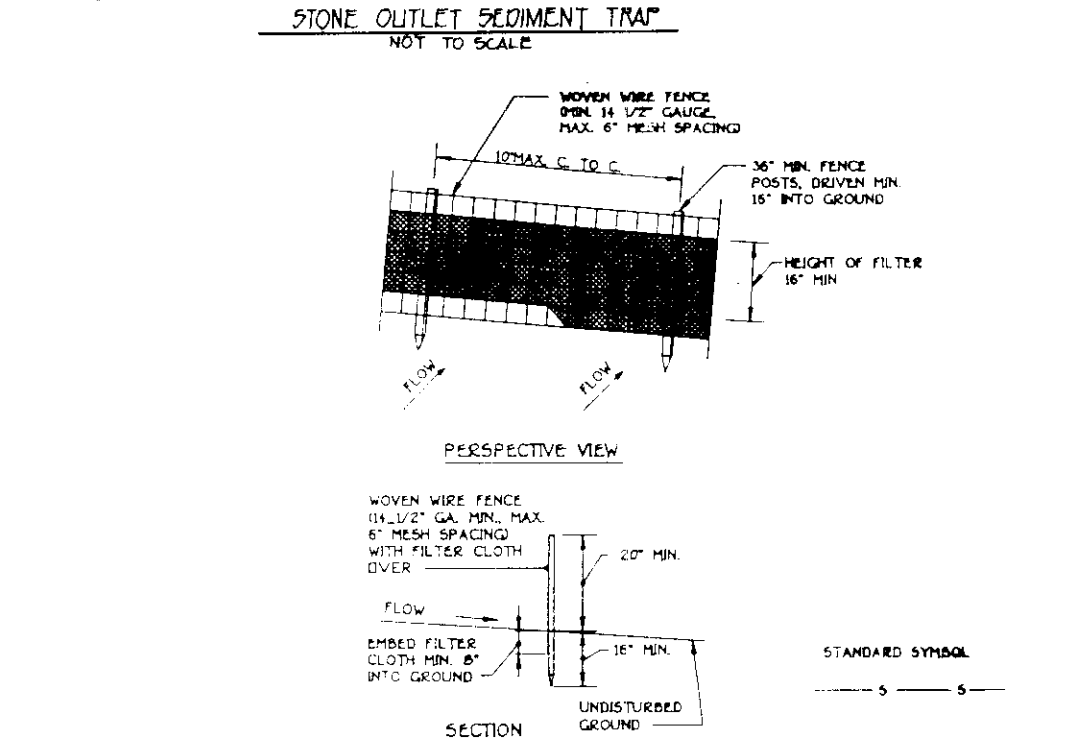
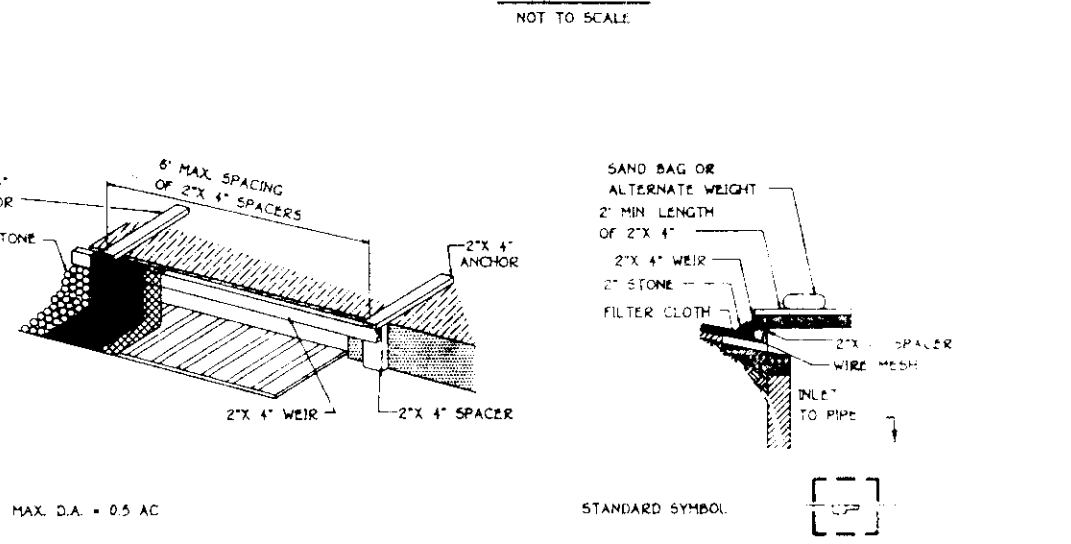


- OPTION:** A one foot layer of 2" stone may be placed on the upstream side of the riprap in place of the embedded filter cloth.
- CONSTRUCTION SPECIFICATIONS FOR ST-21:**
- Area under embankment shall be cleared, grubbed and stripped of any vegetation and root mat. The pool area shall be cleared.
 - The fill material for the embankment shall be free of rocks and other woods vegetation as well as overhanging rocks, rocks, organic material or other objectionable material. The embankment shall be constructed by spreading with equipment while it is being constructed.
 - All cut and fill slopes shall be 2:1 or flatter.
 - The stone used in the outlet shall be small riprap 4" to 8" along with a 1" thickness of 2" aggregate placed on the upgrade side on the small riprap embedded filter cloth in the riprap.
 - Sediment shall be removed and trap restored to the original dimensions when the sediment has accumulated to the design depth of the trap.
 - 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 is minimized.
 - The structure shall be removed and the area stabilized when the drainage area has been properly established.



- CONSTRUCTION NOTES FOR FABRICATED SALT FENCE:**
- 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 2' at top and bottom section.
 - When two sections of filter cloth abut each other they shall be secured by six inches and folded.
 - Maintenance shall be performed as needed and material removed when "flooded" develop in the salt fence.

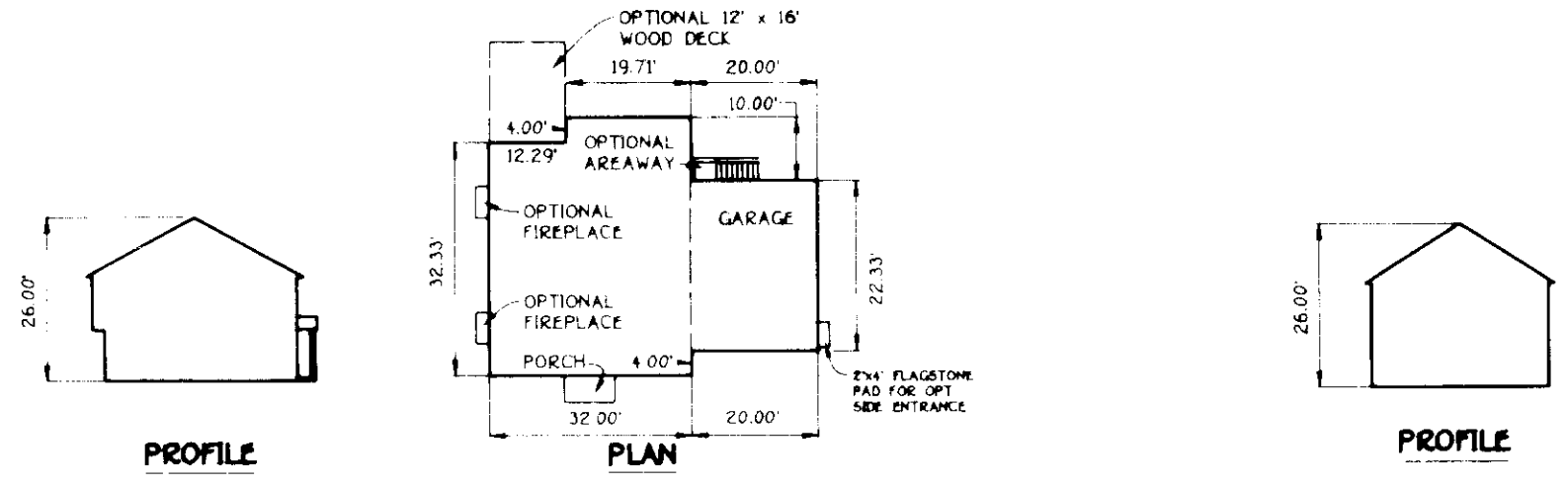


- SLT FENCE:** NOT TO SCALE
- ATTACH A CONTINUOUS PIECE OF WIRE MESH (20" DIA) WITH BY THROAT LENGTH PLUS 1" TO THE 2" X 4" WEIR (2" WASHING THROAT LENGTH PLUS 2" AS SHOWN IN STANDARD DRAWING).
 - PLACE A PIECE OF APPROVED FILTER CLOTH (45-90) ON THE SAME DIMENSIONS AS THE WIRE MESH OVER THE WIRE MESH AND SECURELY ATTACH TO THE 2" X 4" WEIR.
 - SECURELY NAIL THE 2" X 4" WEIR TO 9" LONG VERTICAL SPACERS TO BE LOCATED BETWEEN THE WEIR AND THE 1" FACE (MAX. 2" SPACER).
 - PLACE THE ASSEMBLY AGAINST THE WEIR THROAT AND MAX. 2" LENGTH OF 2" X 4" WEIR TO THE TOP OF THE WEIR AT SPACER LOCATIONS. THESE 2" X 4" ANCHORS SHALL EXTEND ACROSS THE WEIR TOP AND BE HELD BY SANDBAGS OR ALTERNATE MEANS.
 - THE ASSEMBLY SHALL BE PLACED SO THAT THE END SPACERS ARE A MINIMUM OF 6" BEYOND BOTH ENDS OF THE THROAT OPENING.
 - FOR THE WIRE MESH AND FILTER CLOTH TO BE SECURELY ATTACHED TO THE WEIR AND TO PREVENT WATER FROM ENTERING THE WEIR 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.
 - ASSURE THAT STORM FLOW DOES NOT BYPASS INLET BY INSTALLING TEMPORARY BARRIERS OR ANIMAL DEVICES DIRECTING FLOW INTO INLET.

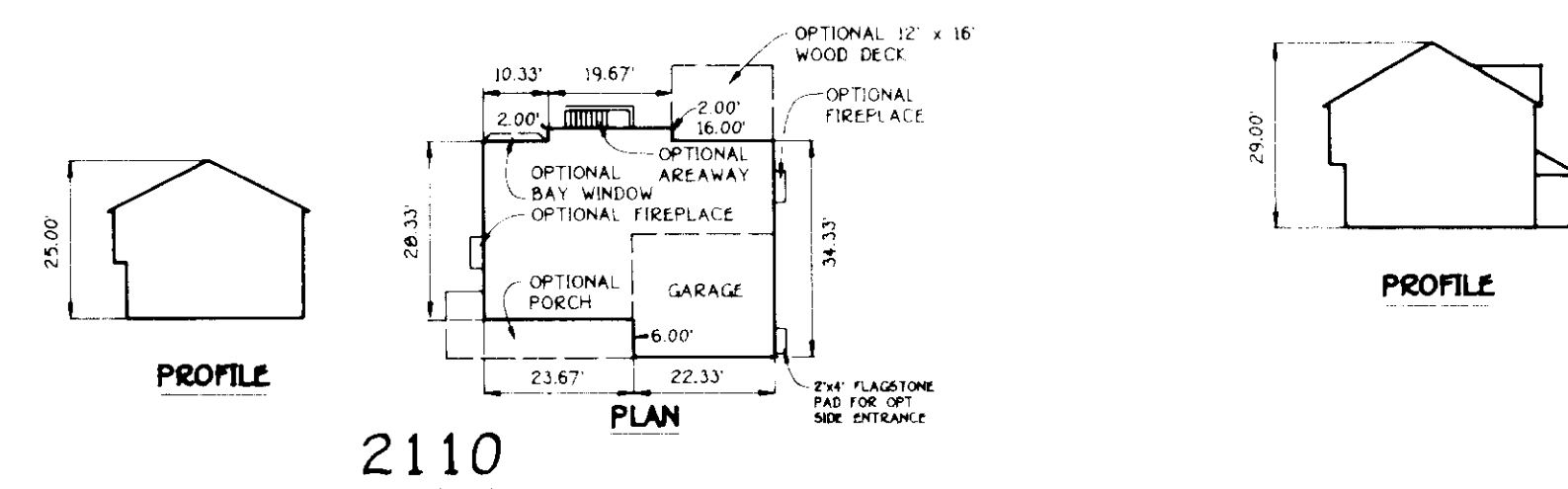


GENERIC SITE DEVELOPMENT PLAN - NOTES AND DETAILS

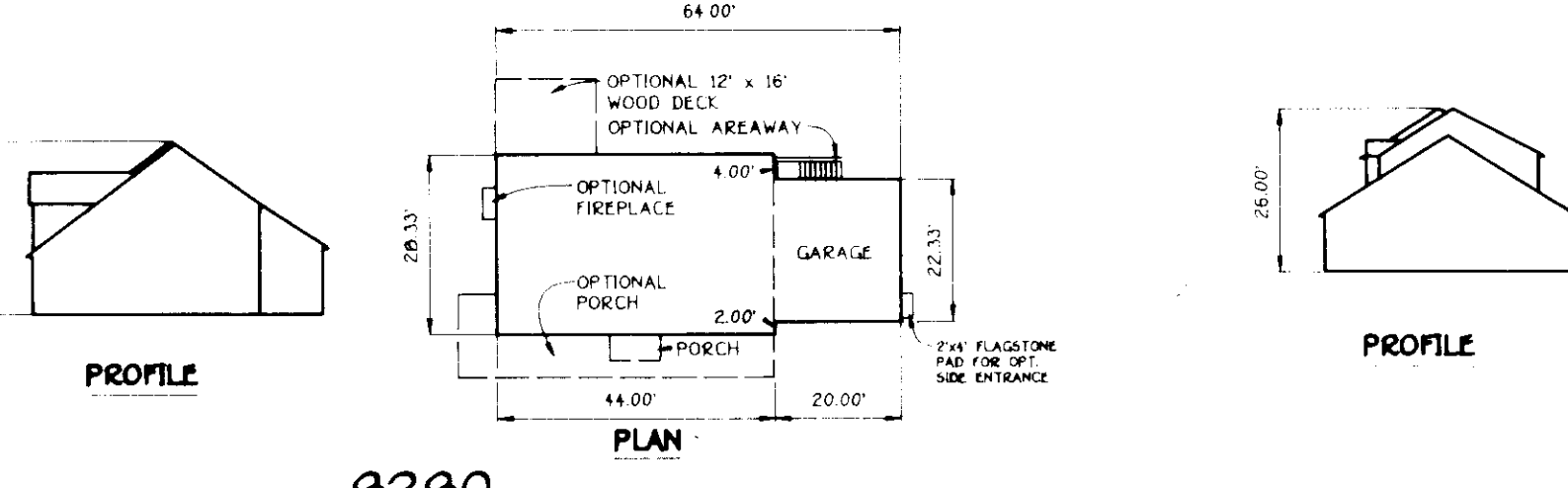
7-94-04	LOTS 152-161	P 94-04
F 90-12C		F 94-12C
WAVERLY WOODS SECTION 3, AREA 1		
ZONING R-20		
TAX MAP: 16 LOTS 22 thru LOTS 37 PARCEL 21		
THIRD ELECTION DISTRICT HOWARD COUNTY, MARYLAND		
SCALE: 1" = 30'		
CENSUS TR. G030		
AUGUST 25, 1994		
SHEET 2 of 2		



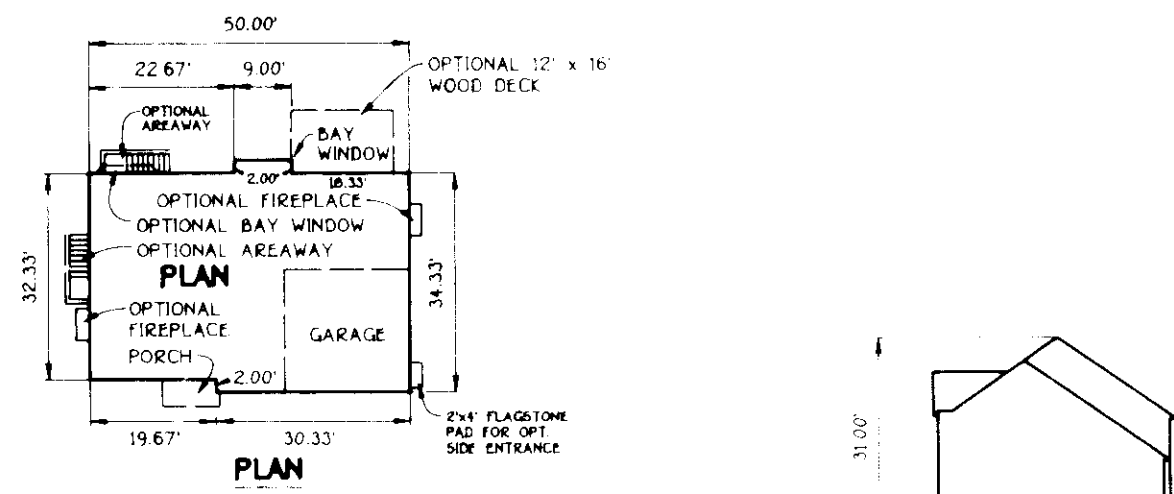
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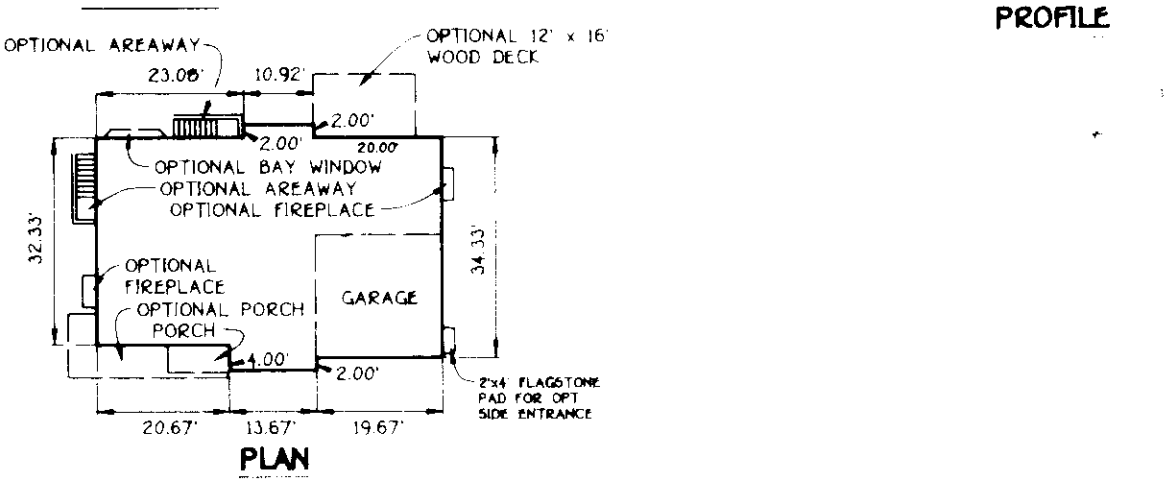
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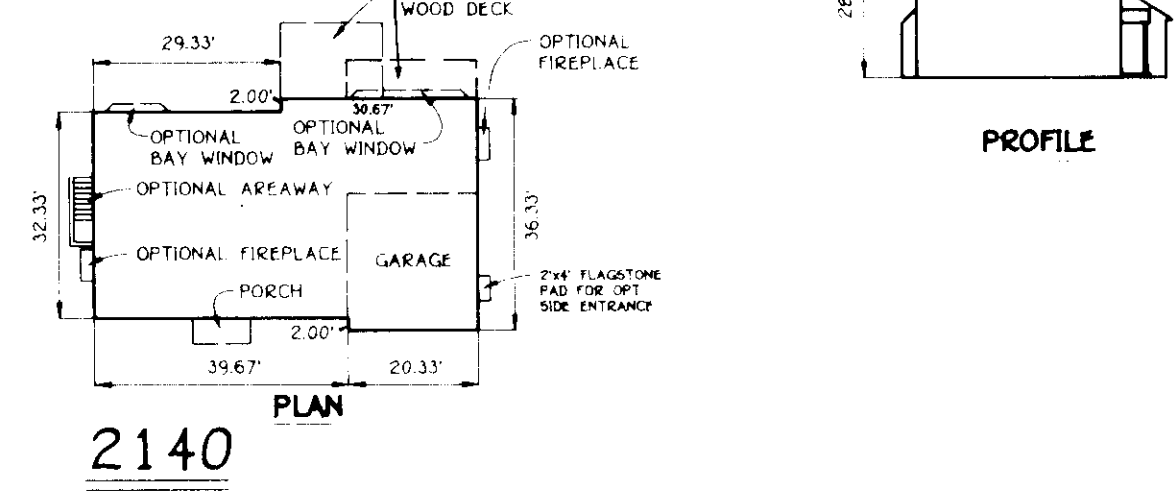
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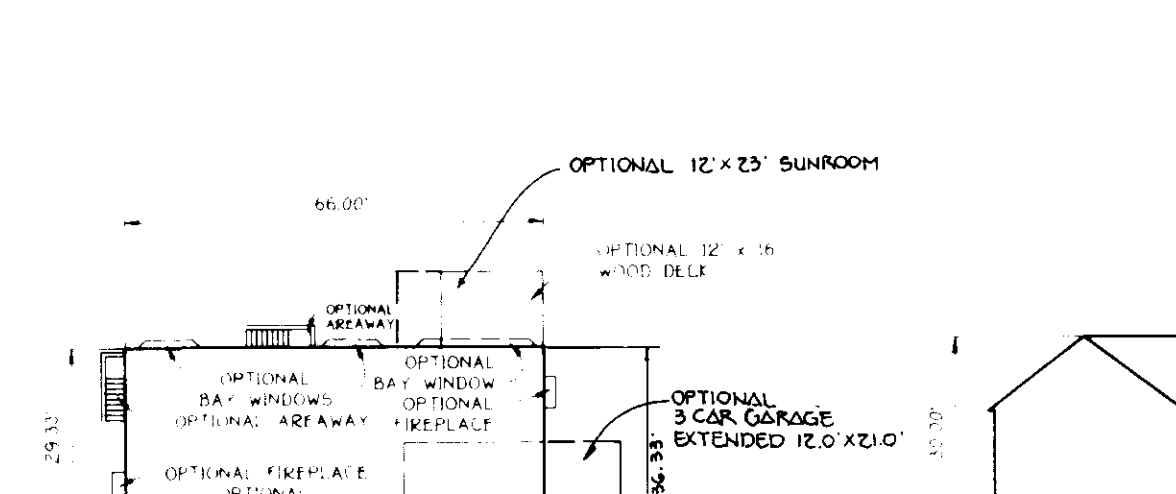
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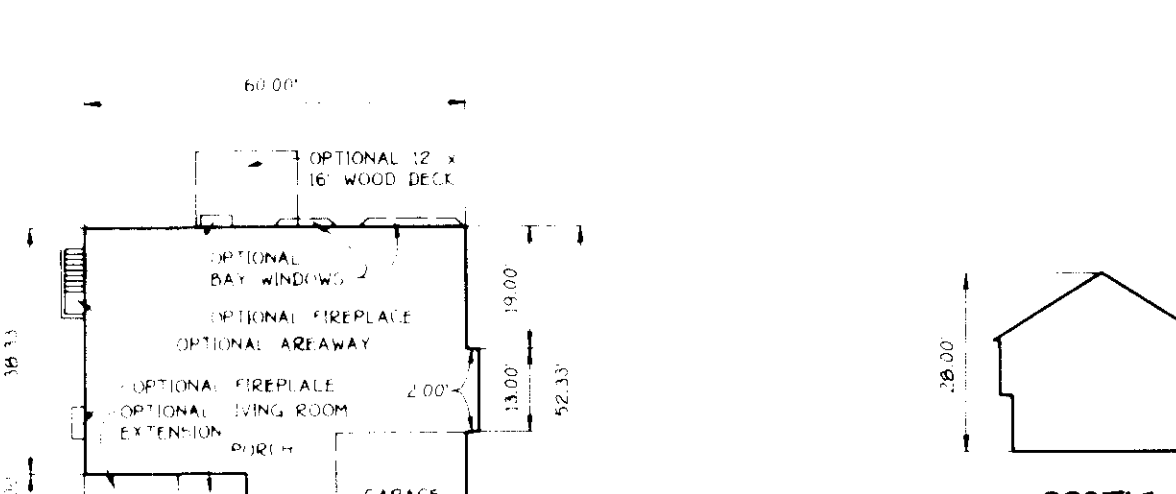
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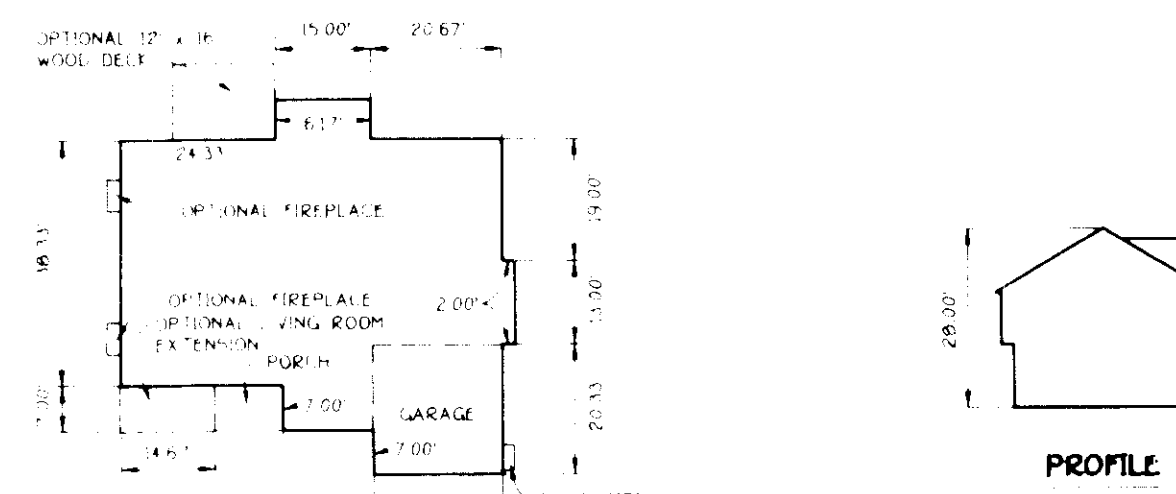
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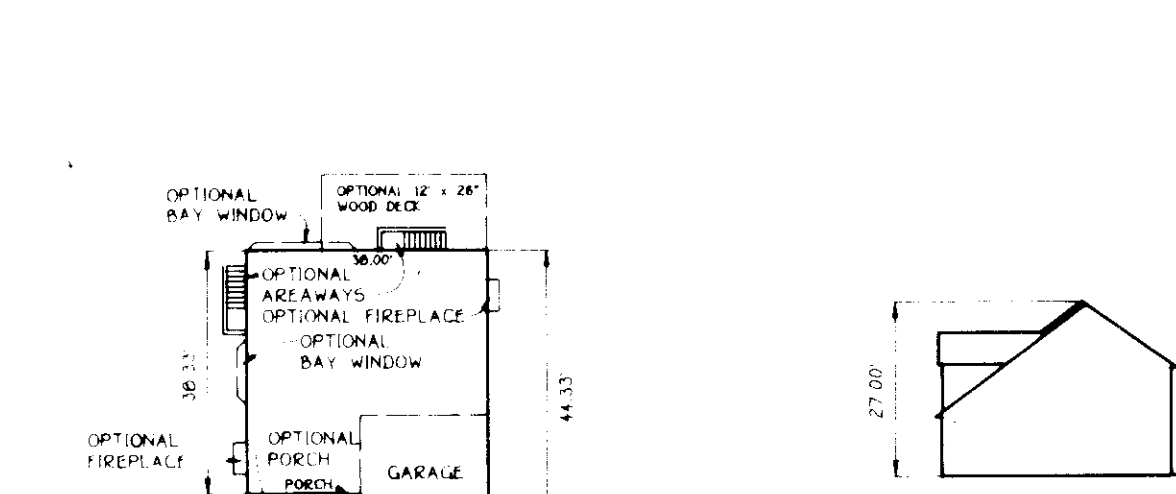
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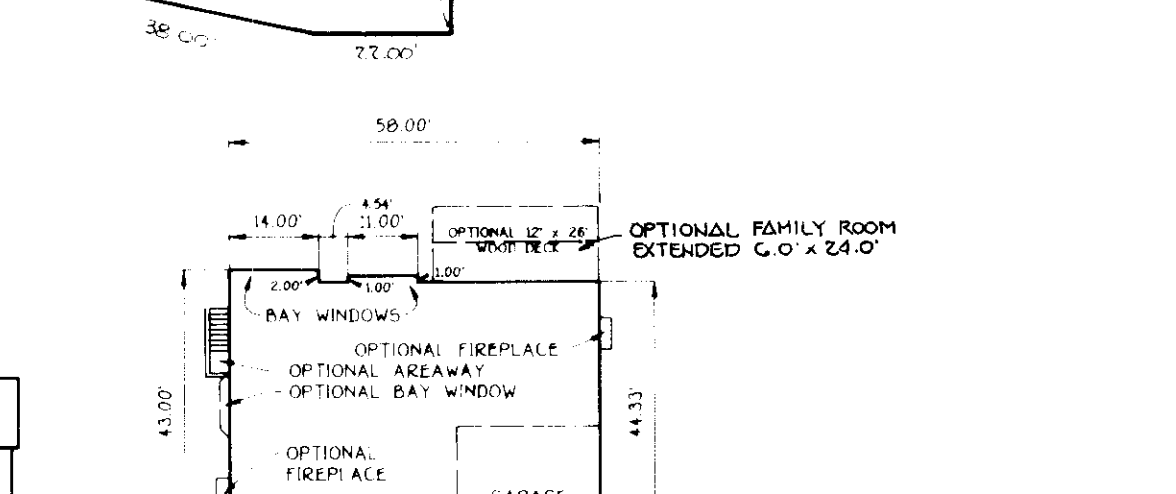
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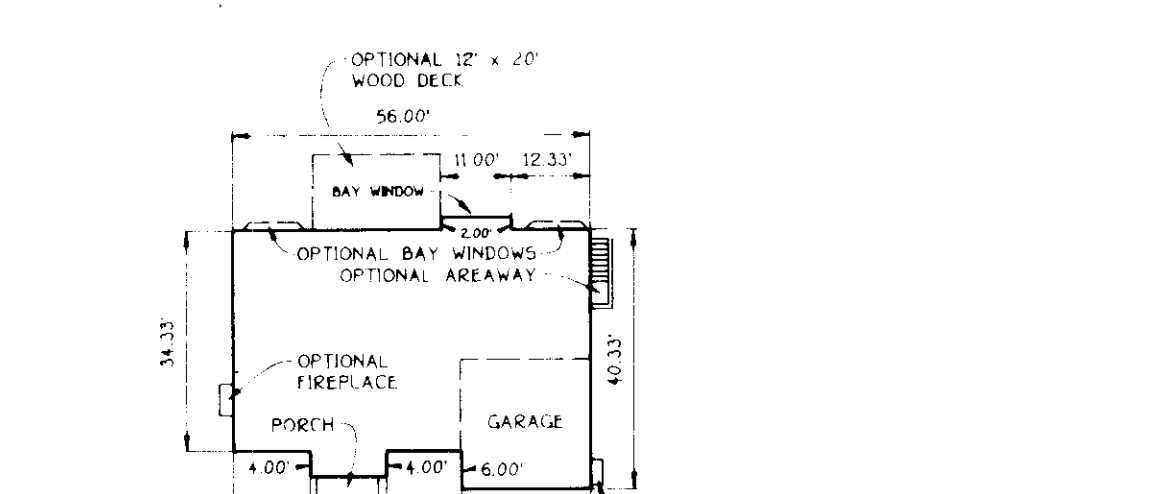
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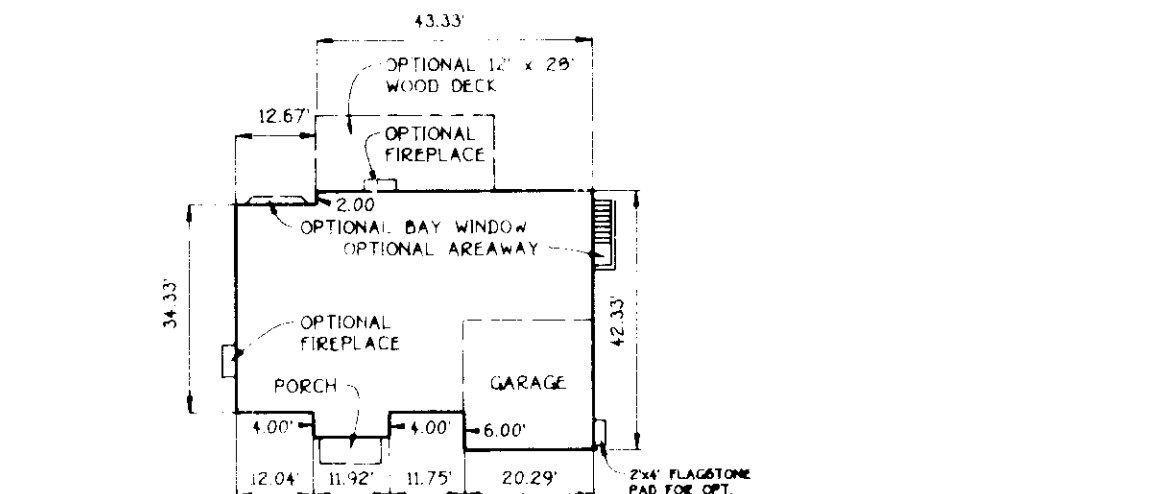
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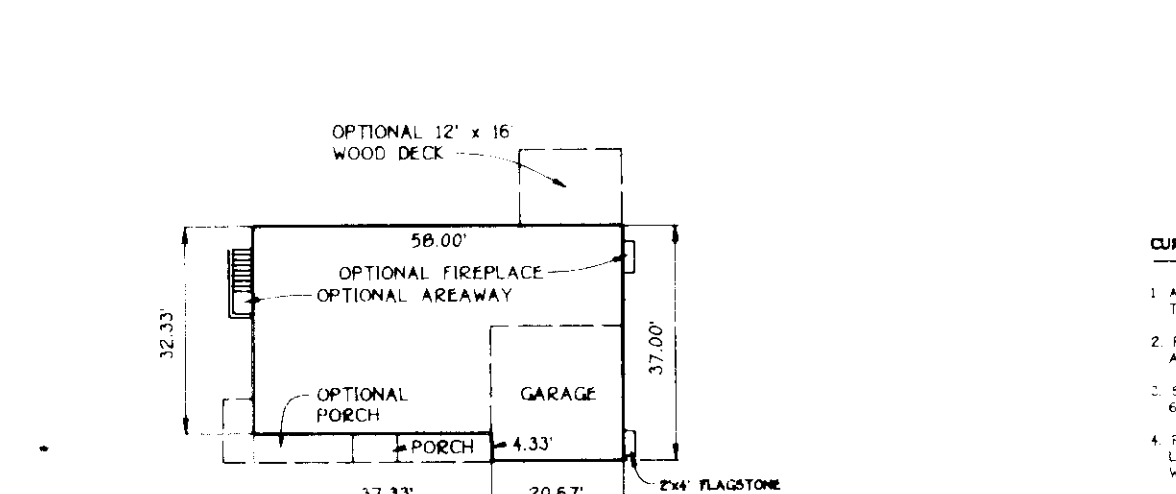
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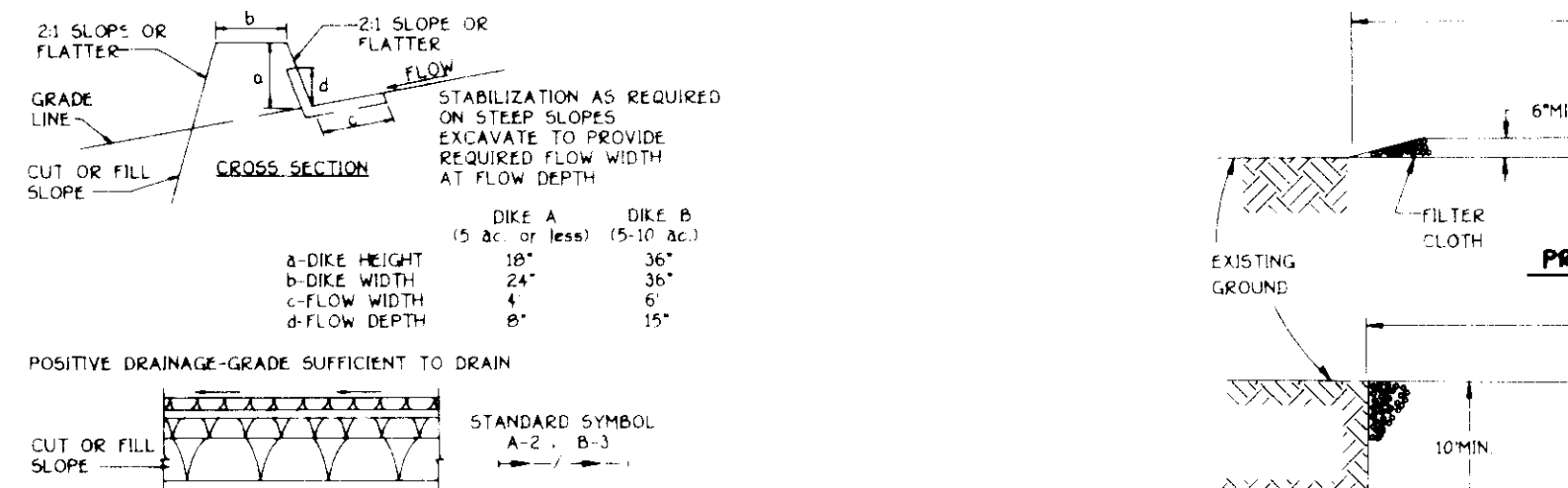
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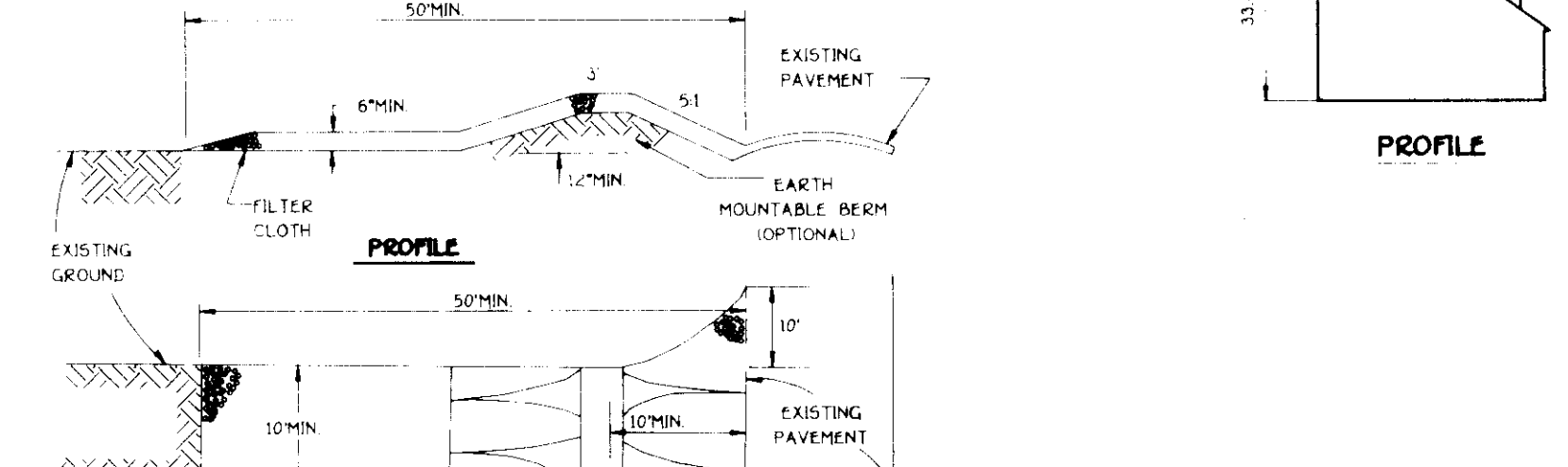
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8290



- 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 TRAFFIC.
 - 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 RUNOFF SHALL BE CONVEYED TO A SEDIMENT BASIN WHERE EITHER THE DIKE CHANNEL OR THE DRAINAGE AREA ABOVE THE DIKE ARE NOT ADEQUATELY STABILIZED.
 - STABILIZATION SHALL BE 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 CHANNEL | GRADE | DIKE A | DIKE B |
|-----------------|----------|---------------------------------|---|
| 1 | 5:1-3:1 | SEED AND STRAW MULCH | SEED AND STRAW MULCH |
| 2 | 3:1-5:1 | SEED AND STRAW MULCH | SEED USING AUTE OR EXCELISOR, SOB, 2" STONE LINED RIP-RAP 4'-6" |
| 3 | 5:1-8:1 | SEED WITH AUTE OR SOB, 2" STONE | LINED RIP-RAP 4'-6" |
| 4 | 8:1-20:1 | LINED RIP-RAP 4'-6" | 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 INCHES IN A LAYER AT LEAST 6 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.



- STABILIZED CONSTRUCTION ENTRANCE - 2** NOT TO SCALE
- STONE SIZE - USE 2" STONE OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
 - LENGTH - AS REQUIRED, BUT NOT LESS THAN 50 FEET EXCEPT ON A SINGLE RESIDENCE LOT WHERE A 30 FOOT MINIMUM LENGTH WOULD APPLY.
 - THICKNESS - NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS.
 - WIDTH - TEN (10) FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS.
 - 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.
 - 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.
 - MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY 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 MUST BE REMOVED IMMEDIATELY.
 - 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.
 - PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

BUILDER
 RICHMOND AMERICAN
 3701 PENDER DRIVE
 FAIRFAX, VIRGINIA
 22030

OWNER
 MR. KENNARD R. WARFIELD JR.
 7/8 WARFIELD BROTHERS
 14663 TRIDELPHIA ROAD
 COLUMBIA, MARYLAND
 21044

DEVELOPER
 MR. KENNARD R. WARFIELD JR.
 56 LAND DESIGN AND DEVELOPMENT INC.
 10805 HICKORY RIDGE ROAD
 COLUMBIA, MARYLAND
 21044

FISHER, COLLINS & CARTER, INC.
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
 971 BALTIMORE NATIONAL PIKE, SUITE 100
 ELLETTT CITY, MARYLAND 21042
 (410) 461-2855

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.

 SIGNATURE OF ENGINEER

 DATE

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

 SIGNATURE OF DEVELOPER

 DATE

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS

 PATRICIA COCHRAN
 U.S. SOIL CONSERVATION SERVICE
 9/19/94

 JOHN R. ROBERTSON
 DISTRICT
 9/9/94

APPROVED: DEPT. OF PLANNING AND ZONING

 PLANNING DIRECTOR
 9/26/94

 9/22/94

APPROVED: DEPARTMENT OF PUBLIC WORKS FOR PUBLIC WATER & SEWER AND STORM DRAINAGE SYSTEMS AND ROADS.

 DIRECTOR PUBLIC WORKS
 9/16/94

 9/16/94

PROPERTY/SUBDIVISION: WAVERLY WOODS
 BLOCK NO.: G-12
 ZONE: R-20
 TAX/ZONE: 16
 ELEC. DIST.: 3rd
 CENSUS TR.: G030

PARCEL/LOT NO.: 152-161

THIRD ELECTION DISTRICT: HOWARD COUNTY, MARYLAND

SCALE: 1" = 30'

SHEET 2 of 2