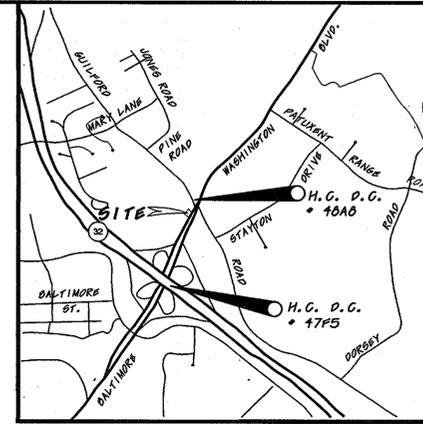
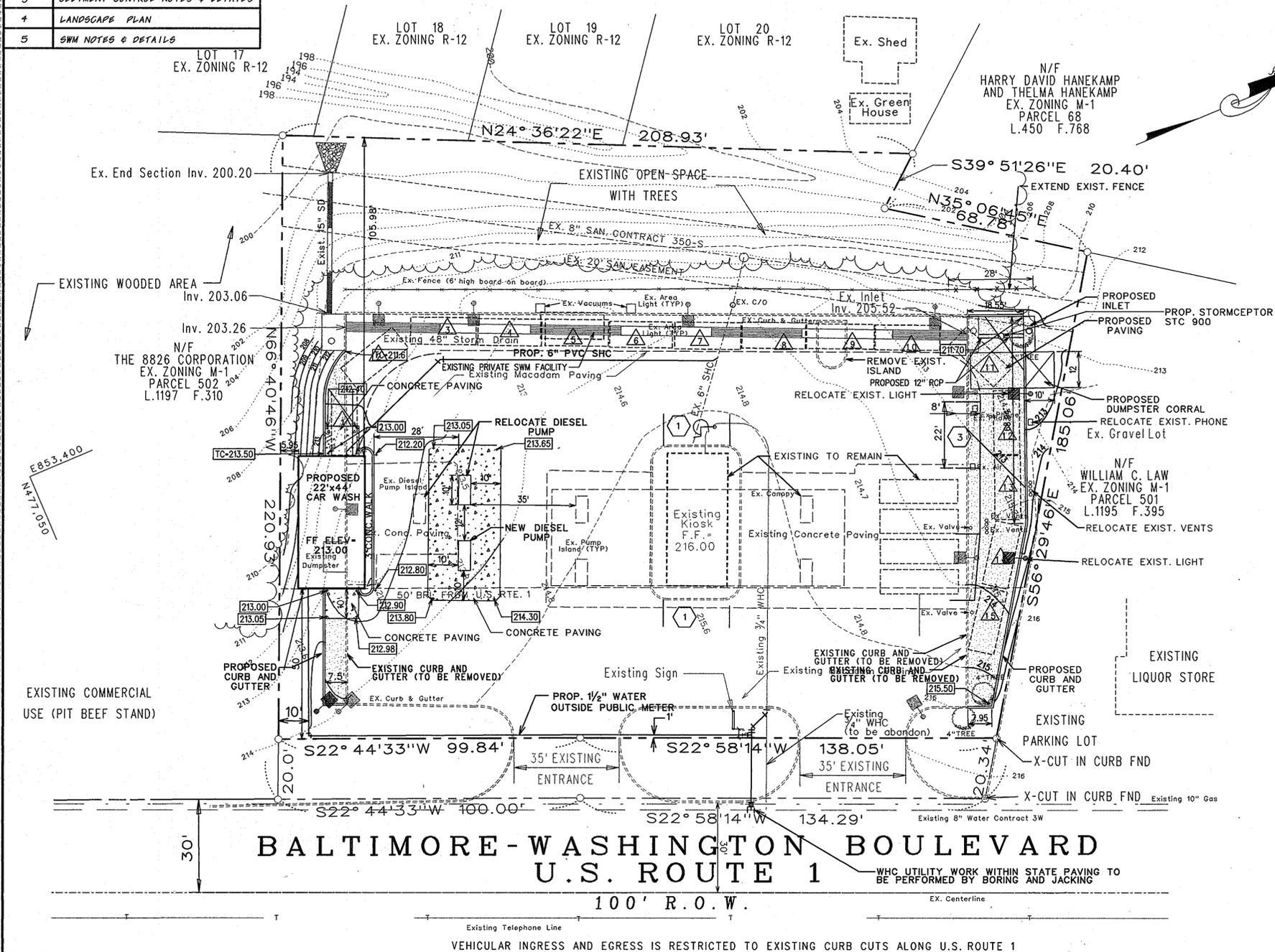


SHEET INDEX	
1	SITE PLAN
2	SEDIMENT CONTROL PLAN
3	SEDIMENT CONTROL NOTES & DETAILS
4	LANDSCAPE PLAN
5	SWM NOTES & DETAILS

Glen Court Subdivision



BY THE DEVELOPER  
I/WE 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 THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTIONS BY THE HOWARD SOIL CONSERVATION DISTRICT.

*Martin E. Stumbroski Jr* 3-31-98  
DEVELOPER DATE

BY THE ENGINEER:  
I CERTIFY THAT THIS PLAN OF 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.

*Paul C. Kahl Jr* 3/31/98  
ENGINEER DATE

THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS FOR SOIL EROSION AND SEDIMENT CONTROL.

*Clay Simms* 4/13/98  
G.S. SOIL CONSERVATION SERVICE DATE

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

*John P. Robertson* 4/13/98  
HOWARD SOIL CONSERVATION DISTRICT DATE  
AS BUILT CERTIFICATE

GENERAL NOTES:

- ALL WATER LINES SHALL BE CONSTRUCTED A MINIMUM OF 42" COVER BELOW FINISHED GRADE.
- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE HOWARD COUNTY DESIGN MANUAL, VOLUME IV, I.P., STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION.
- APPROXIMATE LOCATION OF EXISTING UTILITIES ARE SHOWN. FROM BEST AVAILABLE INFORMATION THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT THE EXISTING UTILITIES AND MAINTAIN UNINTERRUPTED SERVICE. ANY DAMAGE INCURRED DUE TO CONTRACTOR'S OPERATION SHALL BE REPAIRED IMMEDIATELY AT THE CONTRACTOR'S EXPENSE.
- THE CONTRACTOR SHALL TEST PIT EXISTING UTILITIES AT LEAST FIVE (5) DAYS BEFORE STARTING WORK SHOWN ON THESE DRAWINGS TO VERIFY THEIR LOCATION AND ELEVATION. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY IF LOCATION OF UTILITIES IS OTHER THAN SHOWN.
- CONTRACTOR TO NOTIFY THE FOLLOWING UTILITIES OR AGENCIES AT LEAST FIVE DAYS BEFORE STARTING WORK SHOWN ON THESE DRAWINGS:
 

MISS UTILITY	800-257-7777
CBP TELEPHONE	410-725-9976
HOWARD COUNTY BUREAU OF UTILITIES	410-992-2366
ART&T CABLE LOCATION DIVISION	410-393-3553
BALTIMORE GAS & ELECTRIC CO.	410-695-0123
STATE HIGHWAY ADMINISTRATION	410-531-5533
HOWARD COUNTY CONSTRUCTION INSPECTION SURVEY DIVISION	410-792-7272
- ALL INLETS SHALL BE CONSTRUCTED IN ACCORDANCE WITH HOWARD COUNTY STANDARDS.
- ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS.
- THE CONTRACTOR SHALL PROVIDE A JOINT IN ALL SEWER MAINS WITHIN 2'-0" OF EXTERIOR MANHOLE WALLS.
- PROFILE STATIONS SHALL BE ADJUSTED AS NECESSARY TO CONFORM TO PLAN DIMENSIONS.
- NO PIPE SHALL BE LAID UNTIL LINES OF EXCAVATION HAVE BEEN BROUGHT TO SUBGRADE.
- TOPP TAKEN FROM FIELD RUN SURVEY DATED 9/3/97 BY GARY THURMAN PLS
- ALL PLAN DIMENSIONS ARE TO FACE OF CURB UNLESS OTHERWISE NOTED.
- ALL STORM DRAIN PIPE BEDDING SHALL BE AS SHOWN IN DETAIL 02.01 \*FRENCH IN ROCK OR TRENCH IN SAND 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 BASEMENTS, 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 BASEMENTS, RIGHTS AND/OR RIGHTS-OF-WAY THAT MAY BE REQUIRED FOR GRADING AND/OR WORK ON ADJACENT PROPERTIES INCLUDED IN THIS PLAN.
- FOR THE EXACT LOCATION AND DEPTH OF THE EXISTING WATER AND SEWER MAINS, THE CONTRACTOR SHALL DIG TEST PITS AT THE CONTRACTOR'S EXPENSE.
- NOTE THAT THE 150 FT. SETBACK FROM THE R-12 DISTRICT OVERLAPS THE FRONT 50 FT. SETBACK FROM US ROUTE 1 R.O.W. SEE DA 06-44 E.V.
- ALL EXTERIOR LIGHTING SHALL BE DIRECTED/REFLECTED AWAY FROM ADJACENT RESIDENTIALLY ZONED PROPERTIES AND PUBLIC ROAD RIGHT-OF-WAYS.
- AS PER DA 06-44 E.V. THERE WILL BE NEITHER SERVICE DAYS NOR ACCESSORY VEHICLES \*TOW OR SERVICE TRUCKS\* ON SITE.
- PREVIOUS SITE PLAN APPROVAL 80P-07-225

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.

*Joseph S. Bente* 4/29/98  
DIRECTOR DATE

*John P. Robertson* 4/13/98  
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

*Cindy Hamilton* 4/29/98  
CHIEF, DIVISION OF LAND DEVELOPMENT DATE

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

*Joseph M. Boyd M.D.* 4-24-98  
COUNTY HEALTH OFFICER MR DATE

8-12-98	1	To eliminate the oil water separator shown on the plan.
DATE	NO.	REVISION
OWNER/DEVELOPER		
AMOCO OIL COMPANY ONE PENNSYLVANIA AVENUE TOWSON, MARYLAND 21204 Attn: MARTY STUMBROSKI, PH. 717-993-9431		
PROJECT: AMOCO GAS STATION 8810 WASHINGTON BLVD.		
AREA	TAX MAP NO. 47	BLOCK No. 6
	PARCEL/LOT No. : 500	ZONING : M-1
	6th ELECTION DISTRICT HOWARD COUNTY, MARYLAND	

TITLE: SITE PLAN  
ADDITION OF CAR WASH  
William Monk, Inc.  
ENGINEERS - PLANNERS  
Courthouse Commons  
222 Bosley Avenue, Suite C-6  
Towson, Maryland 21204  
Phone: 410-494-8931 Fax: 410-494-9903

11/30/98 DATE  
CHECKED BY: PCR  
DESIGNED BY: PCR  
DRAWN BY: JRG  
PROJECT NO.: 97-28  
DATE: 9/31/97  
SCALE: 1"=20'  
DRAWING NO. 1 OF 5

BA 97-28E8V  
Based upon the foregoing, it is this 16th day of September, 1997, by the Howard County Board of Appeals, ORDERED:

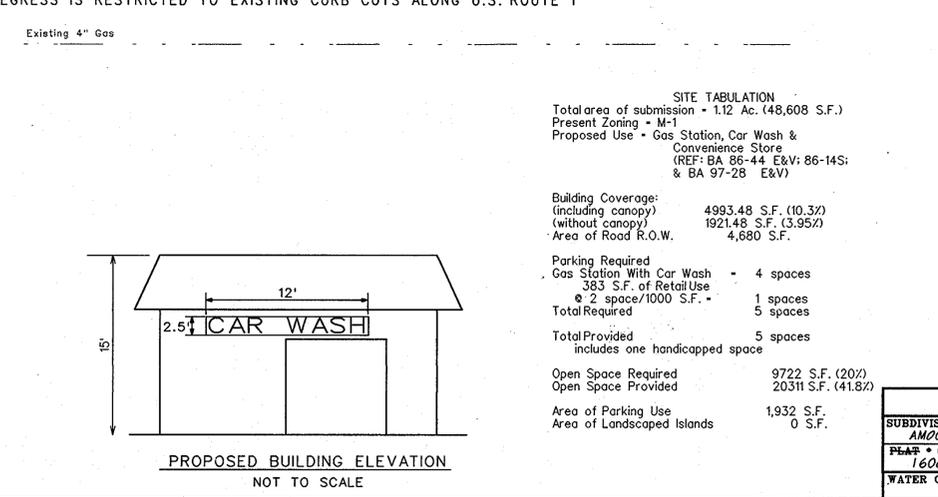
That the Petition of the Amoco Oil Company for a special exception to expand an existing gasoline service station to include one additional fuel dispenser, a car wash, and to relocate an existing fuel dispenser, parking spaces and trash enclosures and for variances (i) to reduce the required 50 foot setback from a public right-of-way (U.S. Route 1) to 27 feet for the proposed car wash and fuelstacking spaces (ii) to reduce the required 20 foot parking use setback from a public street right-of-way (U.S. Route 1) to 10 feet for the circulation area; and (iii) to reduce the required 100 foot setback from a residential area to 58 feet for the required car wash stacking spaces, to 73 feet for the trash enclosure, and to 81 feet for the parking spaces on the Property known as 8810 Washington Boulevard, Elkridge, Howard County, Maryland be and the same is hereby, GRANTED, subject to the following conditions:

- The special exception shall apply only to the gasoline service station and car wash as described in the petition and as depicted on the special exception plan dated April 28, 1997 and submitted to the Board.
- The variances shall apply only to the uses, paved areas, and structures described in the petition and as depicted on the special exception plan dated April 28, 1997 and submitted to the Board.
- The Petitioner shall add to the existing fence and maintain in good repair and appearance along the northwestern width of the Property along the proposed car wash stacking lane and trash enclosure area.
- The hours of operation for gasoline sales shall be 24 hours, seven days a week. The car wash shall operate from 6:00 a.m. to 12:00 a.m., seven days a week.
- The Petitioner shall plant and maintain a landscaped screening light buffer (Type A) of upright shrubs to form a hedge in front of the fence facing the entire outside the edge of the car wash stacking lane.
- Except as modified by this Decision and Order, the Petitioner shall comply with all of the conditions and requirements of the Decision and Order BA 86-44E8V.

BA 86-44E8V and BA 86-145  
Based upon the foregoing, it is this 13th day of January, 1987, by the Howard County Board of Appeals, ORDERED, that the request for the establishment of a special exception to permit the operation of a gas station, and the corresponding variance from the 150' setback requirement imposed by the Mc-Zoning District, be, and the same hereby is, GRANTED, subject to the following conditions:

- That the Petitioner's use of the property conform to the testimony and presentation delivered at the hearing on December 8, 1986;
- That the Planning Board approve a Site Development Plan meeting landscaping, lighting, building design, building materials, and outdoor storage;
- A 6' high board-on-board wooden fence be built between the paved area and the landscaped earthen berm located at the rear of the property;
- That the Petitioner shall be permitted to operate the proposed gas and go station 24 hours a day, 365 days a year;
- That the entrance comply with the requirements of the State Highway Administration;
- That the operation of the retail portion of the proposed gas and go station for convenience items shall be limited to not more than 400 square feet of floor area and shall otherwise conform to Conclusion of Law No. 6; and
- That the Petitioner comply with all applicable laws, rules, and regulations of any government entity.

And it is further,  
ORDERED, that the request by Amoco Oil Company for a variance to the Sign Code, to permit a sign not to exceed 40 square feet (exclusive of the pricing sign) to be located 3 feet from the 100 foot proposed right-of-way, be, and the same hereby is, GRANTED.



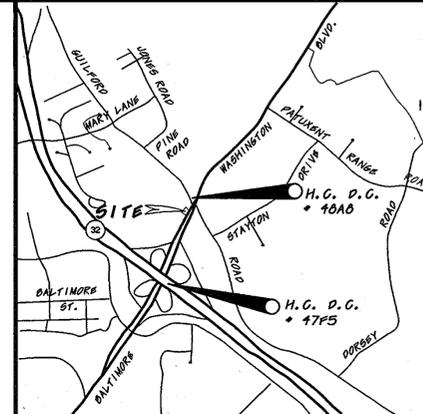
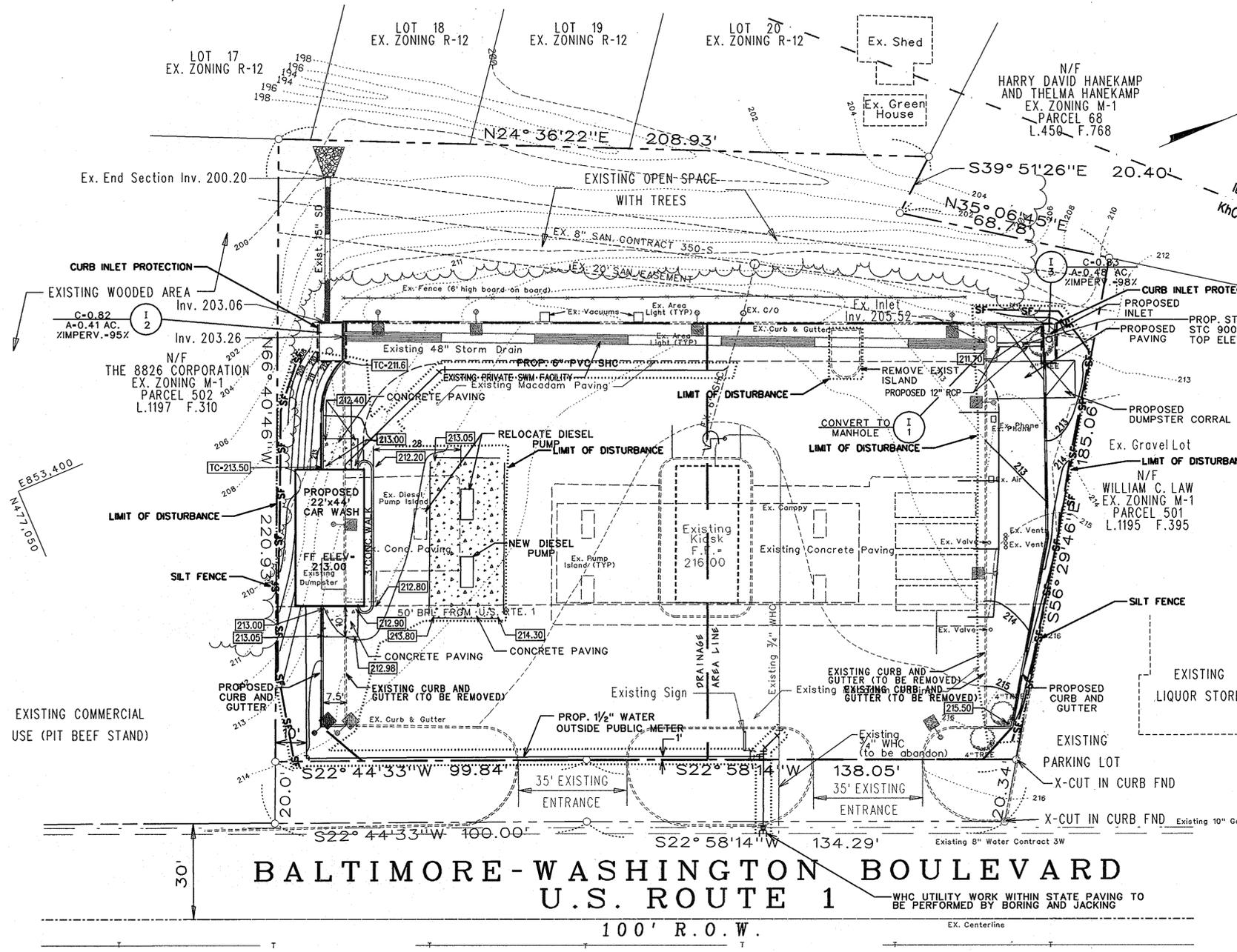
ADDRESS CHART

LOT No.	STREET ADDRESS
500	8810 WASHINGTON BLVD.

PERMIT INFORMATION CHART

SUBDIVISION NAME	SECTION/AREA	LOT/PARCEL			
AMOCO SERVICE STATION		500			
PEARL OR L/F	BLOCK	ZONING	TAX/ZONING MAP	ELECTION DIST	CENSUS TRACT
608/07	6	M-1	47	6	6069.01
WATER CODE	SEWER CODE				
003	1250000				

Glen Court Subdivision



VICINITY MAP  
SCALE: 1"=2000'  
BENCH MARK: HOWARD COUNTY 680011G CONTROL STA. 40A0 ELEV. +226.362'

- 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. 1992-2437
  - 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, DICES, PERIMETER SLOPES AND ALL SLOPES GREATER THAN 3:1, OR 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. 51A, 50D \*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 10600 SF / 1.10 ACRES  
AREA DISTURBED 11390 SF / 0.26 ACRES  
AREA TO BE KOEPPED OR PAVED 4378 SF / 0.10 ACRES  
AREA TO BE VEGETATIVELY STABILIZED 7012 SF / 0.16 ACRES  
TOTAL CUT 105 CU. YDS  
TOTAL FILL 156 CU. YDS  
OFFSITE WASTE/BORROW AREA LOCATION - TO BE DETERMINED
  - 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.
  - 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.

BY THE DEVELOPER  
I/WE 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 THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTIONS BY THE HOWARD SOIL CONSERVATION DISTRICT.

*Martin E. Stumbroski Jr.* 3-31-98  
DEVELOPER DATE

BY THE ENGINEER:  
I CERTIFY THAT THIS PLAN OF 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.

*Patrick C. Richardson* 3/31/98  
ENGINEER DATE

THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS FOR SOIL EROSION AND SEDIMENT CONTROL.

*Cheryl Simmons* 4/13/98  
U.S. SOIL CONSERVATION DISTRICT DATE

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

*John R. Robertson* 4/13/98  
HOWARD SOIL CONSERVATION DISTRICT DATE  
AS BUILT CERTIFICATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.

*James Butler* 4/30/98  
DIRECTOR DATE

*[Signature]* 4/15/98  
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

*Candy Hamilton* 4/20/98  
CHIEF, DIVISION OF LAND DEVELOPMENT DATE

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

*Joyce M. Boyle M.D.* 4-24-98  
COUNTY HEALTH OFFICER DATE

B-12-9-B 1 To eliminate the oil water separator shown on the plan.

DATE	NO.	REVISION

OWNER/DEVELOPER  
AMOCO OIL COMPANY  
ONE PENNSYLVANIA AVENUE  
TOWSON, MARYLAND 21204  
Attn: MARTY STUMBROSKI, PH. 717-993-9431

PROJECT: AMOCO GAS STATION  
8810 WASHINGTON BLVD.  
AREA TAX MAP NO. 47 BLOCK NO. 6  
PARCEL/LOT NO.: 500 ZONING: M-1  
6th ELECTION DISTRICT HOWARD COUNTY, MARYLAND

TITLE  
SEDIMENT CONTROL PLAN  
**William Monk, Inc.**  
ENGINEERS - PLANNERS  
Courthouse Commons  
222 Bosley Avenue, Suite C-6  
Towson, Maryland 21204  
Phone: 410-494-8931 Fax: 410-494-9903

1/30/98 DATE  
CHECKED BY: PCR  
DESIGNED BY: PCR  
DRAWN BY: JRG  
PROJECT NO.: 97-28  
DATE: 9/31/97  
SCALE: 1"=20'  
DRAWING NO. 2 OF 5

**SEQUENCE OF CONSTRUCTION:**

- OBTAIN A GRADING PERMIT THROUGH THE DEPARTMENT OF INSPECTIONS LICENSES AND PERMITS.
- NOTIFY HOWARD COUNTY SOIL CONSERVATION DISTRICT, \*410-465-3100\* AT LEAST 48 HOURS PRIOR TO BEGINNING WORK.
- CLEAR AND GRUB FOR SEDIMENT AND EROSION CONTROL MEASURES OR DEVICES ONLY.
- INSTALL ALL SEDIMENT AND EROSION CONTROL MEASURES AND DEVICES.
- NOTIFY HOWARD COUNTY SOIL CONSERVATION DISTRICT SEDIMENT CONTROL INSPECTOR UPON COMPLETION OF SAID INSTALLATION.
- WITH THE APPROVAL OF HOWARD COUNTY SOIL CONSERVATION DISTRICT SEDIMENT CONTROL INSPECTOR, CLEAR AND GRUB REMAINDER OF SITE.
- REMOVE EXISTING PAVING, CURB AND OTHER IMPROVEMENTS.
- ROUGH GRADE SITE AND TEMPORARILY STABILIZE ANY AREAS NOT TO BE WORKED.
- CONSTRUCT NEW BUILDING, CANOPY AND PUMP ISLANDS, AND PROPOSED UTILITIES. MODIFY SWM CONTROL STRUCTURE.
- CONSTRUCT CURB, INSTALL PAVING AND FINE GRADE AND PERMANENTLY STABILIZE THE SITE.
- WITH THE APPROVAL OF HOWARD COUNTY SOIL CONSERVATION DISTRICT SEDIMENT CONTROL INSPECTOR, REMOVE ALL SEDIMENT AND EROSION CONTROL DEVICES AND PERMANENTLY STABILIZE ANY REMAINING AREA

ALL VEGETATIVE AND STRUCTURAL PRACTICES ARE TO BE INSTALLED ACCORDING TO THE PROVISIONS OF THIS PLAN AND ARE TO BE IN CONFORMANCE WITH THE MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL DATED 1994 OR LATER REVISIONS.

SUBDIVISION NAME AMOCO SERVICE STATION	SECTION/AREA	LOT/PARCEL 500
PLAT * OR LTB 1608/97	BLOCK * 6	ZONING M-1
TAX/ZONING MAP #7	ELECTION DIST 6	CENSUS TRACT 6069.01
WATER CODE 003	SEWER CODE 4250000	

**LEGEND:**

TEMPORARY STOCKPILE AREA	
EXISTING CONTOURS	.....26.....
PROPOSED CONTOURS	.....26.....
MOUNTABLE BERM	
SILT FENCE	SF SF
SUPER SILT FENCE	SSF SSF
LIMIT OF DISTURBANCE	-----

**NOTE:**  
CONTRACTOR SHALL LIMIT ALL INGRESS AND EGRESS TO THE SOUTH ENTRANCE. ALL VEHICLES LEAVING THE SITE SHALL HAVE SEDIMENT WASHED OFF THE TIRES BEFORE LEAVING THE SITE.

**CONSULTANT'S HAZARD CLASS CERTIFICATION**  
I CERTIFY THAT THIS PLAN MEETS ALL REQUIREMENTS FOR HAZARD CLASS PAID, OR CL, REQUIREMENTS AS STATED IN THE SOIL CONSERVATION DISTRICT - MARYLAND STANDARDS AND SPECIFICATIONS FOR FOND, CODE 376, NOVEMBER 1992. ALL NECESSARY INVESTIGATIONS AND CONSULTATIONS HAVE BEEN PERFORMED TO VERIFY THIS FINDING. A COPY OF SAID INVESTIGATION HAS BEEN SUPPLIED TO S.C.S.D. 6.6.1.  
SIGNATURE \_\_\_\_\_ MD LICENSE NO. 16597 DATE \_\_\_\_\_  
PRINT NAME PATRICK G. RICHARDSON, JR.

NOTE: ALL DRAINIS SHALL BE KEPT OUT OF THE STORM WATER MANAGEMENT FACILITY.

Table 25 Permanent Seeding for Low Maintenance Areas

MIX	SEED MIX (USE CERTIFIED MATERIAL IF AVAILABLE)	PLANTING LBS./AC.	SITE CONDITIONS	USDA HARDNESS ZONES	RECOMMENDED PLANTING DATES						A	
					3/1-5/15	3/15-6/1	5/15-8/14	6/2-7/31	8/1-10/1	8/15-10/15		8/15-11/15
1	TALL FESCUE (75%) CANADA BLUEGRASS (10%), KENTUCKY BLUEGRASS (10%), REDTOP (5%)	150	3.4	MOIST TO DRY	5b	X						
					6a	X						
					6b	X				X		
					7a	X			X			
2	KENTUCKY BLUEGRASS (50%), CREEPING RED FESCUE OR A HARD FESCUE (40%), REDTOP (10%)	150	3.4	MOIST TO MODERATELY DRY TO DRY	5b	X			X			
					6a	X			X			
					6b	X				X		
					7a	X			X			
3	TALL FESCUE (85%), PERENNIAL RYEGRASS (10%), KENTUCKY BLUEGRASS (5%)	125	2.9	MOIST TO DRY	5b	X			X			
					6a	X			X			
					6b	X				X		
					7a	X			X			
4	RED FESCUE OR CHEWINGS FESCUE (60%), PERENNIAL RYEGRASS (20%), PLUS CROWN VETCH (20%)	60	.92	MOIST TO DRY	5b	X			X			
					6a	X			X			
					6b	X				X		
					7a	X			X			
5	TALL FESCUE (85%) OR PERENNIAL RYEGRASS (50%) PLUS CROWN VETCH OR FLATPEA	110	2.5	MOIST TO DRY	5b	X			X			
					6a	X			X			
					6b	X				X		
					7a	X			X			
6	WEeping LOVEGRASS (17%), SERICIA LESPEDEZA (83%)	4	.09	DRY TO VERY DRY	5b	X			X			
					6a	X			X			
					6b	X				X		
					7a	X			X			
7	TALL FESCUE (83%) OR WEeping LOVEGRASS (22%) PLUS SERICIA LESPEDEZA (15%)	110	2.5	DRY TO VERY DRY	5b	X			X			
					6a	X			X			
					6b	X				X		
					7a	X			X			
8	REED CANARYGRASS (75%), REDTOP (15%) PLUS BIRDSFOOT TREFLOL (10%)	40	.92	WET TO MODERATELY DRY	5b	X			X			
					6a	X			X			
					6b	X				X		
					7a	X			X			
9	TALL FESCUE (86%) OR POA TRIVIALIS (7%) PLUS BIRDSFOOT TREFLOL (7%)	125	2.9	WET TO MODERATELY DRY	5b	X			X			
					6a	X			X			
					6b	X				X		
					7a	X			X			
10	TALL FESCUE (80%) OR HARD FESCUE (20%)	120	3.4	WET TO DRY	5b	X			X			
					6a	X			X			
					6b	X				X		
					7a	X			X			
11	HARD FESCUE (100%)	.75	1.7	WET TO DRY	5b	X			X			
					6a	X			X			
					6b	X				X		
					7a	X			X			

FERTILIZER RATE: (10-20-20)  
 N: 2LBS./1000 S.F., 90 LBS./ACRE  
 P205 4LBS./1000 S.F., 175 LBS./ACRE  
 K2O 4 LBS./1000 S.F., 175 LBS./ACRE  
 LIME RATE 100 LBS./1000 S.F., 2 TONS/ACRE

- A - USED BY SHA ON SLOPED AREAS. ADD A LEGUME FOR SLOPES > 3:1.
- B - USED IN MEDIAN AREAS BY SHA. SHADE TOLERANT.
- C - POPULAR MIX - PRODUCES PERMANENT GROUND COVER QUICKLY. BLUEGRASS THICKENS STAND.
- D - BEST USE ON SHADY SLOPES NOT ON POORLY DRAINED CLAYS.
- E - USE ON LOW MAINTENANCE, STEEP SLOPES. USE TALL FESCUE IN DRAUGHTY COND. CROWN VETCH BEST FOR 5b, 6a, 6b.
- F - SUITABLE FOR SEEDING IN MID-SUMMER.
- G - WEeping LOVEGRASS MAY BE SEEDING WITH TALL FESCUE IN MID-SUMMER. SERICIA LESPEDEZA IS BEST SUITED FOR ZONES 7a AND 7b.
- H - USE ON POORLY DRAINED SOILS, DITCHES OR WATERWAYS. BIRDSFOOT TREFLOLIS BEST FOR ZONES 5b, 6a ABOVE 2,000 FT.
- I - USE IN AREAS OF MOIST SHADE. POA TRIVIALIS THRIVES IN WET SHADY AREAS.
- J - TALL FESCUE MAY BE SEEDING ALONE. THE HARD FESCUE PROVIDES BETTER SHADE TOLERANCE AND PRODUCES A BETTER STAND.
- K - LOW FERTILITY GRASS. REQUIRES INFREQUENT MOWING. GOOD COMPANION FOR WILD FLOWERS.

TABLE 26 - TEMPORARY SEEDING RATES, DEPTHS, AND DATES

SPECIES	MINIMUM SEEDING RATES		PLANTING DEPTH INCHES	HARDNESS ZONES AND SEEDING DATES						
	PER ACRE	LBS./1000 SQ. FT.		7a and 7b	6b	6a and 5b	7a and 7b	6b	6a and 5b	
CHOOSE ONE:										
BARLEY	2.5 BU. (122lbs)	2.80	1-2	X						
OATS	3 BU. (96 lbs)	2.21	1-2	X						
RYE	2.5 BU. (140lbs)	3.22	1-2	X						
BARLEY OR RYE PLUS FOXTAIL MILLET	150 lbs	3.45	1	X	X	X	X	X	X	X
WEeping LOVEGRASS	4 lbs	.09	1/4-1/2	X						
ANNUAL RYEGRASS	50 lbs	1.15	1/4-1/2	X		11/1	X		11/1	X
MILLET	50 lbs	1.15	1/2	X			X			X

FERTILIZER RATE: (10-10-10)  
 15 LBS./1000 S.F., 600 LBS./ACRE  
 LIME RATE 100 LBS./1000 S.F., 2 TONS/ACRE

- 36 APPLICABLE ON SLOPES OF 3:1 OR FLATTER
- 37 REFER TO FIGURE A - ADOPTED FROM USDA, ARS MISCELLANEOUS PUBLICATION #1475, JANUARY 1990
- 38 BETWEEN FALL AND SPRING SEEDING DATES, USE MULCH ONLY IF GROUND IS FROZEN AND RESEED WHEN THAWED
- 39 MAY BE USED AS A NURSE CROP FOR LATE FALL / EARLY WINTER PERMANENT SEEDINGS, ADD 56 LBS./AC. TO THE PERMANENT SEEDING MIXTURE
- 40 MARYLAND STATE HIGHWAY ADMINISTRATION TEMPORARY SEED MIX
- 41 MAY BE USED AS A NURSE CROP FOR MID-SUMMER PERMANENT SEEDINGS, ADD 2 LBS./AC. TO PERMANENT SEED MIX
- 42 MAY BE USED AS A NURSE CROP FOR MID-SUMMER PERMANENT SEEDINGS, ADD 10 LBS./AC. TO THE PERMANENT SEEDING MIX.

20.0 STANDARD AND SPECIFICATIONS FOR VEGETATIVE STABILIZATION

SECTION I - VEGETATIVE STABILIZATION METHODS AND MATERIALS

- A. Site Preparation
  - Install erosion and sediment control structures (either temporary or permanent) such as diversions, grade stabilization structures, berms, waterways, or sediment control basins.
  - Perform all grading operations at right angles to the slope. Final grading and shaping is not usually necessary for temporary seeding.
  - Schedule required soil tests to determine soil amendment composition and application rates for sites having disturbed area over 5 acres.

- B. Soil Amendments (Fertilizer and Lime Specifications)
  - Soil tests must be performed to determine the exact ratios and application rates for both lime and fertilizer on sites having disturbed areas over 5 acres. Soil analysis may be performed by the University of Maryland or a recognized commercial laboratory. Soil samples taken for engineering purposes may also be used for chemical analyses.
  - Fertilizers shall be uniform in composition, free flowing and suitable for accurate application by approved equipment. Nutrients may be substituted for fertilizer with prior approval from the appropriate approval authority. Fertilizers shall also be delivered to the site fully labeled according to the applicable State fertilizer laws and shall bear the name, trade name or trademark and warranties of the producer.
  - Lime materials shall be ground limestone (hydrated or burnt lime) may be substituted which contains at least 50% total bases (calcium oxide plus magnesium oxide). Limestone shall be ground to such fineness that at least 50% will pass through a #100 mesh sieve and 98-100% will pass through a #20 mesh sieve.

- iv. Incorporate lime and fertilizer into the top 3 - 5" of soil by disking or other suitable means.
- C. Seeded Preparation
  - Temporary Seeding
    - Seeded preparation shall consist of loosening soil to a depth of 3" to 5" by means of suitable agricultural or construction equipment, such as disk harrows or chiselplows or rippers mounted on construction equipment. After the soil is loosened it should not be rolled or dragged smooth but left in the roughened condition. Sloped areas (greater than 3:1) should be treated leaving the surface in an irregular condition with ridges running parallel to the contour of the slope.
    - Apply fertilizer and lime as prescribed on the plans.
    - Incorporate lime and fertilizer into the top 3 - 5" of soil by disking or other suitable means.
  - Permanent Seeding
    - Minimum soil conditions required for permanent vegetative establishment:
      - Soil pH shall be between 6.0 and 7.0.
      - Soluble salts shall be less than 500 parts per million (ppm).
      - The soil shall contain less than 40% clay but enough fine grained material (3/60 silt plus clay) to provide the capacity to hold a moderate amount of moisture. An exception is if lowgrass or sedge landscapes to be planted, then a sandy soil (3/60 silt plus clay) would be acceptable.
      - Soil shall contain 1.5% minimum organic matter by weight.
      - Soil must contain sufficient pore space to permit adequate root penetration.
      - If these conditions cannot be met by soils on site, adding topsoils required in accordance with Section 21 Standard and Specification for Topsoil
    - Areas previously graded in conformance with the drawings shall be maintained in a true and even grade, then scarified or otherwise loosened to a depth of 3 - 5" to permit bonding of the topsoil to the surface area and to create horizontal erosion check slots to prevent topsoil from sliding down a slope.
    - Apply soil amendments as per soil test or as included on the plans.
    - Mix soil amendments into the top 3 - 5" of topsoil by disking or other suitable means. Lawn areas should be raked to smooth the surface, remove large objects like stones and branches, and ready the soil for seed application. Where site conditions will not permit normal seeded preparation, loosen surface soil by dragging with a heavy chain or other equipment to roughen the surface. Steep slopes (steeper than 3:1) shall be treated by a dozer leaving the soil on an irregular condition with ridges running parallel to the contour of the slope. The top 1 - 3" of soil should be loose and friable. Seeded loosening may not be necessary on newly disturbed areas.

- D. Seed Specifications
  - All seed must meet the requirements of the Maryland State Seed Law. All seed shall be subject to re-testing by a recognized seed laboratory. All seed used shall have been tested within the 6 months immediately preceding the date of sowing such material on the job.
  - Seeds shall be subject to inspection by the inspector to verify type and rate of seed used.
  - Inoculant - The inoculant for treating legume seed in the seed mixtures shall be a pure culture of nitrogen-fixing bacteria prepared specifically for the species. Inoculants shall not be used after the date indicated on the container. Add fresh inoculant as directed on package. Use four times the recommended rate when hydroseeding. Note: It is very important to keep inoculant as cool as possible until used. Temperatures above 70-80°F can weaken bacteria and make the inoculant less effective.

- E. Methods of Seeding
  - Hydroseeding: Apply seed uniformly with hydroseeder (slurry includes seed and fertilizer), broadcast or drop seeder, or a outspreader seeder.
  - If fertilizer is being applied at the time of seeding, the application rate amounts will exceed the following nitrogen maximum of 100 lbs. per acre total of soluble nitrogen: P205 (phosphorous): 200 lbs./acre; K2O (potassium): 200 lbs./acre.
  - Lime - Use only ground agricultural limestone up to 3 tons per acre may be applied by hydroseeding. Normally, not more than 2 tons are applied by hydroseeding of any one line. Do not use burnt or hydrated lime when hydroseeding.
  - Seed and fertilizer shall be mixed on site and seeding should cease immediately and without interruption.
  - Drop Seeding: This includes use of conventional drop or broadcast spreaders.
    - Seed spread dry shall be incorporated into the subsoil at the rates prescribed on the Temporary or Permanent Seeding Summaries or Tables 25 or 26. The seeded area shall then be rolled with a weighted roller to provide good seed to soil contact.
    - Where practical, seed should be applied in two directions perpendicular to each other. Apply half the seeding rate in each direction.
  - Drill or Outspreader Seeding: Mechanized seeders that apply and cover seed with soil.
    - Outspreader seeders or required to bury the seed in such a fashion so to provide at least 1/4 inch of soil covering. Seeded must be firm after planting.
    - Where practical, seed should be applied in two directions perpendicular to each other. Apply half the seeding rate in each direction.

- F. Mulch Specifications (in order of preference)
  - Straw shall consist of thoroughly threshed wheat, rye or oat straw, reasonably bright in color, and shall not be musty, moldy, caked, decayed, or excessively dusty and shall be free of noxious weed seeds as specified in the Maryland Seed Law.

- ii. Wood Cellulose Fiber Mulch (WCFM)
  - WCFM shall consist of specially prepared wood cellulose processed into a uniform fibrous physical structure.
  - WCFM shall be dyed green or contain a green dye in the package that will provide an appropriate color to facilitate visual inspection of the uniformity spread ratio.
  - WCFM, including dye, shall contain no germination or growth inhibiting factors.
  - WCFM materials shall be manufactured and processed in such a manner that the wood cellulose fiber mulch will remain in uniform suspension in water under agitation and will blend with seeds, fertilizer and other additives to form a homogeneous slurry. The mulch material shall form a blotter-like ground cover, on application, having moisture absorption and percolation properties and shall cover and hold elements in contact with the soil without inhibiting the growth of the grass seedlings.
  - WCFM material shall contain no elements or compounds at concentration levels that will be phytotoxic.
  - WCFM must conform to the following physical requirements: fiber length to approximately 10 mm, diameter approximately 1 mm, pH range of 4.0 to 8.5, ash content of 1.5%, maximum water holding capacity of 90% minimum.

- G. Mating Seeded Area - Mulch shall be applied to all seeded areas immediately after seeding.
  - If grading is completed outside of the seeding season, mulch should be applied as prescribed in this section and maintained until the seeding season returns and seeding can be performed in accordance with these specifications.
  - When straw mulch is used, it shall be spread over all seeded areas at the rate of 2 tons/acre. Mulch shall be applied to a uniform loose depth of between 1" and 2". Mulch applied shall achieve a uniform distribution and depth so that the soil surface is not exposed. If a mulch anchoring tool is to be used, the rate should be increased to 2.5 tons/acre.
  - Wood cellulose fiber used as a mulch shall be applied at a net dry weight of 1,500 lbs. per acre. The wood cellulose fiber shall be mixed with water, and the mixture shall contain a maximum of 50 lbs. of wood cellulose fiber per 100 gallons of water.

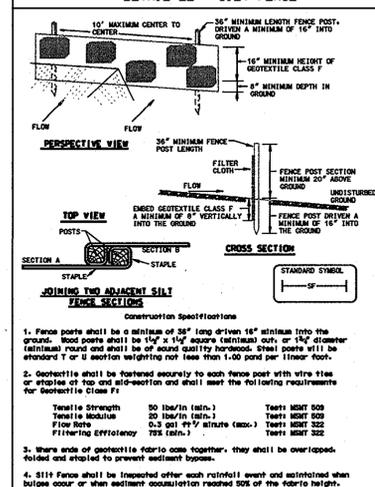
- H. Securing Straw Mulch (Mulch Anchoring) Mulch anchoring shall be performed immediately following mulch application to minimize loss by wind or water. This may be done by one of the following methods (listed by preference), depending upon size of area and erosion hazard:
  - A mulch anchoring tool is a tractor drawn implement designed to punch and anchor mulch into the soil surface a minimum of two (2) inches. This practice is most effective on large areas, but is limited to flatter slopes where equipment can operate safely. If used on sloping land, this practice should be used on the contour if possible.
  - Wood cellulose fiber may be used for anchoring straw. The fiber binder shall be applied at a net dry weight of 750 pounds/acre. The wood cellulose fiber shall be mixed with water, and the mixture shall contain a maximum of 50 pounds of wood cellulose fiber per 100 gallons of water.
  - Application of liquid binders shall be heavier at the edges where wind catches mulch, such as in valleys and on crests of banks. The remainder of area should appear uniform after binder application. Synthetic binders such as Acrylic Latex (Acr-Tack), DCA-70, Patrol, Terra Tack, Terra Tack AR, or other approved equal may be used at rates recommended by the manufacturer to anchor mulch.
  - Lightweight plastic netting may be stapled over the mulch according to manufacturer's recommendations. Netting is usually available in rolls 4' to 10' feet wide and 500 to 3,000 feet long.

- SECTION IV - SOD
- Sod - to provide quick cover on disturbed areas (2:1 grade or flatter)
- A. General Specifications
  - Class of turfgrass sod shall be Maryland or Virginia State Certified or Approved. Sod labels shall be made available to the job foreman and inspector.
  - Sod shall be machine cut at a uniform soil thickness of 3/4" plus or minus 1/4", at the time of cutting. Measurement for thickness shall exclude top growth and thatch. Individual pieces of sod shall be cut to the suppliers width and length. Maximum allowable deviation from standard widths and lengths shall be 5 percent. Broken pods and torn or uneven ends will not be acceptable.
  - Standard size sections of sod shall be strong enough to support their own weight and retain their size and shape when suspended vertically with a firm grasp on the upper 10 percent of the section.
  - Sod shall not be harvested or transported when moisture content (excessively dry or wet) may adversely affect its survival.
  - Sod shall be harvested, delivered, and installed within a period of 36 hours. Sod not transported within this period shall be approved by an agronomist or soil scientist prior to its installation.

- B. Sod Installation
  - During periods of excessively high temperature or in areas having dry soil, the subsoil shall be lightly irrigated immediately prior to laying the sod.
  - The first row of sod shall be laid in a straight line with subsequent rows placed parallel to and tightly wedged against each other. Lateral joints shall be staggered to promote more uniform growth and strength. Ensure that sod is not stretched or overlapped and that all joints are butted tight in order to prevent voids which would cause or drying of the roots.
  - Wherever possible, sod shall be laid with the long edges parallel to the contour and with staggering joints. Sod shall be rolled and tamped, pegged or otherwise secured to prevent slippage on slopes and to ensure solid contact between sod roots and the underlying soil surface.
  - Sod shall be watered immediately following rolling or tamping until the underside of the new sod and soil surface below the sod are thoroughly wet. The operations of laying, tamping and irrigating for any piece of sod shall be completed within eight hours.

- C. Sod Maintenance
  - In the absence of adequate rainfall, watering shall be performed daily or as often as necessary during the first week and in sufficient quantities to maintain moist soil to a depth of 4". Watering should be done during the heat of the day to prevent wilting.
  - After the first week, watering is required as necessary to maintain adequate moisture content.
  - The first mowing of sod should not be attempted until the sod is firmly rooted. No more than 1/3 of the grass leaf shall be removed by the initial cutting or subsequent cuttings. Grass height shall be maintained between 2" and 3" unless otherwise specified.

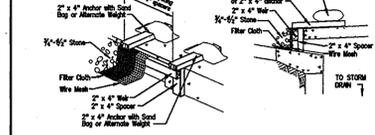
DETAIL 22 - SILT FENCE



CONSTRUCTION SPECIFICATIONS

- Fence posts shall be a minimum of 18" long driven 18" into the ground. Wood posts shall be 1 1/2" x 4" square (chestnut) or 1 1/2" diameter (laminated) round and shall be of sound quality hardwood. Steel posts will be approved if it meets the following requirements:
  - Minimum diameter shall be 1 1/2" and shall be galvanized.
  - Minimum length shall be 18" and shall be galvanized.
  - Minimum length shall be 18" and shall be galvanized.
- Posts shall be spaced at a maximum of 10' and shall be driven a minimum of 18" into the ground.
- Posts shall be driven a minimum of 18" into the ground.
- Posts shall be driven a minimum of 18" into the ground.

Curb Inlet Protection



CONSTRUCTION SPECIFICATIONS

- ATTACH A CONTIGUOUS PIECE OF WIRE MESH (3/4" x 1/2" MESH) WITH A TIGHT FIT TO THE CURB AND THE INLET OPENING. THE WIRE MESH SHALL BE 2' x 2' AS SHOWN ON THE STANDARD DRAWING.
- PLACE A CONTIGUOUS PIECE OF GEOTEXTILE FABRIC (SEE THE SAME DIMENSIONS AS THE WIRE MESH) OVER THE WIRE MESH AND SECURELY ATTACH TO THE CURB AND THE INLET OPENING.
- SECURELY NAIL THE 2" x 2" WIRE MESH TO THE CURB AND THE INLET OPENING. THE WIRE MESH SHALL BE 2' x 2' AS SHOWN ON THE STANDARD DRAWING.
- THE ASSEMBLY SHALL BE PLACED SO THAT THE END SPACERS ARE A MINIMUM FIVE FEET BOTH ENDS OF THE TIGHT OPENING.
- FORM THE 2" x 2" WIRE MESH AND GEOTEXTILE FABRIC TO THE CURB AND THE INLET OPENING. THE WIRE MESH SHALL BE 2' x 2' AS SHOWN ON THE STANDARD DRAWING. THE WIRE MESH SHALL BE 2' x 2' AS SHOWN ON THE STANDARD DRAWING.
- THE TYPE OF PROTECTIVE MESH OR GEOTEXTILE SHALL BE APPROVED BY THE ENGINEER. THE TYPE OF PROTECTIVE MESH OR GEOTEXTILE SHALL BE APPROVED BY THE ENGINEER.
- REMOVE THE 2" x 2" WIRE MESH AND GEOTEXTILE FABRIC FROM THE CURB AND THE INLET OPENING. THE WIRE MESH SHALL BE 2' x 2' AS SHOWN ON THE STANDARD DRAWING.

BY THE DEVELOPER  
 I/WE 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 THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTIONS BY THE HOWARD SOIL CONSERVATION DISTRICT.

*Martin E. Stumbaugh Jr.* 3-31-98  
 DEVELOPER DATE

BY THE ENGINEER:  
 I CERTIFY THAT THIS PLAN OF 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.

*Patrick C. Redden Jr.* 3/31/98  
 ENGINEER DATE

THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS FOR SOIL EROSION AND SEDIMENT CONTROL.

*Cheryl Simmon* 4/13/98  
 U.S. SOIL CONSERVATION SERVICE DATE

*John R. Robertson* 4/13/98  
 HOWARD SOIL CONSERVATION DISTRICT DATE

AS BUILT CERTIFICATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

*David Smith* 4/30/98  
 DIRECTOR DATE

*Cheryl Simmon* 4/16/98  
 CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

*Cindy Hamilton* 4/30/98  
 CHIEF, DIVISION OF LAND DEVELOPMENT DATE

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

*James M. Boyd* 4-24-98  
 COUNTY HEALTH OFFICER DATE

8-12-98 1 To eliminate the oil water separator shown on the plan.

OWNER/DEVELOPER  
 AMOCO OIL COMPANY  
 ONE PENNSYLVANIA AVENUE  
 TOWSON, MARYLAND 21204  
 Attn: MARTY STUMBROSKI, PH. 717-993-9431

PROJECT: AMOCO GAS STATION  
 8810 WASHINGTON BLVD.

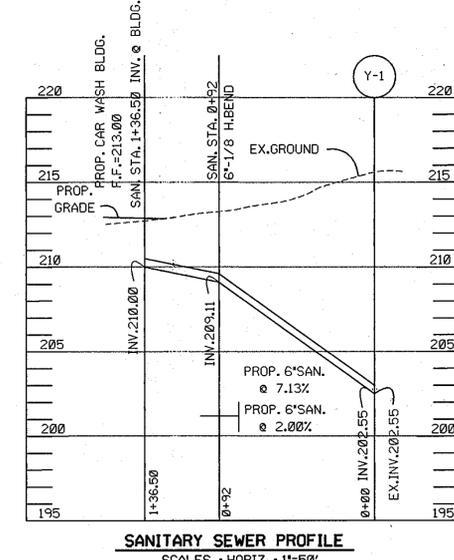
AREA TAX MAP NO. 47 BLOCK NO. 6  
 PARCEL/LOT NO. : 500 ZONING : M-1  
 6th ELECTION DISTRICT HOWARD COUNTY, MARYLAND

TITLE  
 SEDIMENT CONTROL NOTES & DETAILS  
 William Monk, Inc.  
 ENGINEERS - PLANNERS  
 Courthouse Commons  
 222 Bosley Avenue, Suite C-6  
 Towson, Maryland 21204  
 Phone: 410-494-8931 Fax: 410-494-9903

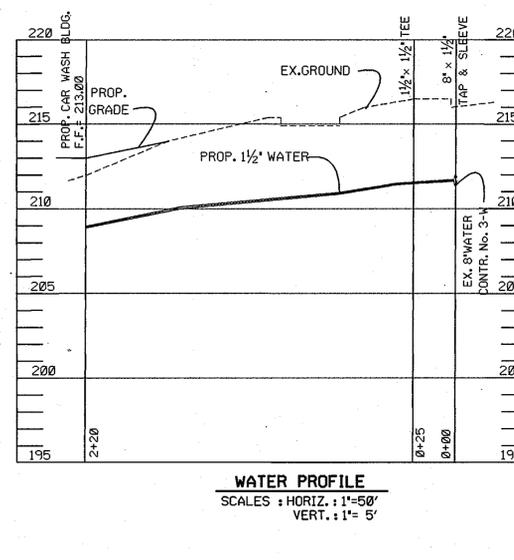
1/30/98  
 DATE  
 CHECKED BY: PCR  
 DESIGNED BY: PCR  
 DRAWN BY: JRG

PROJECT NO. : 97-28  
 DATE: 9/31/97  
 SCALE: AS SHOWN

DRAWING NO. 3 OF 5

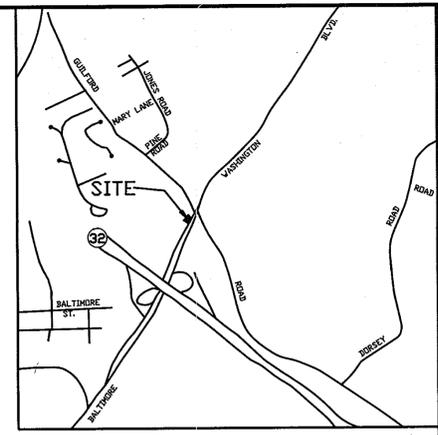
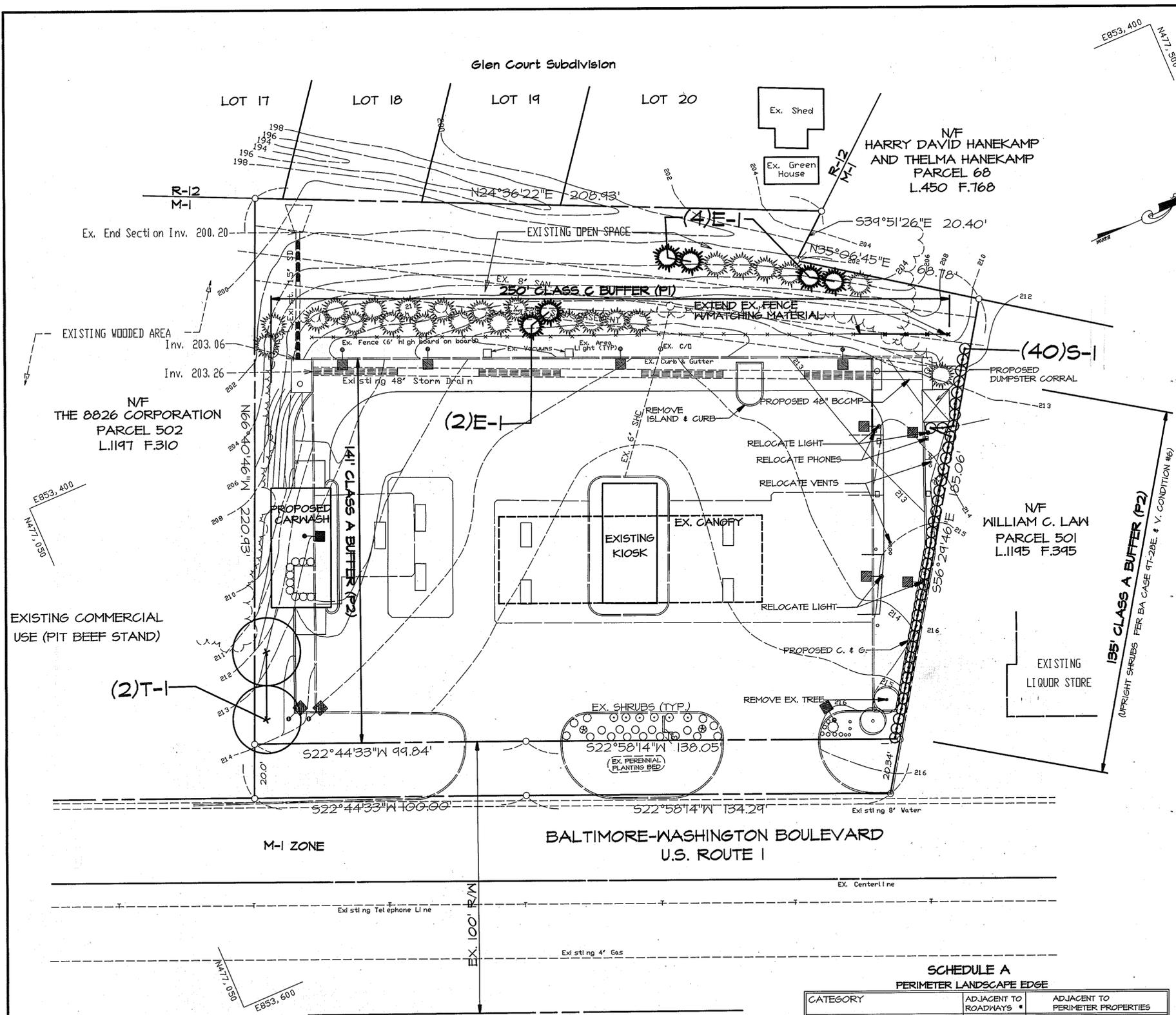


SANITARY SEWER PROFILE  
 SCALES: HORIZ. : 1"=50'  
 VERT. : 1"= 5'



WATER PROFILE  
 SCALES: HORIZ. : 1"=50'  
 VERT. : 1"= 5'

SUBDIVISION NAME  
 AMOCO SERVICE STATION  
 SECTION/AREA  
 LOT/PAR



VICINITY MAP  
SCALE: 1"=2000'

LANDSCAPE NOTES:

- 1) ALL NURSERY STOCK SHALL CONFORM TO AMERICAN ASSOCIATION OF NURSERYMAN, INC. STANDARDS AS DESCRIBED IN "AMERICAN STANDARDS FOR NURSERY STOCK" PUBLICATION ANSI 601-1994.
- 2) LANDSCAPE SPECIFICATIONS SHALL CONFORM TO "LANDSCAPE SPECIFICATION GUIDELINES FOR THE BALTIMORE-WASHINGTON METROPOLITAN AREAS" PREPARED BY THE LANDSCAPE CONTRACTORS ASSOCIATION OF METROPOLITAN WASHINGTON, LATEST EDITION.
- 3) A ONE YEAR MAINTENANCE AND WARRANTY PERIOD SHALL BE REQUIRED.
- 4) CONTRACTOR SHALL NOTIFY THOMAS J. HOFF, INC. AT LEAST 48 HOURS PRIOR TO THE START OF INSTALLATION.
- 5) ANY SUBSTITUTIONS OR CHANGES TO PLANT MATERIALS OR THEIR LOCATIONS SHALL BE APPROVED BY THOMAS J. HOFF, INC. AT LEAST 48 HOURS PRIOR TO CONSTRUCTION.
- 6) CONTRACTOR SHALL NOTIFY "MISS UTILITY" AT LEAST 72 HOURS PRIOR TO THE START OF ANY DIGGING.
- 7) EXISTING UTILITIES SHOWN HEREON ARE FOR THE CONVENIENCE OF THE CONTRACTOR. CONTRACTOR SHALL VERIFY EXISTING UTILITIES TO THEIR SATISFACTION. ANY DAMAGES TO UTILITIES OR INJURIES RESULTING THEREOF SHALL BE THE SOLE RESPONSIBILITY OF THE LANDSCAPE CONTRACTOR.
- 8) ANY EXISTING SOIL CONDITIONS THAT MAY POSE A THREAT TO THE LIFE AND HEALTH OF THE PLANT MATERIAL MUST BE BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT BY THE LANDSCAPE CONTRACTOR PRIOR TO THE INSTALLATION OF THE PLANT MATERIAL.

BY THE DEVELOPER  
I/WE 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 THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTIONS BY THE HOWARD SOIL CONSERVATION DISTRICT.

*Martin E. Stumbrski Jr.* 3-31-98  
DEVELOPER DATE

BY THE ENGINEER:  
I CERTIFY THAT THIS PLAN OF 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.

*Patrick C. Roberts Jr.* 3/31/98  
ENGINEER DATE

THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS FOR SOIL EROSION AND SEDIMENT CONTROL.

*Cheryl Simmons* 4/13/98  
US. SOIL CONSERVATION SERVICE DATE

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

*John R. Robertson* 4/13/98  
HOWARD SOIL CONSERVATION DISTRICT DATE

AS BUILT CERTIFICATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.

*James B. Smith* 4/13/98  
DIRECTOR DATE

*[Signature]* 4/16/98  
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

*Candy Hamilton* 4/30/98  
CHIEF, DIVISION OF LAND DEVELOPMENT DATE

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

*Jorge M. Bayliss* 4-24-98  
COUNTY HEALTH OFFICER DATE

DATE	NO.	REVISION

OWNER/DEVELOPER  
AMOCO OIL COMPANY  
ONE PENNSYLVANIA AVENUE  
TOWSON, MARYLAND 21204  
Attn.: MARTY STUMBROSKI, PH. 717-993-9431

PROJECT: AMOCO OIL COMPANY  
8810 WASHINGTON BLVD.(aka U.S. ROUTE 1)  
HOWARD COUNTY, MARYLAND

AREA TAX MAP NO. 47 BLOCK NO. 6  
PARCEL/LOT NO.: 500 ZONING: M-1  
6th ELECTION DISTRICT HOWARD COUNTY, MARYLAND

LANDSCAPE PLAN

**William Monk, Inc.**  
ENGINEERS - PLANNERS  
Courthouse Commons  
222 Bosley Avenue, Suite C-6  
Towson, Maryland 21204  
Phone: 410-494-8991 Fax: 410-494-8903

CHECKED BY: PCR  
DESIGNED BY: PCR  
DRAWN BY:  
PROJECT NO.: 97-28  
DATE:  
SCALE: 1"=20'  
DRAWING NO. 4 OF 5

PLANT LIST

Key	Quantity	Scientific Name	Common Name	Size	Root	Comment
S-1	40	Abella x grandiflora	Glossy Abella	30-36"	B & B	4' O.C.
T-1	2	Gleditsia triacanthos 'Shademaster'	Shademaster Honey Locust	2 1/2-3" cal.	"	25' O.C.
E-1	6	Pinus strobus	Eastern White Pine	6-8'	"	10' O.C.

\* CLEAR ALL PLANTING AREAS OF INVASIVE PLANTS AND WEEDS.

PLANTING CALCULATIONS:

EXISTING PLANTS:	REQUIRED PLANTS:	PROVIDED PLANTS:
CLASS C: 21 EVERGREEN	CLASS C: 7 SHADE TREE 13 EVERGREEN	CLASS C: 6 EVERGREEN CLASS A: 2 SHADE TREE 40 SHRUBS
	CLASS A: 5 SHADE TREE	

PLANT SUBSTITUTIONS:  
CLASS C:  
250' • 1 TREE/40' = 7 SHADE TREE = 14 EVERGREEN  
250' • 1 EVERGREEN/20' = 13 EVERGREEN  
TOTAL REQUIRED EVERGREEN = 27 EVERGREEN  
EXISTING PLANTS CREDIT = 21 EVERGREEN  
REQUIRED PLANTING: 27-21=6 EVERGREEN  
CLASS A:  
135' • 1 TREE/60' = 3 SHADE TREE = 30 SHRUBS  
141' • 1 TREE/60' = 3 SHADE TREE = 2 TREE + 10 SHRUBS

SCHEDULE A  
PERIMETER LANDSCAPE EDGE

CATEGORY	ADJACENT TO ROADWAYS *	ADJACENT TO PERIMETER PROPERTIES	
		CLASS C' (P1)	CLASS A' (P2)
LANDSCAPE TYPE			
LINEAR FEET OF ROADWAY FRONTAGE/PERIMETER		250'	276'
CREDIT FOR EXISTING VEGETATION (YES, NO, LINEAR FEET)		YES	NO
NUMBER OF PLANTS REQUIRED			
SHADE TREES		7	5
EVERGREEN TREES		13	
SHRUBS			
NUMBER OF PLANTS PROVIDED			
SHADE TREES		6	2
EVERGREEN TREES			
OTHER TREES (2:1 SUBSTITUTION)			
SHRUBS (10:1 SUBSTITUTION)			40

\* PERIMETER LANDSCAPING ONLY REQUIRED BY ZONING ORDER.

SURETY FOR LANDSCAPE INSTALLATION:

1. THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH THE PROVISIONS OF SECTION 16.124 OF THE HOWARD COUNTY CODE AND THE LANDSCAPE MANUAL.
2. FINANCIAL SURETY FOR THE REQUIRED LANDSCAPING HAS BEEN POSTED AS PART OF THE DPW DEVELOPER'S AGREEMENT IN THE AMOUNT OF \$1,200.00.

LANDSCAPE PLAN PREPARED BY:  
**THOMAS J. HOFF, INC.** DATE: 11/18/97  
Land Development Consultants and Landscape Architects  
406 N. PENNSYLVANIA AVE.  
TOWSON, MD 21204  
410-246-3668  
FAX: 410-246-5326

REVISIONS:  
1/28/98, SLV.

