

# SITE DEVELOPMENT PLANS

## HOWARD BUSINESS PARK

### PARCEL B-3

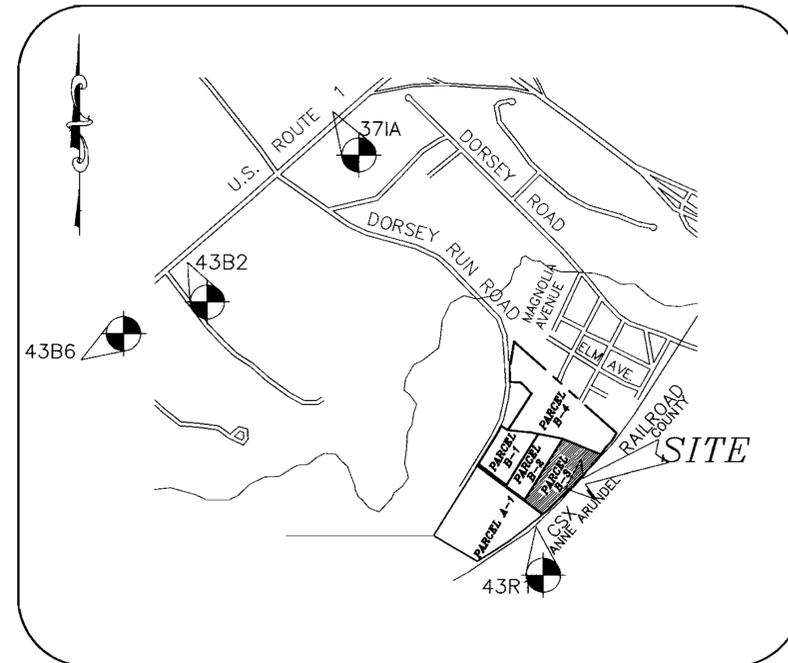
#### FIRST ELECTION DISTRICT

#### HOWARD COUNTY, MARYLAND

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PERMIT INFORMATION CHART					
SUBDIVISION NAME HOWARD BUSINESS PARK		SECTION/AREA N/A	LOT/PARCEL # (PARCEL B-3)		
PLAT # OR L/F 14169-14171	BLOCK # 12	ZONE M-2	TAX MAP # 43	ELEC. DIST. FIRST	CENSUS TRACT 6012
WATER CODE B-01		SEWER CODE 2250000			

ADDRESS CHART	
BUILDING NO.	STREET ADDRESS
PARCEL B-3	7131 DORSEY RUN ROAD



**VICINITY MAP**

SCALE: 1"=1000'

### GENERAL NOTES

1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST STANDARDS AND SPECIFICATIONS OF HOWARD COUNTY PLUS MSHA STANDARDS AND SPECIFICATIONS IF APPLICABLE.
2. THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF PUBLIC WORKS/CONSTRUCTION INSPECTIONS DIVISION AT (410) 313-1880 AT LEAST FIVE (5) WORKING DAYS PRIOR TO THE START OF WORK.
3. CONTRACTOR TO VERIFY THE LOCATION OF ALL EXISTING UTILITIES ON SITE PRIOR TO COMMENCING CONSTRUCTION.
4. THE CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITIES OR AGENCIES AT LEAST FIVE (5) DAYS PRIOR TO ANY EXCAVATION WORK:
 

MISS UTILITY	1-800-257-7777
VERIZON COMPANY	(410) 725-9976
HOWARD COUNTY BUREAU OF UTILITIES	(410) 313-4900
AT&T CABLE LOCATION DIVISION	(410) 393-3533
BALTIMORE GAS & ELECTRIC	(410) 685-0123
STATE HIGHWAY ADMINISTRATION	(410) 531-5533
HOWARD COUNTY DEPT. OF PUBLIC WORKS/ CONSTRUCTION INSPECTION DIVISION	(410) 313-1880
5. PROJECT BACKGROUND:  
 LOCATION: FIRST ELECTION DISTRICT - TAX MAP 43 - L4894/F0101 - PARCEL B-3  
 ZONING: M-2 PER THE 10/18/93 COMPREHENSIVE ZONING PLAN.  
 TOTAL AREA: 8.16 ACRES ±  
 LIMIT OF DISTURBED AREA: 4.20 ACRES ±  
 DPZ REFERENCE # SDP-95-60 WP-00-23 F-00-27 WP-00-26 F-00-29 SDP-00-48  
 PROPOSED USE: CONCRETE BATCHING PLANT (INDUSTRIAL)  
 PROPOSED NUMBER OF EMPLOYEES: 10  
 PARKING SPACES REQUIRED: 10  
 PARKING SPACES PROVIDED: 12  
 BUILDING COVERAGE OF SITE: 0.11 ±Ac (1.3%)
6. EXISTING CONTOURS SHOWN HEREON ARE BASED ON PROPOSED GRADING UNDER SDP-00-48, HOWARD BUSINESS PARK, PARCELS B-1 THRU B-4 AND EXISTING CONDITIONS BASED ON AERIAL MAPPING TOPOGRAPHIC SURVEY BY WINGS AERIAL MAPPING CO, INC. IN FEBRUARY 1999, THESE CONTOURS HAVE BEEN FIELD VERIFIED BY MILDENBERG BOENDER & ASSOC INC.
7. BOUNDARY SHOWN IS BASED ON A FIELD RUN MONUMENTED BOUNDARY SURVEY PERFORMED ON OR ABOUT SEPTEMBER 1999 BY MILDENBERG, BOENDER & ASSOCIATES, INC. AND ON THE RECORDED PLAT # 14169-14171.
8. HORIZONTAL AND VERTICAL DATUMS BASED ON (NAD'83) MARYLAND STATE COORDINATE SYSTEM AS PROJECTED BY HOWARD COUNTY GEODETIC CONTROL STATIONS.
 

STA. No. 43B6	N 550,601.597	ELEV. 210.54
	E 1,376,866.071	
STA. No. 43B2	N 551,054.993	ELEV. 209.59
	E 1,378,176.951	
STA. No. 371A	N 553,315.147	ELEV. 195.75
	E 1,379,982.153	
STA. No. 43R1	N 548,305.502	ELEV. 134.53
	E 1,382,025.818	
9. WATER AND SEWER ARE PUBLIC, CONTRACT # 14-3775-D.
10. PROPERTY IS LOCATED WITHIN THE METROPOLITAN DISTRICT.
11. STORMWATER MANAGEMENT IS PROVIDED BY THE METHOD OF RETENTION UNDER APPROVED SDP-00-48 (HOWARD BUSINESS PARK, PARCELS B-1 THRU B-4)
12. APFO ROAD TEST SATISFIED UNDER APPROVED F-00-29, HOWARD BUSINESS PARK, PARCELS A-1 & B-1 THRU B-4.
13. WETLAND AND STREAM DELINEATION APPROVED UNDER F-00-29, HOWARD BUSINESS PARK, PARCELS A-1 & B-1 THRU B-4.
14. FOREST CONSERVATION REQUIREMENTS SATISFIED UNDER APPROVED F-00-29, HOWARD BUSINESS PARK, PARCELS A-1 & B-1 THRU B-4.
16. NO BURIAL GROUNDS OR CEMETERIES ON SITE.
17. ALL CURB TO BE INSTALLED PER HO.CO. STD. R 3.01 (STANDARD 7" COMBINATION CURB & GUTTER)
18. SEDIMENT CONTROL IS PROVIDED UNDER SDP-00-48.
19. PROVIDE AN INSIDE WATER METER PER THE HO. CO. REQUIREMENTS IN COORDINATION WITH THE HOWARD COUNTY BUREAU OF UTILITIES.

**DEVELOPER'S CERTIFICATE**

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 ATTENDING AS 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 NATURAL RESOURCE CONSERVATION SERVICE.

*Steven P. Ward* 4/20/01  
SIGNATURE OF DEVELOPER DATE

STEVEN P. WARD  
PRINTED NAME OF DEVELOPER

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**ENGINEER'S CERTIFICATE**

I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND FEASIBLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE AND THAT I AM A LICENSED PROFESSIONAL ENGINEER IN ACCORDANCE WITH THE REQUIREMENTS OF THE NATURAL RESOURCE CONSERVATION SERVICE.

*John E. Mildeberg* 4/20/01  
SIGNATURE OF ENGINEER DATE

JOHN E. MILDEBERG  
PRINTED NAME OF ENGINEER

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THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.

*Jim Meyers* 4/30/01  
USDA - NATURAL RESOURCE CONSERVATION SERVICE DATE

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

*John K. Robertson* 4/30/01  
HOWARD SOIL CONSERVATION DISTRICT DATE

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APPROVED: DEPARTMENT OF PLANNING AND ZONING

*Steve P. Ward* 5/1/01  
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

*Chris Starnice* 5/10/01  
CHIEF, DIVISION OF PLANNING AND DEVELOPMENT DATE

*Steve P. Ward* 5/10/01  
DIRECTOR DATE

**OWNER/DEVELOPER**

ATTN: STEVEN D. WARD  
SAVON L.L.C.  
P.O. BOX 1707  
ROCKVILLE, MARYLAND 20849-1707  
(301) 762-3988

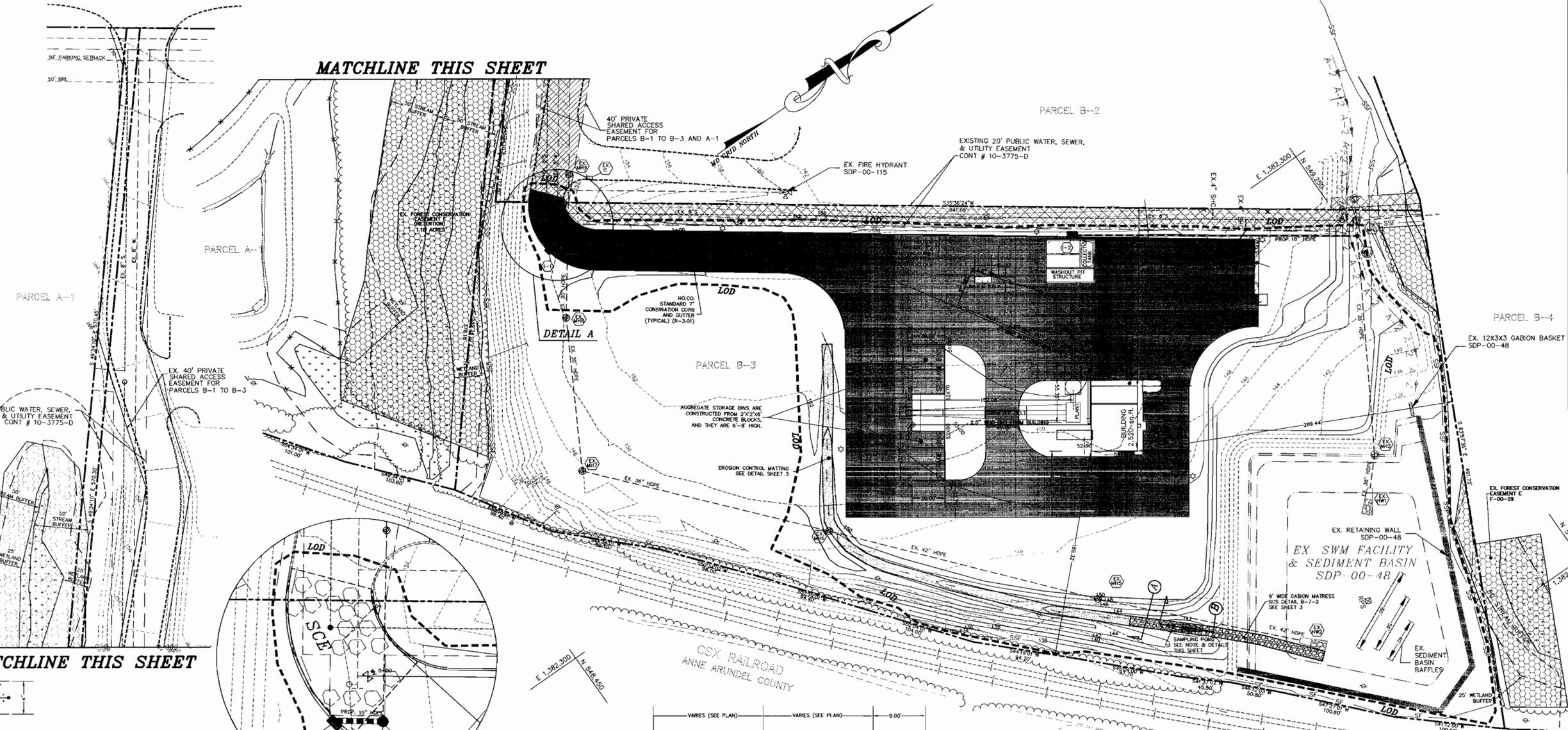
date	MAR. 2001
project	2000004
illustration	SAA
scale	SAA
approval	AS SHOWN JBM

date	
description	
revisions	

HOWARD BUSINESS PARK  
PARCEL B-3  
TAX MAP 43 - PARCEL 321 - BLOCK 12  
FIRST ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND  
COVER SHEET

**MILDENBERG,  
BOENDER & ASSOC., INC.**  
Engineers Planners Surveyors  
5072 Dorsey Hill Drive, Suite 202, Ellicott City, Maryland 21042  
(410) 997-0296 Fax. (301) 821-5521 Wash. (410) 997-0288 Fax.

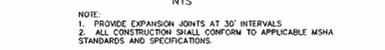
**DORSEY RUN ROAD**  
MAJOR COLLECTOR --- 80' ROW --- PUBLIC ROAD



**MATCHLINE THIS SHEET**

**MATCHLINE THIS SHEET**

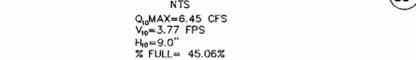
**TYPICAL PAVING SECTION**



**TYPICAL SWALE SECTION**



**TYPICAL GABION SWALE SECTION**



**NOTE:** THE SAMPLING POND IS USED TO TAKE SAMPLES FROM THE SITE RUNOFF. THESE SAMPLES TO BE EXAMINED FOR PH LEVELS.

**SAMPLING POND SECTION**

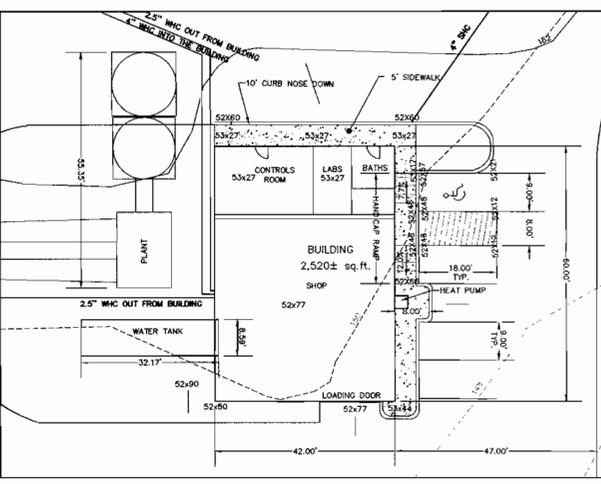
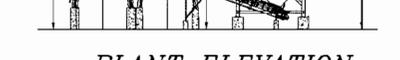


Q<sub>MAX</sub>=6.45 CFS  
V<sub>0.95</sub>=3.77 FPS  
H<sub>0.95</sub>=9.0'  
% FULL= 45.06%

**BUILDING ELEVATION**



**PLANT ELEVATION**



**BUILDING & PARKING DETAIL**



**HANDICAPPED SIGN AND POST**  
NOT TO SCALE

**DEVELOPER'S CERTIFICATE**  
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 THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERSONS ON-SITE INSPECTION BY THE NATURAL RESOURCE CONSERVATION SERVICE.

Signature: *Steve D. Ward* DATE: 4/20/01  
Printed Name: **STEVEN D. WARD**

**ENGINEER'S CERTIFICATE**  
I CERTIFY THAT THIS PLAN SHOWS EROSION AND SEDIMENT CONTROL REPRESENTS A FEASIBLE AND EFFECTIVE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE REQUIREMENTS OF THE FEDERAL CLEAN WATER ACT AND THE REQUIREMENTS OF THE NATURAL RESOURCE CONSERVATION SERVICE.

Signature: *John J. Fenberg* DATE: 4/19/01  
Printed Name: **JOHN J. FENBERG**

THIS PLAN HAS BEEN PREPARED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.

Signature: *Jim M. ...* DATE: 4/30/01  
Signature: *John ...* DATE: 4/30/01

APPROVED: DEPARTMENT OF PLANNING AND ZONING  
DATE: 5/1/01  
DATE: 5/10/01  
DATE: 5/10/01

- LEGEND**
- EX. EARTH DIKE
  - FLOW ARROWS
  - LOD LIMIT OF DISTURBANCE
  - EX. REMOVABLE PUMPING STATION
  - EX. SILT FENCE
  - EX. SUPER SILT FENCE
  - EX. RIPRAP OUTLET PROTECTION
  - PROP. STABILIZED CONSTRUCTION ENTRANCE
  - EX. PUBLIC WATER & SEWER EASEMENT (F-00-29)
  - EX. PRIVATE ACCESS EASEMENT (F-00-29)
  - EX. FOREST CONSERVATION EASEMENT (F-00-29)
  - WETLANDS (F-00-29)
  - EXTERIOR LIGHT
  - HOSE BIB
  - EX. FIRE HYDRANT

project	20004	date	MAR. 2001
illustration	SAA	engineering	SAA
scale	1"=60'	approval	JBM

no.	description	date

**HOWARD BUSINESS PARK CONCRETE BATCHING PLANT**  
PARCELS B-3  
TAX MAP 43 - PARCEL 321 - BLOCK 12  
FIRST ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND  
SITE DEVELOPMENT PLAN

**MILDENBERG, BOENDER & ASSOC., INC.**  
Engineers Planners Surveyors  
5072 Dorsey Hall Drive, Suite 202, Ellicott City, Maryland 21042  
(410) 997-0296 Ext. (301) 821-5521 Wash. (410) 987-0298 Fax.

**HOWARD SOIL CONSERVATION DISTRICT**

**PERMANENT SEEDING NOTES**

APPLY TO GRADED OR CLEARED AREAS NOT SUBJECT TO IMMEDIATE FURTHER DISTURBANCE WHERE A PERMANENT LONG-LIVED VEGETATIVE COVER IS NEEDED.

SEEDBED PREPARATION: LOOSEN UPPER THREE INCHES OF SOIL BY RAKING, DISKING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING, IF NOT PREVIOUSLY LOOSENED.

SOIL AMENDMENTS: IN LIEU OF SOIL TEST RECOMMENDATIONS, USE ONE OF THE FOLLOWING SCHEDULES:

- PREFERRED - APPLY 2 TONS PER ACRE DOLOMITIC LIMESTONE (92 LBS./1000 SQ.FT.) AND 600 LBS. PER ACRE 10-10-10 FERTILIZER (14 LBS./1000 SQ.FT.) BEFORE SEEDING. HARROW OR DISK INTO UPPER THREE INCHES OF SOIL AT TIME OF SEEDING. APPLY 400 LBS. PER ACRE 30-0-0 UREAFORM FERTILIZER (9 LBS./1000 SQ.FT.)
- ACCEPTABLE - APPLY 2 TONS PER ACRE DOLOMITIC LIMESTONE (92 LBS./1000 SQ.FT.) AND 1000 LBS. PER ACRE 10-10-10 FERTILIZER (23 LBS./1000 SQ.FT.) BEFORE SEEDING. HARROW OR DISK INTO UPPER THREE INCHES OF SOIL.

SEEDING - FOR PERIODS MARCH 1 THRU APRIL 30, AND AUGUST 1 THRU OCTOBER 15, SEED WITH 60 LBS. PER ACRE 1.4 LBS./1000 SQ.FT.) OF KENTUCKY 31 TALL FESCUE. FOR THE PERIOD MAY 1 THRU JULY 31, SEED WITH 60 LBS. KENTUCKY 31 TALL FESCUE PER ACRE AND 2 LBS. PER ACRE (0.5 LBS./1000 SQ.FT.) OF WEEPING LOVEGRASS. DURING THE PERIOD OF OCTOBER 16 THRU FEBRUARY 28, PROTECT SITE BY: OPTION (1) - 2 TONS PER ACRE OF WELL ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING. OPTION (2) - USE SOD. OPTION (3) - SEED WITH 60 LBS./ACRE KENTUCKY 31 TALL FESCUE AND MULCH WITH 2 TONS/ACRE WELL ANCHORED STRAW.

MULCHING - APPLY 1-1/2 TO 2 TONS PER ACRE (70 TO 90 LBS./1000 SQ.FT.) OF UNROTTED SMALL GRAIN STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORING TOOL OR 218 GALLONS PER ACRE (5 GAL./1000 SQ.FT.) OF EMULSIFIED ASPHALT ON FLAT AREAS. ON SLOPES 8 FEET OR HIGHER, USE 348 GALLONS PER ACRE (8 GAL./1000 SQ.FT.) FOR ANCHORING.

MAINTENANCE - INSPECT ALL SEEDING AREAS AND MAKE NEEDED REPAIRS, REPLACEMENTS AND RESEEDINGS.

**TEMPORARY SEEDING NOTES**

APPLY TO GRADED OR CLEARED AREAS LIKELY TO BE REDISTURBED WHERE A SHORT-TERM VEGETATIVE COVER IS NEEDED.

SEEDBED PREPARATION: LOOSEN UPPER THREE INCHES OF SOIL BY RAKING, DISKING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING, IF NOT PREVIOUSLY LOOSENED.

SOIL AMENDMENTS: APPLY 600 LBS. PER ACRE 10-10-10 FERTILIZER (14 LBS./1000 SQ.FT.)

SEEDING: FOR PERIODS MARCH 1 THRU APRIL 30 AND FROM AUGUST 15 THRU OCTOBER 15, SEED WITH 2-1/2 BUSHEL PER ACRE OF ANNUAL RYE (3.2 LBS./1000 SQ.FT.) FOR THE PERIOD MAY 1 THRU AUGUST 14, SEED WITH 3 LBS. PER ACRE OF WEEPING LOVEGRASS (0.7 LBS./1000 SQ.FT.) FOR THE PERIOD NOVEMBER 16 THRU NOVEMBER 28, PROTECT SITE BY APPLYING 2 TONS PER ACRE OF WELL ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING, OR USE SOD.

MULCHING: APPLY 1-1/2 TO 2 TONS PER ACRE (70 TO 90 LBS./1000 SQ.FT.) OF UNROTTED WEED FREE SMALL GRAIN STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORING TOOL OR 218 GAL PER ACRE (5 GAL./1000 SQ.FT.) OF EMULSIFIED ASPHALT ON FLAT AREAS. ON SLOPES 8 FEET OR HIGHER, USE 348 GAL PER ACRE (8 GAL./1000 SQ.FT.) FOR ANCHORING.

REFER TO THE 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR ADDITIONAL RATES AND METHODS NOT COVERED.

**STANDARD SEDIMENT CONTROL NOTES**

- A MINIMUM OF 48 HOURS NOTICE MUST BE GIVEN TO THE HOWARD COUNTY DEPARTMENT OF INSPECTIONS, LICENSES AND PERMITS, SEDIMENT CONTROL DIVISION PRIOR TO THE START OF MAY CONSTRUCTION, (313-1855).
- ALL VEGETATIVE AND STRUCTURAL PRACTICES ARE TO BE INSTALLED ACCORDING TO THE PROVISIONS OF THIS PLAN AND ARE TO BE IN CONFORMANCE WITH THE MOST CURRENT "MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL", AND REVISIONS THERE TO.
- 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 1991 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR PERMANENT SEEDING (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: 8.16 ACRES
  - AREA DISTURBED: 5.75 ACRES
  - AREA TO BE ROOFED OR PAVED: 2.16 ACRES
  - AREA TO BE VEGETATIVELY STABILIZED: 5.59 ACRES
  - TOTAL CUT: 4,000 CU. YDS.
  - TOTAL FILL: 4,000 CU. YDS.
  - TOTAL WASTE/BORROW AREA LOCATION: A

THESE QUANTITIES ARE FOR PERMIT PURPOSES ONLY. CONTRACTOR IS REQUIRED TO FURNISH HIS OWN QUANTITY MEASUREMENTS.

- 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 CONTROL MUST BE PROVIDED, IF DEEMED NECESSARY BY THE HOWARD COUNTY 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 CONTROL, 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.
- TRENCHES FOR THE CONSTRUCTION OF UTILITIES IS LIMITED TO THREE PIPE LENGTHS OR THAT WHICH CAN BE BACK FILLED AND STABILIZED WITHIN ONE WORKING DAY, WHICHEVER IS SHORTER.

**STANDARD AND SPECIFICATIONS FOR TOPSOIL**

**DEFINITION**

PLACEMENT OF TOPSOIL OVER A PREPARED SUBSOIL PRIOR TO ESTABLISHMENT OF PERMANENT VEGETATION.

**PURPOSE**

TO PROVIDE A SUITABLE SOIL MEDIUM FOR VEGETATIVE GROWTH. SOILS OF CONCERN HAVE LOW MOISTURE CONTENT, LOW NUTRIENT LEVELS, LOW PH, MATERIALS TOXIC TO PLANTS, AND/OR UNACCEPTABLE SOIL GRADATION.

**CONDITIONS WHERE PRACTICE APPLIES**

- THIS PRACTICE IS LIMITED TO AREAS HAVING 2:1 OR FLATTER SLOPES WHERE:
  - THE TEXTURE OF THE EXPOSED SUBSOIL/PARENT MATERIAL IS NOT ADEQUATE TO PRODUCE VEGETATIVE GROWTH.
  - THE SOIL MATERIAL IS SO SHALLOW THAT THE ROOTING ZONE IS NOT DEEP ENOUGH TO SUPPORT PLANTS OR FURNISH CONTINUING SUPPLIES OF MOISTURE AND PLANT NUTRIENTS.
  - THE ORIGINAL SOIL TO BE VEGETATED CONTAINS MATERIAL TOXIC TO PLANT GROWTH.
  - THE SOIL IS SO ACIDIC THAT TREATMENT WITH LIMESTONE IS NOT FEASIBLE.
- FOR THE PURPOSE OF THESE STANDARDS AND SPECIFICATIONS, AREAS HAVING SLOPES STEEPER THAN 2:1 REQUIRE SPECIAL CONSIDERATION AND DESIGN FOR ADEQUATE STABILIZATION. AREAS HAVING SLOPES STEEPER THAN 2:1 SHALL HAVE THE APPROPRIATE STABILIZATION SHOWN ON THE PLANS.

**CONSTRUCTION AND MATERIAL SPECIFICATIONS**

- TOPSOIL SALVAGED FROM THE EXISTING SITE MAY BE USED PROVIDED THAT IT MEETS THE STANDARDS AS SET FORTH IN THESE SPECIFICATIONS. TYPICALLY, THE DEPTH OF TOPSOIL TO BE SALVAGED FOR A GIVEN SOIL TYPE CAN BE FOUND IN THE REPRESENTATIVE SOIL PROFILE SECTION IN THE SOIL SURVEY PUBLISHED BY USDA-SCS IN COOPERATION WITH MARYLAND AGRICULTURAL EXPERIMENTAL STATION.
- TOPSOIL SPECIFICATIONS - SOIL TO BE USED AS TOPSOIL MUST MEET THE FOLLOWING:
  - TOPSOIL SHALL BE A LOAM, SANDY LOAM, CLAY LOAM, SILT LOAM, SANDY CLAY LOAM, LOAMY SAND. OTHER SOILS MAY BE USED IF RECOMMENDED BY AN AGRONOMIST OR SOIL SCIENTIST AND APPROVED BY THE APPROPRIATE APPROVAL AUTHORITY. REGARDLESS, TOPSOIL SHALL NOT BE A MIXTURE OF CON-TRASTING TEXTURE SUBSOILS AND SHALL CONTAIN LESS THAN 5% BY VOLUME OF CINDERS, STONES, SLAG, COARSE FRAGMENTS, GRAVEL, STICKS, ROOTS, TRASH, OR OTHER MATERIALS LARGER THAN 1 1/2" IN DIAMETER.
  - TOPSOIL MUST BE FREE OF PLANTS OR PLANT PARTS SUCH AS BERMUDA GRASS, QUACKGRASS, JOHNSON-SON GRASS, NUTSEDGE, POISON IVY, THISTLE, OR OTHERS AS SPECIFIED.
  - WHERE THE SUBSOIL IS EITHER HIGHLY ACIDIC OR COMPOSED OF HEAVY CLAYS, GROUND LIMESTONE SHALL BE SPREAD AT THE RATE OF 4-8 TONS/ACRE (200-400 POUNDS PER 1,000 SQUARE FEET) PRIOR TO THE PLACEMENT OF TOPSOIL. LIME SHALL BE DISTRIBUTED UNIFORMLY OVER DESIGNATED AREAS AND WORKED INTO THE SOIL IN CONJUNCTION WITH TILLAGE OPERATIONS AS DESCRIBED IN THE FOLLOWING PROCEDURES.
- FOR SITES HAVING DISTURBED AREAS UNDER 5 ACRES:
  - PLACE TOPSOIL (IF REQUIRED) AND APPLY SOIL AMENDMENTS AS SPECIFIED IN 20.0 VEGETATIVE STABILIZATION - SECTION I - VEGETATIVE STABILIZATION METHODS AND MATERIALS.
- FOR SITES HAVING DISTURBED AREAS OVER 5 ACRES:
  - ON SOIL MEETING TOPSOIL SPECIFICATIONS, OBTAIN TEST RESULTS DICTATING FERTILIZER AND LIME AMENDMENTS REQUIRED TO BRING THE SOIL INTO COMPLIANCE WITH THE FOLLOWING:
    - PH FOR TOPSOILS SHALL BE BETWEEN 6.0 AND 7.5. IF THE TESTED SOIL DEMONSTRATES A PH OF LESS THAN 6.0, SUFFICIENT LIME SHALL BE PERSCRIBED TO RAISE THE PH TO 6.5 OR HIGHER.
    - ORGANIC CONTENT OF TOPSOIL SHALL BE NOT LESS THAN 1.5 PERCENT BY WEIGHT.
    - TOPSOIL HAVING SOLUBLE SALT CONTENT GREATER THAN 500 PARTS PER MILLION SHALL NOT BE USED.
    - NO SOD OR SEED SHALL BE PLACED ON SOIL WHICH HAS BEEN TREATED WITH SOIL STERILANTS OR CHEMICALS USED FOR WEED CONTROL UNTIL SUFFICIENT TIME HAS ELAPSED (14 DAYS MIN.) TO PERMIT DISSIPATION OF PHYTO-TOXIC MATERIALS.
  - NOTE: TOPSOIL SUBSTITUTES OR AMENDMENTS, AS RECOMMENDED BY A QUALIFIED AGRONOMIST OR SOIL SCIENTIST AND APPROVED BY THE APPROPRIATE APPROVAL AUTHORITY, MAY BE USED IN LIEU OF NATURAL TOPSOIL.
  - PLACE TOPSOIL (IF REQUIRED) AND APPLY SOIL AMENDMENTS AS SPECIFIED IN 20.0 VEGETATIVE STABILIZATION - SECTION I - VEGETATIVE STABILIZATION METHODS AND MATERIALS.
- TOPSOIL APPLICATION
  - WHEN TOPSOILING, MAINTAIN NEEDED EROSION AND SEDIMENT CONTROL PRACTICES SUCH AS DIVERSIONS, GRADE STABILIZATION STRUCTURES, EARTH DIKES, SLOPE SILT FENCE AND SEDIMENT TRAPS AND BASINS.
  - GRADES ON THE AREAS TO BE TOPSOILED, WHICH HAVE BEEN PREVIOUSLY ESTABLISHED, SHALL BE MAINTAINED, ALBEIT 4" - 8" HIGHER IN ELEVATION.
  - TOPSOIL SHALL BE UNIFORMLY DISTRIBUTED IN A 4" TO 8" LAYER AND LIGHTLY COMPACTED TO A MINIMUM THICKNESS OF 4". SPREADING SHALL BE PERFORMED IN SUCH A MANNER THAT SODDING OR SEEDING CAN PROCEED WITH A MINIMUM OF ADDITIONAL SOIL PREPARATION AND TILLAGE. ANY IRREGULARITIES IN THE SURFACE RESULTING FROM TOPSOILING OR OTHER OPERATIONS SHALL BE CORRECTED IN ORDER TO PREVENT THE FORMATION OF DEPRESSIONS OR WATER POCKETS.
  - TOPSOIL SHALL NOT BE PLACED WHILE THE TOPSOIL OR SUBSOIL IS IN A FROZEN OR MUDDY CONDITION, WHEN THE SUBSOIL IS EXCESSIVELY WET OR IN A CONDITION THAT MAY OTHERWISE BE DETRIMENTAL TO PROPER GRADING AND SEEDBED PREPARATION.
- ALTERNATIVE FOR PERMANENT SEEDING - INSTEAD OF APPLYING THE FULL AMOUNTS OF LIME AND COMMERCIAL FERTILIZER, COMPOSTED SLUDGE AND AMENDMENTS MAY BE APPLIED AS SPECIFIED BELOW:
  - COMPOSTED SLUDGE MATERIAL FOR USE AS A SOIL CONDITIONER FOR SITES HAVING DISTURBED AREAS OVER 5 ACRES SHALL BE TESTED TO PRESCRIBE AMENDMENTS AND FOR SITES HAVING AREAS UNDER 5 ACRES SHALL CONFORM TO THE FOLLOWING REQUIREMENTS:
    - COMPOSTED SLUDGE SHALL BE SUPPLIED BY, OR ORIGINATE FROM, A PERSON OR PERSONS WHO ARE PERMITTED (AT THE TIME OF ACQUISITION OF THE COMPOST) BY THE MARYLAND DEPARTMENT OF THE ENVIRONMENT UNDER COMAR 26.04.06.
    - COMPOSTED SLUDGE SHALL CONTAIN AT LEAST 1 PERCENT NITROGEN, 1.5 PERCENT PHOSPHOROUS, AND 0.2 PERCENT POTASSIUM AND HAVE A PH OF 7.0 TO 8.0. IF COMPOST DOES NOT MEET THESE REQUIREMENTS, THE APPROPRIATE CONSTITUENTS MUST BE ADDED TO MEET THE REQUIREMENTS PRIOR TO USE.
    - COMPOSTED SLUDGE SHALL BE APPLIED AT A RATE OF 1 TON/1,000 SQUARE FEET.
  - COMPOSTED SLUDGE SHALL BE AMENDED WITH A POTASSIUM FERTILIZER APPLIED AT THE RATE OF 4 LB./1,000 SQUARE FEET, AND 1/3 THE NORMAL LIME APPLICATION RATE.

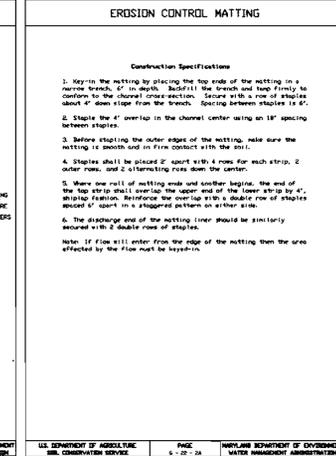
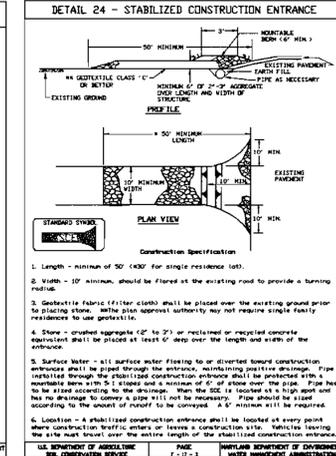
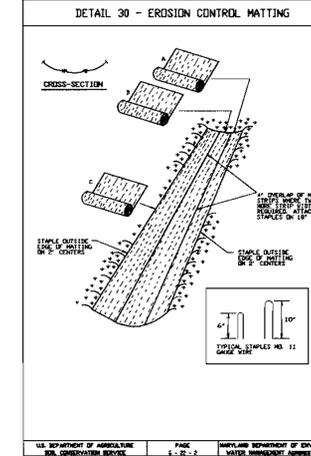
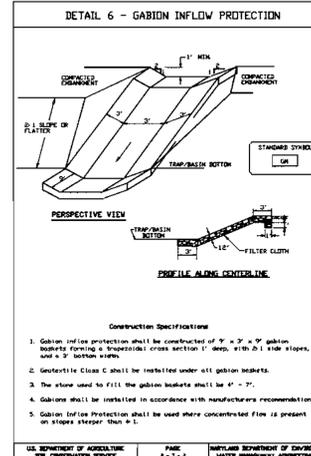
REFERENCES: GUIDELINE SPECIFICATIONS, SOIL PREPARATION AND SODDING. MD-VA, PUB. #1, COOPERATIVE EXTENSION SERVICE, UNIVERSITY OF MARYLAND AND VIRGINIA POLYTECHNIC INSTITUTES. REVISED 1973.

**TEMPORARY DUST CONTROL MEASURES**

- MULCHES - SEE STANDARDS FOR VEGETATIVE STABILIZATION WITH MULCHES ONLY. MULCH SHOULD BE CRIMPED OR TACKED TO PREVENT BLOWING.
- VEGETATIVE COVER - SEE STANDARDS FOR TEMPORARY VEGETATIVE COVER.
- TILLAGE - TO ROUGHEN SURFACE AND BRING CLODS TO THE SURFACE. THIS IS AN EMERGENCY MEASURE WHICH SHOULD BE USED BEFORE SOIL BLOWING STARTS. BEGIN PLOWING ON WINDWARD SIDE OF SITE. CHISEL-TYPE PLOWS APCED ABOUT 12" APART, SPRING-TOOTHED HARROWS, AND SIMILAR PLOWS ARE EXAMPLES OF EQUIPMENT WHICH MAY PRODUCE THE DESIRED EFFECT.
- IRRIGATION - THIS IS GENERALLY DONE AS AN EMERGENCY TREATMENT. SITE IS SPRINKLED WITH WATER UNTIL THE SURFACE IS MOIST. REPEAT AS NEEDED. AT NO TIME SHOULD THE SITE BE IRRIGATED TO THE POINT THAT RUNOFF BEGINS TO FLOW.
- BARRIERS - SOLID BOARD FENCES, SILT FENCES, SNOW FENCES, BURLAP FENCES, STRAW BALES, AND SIMILAR MATERIALS CAN BE USED TO CONTROL AIR CURRENTS AND SOIL BLOWING. BARRIERS PLACED AT RIGHT ANGLES TO PREVAILING CURRENTS AT INTERVAL OF ABOUT 10 TIMES THEIR HEIGHT ARE EFFECTIVE IN CONTROLLING SOIL BLOWING.
- CALCIUM CHLORIDE - APPLY AT RATES THAT WILL KEEP SURFACE MOIST. MAY NEED RETREATMENT.

**SEQUENCE OF CONSTRUCTION**

- EROSION AND SEDIMENT CONTROL FOR THIS PROJECT IS SATISFIED UNDER SDP-00-48.
- OBTAIN GRADING PERMIT
- CONSTRUCT STABILIZED CONSTRUCTION ENTRANCES AT LOCATIONS SHOWN. (1 DAY)
- CHECK EXISTING SEDIMENT CONTROL MEASURES, REPAIR IF NECESSARY ( 1 DAY)
- CONSTRUCT PROPOSED SEWER SYSTEM, WATER AND STORM DRAIN SYSTEM (5 DAYS)
- UPON THE APPROVAL OF THE SEDIMENT CONTROL INSPECTOR, BRING SITE TO THEIR FINAL GRADE ELEVATIONS WITH THE DUST CONTROL PER PP. H-30-1 OF MARYLAND STANDARDS AND SPECS, IF REQUIRED. (5 DAYS)
- INSTALL THE EROSON CONTROL MATTING AND THE GABIONS AT THE SWALE. (1 DAYS)
- STABILIZE ALL DISTURBED AREAS. (3 DAYS)
- WHEN ALL CONTRIBUTING DRAINAGE AREAS TO SEDIMENT CONTROL DEVICES HAVE BEEN STABILIZED AND WITH THE APPROVAL OF THE SEDIMENT CONTROL INSPECTOR, REMOVE SEDIMENT CONTROL DEVICES AND STABILIZE REMAINING DISTURBED AREAS. (3 DAYS)



**DEVELOPER'S CERTIFICATE**

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 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 NATURAL RESOURCE CONSERVATION SERVICE.

Signature: *Steven D. Ward* DATE: 4/26/01  
 PRINTED NAME OF DEVELOPER: STEVEN D. WARD

**ENGINEER'S CERTIFICATE**

I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS THE BEST PRACTICES AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD COUNTY SOIL CONSERVATION DISTRICT.

Signature: *John B. Wardenberg* DATE: 4/26/01  
 PRINTED NAME OF ENGINEER: JOHN B. WARDENBERG

THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.

Signature: *Jim M. Ward* DATE: 4/26/01  
 USER: NATURAL RESOURCE CONSERVATION SERVICE

Signature: *John B. Wardenberg* DATE: 4/26/01  
 HOWARD SOIL CONSERVATION DISTRICT

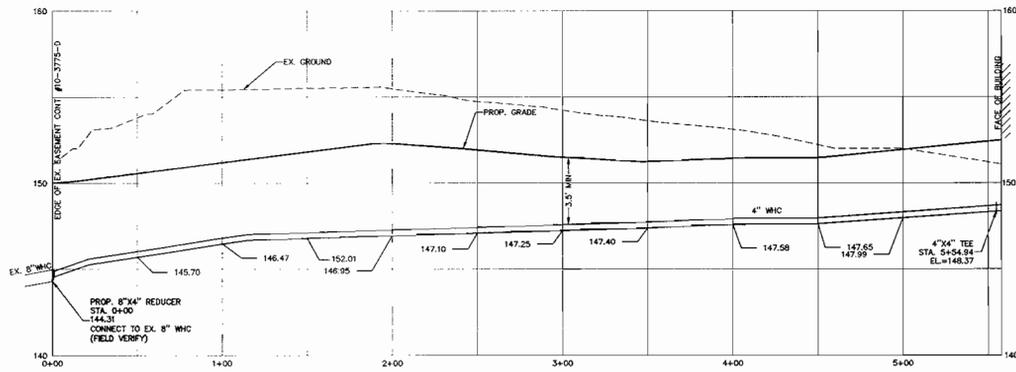
APPROVED: DEPARTMENT OF PLANNING AND ZONING  
 Chief, Development Engineering Division: *Alfred...* DATE: 5/1/01  
 Chief, Division of Land Development: *...* DATE: 5/1/01  
 Director: *...* DATE: 5/10/01

date	MAR. 2001	approval	JBM
project	20004	illustration	SA
		scale	1" = 50'

description	revisions
no.	date

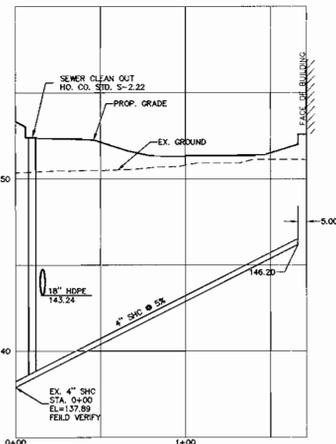
**HOWARD BUSINESS PARK CONCRETE BATCHING PLANT**  
 PARCEL B-3  
 TAX MAP 43 - PARCEL 321 - BLOCK 12  
 FIRST ELECTION DISTRICT  
 HOWARD COUNTY, MARYLAND  
 SEDIMENT CONTROL NOTES AND DETAILS

**MILDENBERG, BOENDER & ASSOC., INC.**  
 Engineers Planners Surveyors  
 5072 Dorsey Hall Drive, Suite 202, Ellicott City, Maryland 21042  
 (410) 997-0296 Fax. (301) 621-5521 Wash. (410) 997-0298 Fax.



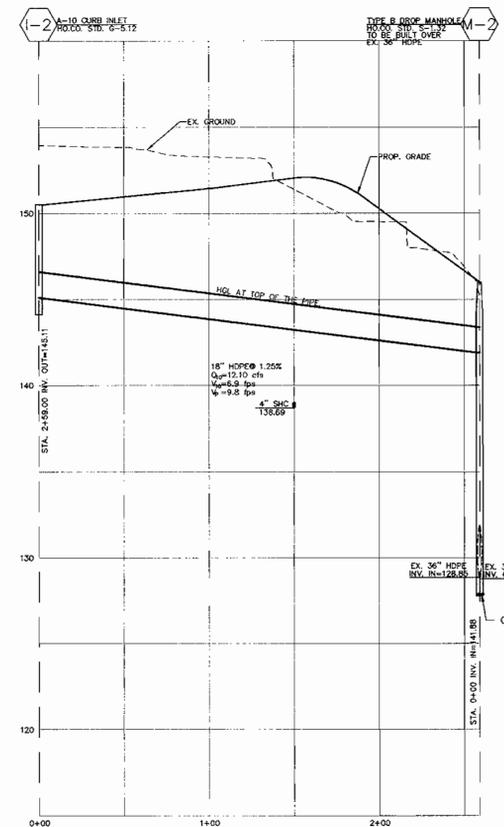
**4' WHC PROFILE**

SCALE: V. 1"=50'  
H. 1"=5'



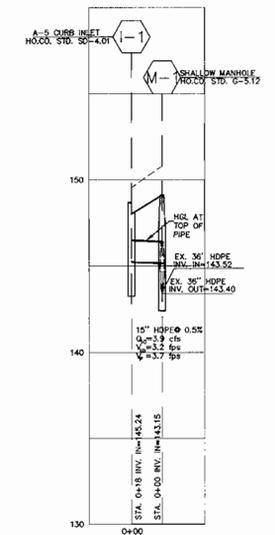
**4' SHC PROFILE**

SCALE: V. 1"=50'  
H. 1"=5'



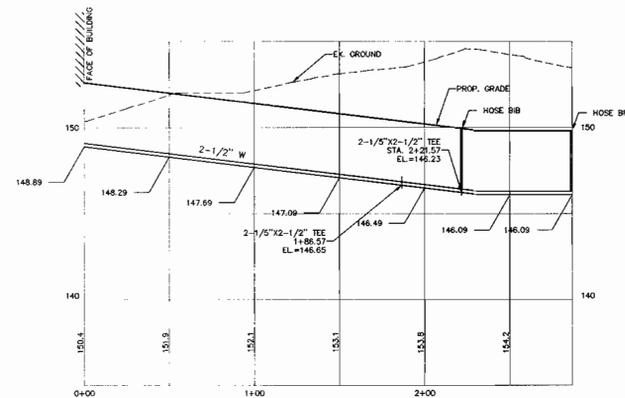
**I-2 TO M-2 SD PROFILE**

SCALE: V. 1"=50'  
H. 1"=5'



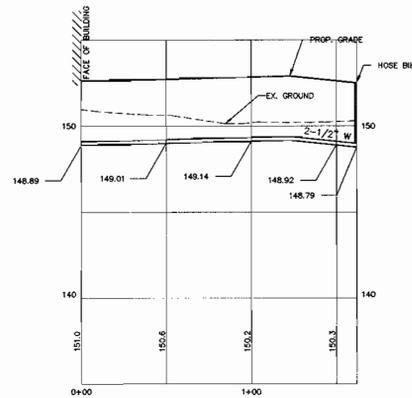
**I-1 TO M-1 SD PROFILE**

SCALE: V. 1"=50'  
H. 1"=5'



**2-1/2' WC PROFILE TO WASHOUT PIT**

SCALE: V. 1"=50'  
H. 1"=5'



**2-1/2' WC PROFILE TO STORAGE BINS**

SCALE: V. 1"=50'  
H. 1"=5'

**STRUCTURE SCHEDULE**

NO.	LOCATION*	TOP**	INV. IN	INV. OUT	COMMENTS
I-1	N 548645.264 E 1381980.108	149.10	----	145.24	INLET TYPE A-5 CURB (HO. CO. STD SD 4.01)
I-2	N 549041.503 E 1382243.725	150.50	----	145.11	INLET TYPE A-10 CURB (HO. CO. STD SD 4.02)
MH-1	N 548658.775 E 1381989.987	149.10	143.52/145.15	143.40	STANDARD MANHOLE (HO. CO. STD G 5.14)
MH-2	N 549254.272 E 1382391.440	146.00	141.88/128.85	128.78	TYPE B DROP MANHOLE (HO. CO. STD. G-5.14)

\* MANHOLE LOCATIONS BASED ON NAD '83 COORDINATE SYSTEM AND ARE GIVEN TO CENTERLINE OF MANHOLE. COORDINATES FOR "A" INLETS TO CL OF INLET INTERSECTING WITH FACE OF CURB.  
\*\* ELEVATIONS FOR "A-5" INLETS ARE MEASURED TO TOP OF CURB.

**PIPE SCHEDULE**

SIZE	LENGTH
15"	18.00'
18"	264.00'

APPROVED: DEPARTMENT OF PUBLIC WORKS

CHIEF BUREAU OF HIGHWAYS DATE

APPROVED: DEPARTMENT OF PLANNING AND ZONING

CHIEF DIVISION OF LAND DEVELOPMENT DATE

CHIEF DEVELOPMENT ENGINEERING DIVISION DATE

5/10/01

5/10/01

5/10/01

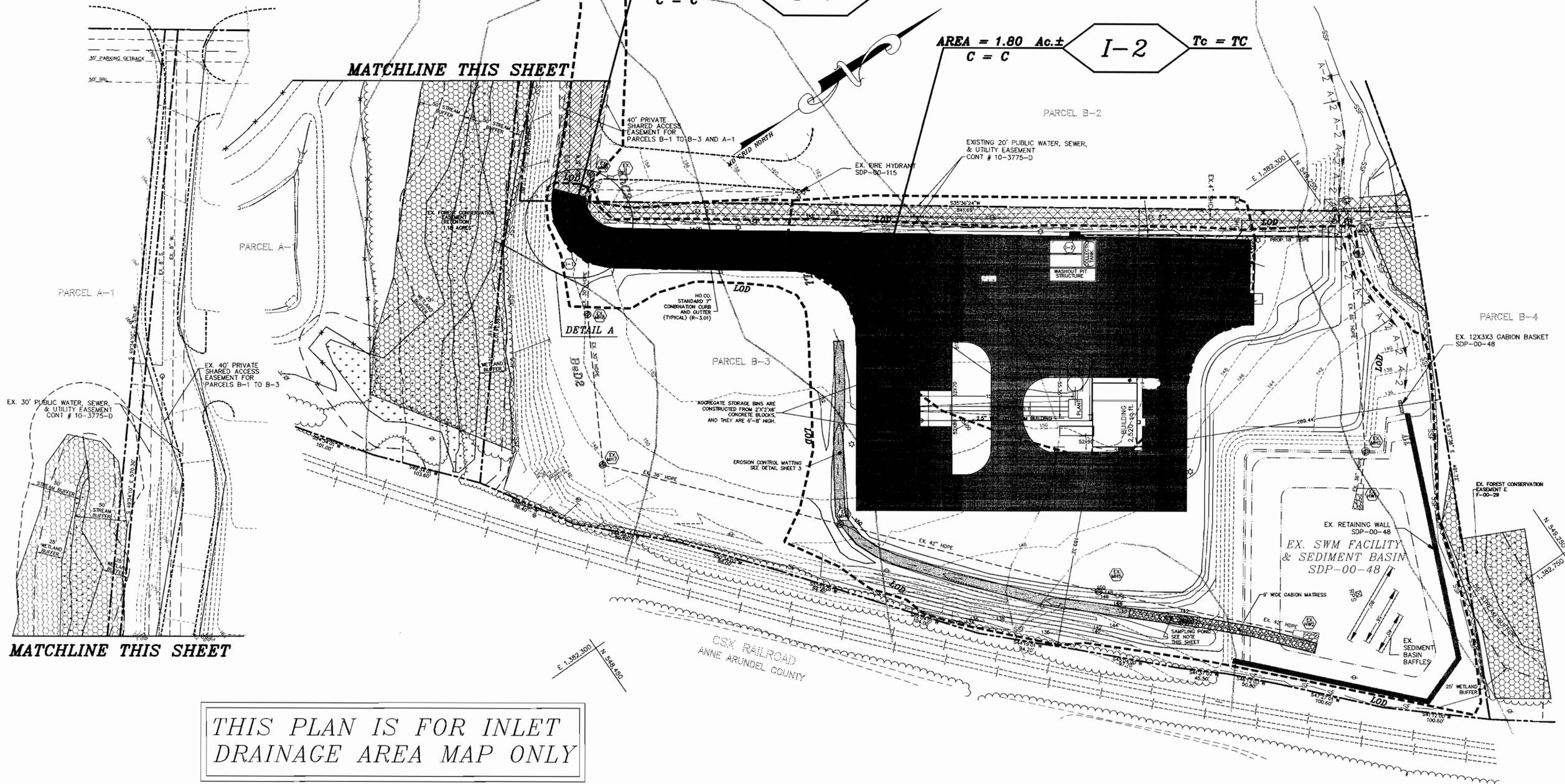
project	date	approval
20004	MAR. 2001	SAAS
illustration	engineering	SAAS
scale	SAAS	approval
AS SHWN	JEM	

description	revisions	date

**HOWARD BUSINESS PARK CONCRETE BATCHING PLANT**  
 PARCELS B-3  
 TAX MAP 43 - PARCEL 321 - BLOCK 12  
 HOWARD COUNTY, MARYLAND  
 FIRST ELECTION DISTRICT  
 WATER, SEWER AND STORM DRAIN PROFILES

**MILDENBERG, BOENDER & ASSOC., INC.**  
 Engineers Planners Surveyors  
 5072 Dorsey Hall Drive, Suite 202, Elkholtz City, Maryland 21042  
 (410) 997-0296 Fax (301) 621-5521 Wash. (410) 997-0298 Fax

**DORSEY RUN ROAD**  
 MAJOR COLLECTOR --- 80' ROW --- PUBLIC ROAD



**THIS PLAN IS FOR INLET DRAINAGE AREA MAP ONLY**

**SOILS CHART**

- BeD2 BELTSVILLE SILT LOAM, 10% TO 15% SLOPES, MODERATELY ERODED --- TYPE C
- KhC2 KEYPORT SILT LOAM, 3% TO 10% SLOPES, MODERATELY ERODED --- TYPE C
- LI LEONARDTOWN SILT LOAM --- TYPE D
- ScD SANDY AND CLAYEY LAND, MODERATELY SLOPING --- TYPE C

**NOTE:**  
 THE SAMPLING POND IS USED TO TAKE SAMPLES FROM THE SITE RUNOFF. THESE SAMPLES TO BE EXAMINED FOR PH LEVELS.

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

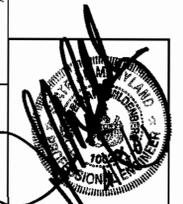
HOWARD SOIL CONSERVATION DISTRICT

APPROVED: DEPARTMENT OF PLANNING AND ZONING

5/1/01 DATE

5/10/01 DATE

5/10/01 DATE



date	APR. 2001	approval	JBM
project	20004	engineering	SAA
illustration	SAA	scale	1"=50'

no.	description	revisions	date

**HOWARD BUSINESS PARK CONCRETE BATCHING PLANT**  
 PARCELS B-3  
 TAX MAP 43 - PARCEL 321 - BLOCK 12  
 HOWARD COUNTY, MARYLAND  
 FIRST ELECTION DISTRICT  
 INLET DRAINAGE AREA MAP

**MILDENBERG, BOENDER & ASSOC., INC.**  
 Engineers Planners Surveyors  
 5072 Dorsey Hall Drive, Suite 202, Elkton, City, Maryland 21042  
 (410) 897-0296 Fax. (301) 621-5521 Wash. (410) 897-0298 Fax.

NOTE: THIS DRAWING IS TO BE USED FOR LANDSCAPE PLAN PURPOSES ONLY.

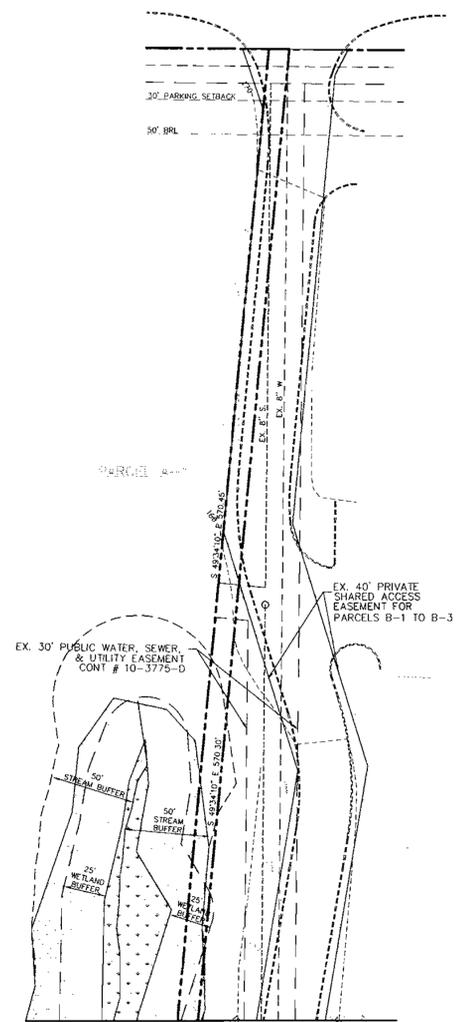
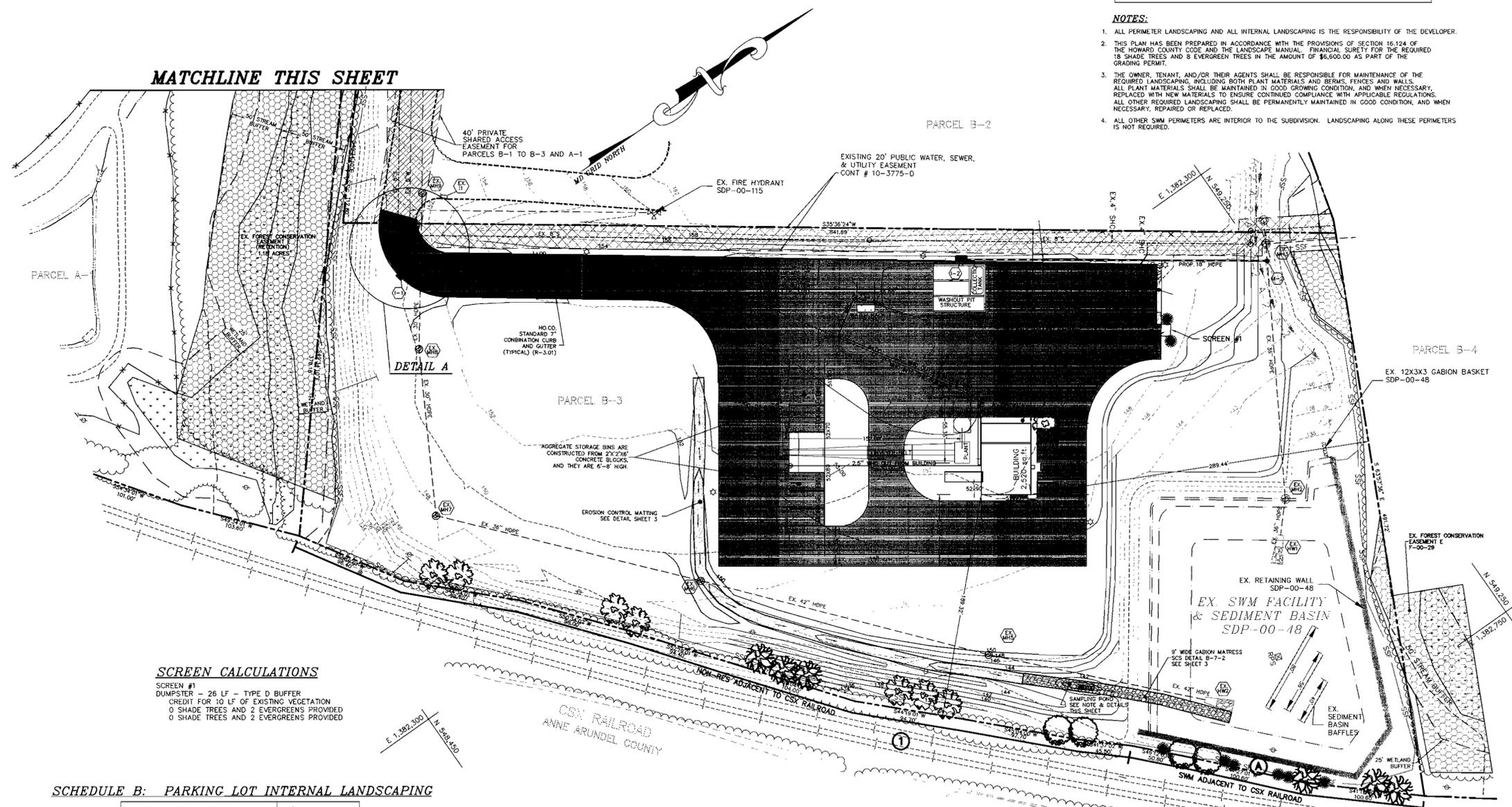
date	MAR. 2001	approval	JBM
project	20004	illustration	SAA/SJD
scale	1" = 50'		

date		description	
		revisions	

**HOWARD BUSINESS PARK CONCRETE BATCHING PLANT**  
PARCELS B-3  
TAX MAP 43 -- PARCEL 321 -- BLOCK 12  
HOWARD COUNTY, MARYLAND  
FIRST ELECTION DISTRICT  
LANDSCAPE PLAN

**MILDENBERG, BOENDER & ASSOC., INC.**  
Engineers Planners Surveyors  
5072 Dorsey Hall Drive, Suite 202, Ellicott City, Maryland 21042  
(410) 997-0296 Fax: (301) 621-5521 Wash. (410) 997-0288 Fax.

- NOTES:**
- ALL PERIMETER LANDSCAPING AND ALL INTERNAL LANDSCAPING IS THE RESPONSIBILITY OF THE DEVELOPER.
  - THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH THE PROVISIONS OF SECTION 16.124 OF THE HOWARD COUNTY CODE AND THE LANDSCAPE MANUAL. FINANCIAL SURETY FOR THE REQUIRED 18 SHADE TREES AND 8 EVERGREEN TREES IN THE AMOUNT OF \$6,600.00 AS PART OF THE GRADING PERMIT.
  - THE OWNER, TENANT, AND/OR THEIR AGENTS SHALL BE RESPONSIBLE FOR MAINTENANCE OF THE REQUIRED LANDSCAPING INCLUDING BOTH PLANT MATERIALS AND BERMS, FENCES AND WALLS. ALL PLANT MATERIALS SHALL BE MAINTAINED IN GOOD GROWING CONDITION, AND WHEN NECESSARY, REPLACED WITH NEW MATERIALS TO ENSURE CONTINUED COMPLIANCE WITH APPLICABLE REGULATIONS. ALL OTHER REQUIRED LANDSCAPING SHALL BE PERMANENTLY MAINTAINED IN GOOD CONDITION, AND WHEN NECESSARY, REPAIRED OR REPLACED.
  - ALL OTHER SWM PERIMETERS ARE INTERIOR TO THE SUBDIVISION. LANDSCAPING ALONG THESE PERIMETERS IS NOT REQUIRED.



**MATCHLINE THIS SHEET**

- LEGEND**
- EX. EARTH DIKE
  - FLOW ARROWS
  - EX. REMOVABLE PUMPING STATION
  - EX. SILT FENCE
  - EX. SUPER SILT FENCE
  - EX. RIPRAP OUTLET PROTECTION
  - EX. PUBLIC WATER & SEWER EASEMENT (F-00-29)
  - EX. PRIVATE ACCESS EASEMENT (F-00-29)
  - EX. FOREST CONSERVATION EASEMENT (F-00-29)
  - WETLANDS (F-00-29)
  - EXTERIOR LIGHT
  - HOSE BIB
  - EX. FIRE HYDRANT
  - PERIMETER LANDSCAPE EDGE

**DEVELOPER'S / OWNER'S CERTIFICATE**  
I/WE CERTIFY THAT THE LANDSCAPING SHOWN ON THIS PLAN WILL BE DONE ACCORDING TO THE PLAN, SECTION 16.124 OF THE HOWARD COUNTY CODE AND THE HOWARD COUNTY LANDSCAPE MANUAL. I/WE FURTHER CERTIFY THAT UPON COMPLETION A CERTIFICATION OF LANDSCAPE INSTALLATION, ACCOMPANIED BY AN EXECUTED ONE YEAR GUARANTEE OF PLANT MATERIALS, WILL BE SUBMITTED TO THE DEPARTMENT OF PLANNING AND ZONING.

APPROVED: DEPARTMENT OF PLANNING AND ZONING  
Steve D. Ward 4/20/01  
DATE

APPROVED: ENGINEERING DIVISION  
Indy Hamilton 5/10/01  
DATE

APPROVED: CHIEF OF LAND DEVELOPMENT  
5/10/01  
DATE

**SCREEN CALCULATIONS**

SCREEN #1  
DUMPSTER - 26 LF - TYPE D BUFFER  
CREDIT FOR 10 LF OF EXISTING VEGETATION  
0 SHADE TREES AND 2 EVERGREENS PROVIDED  
0 SHADE TREES AND 2 EVERGREENS PROVIDED

**SCHEDULE B: PARKING LOT INTERNAL LANDSCAPING**

NUMBER OF PARKING SPACES	13
NUMBER OF PLANTING ISLANDS REQUIRED	1
NUMBER OF PLANTING ISLANDS PROVIDED	1
NUMBER OF TREES REQUIRED	1 SHADE TREES
NUMBER OF TREES PROVIDED	1 SHADE TREES
SHADE TREES	1
OTHER TREES (2:1 SUBSTITUTION)	0 TREES

**PERIMETER EDGE TYPE**

PERIMETER 1	NON-RES TO CSX RAILROAD - 730.40 LF	A
	1 SHADE TREE / 60 LF	12
	SWM TO CSX RAILROAD - 252.00 LF	B
	CREDIT FOR SWM LANDSCAPING	
TOTAL PLANTING OBLIGATION		
SHADE TREES	12	
EVERGREEN TREES	0	
SHRUBS	0	

**SCHEDULE A: PERIMETER LANDSCAPED EDGE**

CATEGORY	ADJACENT TO PERIMETER PROPERTIES		TOTAL
	A	B	
LANDSCAPE TYPE			
LINEAR FEET OF PERIMETER	730.40 LF	252 LF	
CREDIT FOR EXISTING VEGETATION (YES, NO, LINEAR FEET)	NO	NO	
CREDIT FOR WALL, FENCE, OR BERM (YES, NO, LINEAR FEET)	NO	YES, 252 LF OF SWM LANDSCAPING	
NUMBER OF PLANTS REQUIRED	12 SHADE TREES 0 EVERGREEN TREES 0 SHRUBS	0 SHADE TREES 0 EVERGREEN TREES 0 SHRUBS	12 SHADE TREES 0 EVERGREEN TREES 0 SHRUBS
NUMBER OF PLANTS PROVIDED	12 SHADE TREES 0 EVERGREEN TREES 0 SUBSTITUTION TREES SHRUBS (10:1 SUBSTITUTION)	0 SHADE TREES 0 EVERGREEN TREES 0 SUBSTITUTION TREES 0 SHRUBS	12 SHADE TREES 0 EVERGREEN TREES 0 SUBSTITUTION TREES 0 SHRUBS

**SWM PERIMETER EDGE TYPE**

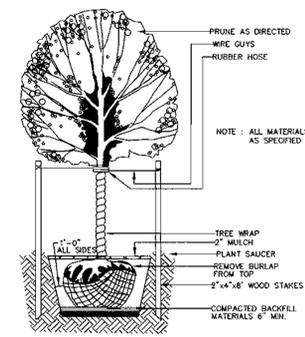
SWM PERIMETER A - 252 LF	
1 SHADE TREE / 50 LF	5
1 EVERGREEN / 40 LF	6
TOTAL PLANTING OBLIGATION	
SHADE TREES	5
EVERGREEN TREES	6
SHRUBS	0

**SCHEDULE D: STORMWATER MANAGEMENT AREA LANDSCAPING**

LINEAR FEET OF PERIMETER	252 LF
CREDIT FOR EXISTING VEGETATION (NO, YES AND LINEAR FEET)	NO
CREDIT FOR OTHER LANDSCAPING (NO, YES AND LF)	N/A
NUMBER OF TREES REQUIRED	5 SHADE TREES 6 EVERGREEN TREES
NUMBER OF TREES PROVIDED	5 SHADE TREES 6 EVERGREEN TREES 0 TREES (0 SUBSTITUTION TREES)

**LANDSCAPE REQUIREMENT PLANTING SCHEDULE**

QUANTITY	SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE
8	(Symbol)	GLEDITSIA TRIACANTHOS INERMIS	THORNLESS HONEYLOCUST	2 1/2" - 3" CAL.
4	(Symbol)	MORUS RUBRA	RED MULBERRY	2 1/2" - 3" CAL.
8	(Symbol)	PINUS THUNBERGIANA	BLACK PINE	6' - 8' HT.
6	(Symbol)	PRUNUS SEROTINA	BLACK CHERRY	2" - 2 1/2" CAL.
TOTAL				26 TREES (18 SHADE TREES, 8 EVERGREENS)



**TYPICAL DECIDUOUS TREE PLANTING DETAIL**  
NOT TO SCALE

