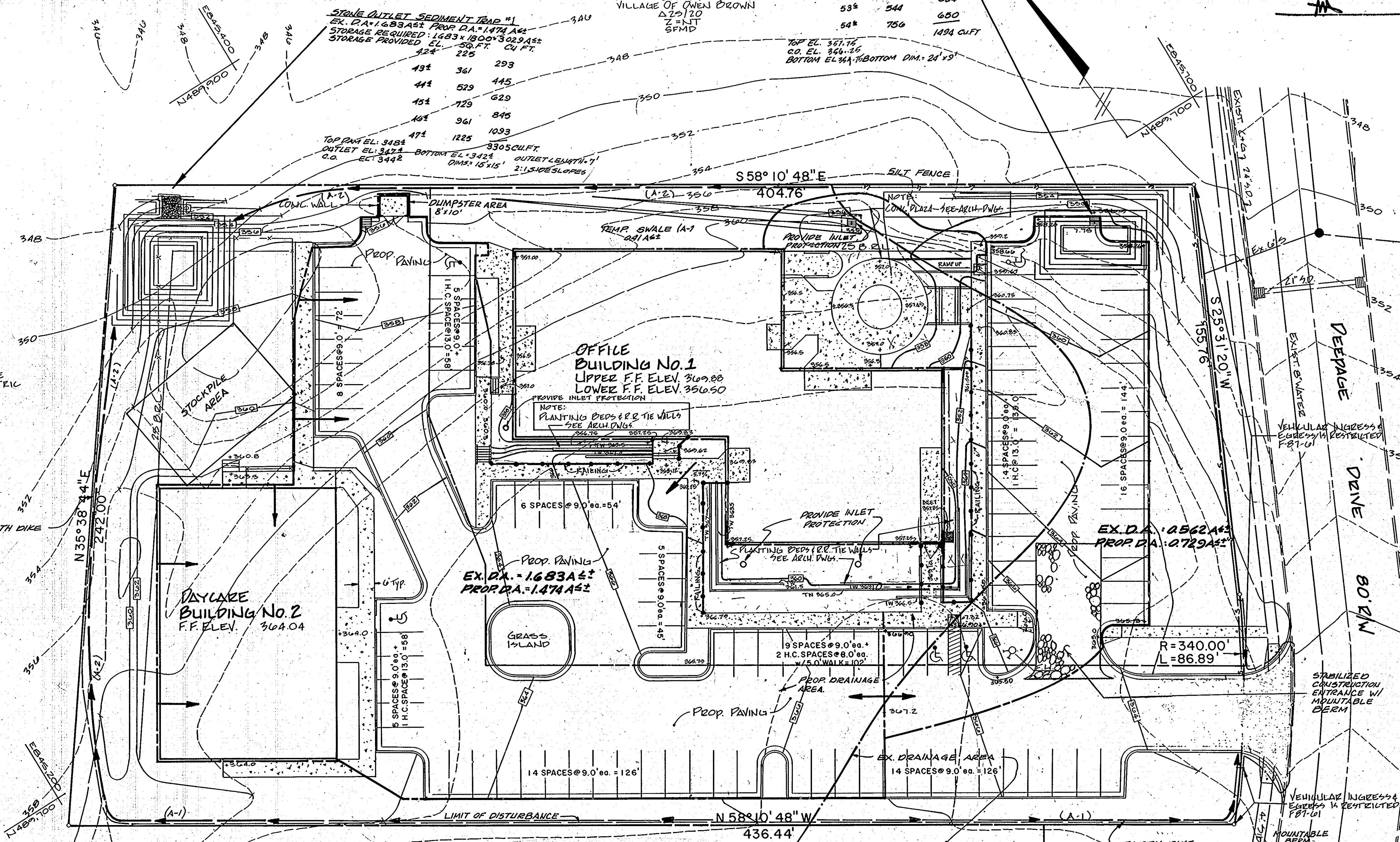
52%	364	290
53%	544	554
54%	756	650
		1494 C.U.F.T.

STORM OUTLET SEDIMENT TRAP #1
 EX. D.A. = 1.683 A² PROP. D.A. = 1.474 A²
 STORAGE REQUIRED: 1683 x 1800 = 3029 A²
 STORAGE PROVIDED EL. 50.0 FT. 225 C.U.F.T.

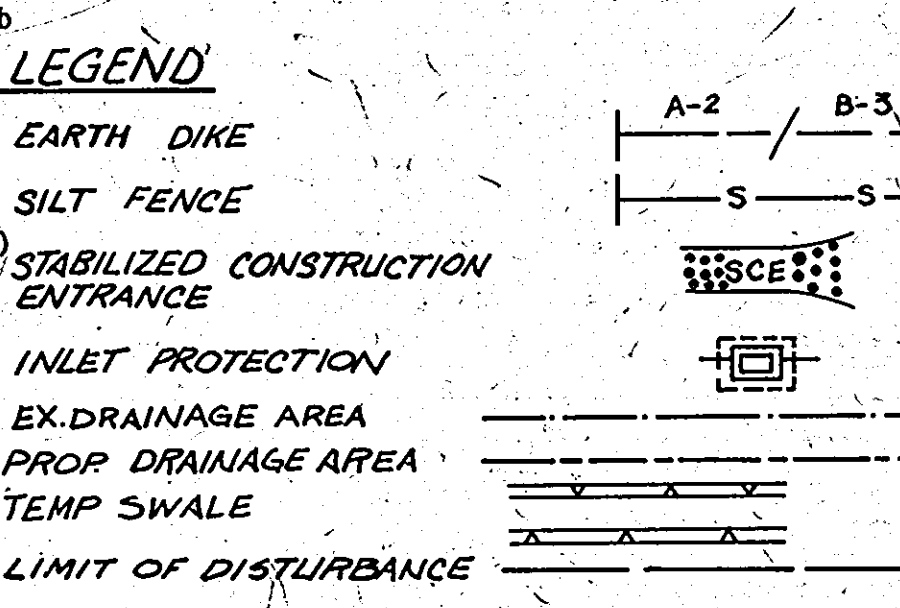
43%	361	293
44%	529	445
45%	729	629
46%	961	845
47%	1225	1093
		3305 C.U.F.T.

COMMON OPEN SPACE
 LOT 323
 VILLAGE OF OWEN BROWN
 Δ 229 120
 Z = NT
 SFMD

TOP EL. 367.76
 C.O. EL. 346.25
 BOTTOM EL. 341.10 BOTTOM DIM. 24' x 9'



- CONSTRUCTION SEQUENCE**
1. Obtain proper Permits.
 2. Clear and grub for Sediment and Erosion Control measures or devices only.
 3. Install all Sediment and Erosion Control measures and devices for temporary swales.
 4. Notify Howard County Department of Permits and Licenses, Sediment Control Division, upon completion of said installation.
 5. With the approval of Howard County Department of Permits and Licenses, and the Sediment Control Inspector, clear and grub remainder of site.
 6. Rough grade site and install temporary swales.
 7. Install utilities and construct storm inlet sediment trap. Repair and stabilize all swales and silt fence that utilities cross. (Provide inlet protection for all inlets.)
 8. Begin building construction.
 9. Stabilize all areas outside building construction areas.
 10. Complete building construction.
 11. Fine grade and stabilize all remaining areas.
 12. Remove all sediment control measures after obtaining permission from the Sediment Control Inspector.
 13. Stabilize the disturbed areas.



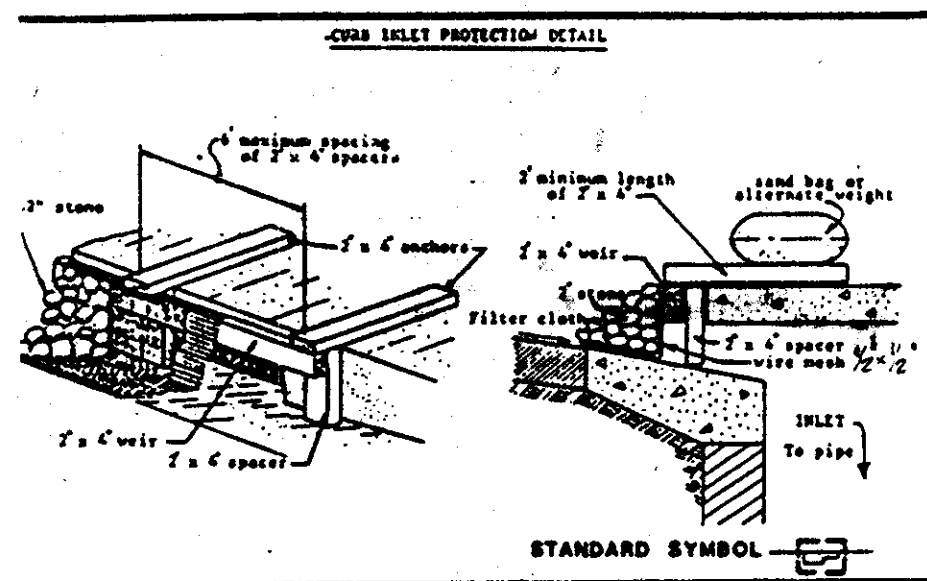
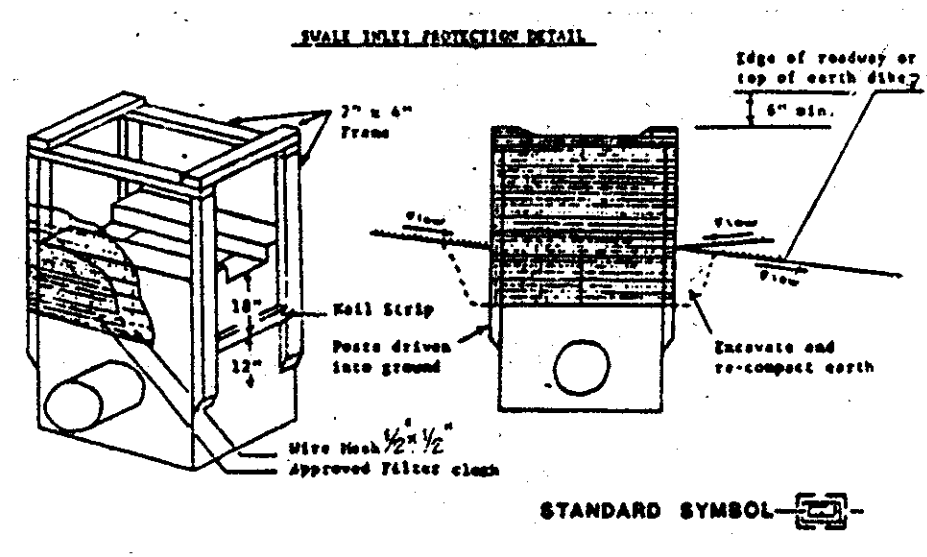
REVISED 7/8 PER COUNTY COMMENTS 3/24/87
 REVISED 8/20/88 PER ARCHITECTURAL PLAN REVISIONS.
 REVISED SEDIMENT CONTROL 6/14/93

prepared by
RBA ENGINEERS • ARCHITECTS • PLANNERS
 7164 COLUMBIA GATEWAY DR.
 COLUMBIA, MARYLAND 21046
 410 312 0466

Lots C-5 & C-6
VILLAGE OF OWEN BROWN
 Section 2 Area 2
 6th Election District
 Howard County, Md.
 Tax Map 42 Par 397

SCALE 1" = 20'

DRAWN	C.K.S.	CHECKED	
PROJ. NO.	4810	DATE	7/10/86
SHEET			5 OF 7

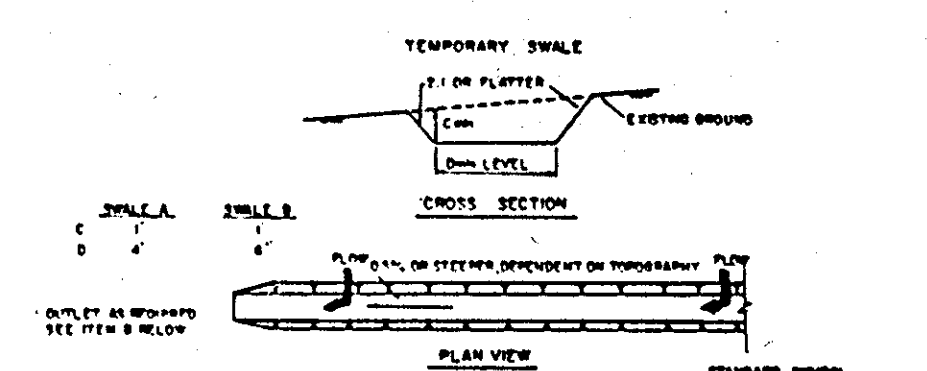
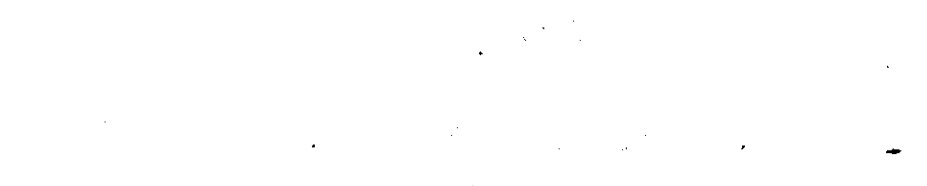


STANDARD SYMBOL

- Materials
 - Wooden frame is to be constructed of 2" x 4" construction grade lumber.
 - Wire mesh must be of sufficient strength to support filter fabric, and strong for curb inlet, with wire fully impounded against it.
 - Filter cloth must be of a type approved for this purpose resistant to sunlight with strong side, 500% absorb, to allow sufficient passage of water and removal of sediments.
 - Stone is to be 2" in size and clean, stone fines would plug the slots.

II. Procedure

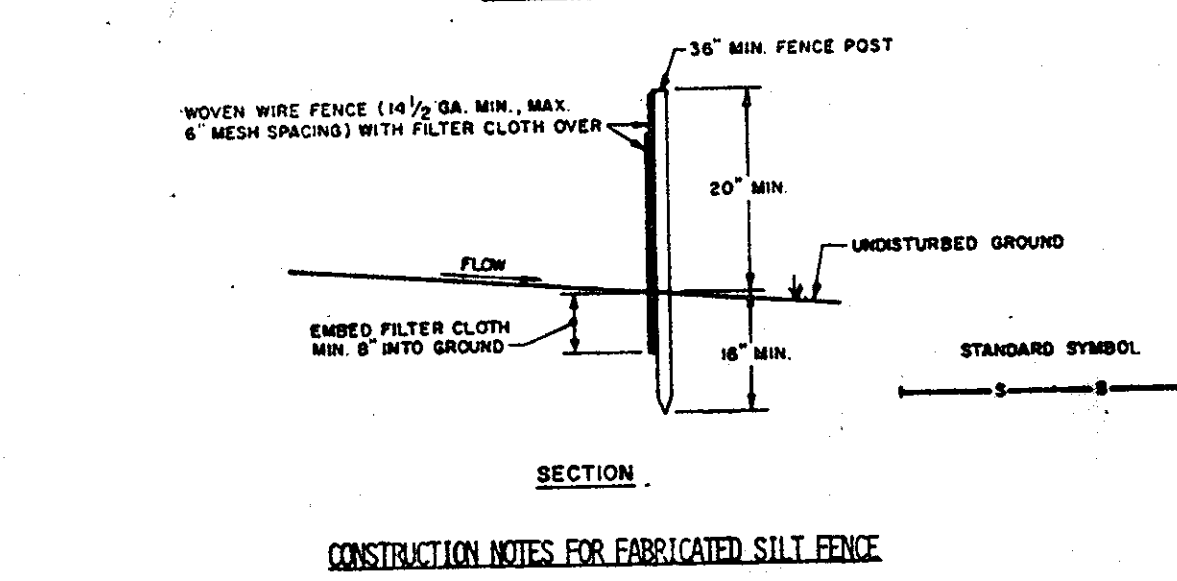
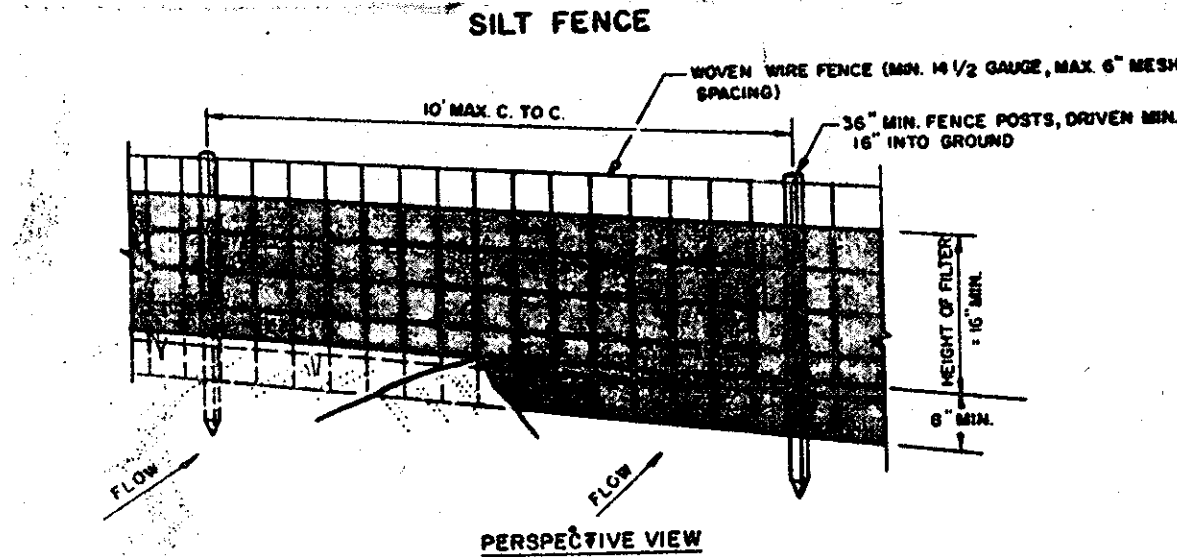
- A mule, ditchline or yard inlet protection.
 - Excavate completely around inlet to a depth of 18" below curb elevation.
 - Drive 2 x 4 post 1' into ground at four corners of inlet. Place nail strips between posts on ends of inlet. Assemble top portion of 2" x 4 frame using overlap joint shown. Top of frame (west) must be 6" below edge of roadway adjacent to inlet.
 - Stretch wire mesh tightly around frame and fasten securely. Ends must meet at post.
 - Stretch filter cloth tightly over wire mesh, the cloth must extend 7/8" from top of frame to 18" below inlet curb level. Fasten securely to frame. Ends must meet at post, be overlapped and folded, then fastened again.
 - Backfill around inlet to compact 6" layers until layer of earth is even with mesh elevation on ends and top elevation on sides.
 - If the inlet is not in a low point, construct a compacted earth dike in the ditchline below it. The top of this dike is to be at least 6" higher than the top of frame (west).
 - This structure must be inspected frequently and the filter fabric replaced when clogged.
- Curb Inlet Protection.
 - Attach a continuous piece of wire mesh (30" min. width by throat length plus 4") to the 2" x 4" wire (ensuring throat length plus 2") as shown on the standard drawing.
 - Place a piece of approved filter cloth (40-45" x 45") of the same dimensions as the wire mesh over the wire mesh and securely attach to the 2" x 4" wire.
 - Securely nail the 2" x 4" wire to 8" long vertical supports to be located between the wire and inlet face (see 6" apart).
 - Place the assembly against the inlet throat and nail (minimum 2" length of 2" x 4" to the top of the wire at spacer locations. These 2" x 4" anchors shall extend across the inlet top and be held in place by nails or alternate weight.
 - The assembly shall be placed so that the end appears are a minimum 1" beyond both ends of the throat opening.
 - Form the wire mesh and filter cloth to the concrete gutter and against the face of curb on both sides of the inlet. Place 2" x 4" stone over the wire mesh and filter fabric in such a manner as to prevent water from entering the inlet under or around the filter cloth.
 - This type of protection must be inspected frequently and the filter cloth and stone replaced when clogged with sediment.
- Ensure that storm flow does not bypass inlet by installing temporary earth or asphalt dike directing flow into inlet.



STANDARD SYMBOL

- All temporary dikes shall have unimpaired positive grade to an outlet.
- Disturbed runoff from a disturbed area shall be conveyed to a sediment trapping device.
- Disturbed runoff from an undisturbed area shall collect directly into an undisturbed stabilized area at non-erosive velocity.
- All trees, shrubs, plants, structures, and other obstructions existing shall be removed and disposed of so as not to interfere with the proper functioning of the dike.
- No fill shall be placed on top of line, slope, and curb section or on any other area of the site which is to be graded or paved.
- Fill shall be compacted by hand or roller.
- All signs, notices, and other information shall be placed so that it will not interfere with the functioning of the dike.
- Stabilization shall be as per the chart below:

TYPE OF TREATMENT	CHANNEL WIDTH	DIKE A	DIKE B
1	5-3.0%	SEED AND STRAW MULCH	SEED AND STRAW MULCH
2	3.1-5.0%	SEED AND STRAW MULCH	SEED WITH JUTE, OR EXCELISOR; SOG; 2" STONE
3	5.1-8.0%	SEED WITH JUTE, OR SOG	LINED RIP-RAP 4-8"
4	8.1-20%	LINED RIP-RAP 4-8"	ENGINEERING DESIGN



STANDARD SYMBOL

- Woven wire fence to be fastened securely to fence posts with wire ties or staples.
- Filter cloth to be fastened securely to woven wire fence with ties spaced every 24" at top and mid section.
- When two sections of filter cloth adjoin each other they shall be overlapped by six inches and folded.
- Maintenance shall be performed as needed and material removed when "bulges" develop in the silt fence.

CONSTRUCTION NOTES FOR FABRICATED SILT FENCE

GENERAL NOTES

- REFER TO "1983 MARYLAND AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL" FOR STANDARD DETAILS AND DETAILED SPECIFICATIONS OF EACH PRACTICE SPECIFIED HEREIN.
- WITH THE APPROVAL OF THE SEDIMENT CONTROL INSPECTOR, MINOR FIELD ADJUSTMENTS CAN AND WILL BE MADE TO INSURE THE CONTROL OF ANY SEDIMENT. CHANGES IN SEDIMENT CONTROL PRACTICES REQUIRE PRIOR APPROVAL OF THE SEDIMENT CONTROL INSPECTOR AND THE ANNE ARUNDEL COUNTY SOIL CONSERVATION DISTRICT.
- AT THE END OF EACH WORKING DAY, ALL SEDIMENT CONTROL PRACTICES WILL BE INSPECTED AND LEFT IN OPERATIONAL CONDITION.
- FOLLOWING INITIAL SOIL DISTURBANCE OR REDISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN: A.) SEVEN CALENDAR DAYS, DIKES, SWALES, DITCHES, 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 AREAS ON THE PROJECT SITE.
- ANY CHANGE TO THE GRADING PROPOSED ON THIS PLAN REQUIRES RE-SUBMISSION TO ANNE ARUNDEL COUNTY SOIL CONSERVATION DISTRICT FOR APPROVAL.
- DUST CONTROL WILL BE PROVIDED FOR ALL DISTURBED AREAS. REFER TO USDA SOIL CONSERVATION SERVICE "1983 - STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL", PP 62.01 AND 62.02 FOR ACCEPTABLE METHODS AND SPECIFICATIONS FOR DUST CONTROL.
- ANY VARIATION FROM THE SEQUENCE OF OPERATIONS STATED ON THIS PLAN REQUIRES TO APPROVAL OF THE SEDIMENT CONTROL INSPECTOR AND THE ANNE ARUNDEL COUNTY SOIL CONSERVATION DISTRICT PRIOR TO THE INITIATION OF THE CHANGE.
- THE DEVELOPER MUST REQUEST THAT THE DEPARTMENT OF INSPECTIONS AND PERMITS APPROVE WORK COMPLETED IN ACCORDANCE WITH THE APPROVED EROSION AND SEDIMENT CONTROL PLAN, THE GRADING OR BUILDING PERMIT, AND THE ORDINANCE.

"IN ALL SITES WITH DISTURBED AREAS IN EXCESS OF 2 ACRES, APPROVAL OF THE DEPARTMENT OF INSPECTIONS AND PERMITS SHALL BE REQUIRED ON 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 THE INITIAL APPROVAL BY THE DEPARTMENT OF INSPECTIONS AND PERMITS IS GIVEN."

"APPROVAL SHALL BE REQUESTED ON FINAL STABILIZATION OF ALL SITES WITH DISTURBED AREAS IN EXCESS OF 2 ACRES BEFORE REMOVAL OF CONTROLS."

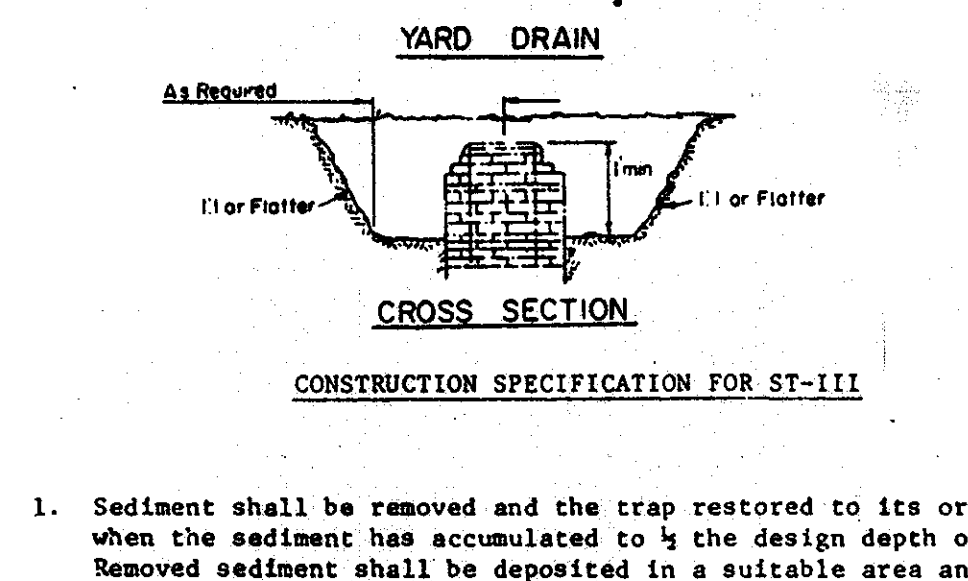
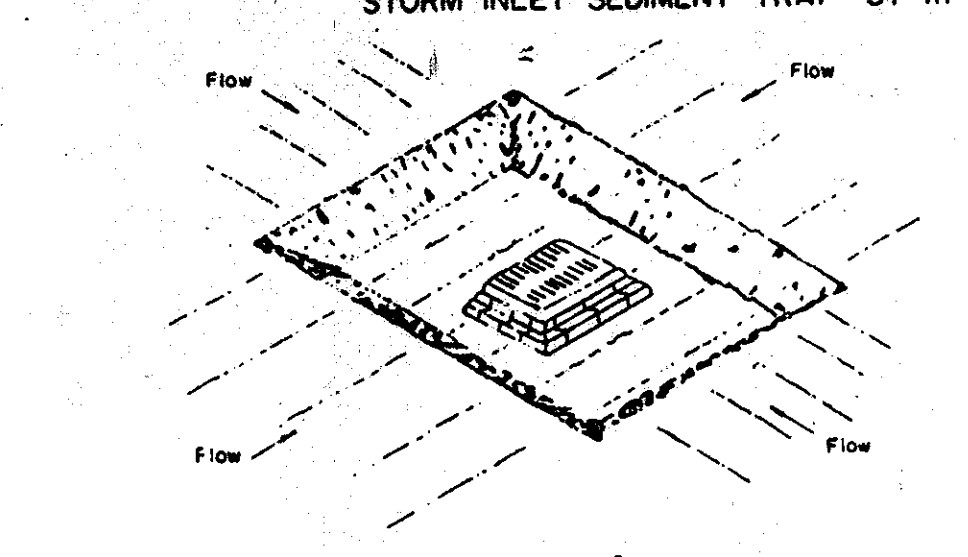
SEDIMENT CONTROL NOTES

- 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)
 - 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.
 - 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.
 - All sediment traps/basins shown must be fenced and warning signs posted around their perimeter in accordance with Vol. 1, Chapter 12, of the HOWARD COUNTY DESIGN MANUAL, Storm Drainage.
 - 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.
 - 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.
 - Site Analysis:
 - Total Area of Site: 2.36 Acres
 - Area Disturbed: 2.31 Acres
 - Area to be roofed or paved: 1.26 Acres
 - Area to be vegetatively stabilized: 1.11 Acres
 - Total Cut: 6688.00 Cu. yds
 - Total Fill: 6688.00 Cu. yds
 - Offsite waste/borrow area location (to be 2116.52 Cu. yds determined by CONTRACTOR)
 - Any sediment control practice which is disturbed by grading activity for placement of utilities must be repaired on the same day of disturbance.
 - Additional sediment controls must be provided, if deemed necessary by the Howard County DPW sediment control inspector.
- ALL EXCESS MATERIAL SHALL BE TAKEN TO A SITE WITH AN APPROVED SEDIMENT CONTROL PLAN
* CONTRACTOR TO VERIFY QUANTITIES.

DETAILS AND SPECIFICATIONS FOR VEGETATIVE ESTABLISHMENT

SITE PREPARATION

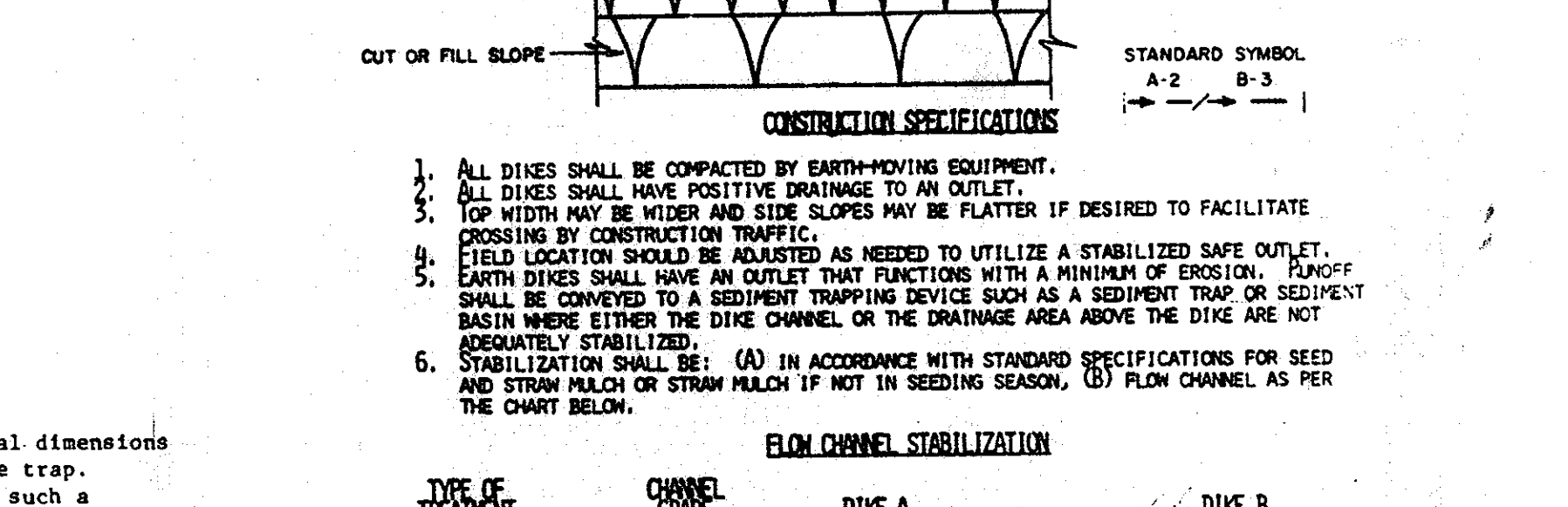
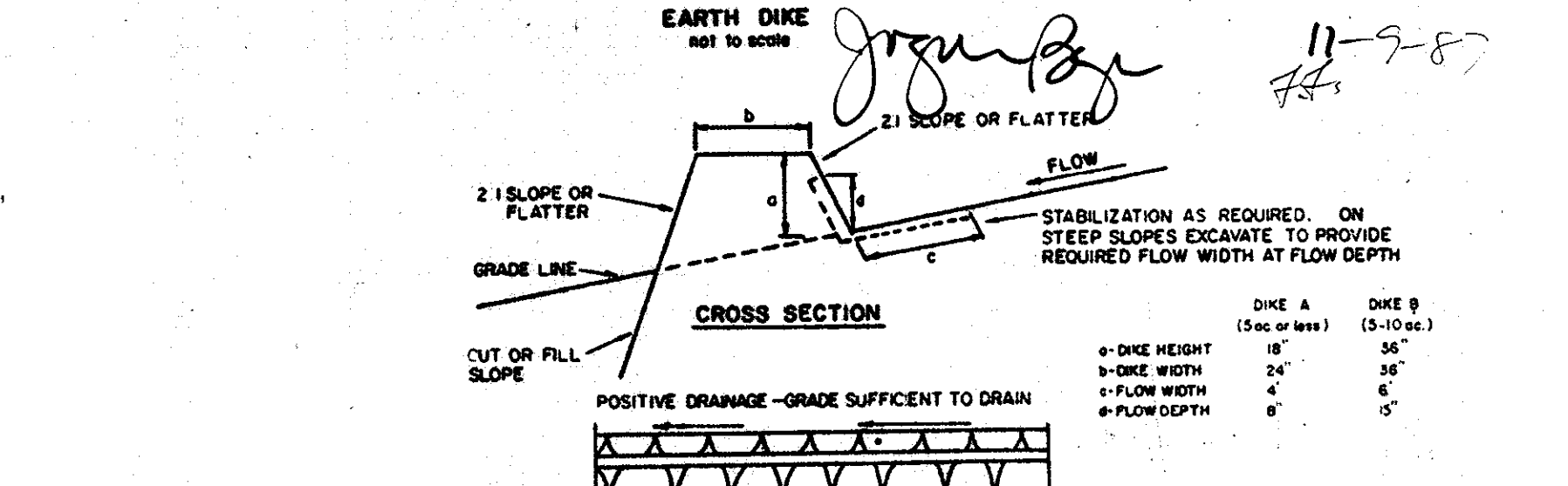
- Temporary perimeter dikes and silt traps, etc., are to be provided as per this plan prior to grading operations with location adjustments to be made in the field as necessary and to be maintained at the end of working day. The minimum area practical shall be disturbed for the minimum amount of time possible.
- Permanent seedings:
 - Seedbed preparation: Area to be seeded shall be loose and friable to a depth of at least 3". The top layer shall be loosened by raking, disking or other acceptable means before seeding occurs. In lieu of soil test results, apply 50 lbs. of dolomitic limestone and 25 lbs. of 10-10-10 fertilizer per 1,000 square feet. Harrow or disk line and fertilizer into the soil to a depth of at least 3" on slopes flatter than 3:1. No attempt should be made to dress any disked area to make the soil surface smooth after disking.
 - Seeding: Apply 5-6 lbs. per 1,000 square feet of Kentucky 31 tall fescue between February 1 and April 30 or between August 15 and October 31. Apply seed uniformly with a cyclone seeder drill, cultipacker seeder or hydroseeder (slurry includes seeds and fertilizer, recommended on steep slopes only) on a moist, firm seedbed. Maximum seed depth should be 1/4" in clayey soils and 1/2" in sandy soils when using other than the hydroseeder method. Irrigate if soil moisture is deficient to support adequate growth, until vegetation is firmly established.
 - Mulching: Mulch shall be unchopped, unrotted, small grain straw applied at a rate of 70 to 90 lbs. per 1,000 square feet. Mulch materials shall be relatively free of all kinds of weeds and shall be free of prohibited noxious weeds which are: Canada Thistle, Johnsongrass, and Quackgrass. Spread mulch mechanically or uniformly by hand; mulch anchoring shall be accomplished immediately after mulch placement to minimize loss by wind or water. This may be done by peg and wime method, mulch anchoring tool, netting or liquid mulch binders.
- Temporary Seeding:
 - Lime: 50 lbs. of dolomitic limestone per 1,000 square feet
 - Fertilizer: 15 lbs. of 10-10-10 per 1,000 square feet
 - Seeds: Perennial rye, Italian rye - 0.92 lbs. per 1,000 square feet (Feb. 1 through April 30 or Aug. 15 through Nov. 1)
 - Millet - 0.92 lbs. per 1,000 square feet (May 1 - August 15)
 - Mulch: Same as above (Nov. 2 through Jan. 31, use mulch only)
- No fills may be placed on frozen ground. All fill to be placed in approximately horizontal layers, each layer having a loose thickness of not more than 8". All fill in roadways and parking areas is to be classified Type 2 as per Anne Arundel County Grading Ordinance, Section 12-2027, and compacted to 90% density; compaction to be determined by ASTM D-1557 (Modified Proctor). Any fill within building area to be compacted to a minimum of 95% as determined by methods previously mentioned. All other fills shall be compacted sufficiently so as to be stable and prevent erosion and slippage.
- Permanent Sod:
 - Permanent sod is to be Kentucky 31 tall fescue state approved sod; lime and fertilizer per permanent seeding specifications and lightly irrigate soil prior to laying sod. Sod is to be laid on the contour with all ends tightly abutting. Water and roll or tamp sod to insure positive root contact with the soil. All slopes greater than 3 to 1, as shown, are to be permanently sodded. Additional watering for establishment may be required. Sod is not to be applied on frozen ground.



CONSTRUCTION SPECIFICATION FOR ST-III

- Sediment shall be removed and the trap restored to its original dimensions when the sediment has accumulated to 1/2 the design depth of the trap. Removed sediment shall be deposited in a suitable area and in such a manner that it will not erode.
- The volume of sediment storage shall be 1800 cubic feet per acre of contributory drainage.
- The structure shall be inspected after each rain and repairs made as needed.
- Construction operations shall be carried out in such a manner that erosion and water pollution shall be minimized.
- The sediment trap shall be removed and the area stabilized when the constructed drainage area has been properly stabilized.
- All cut slopes shall be 1:1 or flatter.

Maximum Drainage Area: 3 Acres



CONSTRUCTION SPECIFICATIONS

- All dikes shall be compacted by earth-moving equipment.
- All dikes shall have positive drainage to an outlet.
- Top width may be wider and side slopes may be flatter if desired to facilitate crossing by construction equipment.
- FIELD LOCATION SHOULD BE ADJUSTED AS NEEDED TO UTILIZE A STABILIZED SAFE OUTLET. EARTH DIKES SHALL HAVE AN OUTLET THAT FUNCTIONS WITH A MINIMUM OF EROSION. FLOW OF EARTH DIKES SHALL BE CONVEYED TO A SEDIMENT TRAPPING DEVICE SUCH AS A SEDIMENT TRAP OR SEDIMENT BASIN WHERE EITHER THE DIKE CHANNEL OR THE DRAINAGE AREA ABOVE THE DIKE ARE NOT ADEQUATELY STABILIZED.
- STABILIZATION SHALL BE: (A) IN ACCORDANCE WITH STANDARD SPECIFICATIONS FOR SEED AND STRAW MULCH OR STRAW MULCH IF NOT IN SEEDING SEASON, (B) FLOW CHANNEL AS PER THE CHART BELOW.

FLOW CHANNEL STABILIZATION

TYPE OF TREATMENT	CHANNEL WIDTH	DIKE A	DIKE B
1	5-3.0%	SEED AND STRAW MULCH	SEED AND STRAW MULCH
2	3.1-5.0%	SEED AND STRAW MULCH	SEED WITH JUTE, OR EXCELISOR; SOG; 2" STONE
3	5.1-8.0%	SEED WITH JUTE, OR SOG	LINED RIP-RAP 4-8"
4	8.1-20%	LINED RIP-RAP 4-8"	ENGINEERING DESIGN

A. STONE TO BE 2 INCH STONE, OR RECYCLED CONCRETE EQUIVALENT, IN A LAYER AT LEAST 3 INCHES IN THICKNESS AND BE PRESSED INTO THE SOIL WITH CONSTRUCTION EQUIPMENT.
B. RIP-RAP TO BE 4-8 INCHES IN A LAYER AT LEAST 8 INCHES THICKNESS AND PRESSED INTO THE SOIL.
C. APPROVED EQUIVALENTS CAN BE SUBSTITUTED FOR ANY OF THE ABOVE MATERIALS.
7. PERIODIC INSPECTION AND REQUIRED MAINTENANCE MUST BE PROVIDED AFTER EACH RAIN EVENT.

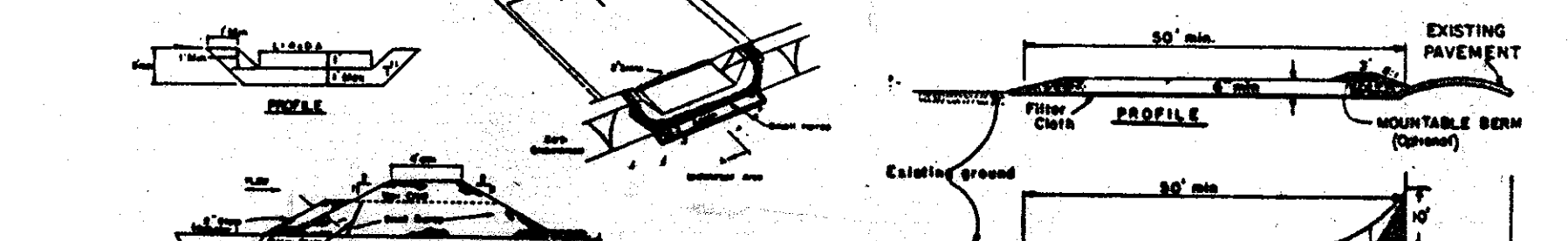
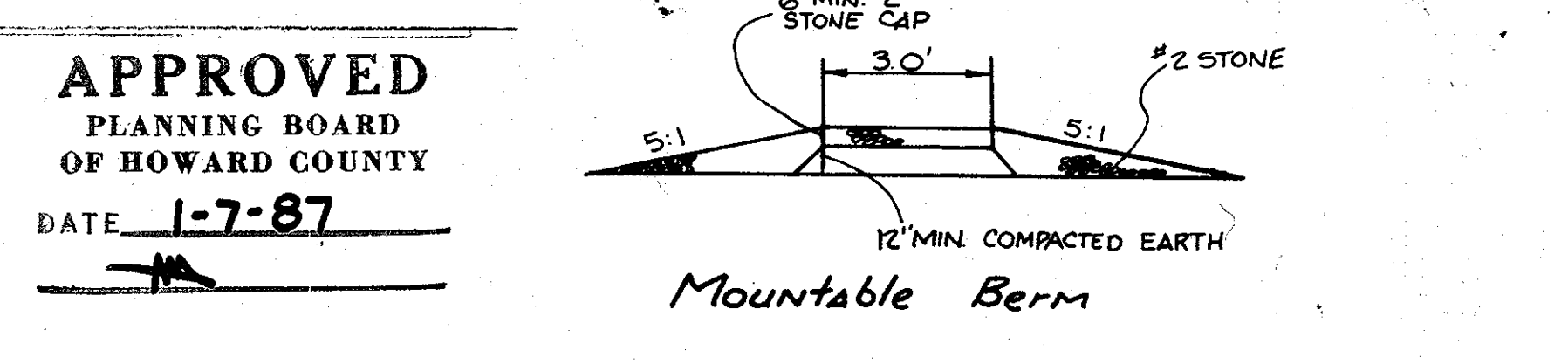
APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS; HOWARD COUNTY HEALTH DEPARTMENT
COUNTY HEALTH OFFICER [Signature] DATE 11-13-87

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING
PLANNING DIRECTOR [Signature] DATE 11-19-87

CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION
[Signature] DATE 18 NOV 87

APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS.
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
DIRECTOR [Signature] DATE 11/2/87

OWNER / DEVELOPER
C-5 Office Owner: Elmhurst Associates Ltd. Partnership
C-5 Office Owner: Elmhurst Associates Ltd. Partnership
General Partner: [Signature] DATE 11-2-87



- Stone dike - 2" to 3" stone, as specified on recycled concrete equivalent.
- Length - as required, but not less than 50 feet (except on a single existing dike where longer or greater width).
- Minimum - 6" min. stone size (6" min. stone size).
- Width - 24" min. stone width, but not less than the full width of existing dike where longer or greater width.
- Filter cloth - shall be placed over the entire area prior to placing of stone. Filter cloth may be replaced on a sliding track mechanism.
- Surface slope - All surface water flowing or directed toward construction entrance shall be placed across the entrance. If proper is impractical, a minimum berm with 5:1 slope will be permitted.
- Stabilization - The dike shall be stabilized by a combination which will prevent tracking or sliding of sediment onto public right-of-way. This may include mulching, seeding, or application of straw or mulch. All sediment shall be removed and the area stabilized when the drainage area has been properly stabilized.
- Mulching - Mulch shall be placed on entire surface prior to placement of stone. Mulch shall be applied in such a manner that it will not be washed away with stone and which drains into an approved sediment trapping device.
- Periodic inspection and needed maintenance shall be provided after each rain event.

STATE OF MARYLAND PROFESSIONAL ENGINEER [Signature] DATE 11/2/87
STATE OF MARYLAND PROFESSIONAL ENGINEER [Signature] DATE 11/2/87

Detail Sheet
Lots C-5 & C-6
VILLAGE OF OWEN BROWN
Section 2 Area 2
6th Election District
Howard County, Md.
Tax Map 42 Par 397

SCALE	As Noted
DRAWN	KLS
CHECKED	LDD
PROJ. NO.	4810
DATE	7/10/86
SHEET	6 OF 7

