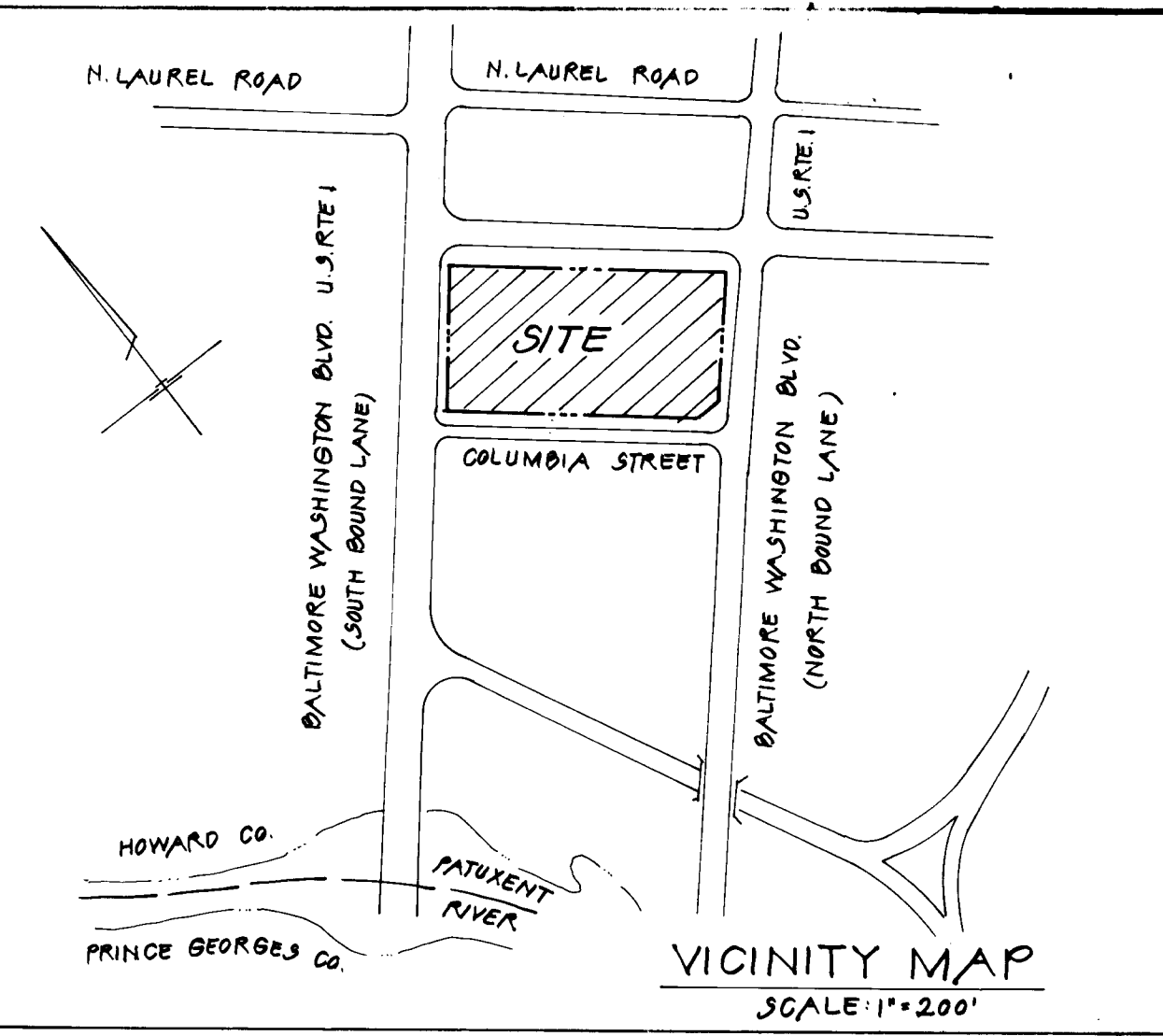


- ### SEDIMENT & EROSION CONTROL SEQUENCE OF OPERATIONS
1. NOTIFY HOWARD COUNTY BUREAU OF INSPECTIONS; PERMITS AT LEAST 24 HRS. BEFORE BEGINNING WORK.
  2. CLEAR & GRUB FOR & INSTALL S.C.E. & S.B.D. WHERE SHOWN. CONSTRUCT PERMANENT DIVERSION BERM.
  3. INSTALL 12" OCCMP & CONCRETE COLLAR @ EXISTING 18" O.D. S.E. CORNER OF SITE.
  4. INSTALL SILT PROTECTION @ 12" OUTFALL.
  5. CLEAR, GRUB, & ROUGH GRADE SITE.
  6. INSTALL STONE BASE IN PARKING & DRIVEWAY AREAS.
  7. BUILDING CONSTRUCTION PHASE
  8. FINE GRADE & STABILIZE ALL DISTURBED AREAS TO BE SEEDED & MULCHED.
  9. WHEN ALL DISTURBED AREAS HAVE BEEN STABILIZED BY BASE STONE OR SEED & MULCH, REMOVE TEMPORARY S.C. MEASURES AFTER OBTAINING PERMISSION FROM SOIL CONSERVATION DISTRICT.

TOTAL AREA OF DISTURBANCE = 1.2 AC (52,272 SF)  
 TOTAL EARTH MOVEMENT = 4.25 CY (BALANCED JOB)  
 AREA TO BE VEGETATIVELY STABILIZED = 0.48 AC (20,908 SF)



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.  
 JOSEPH G. PEELER JR. 10/31/83 DATE  
 P.E. NO. 2561

I CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN AND THAT RESPONSIBLE 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 THE PROJECT.  
 MORRIS HELMAN 10/2/83 DATE  
 MORRIS HELMAN

REVIEWED FOR: HOWARD SOIL CONSERVATION DISTRICT  
 AND MEETS TECHNICAL REQUIREMENTS  
 M.H. Sully 3-13-84 DATE  
 SIGNATURE U.S. SOIL CONSERVATION DISTRICT

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY HOWARD SOIL CONSERVATION DISTRICT  
 APPROVED: Robert Ziehm 3-13-84 DATE  
 HOWARD SOIL CONSERVATION DISTRICT

APPROVED FOR PUBLIC WATER & PUBLIC SEWERAGE SYSTEM  
 HOWARD COUNTY HEALTH DEPARTMENT  
 STATE HEALTH OFFICER 3-22-87 DATE

APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING  
 PLANNING DIRECTOR 3-23-84 DATE  
 JAMES H. MURPHY

APPROVED: DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION  
 3-23-84 DATE  
 JAMES H. MURPHY

APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE, AND STORM DRAINAGE SYSTEMS AND ROADS.  
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
 DIRECTOR 3-20-84 DATE  
 JAMES H. MURPHY

CHIEF, BUREAU OF ENGINEERING 3-23-84 DATE  
 JAMES H. MURPHY

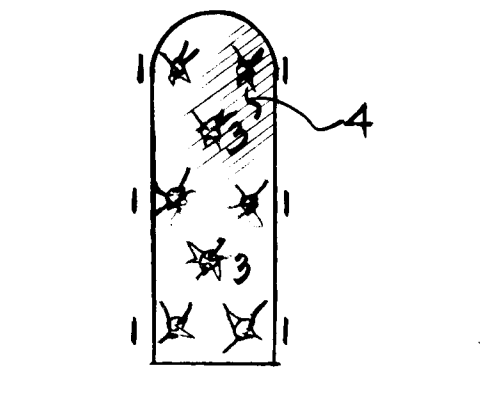
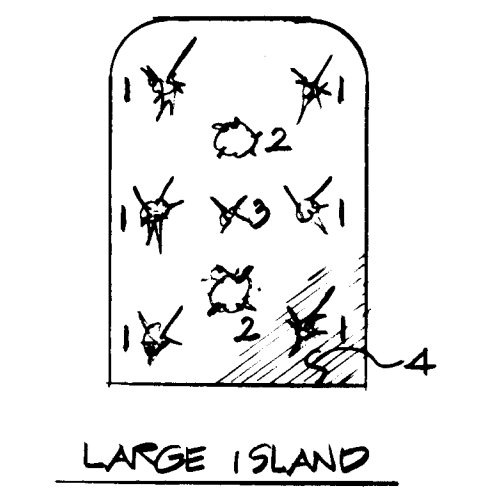
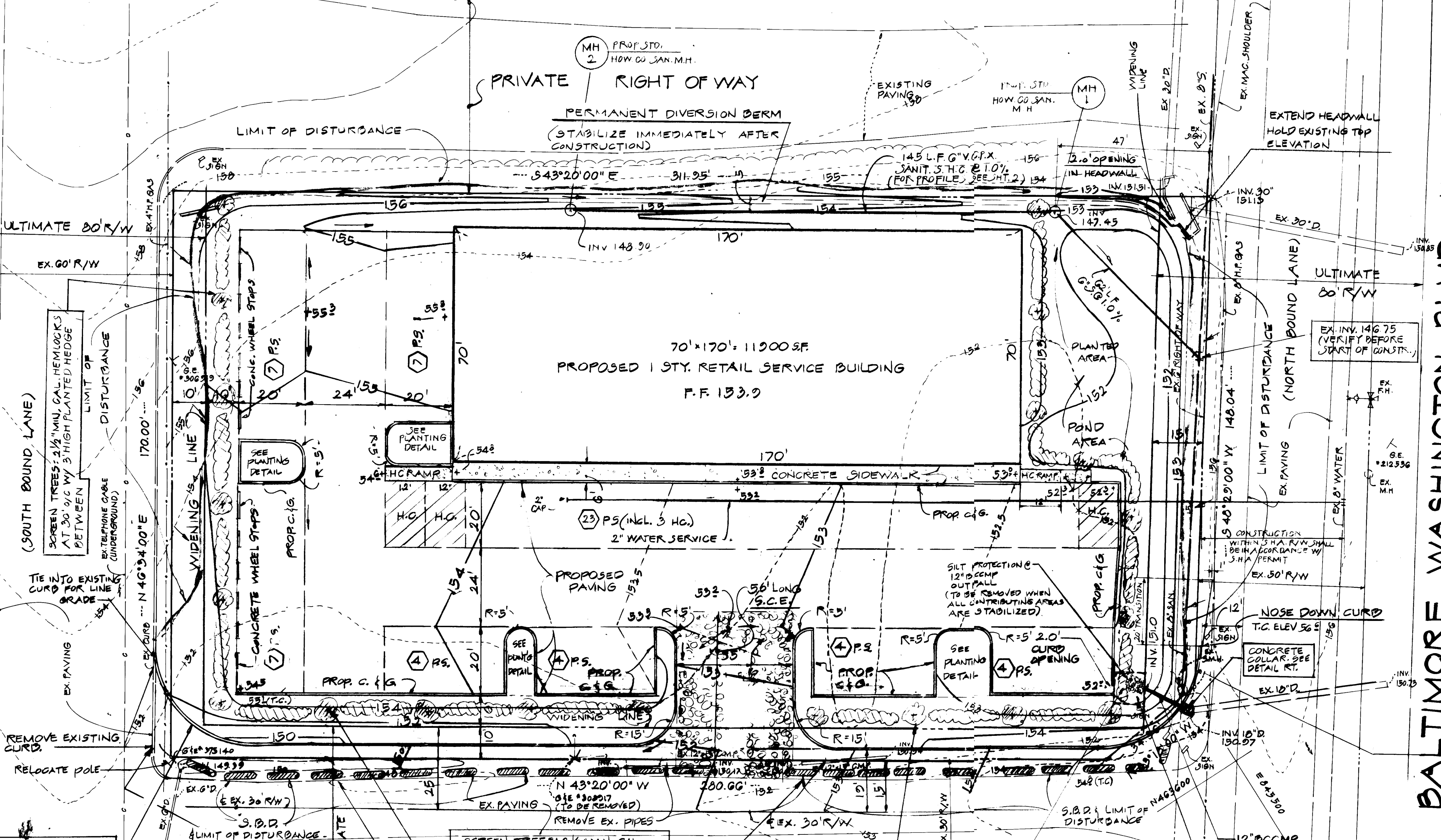
SUBDIVISION NAME	SECT./AREA	LOT/PARCEL
HELMAN PROPERTY		447
PLAT # OR L/F	BLOCK #	ZONE
#1024/G11	10	B-2
		TAX/ZONE MAP
		50
		ELEC. DIST
		6TH
		CENSUS TR
		6063
WATER CODE:		SEWER CODE:
LOT NO.: PARCEL 447		STREET ADDRESS: 10110 U.S. ROUTE 1

BALTIMORE WASHINGTON BLVD. U.S. RTE. 1

BALTIMORE WASHINGTON BLVD. U.S. RTE. 1

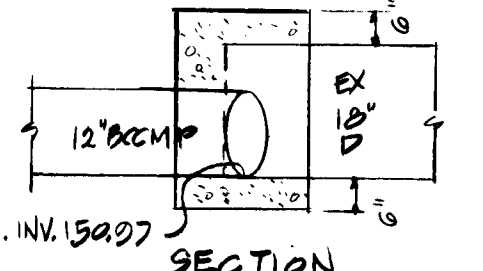
PROFILE ALONG FLOW LINE OF S.W.M. BASIN

SCALE: 1"=40' HOR. 1"=1' VERT.

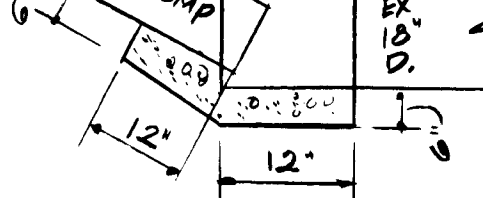


- ### PLANT LIST
1. BLUE RUG JUNIPER (MIN 24" SPREAD)
  2. NELLIE R. STEVENS (MIN. 2' HEIGHT)
  3. PRITZER JUNIPER (MIN. 2' HEIGHT)
  4. 3" DEEP WASHED GRAVEL OR WHITE STONE CHIPS

PARKING ISLAND PLANTING DETAIL



SECTION



PLAN

CONCRETE COLLAR DETAIL NOT TO SCALE

CONSTRUCT STD. S.H.A. TYPE 'A' CONC. CURB & GUTTER AS SHOWN. RADIUS = 30'



DETAIL OF SILT PROTECTION @ OUTFALL NOT TO SCALE

NOTE THE CONTRACTOR SHALL CONTACT "MISS" UTILITY PRIOR TO START OF ANY SITE CONSTRUCTION

RESURFACE IN THIS AREA WHERE NECESSARY AT THE DIRECTION OF THE ENGINEER IN THE FIELD

NOTE: OPEN SPACE COMP. 1. SITE AREA = 11,200 S.F. 2. OPEN SPACE REQ'D = 20% x 52,054 = 10,411 S.F. 3. OPEN SPACE PROVIDED = 12,323 S.F. = 35% GREEN AREA

NOTE: EXTERIOR LIGHTING SHALL BE DIRECTED/REFLECTED AWAY FROM ADJACENT ROAD RWS OR RESIDENTIALLY ZONED AREAS

NOTE: BITUMINOUS CONCRETE BAND DESIGNATIONS ARE STATE HIGHWAY ADMINISTRATION. BITUMINOUS CONCRETE, MAGADAM, DENSE GRAVEL AGGREGATE AND OR GRAVE SHALL BE MIXED AND PLACED IN ACCORDANCE WITH MD.S.H.A. SPECIFICATIONS. A TACK COAT OF 0.05 GAL/SQ YD OF AS-4 SHALL BE APPLIED TO EACH UNDERLYING LAYER OF BITUMINOUS CONCRETE PRIOR TO PLACING SUBSEQUENT COURSES. PRIME COAT OF 0.3 GAL/SQ YD OF MC 70 SHALL BE APPLIED ON THE TOP ALL GRANULAR BASE COURSES.

STANDARD 7" COMBINATION CURB & GUTTER PAVEMENT SECTION DETAIL NOT TO SCALE

NOTE: ON SITE PAVING 1. 1 1/2" BITUMINOUS CONCRETE 2. 2" BITUMINOUS CONCRETE 5" OR 6" CRUSHER RUN STONE 1 1/2" BITUMINOUS CONCRETE 4 1/2" BITUMINOUS CONCRETE 6" OR 6" CRUSHER RUN STONE

NOTE: PROPERTY OWNER: MORRIS & BETTY HELMAN; WILLIAM J. BRISON 90 MORRIS HELMAN CARPET FAIR, INC., 7100 RUTHERFORD RD. BALTIMORE, MD. 21287 (301) 228-5300

NOTE: SITE ENGINEER: PEELER & COMPANY, INC. 26 THOMAS AVE BALTO. MD. 21225 (301) 636-4040

NOTE: DEED OF RECORD: LIBER 1024, FOLIO G11, DATED OCT. 14, 1980.

NOTE: GROSS SITE AREA: 11,200 S.F.

NOTE: EXISTING ZONING: B-2

NOTE: HOWARD COUNTY TAX MAP 50, PARCEL 447

NOTE: PROPOSED USE: RETAIL SERVICE

NOTE: PROPOSED BUILDING FLOOR AREA: 11,200 S.F.

NOTE: PARKING SPACES REQUIRED: 1 SPA/200 SF (11,200/200) = 56

NOTE: 10 PARKING SPACES PROVIDED = 60

NOTE: 11. ALL SITE WORK & WORK IN COUNTY R/W SHALL BE COMPLETED IN ACCORDANCE W/ HOWARD COUNTY STD. DETAILS & SPECIFICATIONS.

NOTE: 12. ELEVATIONS & COORDINATE POINTS BASED ON HOWARD COUNTY BENCH MARK MONUMENTS.

NOTE: 13. ALL AREAS OF SITE THAT ARE NOT PAVED SHALL BE STABILIZED IN ACCORDANCE WITH SEDIMENT & EROSION CONTROL SPECIFICATIONS.

NOTE: 14. PARKING LOT LANDSCAPING SUMMARY:

NOTE: A. PARKING LOT AREA = 21,200 S.F.

NOTE: B. ISLAND AREA REQUIRED = 5% x 21,200 = 1060 S.F.

NOTE: C. ISLAND AREA PROVIDED = 1023 S.F.

NOTE: 1-31-84

NOTE: MO/GUM

NOTE: DEC. 13, 1983

NOTE: SHEET 1 OF 2

NOTE: SDP-84-113

NOTE: 36 THOMAS AVE.

NOTE: BALTIMORE, MARYLAND 21225

NOTE: 301-636-4040

NOTE: PEELER & COMPANY, INC. ENGINEERS

NOTE: 36 THOMAS AVE.

NOTE: BALTIMORE, MARYLAND 21225

NOTE: 301-636-4040

NOTE: STANDARD 7" COMBINATION CURB & GUTTER PAVEMENT SECTION DETAIL

NOTE: NOT TO SCALE

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NOTE: PEELER & COMPANY, INC. ENGINEERS

NOTE: 36 THOMAS AVE.

THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL MEETS A PRACTICAL AND WORKABLE PLAN BASED ON MY PROFESSIONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

JOSEPH B. PEELER JR. P.E. # 2561  
DATE 10/31/83

I CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN AND THAT RESPONSIBLE 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 THE PROJECT.

MORRIS HELMAN  
DATE 10/31/83

REVIEWED FOR: HOWARD SOIL CONSERVATION DISTRICT  
NAME: MORRIS HELMAN  
SIGNATURE: [Signature]  
DATE: 3-14-84

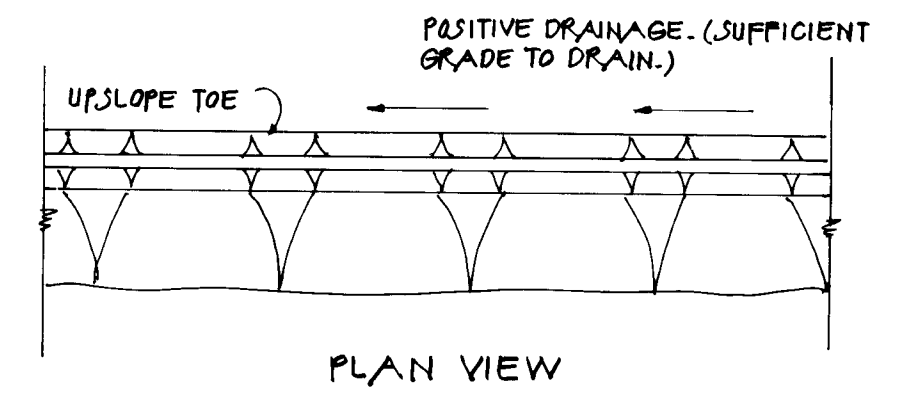
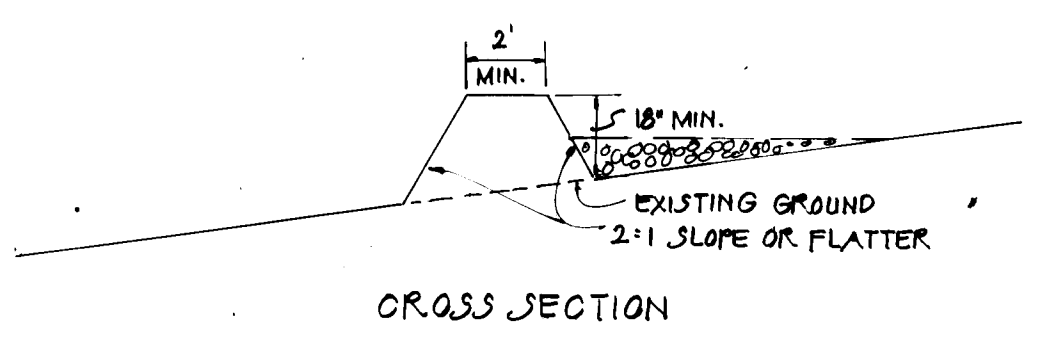
THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY HOWARD SOIL CONSERVATION DISTRICT.

APPROVED: [Signature]  
HOWARD SOIL CONSERVATION DISTRICT  
DATE: 3-14-84

APPROVED FOR PUBLIC WATER & PUBLIC SEWERAGE SYSTEM  
HOWARD COUNTY HEALTH DEPARTMENT  
COUNTY HEALTH OFFICER: [Signature]  
DATE: 3-22-84

APPROVED HOWARD COUNTY OFFICE OF PLANNING & ZONING  
PLANNING DIRECTOR: [Signature]  
DATE: 3-23-84

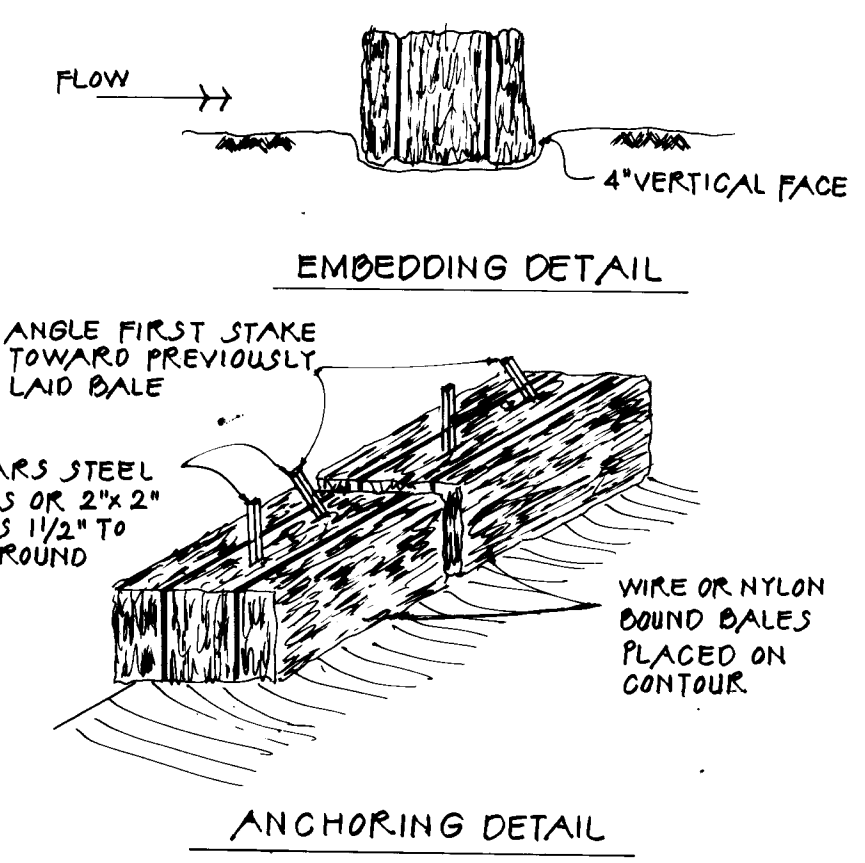
APPROVED FOR PUBLIC WATER, PUBLIC SEWERAGE, AND STORM DRAINAGE SYSTEMS AND ROADS.  
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
DIRECTOR: [Signature]  
DATE: 3-20-84



- CONSTRUCTION SPECIFICATIONS
- ALL DIKES SHALL BE MACHINE COMPACTED.
  - ALL PERIMETER DIKES SHALL HAVE POSITIVE DRAINAGE TO AN OUTLET.
  - A. DIVERTED RUNOFF FROM A PROTECTED OR STABILIZED UPLAND AREA SHALL OUTLET DIRECTLY ONTO AN UNDISTURBED STABILIZED AREA OR INTO A LEVEL SPREADER OR GRADE STABILIZATION STRUCTURE.  
B. DIVERTED RUNOFF FROM A DISTURBED OR EXPOSED UPLAND AREA SHALL BE CONVEYED TO A SEDIMENT TRAPPING DEVICE SUCH AS SEDIMENT TRAP OR A SEDIMENT BASIN OR TO AN AREA PROTECTED BY ANY OF THESE PRACTICES.
  - STABILIZATION, WHEN REQUIRED, SHALL BE DONE IN ACCORDANCE WITH STANDARD AND SPECIFICATIONS FOR GRASSED WATERWAY. THE MINIMUM AREA TO BE STABILIZED SHALL BE THE CHANNEL FLOW AREA.
  - PERIODIC INSPECTION AND REQUIRED MAINTENANCE SHALL BE PROVIDED.

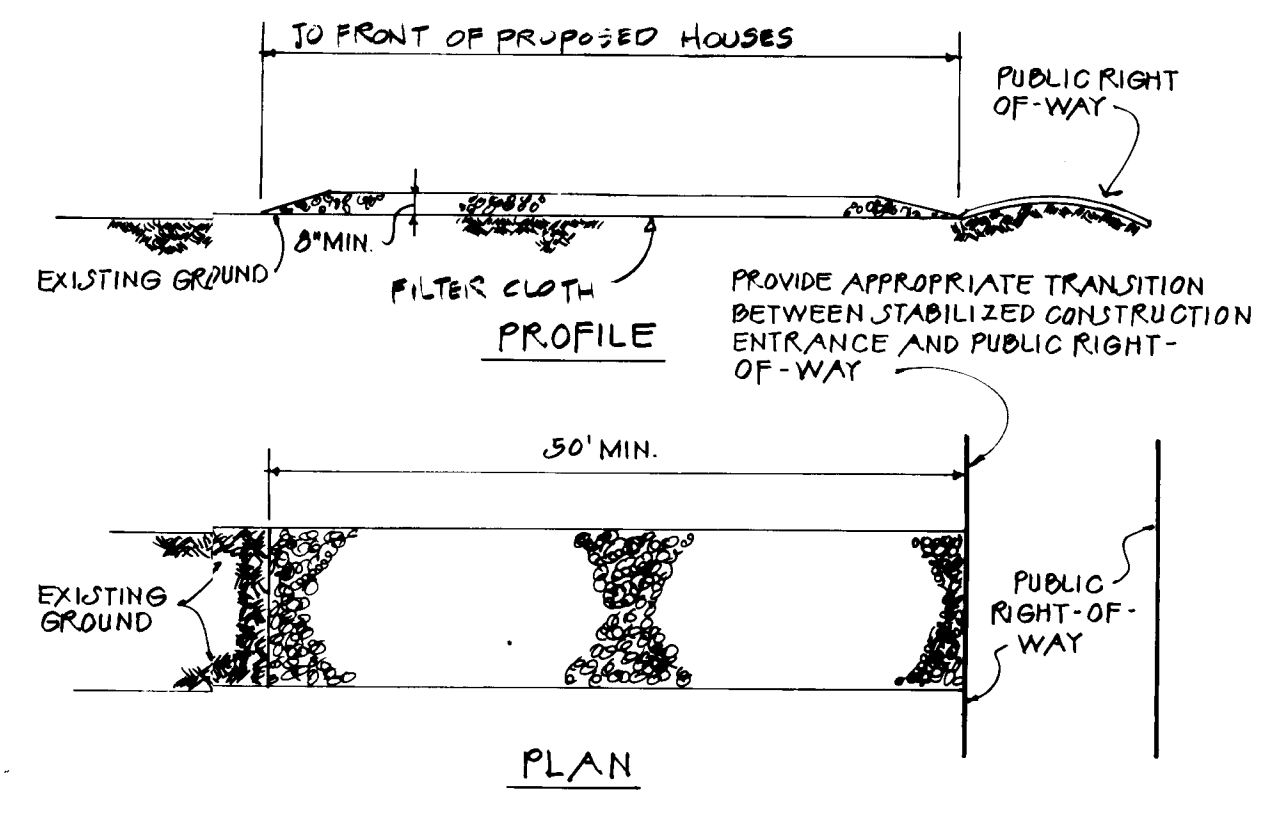
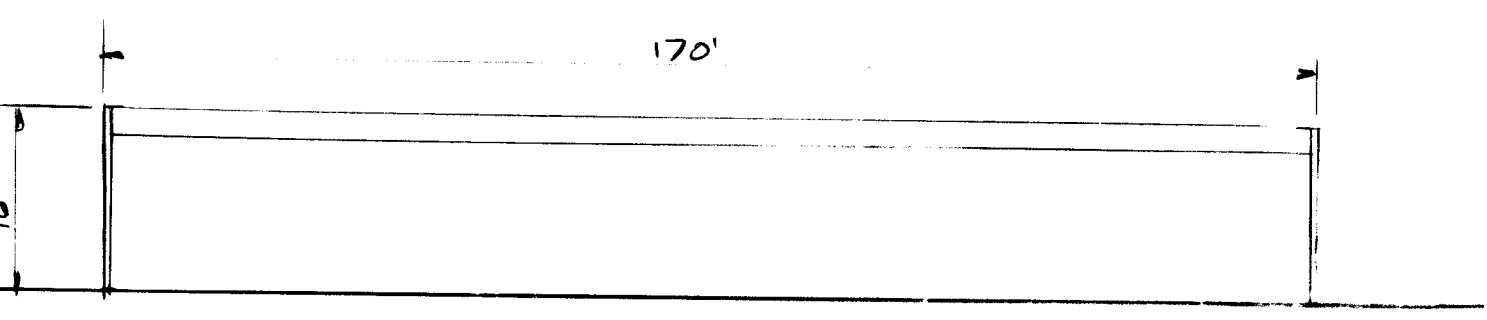
STANDARD SYMBOL: [Arrow pointing right]

**PERIMETER DIKE (P.D.)**  
NOT TO SCALE



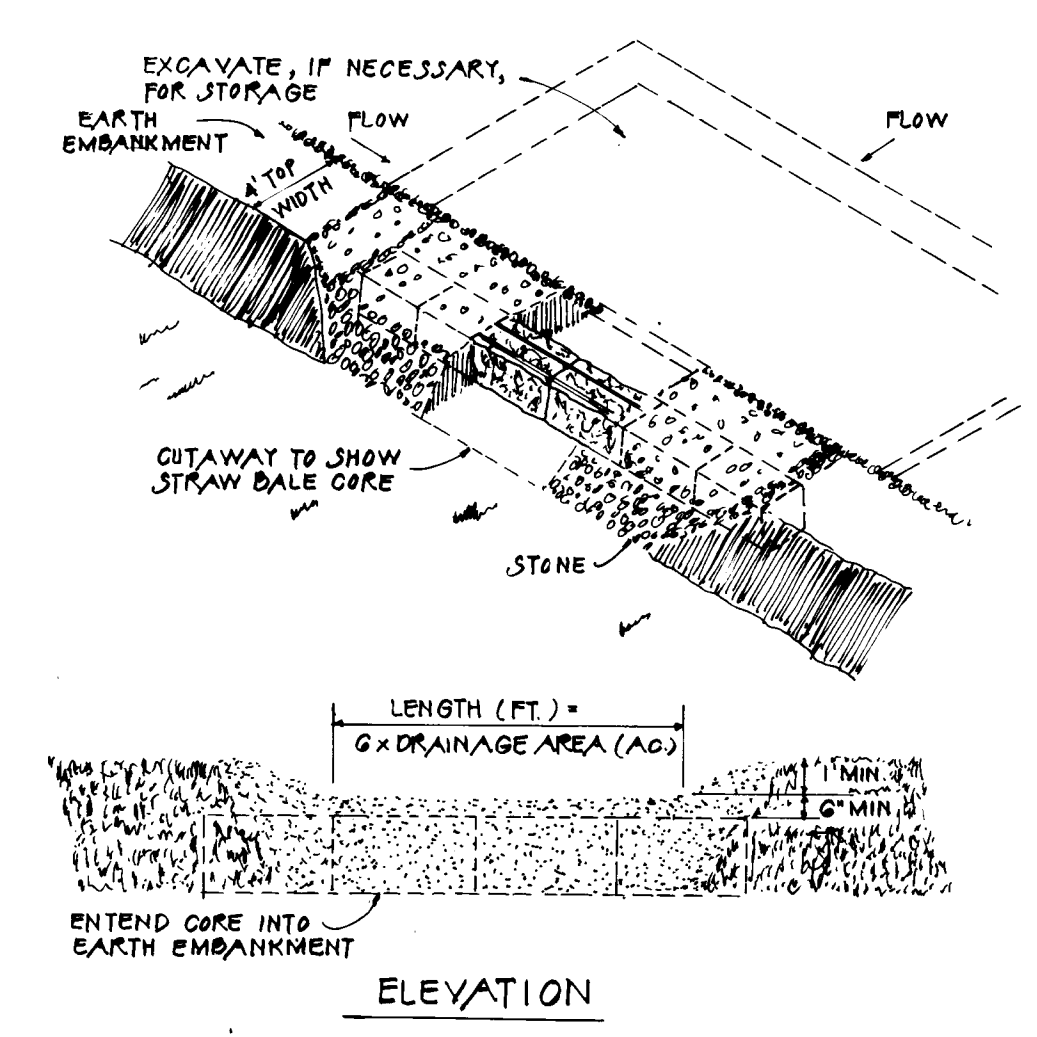
**STRAW BALE DIKE (S.B.D.)**  
NOT TO SCALE

- CONSTRUCTION SPECIFICATIONS
- BALES SHALL BE PLACED IN A ROW WITH ENDS TIGHTLY ADJUTING ADJACENT BALES.
  - EACH BALE SHALL BE EMBEDDED IN THE SOIL A MIN. 4\"/>



- CONSTRUCTION SPECIFICATIONS
- STONE SIZE - USE MSHA SIZE NO. 2 (2-1/2\"/>

**STABILIZED CONSTRUCTION ENTRANCE (S.C.E.)**  
NOT TO SCALE



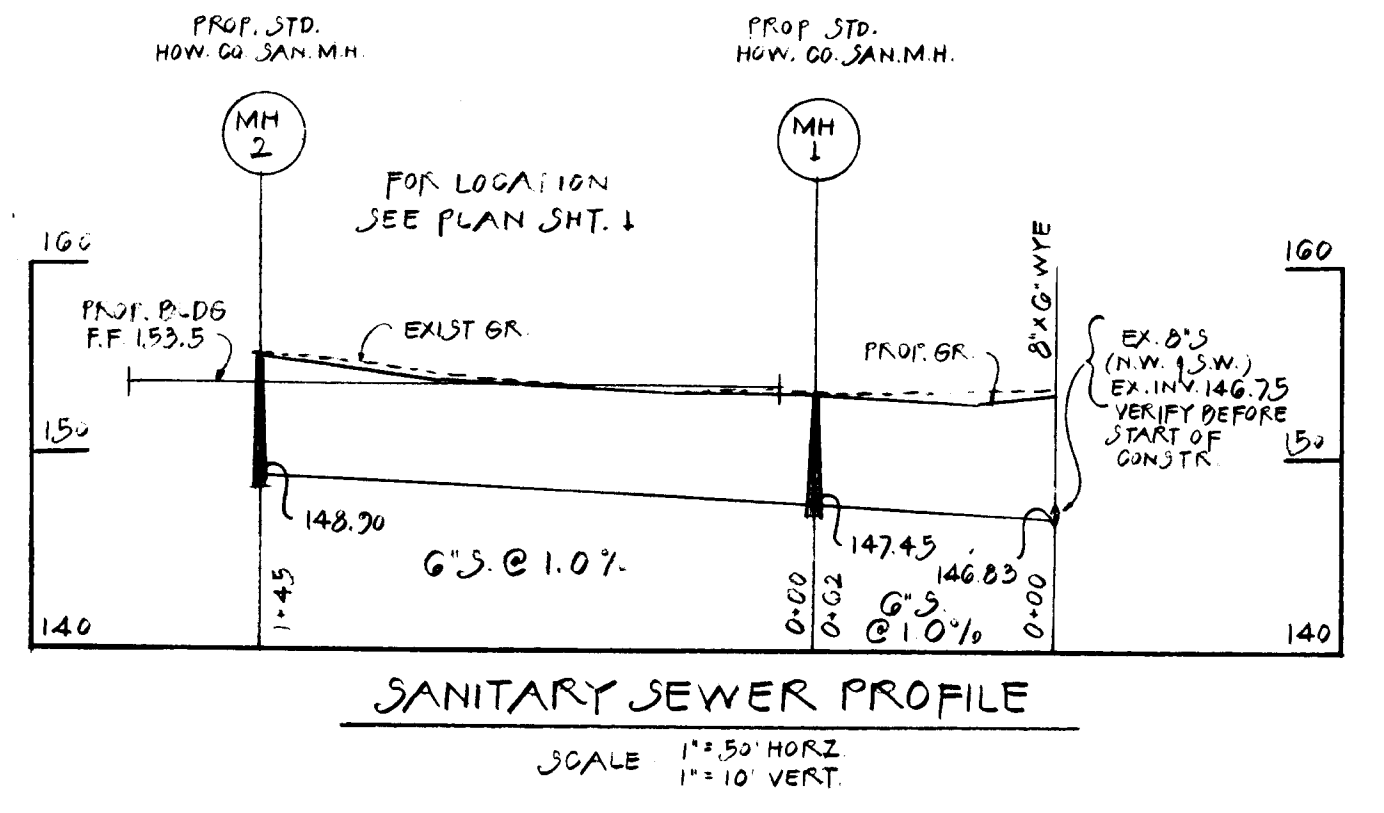
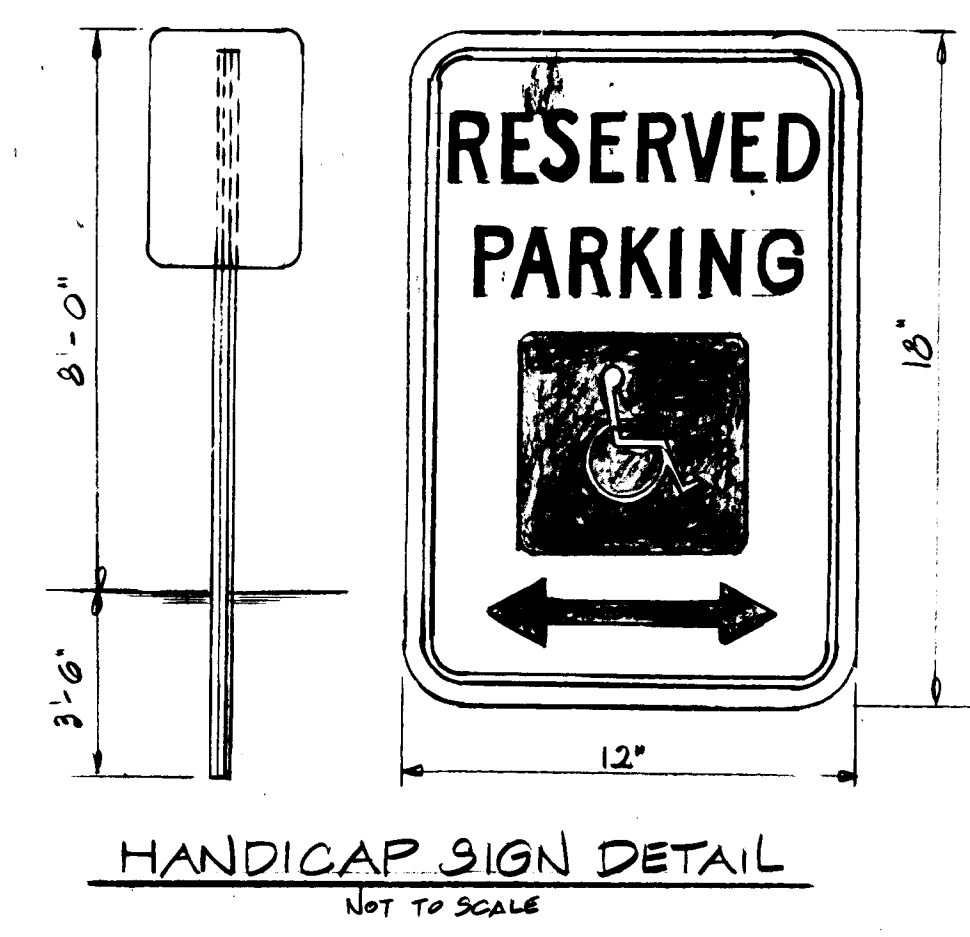
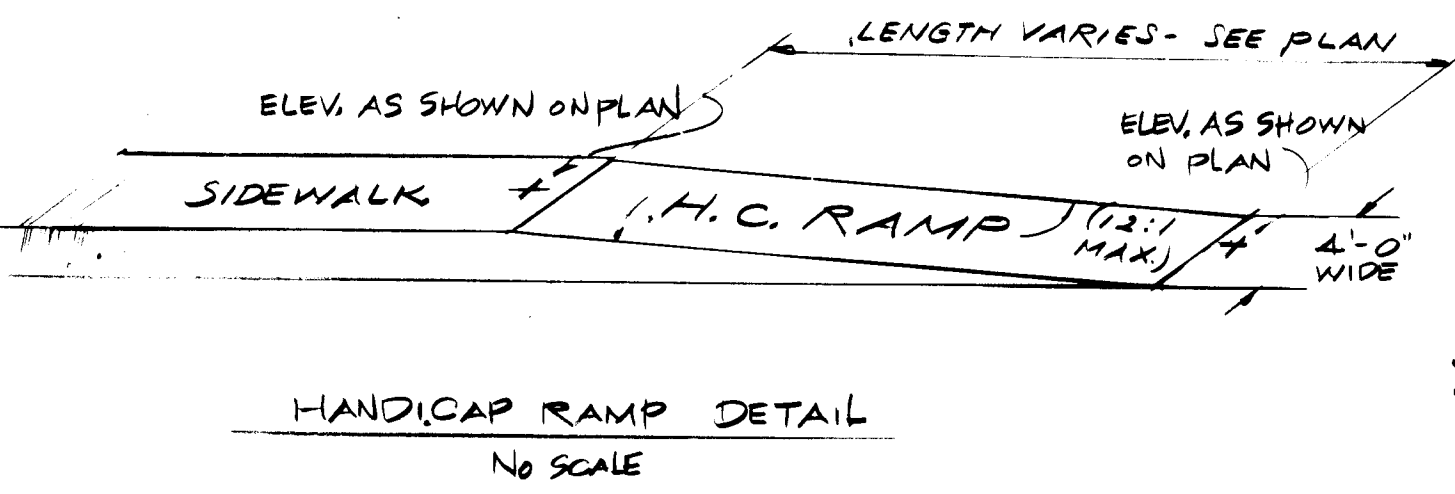
- NOTE: DRAWINGS SHOW STRAW BALES USED FOR CORE. BALES ARE ANCHORED AS PER STANDARD AND SPECIFICATIONS FOR STRAW BALE DIKE. OTHER MATERIALS (E.G., TIMBER OR CONCRETE BLOCK) MAY ALSO BE USED FOR CORE. FIRMLY ANCHOR ALL CORE MATERIAL TO GROUND.
- CONSTRUCTION SPECIFICATIONS
- AREA UNDER EMBANKMENT SHALL 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 ROOTS OR OTHER WOODY VEGETATION AS WELL AS OVER-SIZED STONES, ROCKS, ORGANIC MATERIAL OR OTHER OBJECTIONABLE MATERIAL. THE EMBANKMENT SHALL BE COMPACTED BY TRAVERSING WITH EQUIPMENT WHILE IT IS BEING CONSTRUCTED.
  - SEDIMENT SHALL BE REMOVED AND TRAP RESTORED TO ITS ORIGINAL DIMENSION 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 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 STABILIZED.
  - ALL CUT AND FILL SLOPES SHALL BE 2:1 OR FLATTER.
  - THE CRUSHED STONE USED IN THE OUTLET SHALL MEET MASHO DESIGNATION M43, SIZE NO. 2 OR 24 OR ITS EQUIVALENT SUCH AS MSHA NO. 2. GRAVEL, MEETING THE ABOVE GRADATION, MAY BE USED IF CRUSHED STONE IS NOT AVAILABLE. CRUSHER RUN IS NOT ACCEPTABLE.

**STONE OUTLET SEDIMENT TRAP (S.O.S.T.)**  
NOT TO SCALE

**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 SEEDING:
  - SEEDBED PREPARATION: AREA TO BE SEEDDED SHALL BE LOOSE AND FRIABLE TO A DEPTH OF AT LEAST 3\"/>
- SEEDING: APPLY 5-6 LBS. PER 1,000 SQUARE FEET OF KENTUCKY 31 TALL FESCUE BETWEEN FEBRUARY AND APRIL 30 OR BETWEEN AUGUST 15 AND OCTOBER 31. APPLY SEED UNIFORMLY WITH A CYCLONE SEEDER DRILL, CULTIPACKER SEEDER OR HYDRO SEEDER (SLURRY INCLUDES SEEDS AND FERTILIZER, RECOMMENDED ON STEEP SLOPES ONLY) ON A MOIST, FIRM SEEDBED. MAXIMUM SEED DEPTH SHOULD BE 1/4\"/>
- MULCHING: MULCH SHALL BE UNCHOPPED, UNROTTED, SHALL 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 TWINE METHOD, MULCH ANCHORING TOOL, NETTING OR LIQUID MULCH BINDER.
- TEMPORARY SEEDING:
  - LIME: 50 LBS. OF DOLOMITIC LIMESTONE PER 1,000 SQUARE FEET
  - FERTILIZER: 13 LBS. OF 10-10-10 PER 1,000 SQUARE FEET
  - SEED: 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\"/>



APPROVED  
DIVISION OF LAND DEVELOPMENT & ZONING ADMINISTRATION  
HOWARD COUNTY, MARYLAND  
DATE: 1-31-84  
[Signature]

**SEDIMENT CONTROL DETAILS**  
& MISCELLANEOUS SITE DETAILS  
HOWARD COUNTY PLAN SDP 84-113

MORRIS HELMAN PROPERTY  
COLUMBIA RD. & MEDIAN AREA U.S. ROUTE 1  
DEED REFERENCE LIBER 1024 FOLIO 611  
FOR  
NEW RETAIL SERVICE BUILDING  
PARCEL 447 BLOCK 10 TAX MAP 50  
ELECTION DISTRICT 6 HOWARD COUNTY, MD.  
SCALE: NONE

DEC. 13, 1983  
SHEET 2 OF 2  
SDP-84-113

PEELER & COMPANY, INC.  
ENGINEERS  
36 THOMAS AVE.  
BALTIMORE, MARYLAND 21225  
301-636-4040

