

SHEET INDEX

1	SITE DEVELOPMENT PLAN
2	GRADING, SEDIMENT CONTROL PLAN, DRAINAGE AREA MAP
3	PROFILES AND DETAIL SHEET

GENERAL NOTES

- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST STANDARDS AND SPECIFICATIONS OF HOWARD COUNTY PUBLIC WORKS DEPARTMENT, IF APPLICABLE.
- THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF PUBLIC WORKS/BUREAU OF ENGINEERING/CONSTRUCTION INSPECTION DIVISION AT (410) 313-1820 AT LEAST FIVE (5) WORKING DAYS PRIOR TO THE START OF WORK.
- THE CONTRACTOR SHALL NOTIFY "MISS UTILITY" AT 1-800-257-7777 AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION WORK BEING DONE.
- TRAFFIC CONTROL DEVICES, MARKINGS, AND SIGNING SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD). ALL STREET AND REGULATORY SIGNS SHALL BE IN PLACE PRIOR TO THE PLACEMENT OF ANY ASPHALT.
- ALL PLAN DIMENSIONS ARE TO FACE OF CURB UNLESS OTHERWISE NOTED.
- THE EXISTING TOPOGRAPHY IS TAKEN FROM FIELD RUN SURVEY WITH MAXIMUM TWO FOOT CONTOUR INTERVALS PREPARED BY PHR+A DATED 07/28/06.
- THE COORDINATES SHOWN HEREON ARE BASED UPON THE HOWARD COUNTY GEODETIC CONTROL WHICH IS BASED UPON THE MARYLAND STATE PLANE COORDINATE SYSTEM. HOWARD COUNTY MONUMENT NOS. 43EA AND 43HB WERE USED FOR THIS PROJECT.
- WATER IS PUBLIC. CONTRACT NO. 742 N
- SEWER IS PUBLIC. SEWER DRAINAGE AREA: DORSEY CONTRACT NO. 612 S
- MICRO-BIODEGRADABLE FACILITY PROVIDED FOR AUTO REPAIR BUILDING.
- APPROXIMATE LOCATION OF EXISTING UTILITIES ARE SHOWN. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT THE EXISTING UTILITIES AND MAINTAIN UNINTERRUPTED SERVICE. ANY DAMAGE INCURRED DUE TO CONTRACTOR'S OPERATION SHALL BE REPAIRED IMMEDIATELY AT THE CONTRACTOR'S EXPENSE. EXISTING UTILITIES ARE SHOWN BASED ON THE BEST AVAILABLE INFORMATION.
- NO 100-YEAR FLOODPLAIN STUDY WAS REQUIRED FOR THIS PROJECT.
- NO WETLANDS ARE VISIBLE ON THE SITE.
- REF TRAFFIC STUDY TRIP GENERATION LETTER, THE TRAFFIC GROUP (06/29/17)
- NO NOISE STUDY FOR THIS PROJECT IS REQUIRED.
- REF GEO TECHNICAL STUDY SUBSURFACE EXPLORATION, HILLIS CARNES (07/20/17)
- THE BOUNDARY FOR THIS PROJECT IS BASED ON PLAT #19641, ENVIRONMENTAL DESIGN AND RESOURCE CENTER, LLC.
- SUBJECT PROPERTY ZONED M-2 PER 10/16/13 COMPREHENSIVE ZONING PLAN.
- ALL ELEVATIONS SHOWN ARE BASED ON THE U.S.C. AND 6.5. MEAN SEA LEVEL DATUM, 1929.
- SEE DEPARTMENT OF PLANNING AND ZONING FILE NO'S: BA-93-28V, ZY-07-54, BA CASE 93-38N, SDP-93-67, F-07-063.
- THE CONTRACTOR SHALL TEST PIT EXISTING UTILITIES AT LEAST (5) DAYS BEFORE STARTING WORK SHOWN ON THESE DRAWINGS.
- CONTRACTOR IS SOLELY RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, PROCEDURES, AND SAFETY PRECAUTIONS AND PROGRAMS.
- PIPE SHALL NOT BE INSTALLED BY THE CONTRACTOR UNTIL THE LENGTH CALLED FOR AT EACH STATION HAS BEEN APPROVED BY THE ENGINEER IN THE FIELD.
- NO PIPE SHALL BE LAID UNTIL LINES OF EXCAVATION HAVE BEEN BROUGHT WITHIN 6" OF FINISHED GRADE.
- ALL STORM DRAIN PIPE BEDDING SHALL BE CLASS "C" AS SHOWN IN FIG. 11.4, VOLUME 1 OF HOWARD COUNTY DESIGN MANUAL UNLESS OTHERWISE NOTED.
- ALL INLETS SHALL BE CONSTRUCTED IN ACCORDANCE WITH HOWARD COUNTY STANDARDS.
- ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS.
- STORM DRAIN TRENCHES WITHIN ROAD RIGHT OF WAY SHALL BE BACKFILLED AND COMPACTED IN ACCORDANCE WITH THE HOWARD COUNTY DESIGN MANUAL, VOLUME IV, I.E., STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION, LATEST AMENDMENTS.
- PROFILE STATIONS SHALL BE ADJUSTED AS NECESSARY TO CONFORM TO PLAN DIMENSIONS.
- ALL FILL AREAS WITHIN ROADWAY AND UNDER STRUCTURES TO BE CONNECTED TO A MINIMUM OF 36" COMPACTION OF ACHTO T180.
- BA-93-28V FOR A VARIANCE FROM REQUIREMENTS OF SECTION 130 B.2 TO REDUCE THE 50 FOOT SETBACK TO 45 FEET FOR A ONE STORY FRAME ADDITION AND TO 18 FEET FOR A SHED. ALSO SOUGHT HAS A REDUCTION FROM 30 FEET TO 18 FEET FOR PARKING AND LOADING. THE DECISION AND ORDER DATED NOVEMBER 10, 1993 GRANTED BOTH VARIANCE REQUESTS.
- 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 LANDSCAPING MUST BE POSTED AS PART OF THE BUILDERS GRADING PERMIT IN THE AMOUNT OF \$10,000 FOR THE REQUIRED 4 SHADE TREES AND 18 SHRUBS.
- PER DPZ POLICY DATED DECEMBER 1, 2015, THE NET TRACT AREA FOR THIS PROJECT IS PERMITTED TO BE BASED UPON THE PREVIOUSLY UNDISTURBED AREA OF 0.06 ACRES. THIS RESULTS IN AN OVERALL OBLIGATION OF 0.03 ACRES, SINCE THE AREA OF OBLIGATION IS LESS THAN 0.1 ACRES, NO FEE-IN-LIEU IS REQUIRED. PROPOSED OUTCROP LIGHTING IS TO BE IN ACCORDANCE WITH ZONING SECTION 134. FULL CUTOFF FIXTURES WILL BE USED.

SITE DEVELOPMENT PLAN

ENVIRONMENTAL DESIGN RESOURCE CENTER PARCEL 'A'

WATERLOO ROAD, MD. RT. 175

1st ELECTION DISTRICT HOWARD COUNTY, MARYLAND

SEE SHEET 4 FOR PLAN REVISIONS

GENERAL NOTES CONTINUED

- ZY-07-54: ZONING VIOLATIONS - MADE IMPROVEMENTS ON PROPERTY WITHOUT A SITE DEVELOPMENT PLAN.
- BA-93-38N: CONFIRMATION OF A NONCONFORMING USE (SECTION 124) FOR THE PARKING AND THE LOADING, UNLOADING AND STORAGE OF INDUSTRIAL WAREHOUSE BUILDING MATERIALS WITHIN THE REQUIRED 50' SETBACK FROM A PUBLIC STREET RIGHT-OF-WAY (SECTION 122 D)(1)(a)(i)). CASE WAS DENIED ON NOVEMBER 17, 1993. PETITION WAS WITHDRAWN ON NOVEMBER 27, 1995.
- SDP-93-67: FOR AS-BUILT CONDITION NO RECORD OF SDP BEING SIGNED/APPROVED.

DEVELOPER'S/BUILDER'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.

DEVELOPER

NOTE: 8" WATER MAIN, 4" AND 6" TAPS WITHIN PUBLIC WATER AND UTILITY EASEMENT TO BE CONSTRUCTED BY ON-SITE CONTRACTOR UNDER ADD AGREEMENT WITH COUNTY.

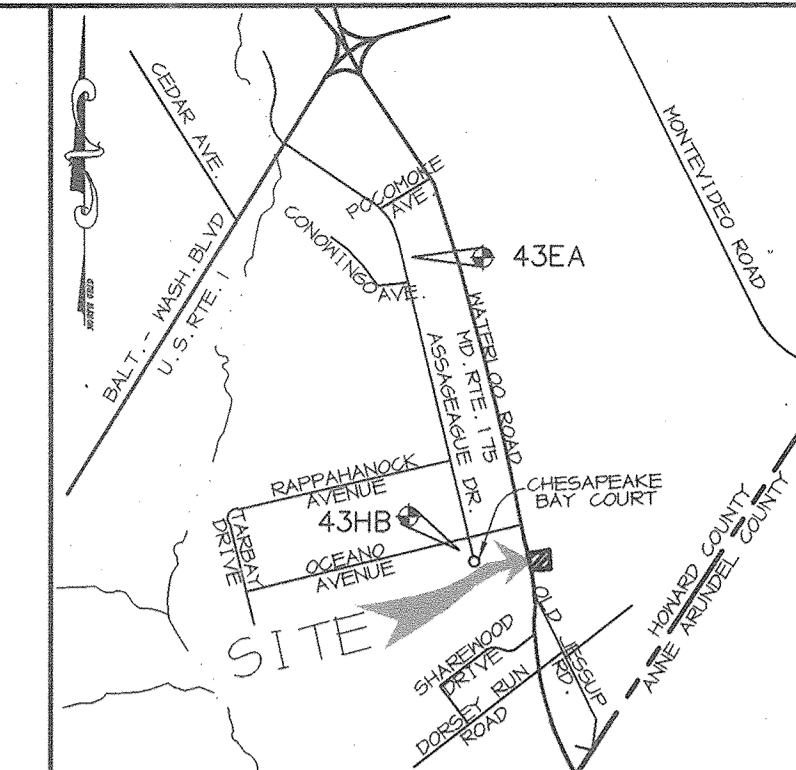
NOTE: 6" WATER WITHIN MD ROUTE 175 RIGHT-OF-WAY TO BE CONSTRUCTED UNDER ADD AGREEMENT BY HOWARD COUNTY.

NOTE: LIMIT OF DISTURBANCE FOR REVISION #1 IS 4,400 SF WHEN THE CUMULATIVE LIMIT OF DISTURBANCE EXCEEDS 9,000 SF. STORMWATER MANAGEMENT SHALL BE REQUIRED IN ACCORDANCE WITH THE DESIGN REQUIREMENTS AT THAT TIME. SUBSEQUENT PHASES FOR THIS PROJECT WILL ADDRESS THE CURRENT COUNTY SWM REQUIREMENTS.

- WP-09-109-A REQUEST TO WAIVE SECTION 16.124(b)(2) TO REACTIVATE SDP-01-28 AND SECTION 16.124(b)(1)(i) TO GRANT A ONE YEAR EXTENSION TO APPLY FOR A BUILDING PERMIT TO INITIATE CONSTRUCTION ON SITE IN ACCORDANCE WITH SDP-01-28 WAS APPROVED ON MAY 13, 2020, SUBJECT TO THE FOLLOWING CONDITIONS:
- THE BUILDING PERMIT APPLICATION SHALL BE SUBMITTED TO DPLP WITHIN ONE YEAR OF THE DATE OF APPROVAL OF WAIVER.
 - COMPLIANCE WITH OHA COMMENTS DATED MAY 6, 2020.

NOTES:

- ALL LIGHTING SHALL COMPLY WITH THE REQUIREMENTS OF ZONING SECTION 134.
- ALL CURB RADII ARE 5' UNLESS OTHERWISE LABELED.
- ALL ON SITE ROADS ARE PRIVATE.
- ALL DIMENSIONS ARE TO FACE OF CURB OR BUILDING UNLESS OTHERWISE LABELED.
- V.I.E.R. - VEHICULAR INGRESS AND EGRESS RESTRICTED.



VICINITY MAP

SCALE: 1" = 2000'
ADC MAP #1 GRID#1

PURPOSE STATEMENT:
THE PURPOSE OF THIS PLAN IS TO CHANGE USE TO AUTO SALES + SERVICE.

SITE TABULATION

SITE AREA	1.2135 ACRES (52,860 SF)
LIMIT OF DISTURBED AREA	0.17 ACRES
PRESENT ZONING	M-2
PROPOSED USE	AUTO SALES + SERVICE
AREA OF PLAN SUBMISSION (CHANGE IN USE)	0.76 ACRES (33,000 SF)
FLOOR SPACE	4614 SF
TOTAL SF OF 2 STORY BUILDING (EX. TREE)	3180 SF
AUTO SALES AND ANCILLARY USES	4816 SF
AUTO REPAIR	3180 SF
BUILDING COVERAGE	7996 SF 15.19% OF SITE
OUTDOOR SALES DISPLAY	1591, 000SF 900SF 1 SPACES
NO. OF PARKING REQUIRED FOR AUTO SALES	10 SPACES
@ 2.0 SPACES/1000'	10 SPACES
NO. OF PARKING REQUIRED FOR 6 BAY SERVICE	18 SPACES
@ 3 SPACES/BAY	29 SPACES
TOTAL OF SPACES REQUIRED	29 SPACES
NO. OF PARKING SPACES PROVIDED	31 INCL 2 HC
*PER HOWARD COUNTY ZONING REGULATIONS, SECTION 133	
PREVIOUS FILE NUMBERS: BA-98-28V, ZY-87-54, BA CASE 93-38N, SDP-93-67, F-07-063	

11/29/17 5 ADD NEW BUILDING, EXPAND PARKING LOT, ADD SWM
11-6-15 14 ADD 2-8'x10' EX. TREE PLANT, UTRBS EX. COND.

PLANT LIST

KEY	QTY	BOTANICAL + COMMON NAME	SIZE	ROOT	SPACING
MAJOR DECIDUOUS TREES					
*AR	3	Acer rubrum 'Red Sunset' Red Sunset Maple	2 1/2' Cal. (12"-14" Ht.)	B & B	Space as shown
SHRUBS					
EA	8	Erigeron alatus 'Compactus' Dwarf Burning Bush	(30"-36" Ht.)	B & B or cont.	Plant 4' o.c.
TB	16	Toxus bacata 'repandens' English Weeping Tax	(24"-30" Ht.)	B & B or cont.	Plant 3' o.c.

* EXISTING TREE IS IN POOR CONDITION AND IS TO BE REPLACED BY (1) RED MAPLE.

6-10-05 MODIFIED PUBLIC AND PRIVATE WATER MAIN

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.

Jane L. Davis 4/26/01
DIRECTOR DATE
Cynthia Anderson 4/21/01
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE
CHIEF, DIVISION OF LAND DEVELOPMENT DATE

3-24-05 ADD 3" WATER SERVICE, MODIFIED FF. ELEV. FOR ADDITION
7-22-05 ADD 2" WATER SERVICE, MODIFIED FF. ELEV. FOR ADDITION
DATE NO. REVISION

OWNER / DEVELOPER

THOMAS F. GORDON
10743 SYMPHONY PARK DRIVE
ROCKVILLE, M.D. 20852

PROJECT ENVIRONMENTAL DESIGN AND RESOURCES CENTER (FORMERLY AMERICAN BUILDING PRODUCTS)

WATERLOO ROAD, MD ROUTE 175
BUILDING AND PARKING ADDITIONS

AREA Tax Map 43 Block 21 Parcel 434-414
L 1103 F. CHARGED ZONED M-2
PLAT #19641, PARCEL 'A'
1st Election District, Howard County, Maryland

TITLE SITE DEVELOPMENT PLAN

RIEMER MUEGGE & ASSOCIATES INC

ENGINEERING • ENVIRONMENTAL SERVICES • PLANNING • SURVEYING
8818 Centre Park Drive, Columbia, MD 21045
tel 410.997.8900 fax 410.997.9282

DATE	DESIGNED BY : CJR
	DRAWN BY: K.E.V.
	PROJECT NO : 99239/ SDP1.DWG
	DATE : APRIL 5, 2001
	SCALE : AS SHOWN
	DRAWING NO. 1 OF 4

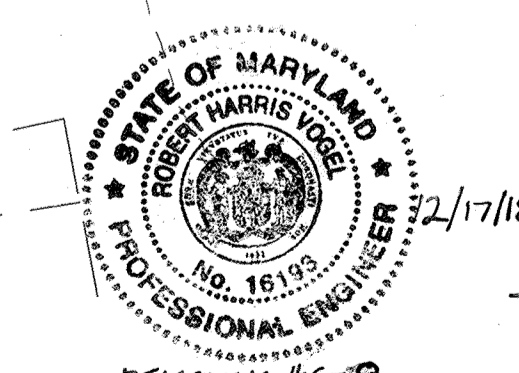
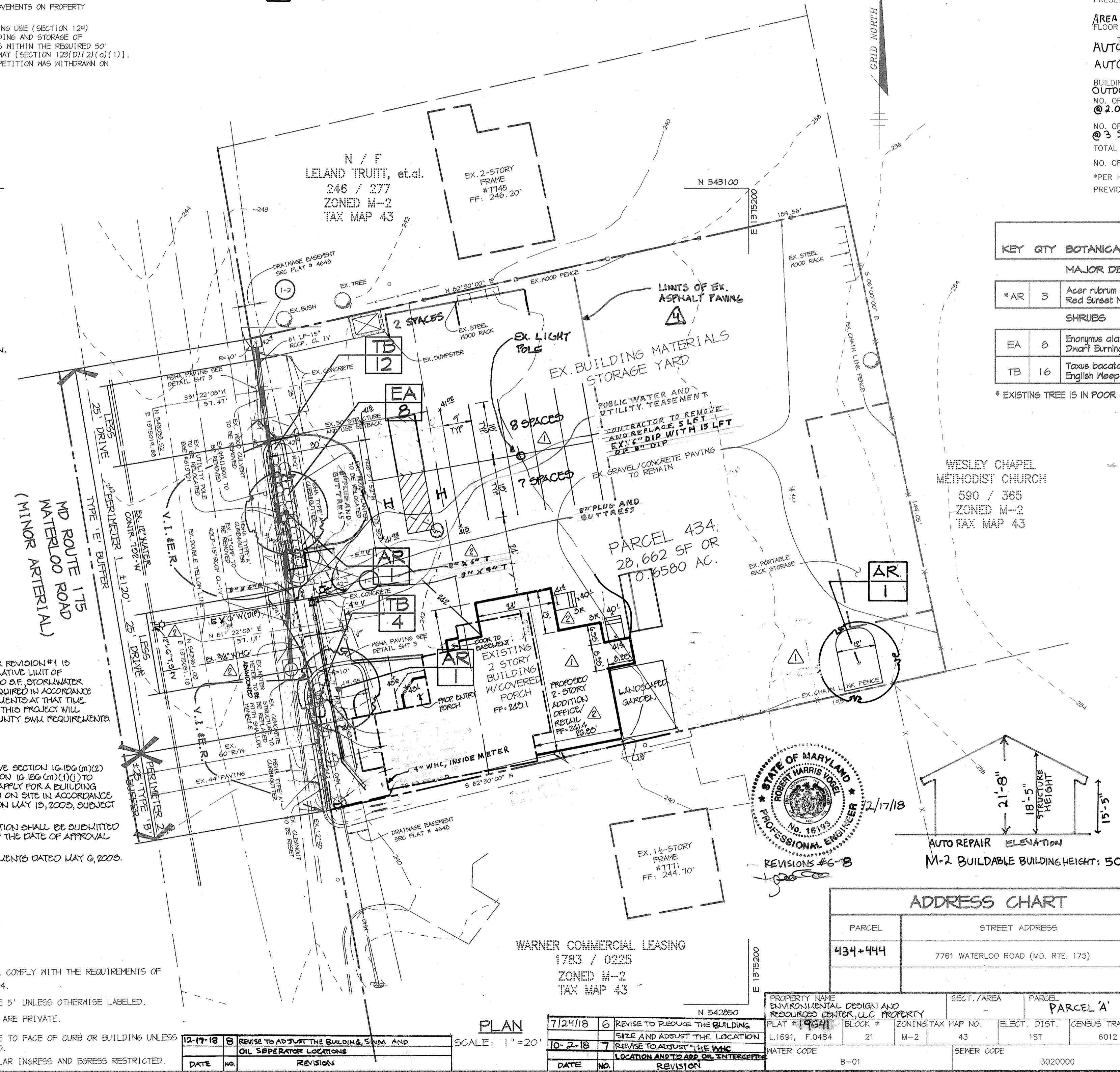
SCHEDULE B - PARKING LOT INTERNAL LANDSCAPING

PARKING LOT	
NUMBER OF PARKING SPACES	31
NUMBER OF SHADE TREES REQUIRED (1/20 SPACES)	2
NUMBER OF TREES PROVIDED	
SHADE TREES	
OTHER TREES (2:1 SUBSTITUTION)	
NUMBER OF ISLANDS PROVIDED	2

SCHEDULE A - PERIMETER LANDSCAPE EDGE

LANDSCAPE TYPE	ADJACENT TO ROADWAYS	
	1	2
LINEAR FEET OF ROADWAY FRONTAGE/ PERIMETER	±120'	±25'
CREDIT FOR EXISTING VEGETATION (YES/NO NEAR FEET (DESCRIBE BELOW IF NEEDED))	NO	(1) 12" RIVER BIRCH (2) TURF GRASSES + PERENNIALS (8) SHRUBS
CREDIT FOR DRIVE AISLE	YES 50'	NO
LINEAR FEET REMAINING	±70'	±25'
NUMBER OF PLANTS REQUIRED	1:40 2	
SHADE TREES	2	*
EVERGREEN TREES	4	*
SHRUBS	18	*
NUMBER OF PLANTS PROVIDED	2	
SHADE TREES	2	
EVERGREEN TREES	4	
SMALL FLOWERING TREES		N/A
SHRUBS	18	

SCHEDULE 'A' NOTES:
* CREDIT TAKEN FOR EXISTING VEGETATION



ADDRESS CHART

PARCEL	STREET ADDRESS
434+414	7761 WATERLOO ROAD (MD. RTE. 175)

WESLEY CHAPEL METHODIST CHURCH
590 / 365
ZONED M-2
TAX MAP 43

WARNER COMMERCIAL LEASING
1783 / 0225
ZONED M-2
TAX MAP 43

PLAN

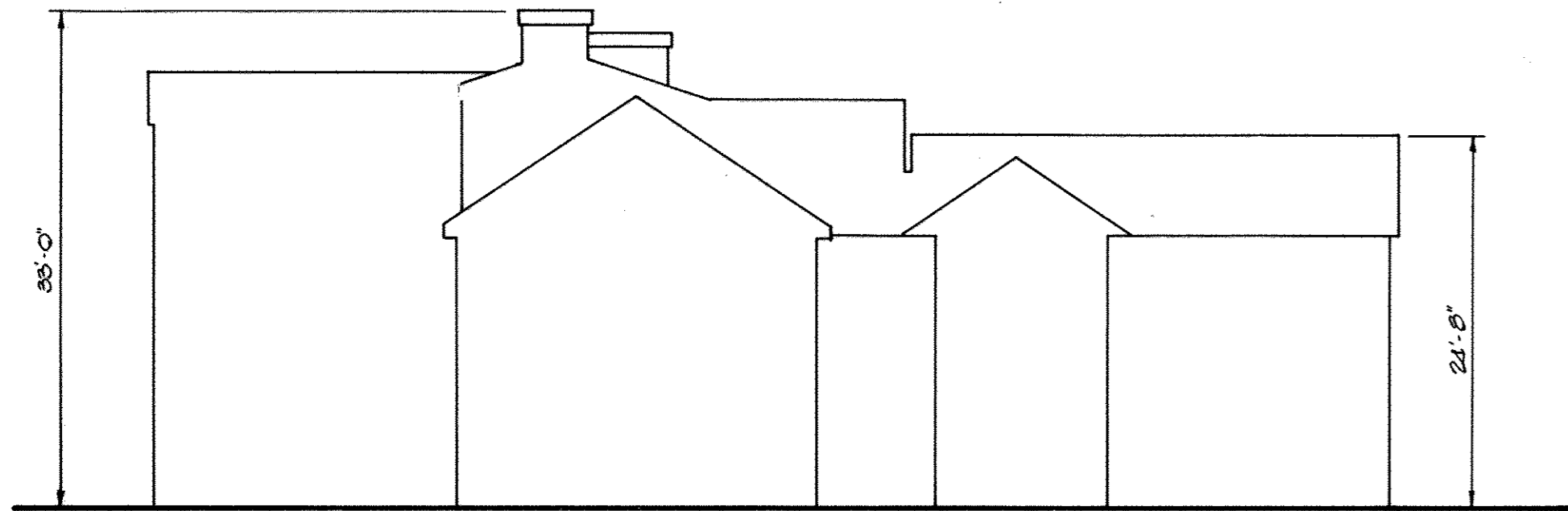
712418 6 REVISE TO REDUCE THE BUILDING
10-2-18 7 REVISION TO ADJUST THE LOCATION
DATE NO. REVISION

SCALE: 1" = 20'

PROPERTY NAME ENVIRONMENTAL DESIGN AND RESOURCES CENTER, LLC PROPERTY

PLAT #	BLOCK #	ZONING	TAX MAP NO.	ELECT. DIST.	CENSUS TRACT
L1691	F.0484	M-2	43	1ST	6012

WATER CODE: 8-01 SENER CODE: 3020000



BUILDING ELEVATION
NO SCALE
MEAN ELEVATION - 28'-10"

LEGEND

- LIMIT OF DISTURBANCE L.O.D.
- STABILIZED CONSTRUCTION ENTRANCE SCE
- CURB INLET PROTECTION CIP
- STANDARD INLET PROTECTION SIP
- SILT FENCE SF
- SOILS DIVIDE

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.

John M. Myers
DEVELOPER 4.5.01
DATE

BY THE ENGINEER :

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

Arthur E. Muegge
ENGINEER 4.5.01
DATE

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

John M. Myers 4/16/01
NATURAL RESOURCES CONSERVATION SERVICE DATE

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

John R. Roberts 4/16/01
HOWARD SOIL CONSERVATION DISTRICT DATE

APPROVED : HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.

Paul Butts 4/26/01
DIRECTOR DATE

John M. Myers 4/18/01
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

Cheryl Hunter 4/24/01
CHIEF, DIVISION OF LAND DEVELOPMENT DATE

REVISIONS

2-20-00	ADDED BLDG. ADDITION & BLDG. ELEV., REVISED PARKING & TILE BLOCK
---------	--

OWNER / DEVELOPER
ENVIRONMENTAL DESIGN AND RESOURCES CENTER, LLC
132 N. BLADES LANE
GLEN BURNE, MARYLAND 21030

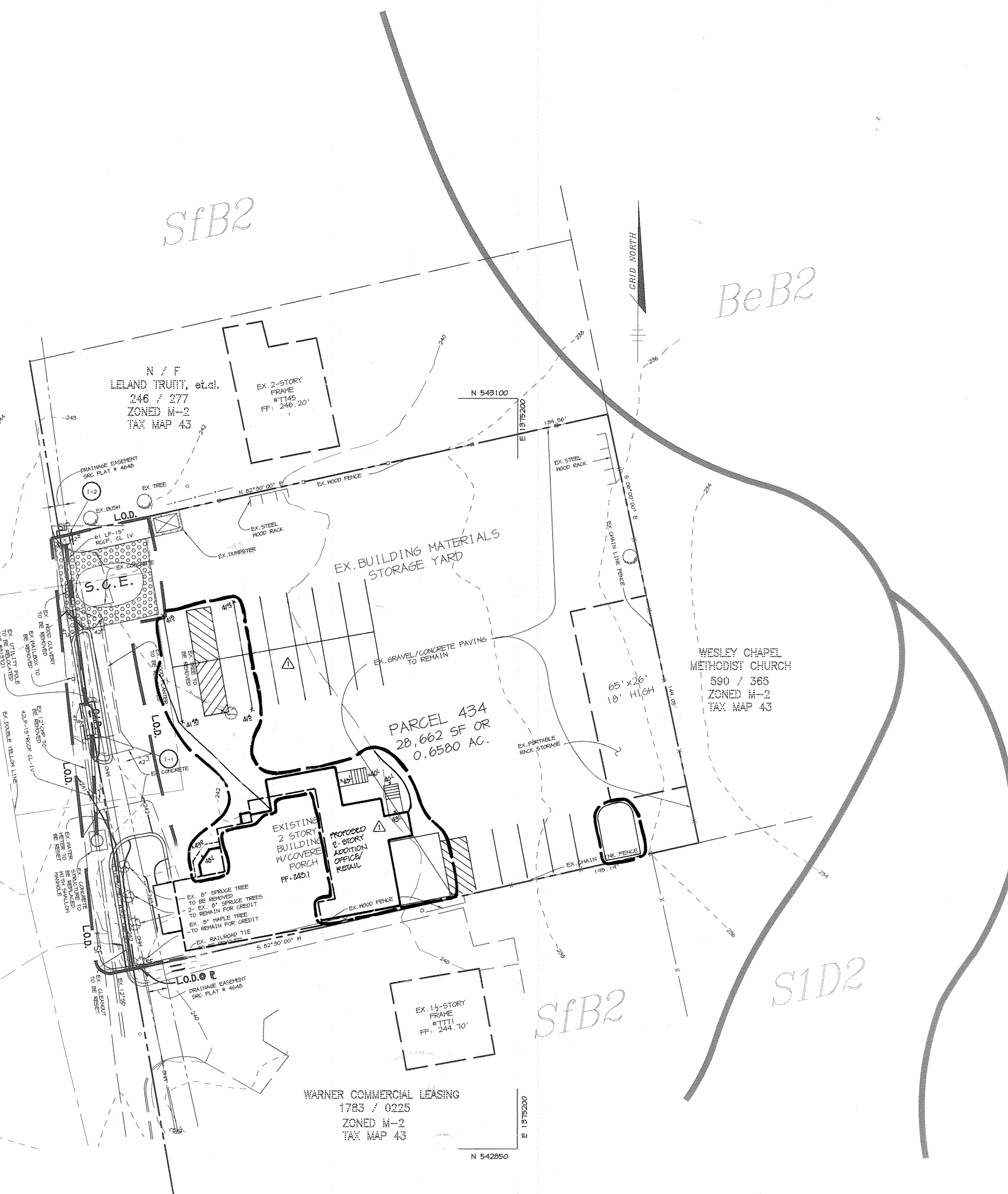
PROJECT ENVIRONMENTAL DESIGN AND RESOURCES CENTER (FORMERLY AMERICAN BUILDING PRODUCTS) WATERLOO ROAD, MD ROUTE 175 BUILDING AND PARKING ADDITIONS

AREA Tax Map 43 Block 21 Parcel 434
L. 1691, F. 0484 Zoned M-2
1st Election District, Howard County, Maryland

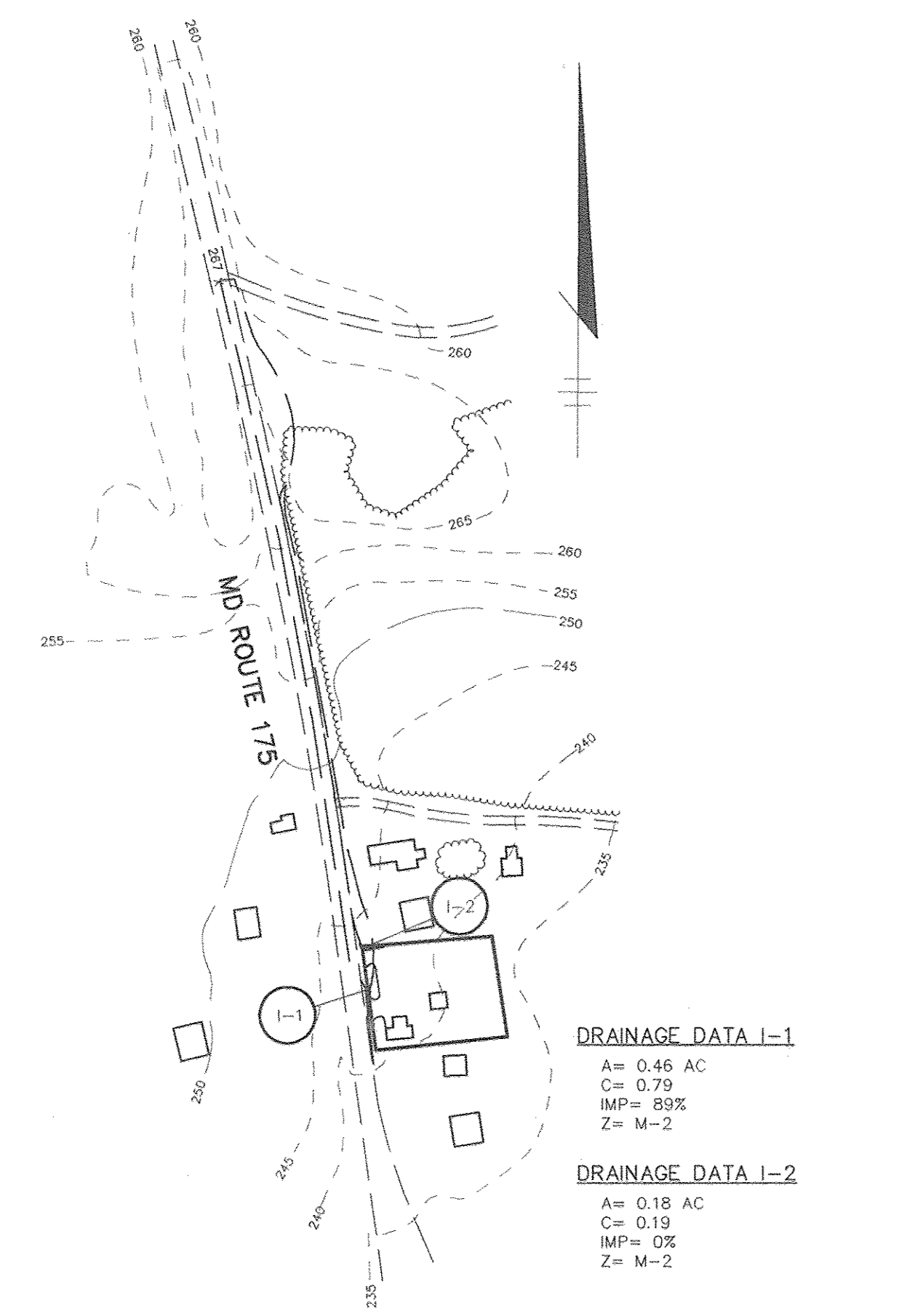
TITLE
EROSION & SEDIMENT CONTROL PLAN

RIEMER MUEGGE & ASSOCIATES INC.
ENGINEERING • ENVIRONMENTAL SERVICES • PLANNING • SURVEYING
8818 Centro Park Drive, Columbia, MD 21045
tel 410.997.8900 fax 410.997.9282

DATE	DESIGNED BY : CJR
	DRAWN BY : K.E.V.
	PROJECT NO : 99239/SDP2.DWG
	DATE : APRIL 5, 2001
	SCALE : AS SHOWN
	DRAWING NO. 2 OF 4



MD ROUTE 175
WATERLOO ROAD
(MINOR ARTERIAL)



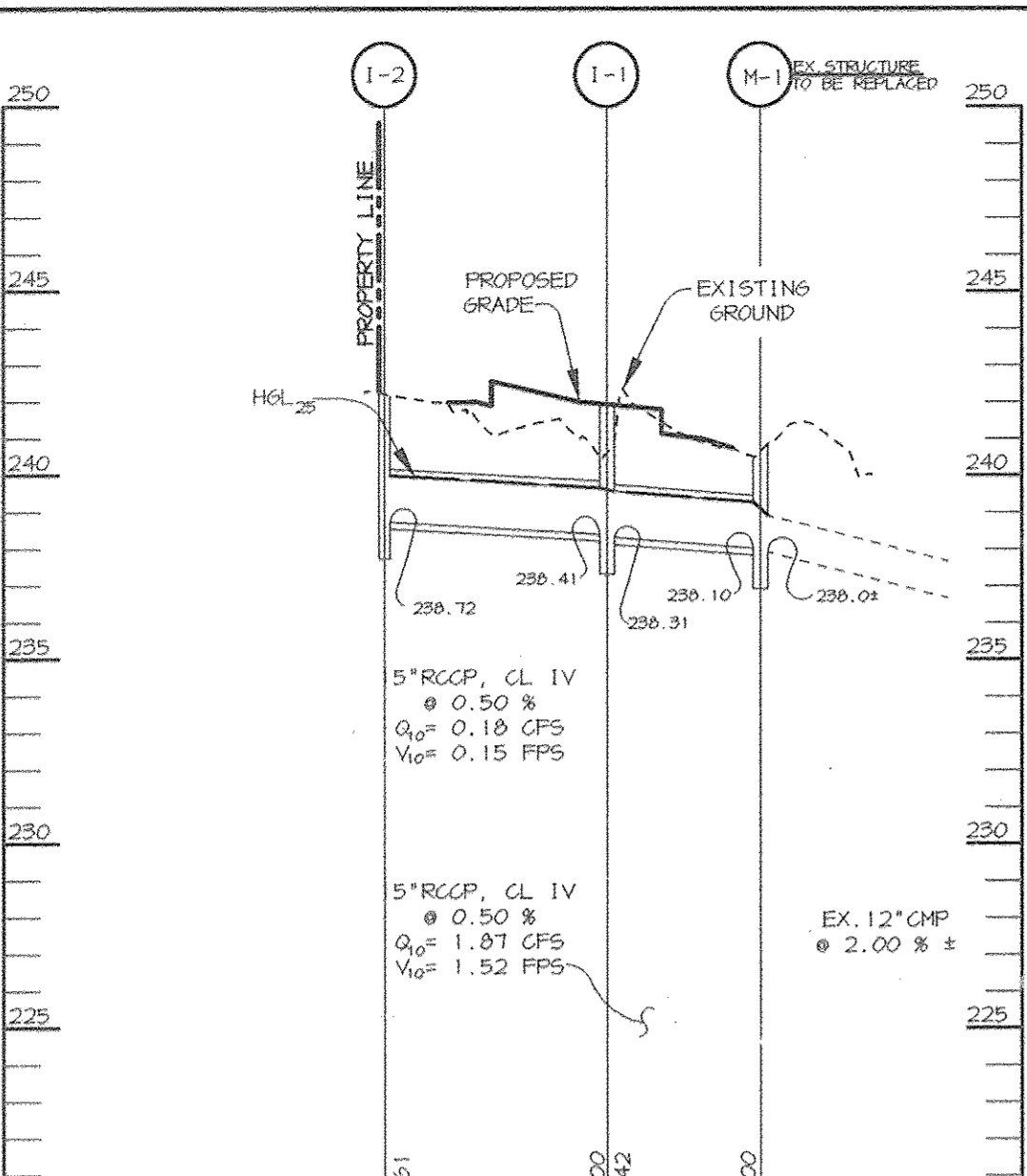
DRAINAGE AREA MAP
SCALE: 1"=200'

DRAINAGE AREA DIVIDE

- DRAINAGE DATA I-1**
- A= 0.46 AC
 - C= 0.79
 - IMP= 89%
 - Z= M-2
- DRAINAGE DATA I-2**
- A= 0.18 AC
 - C= 0.19
 - IMP= 0%
 - Z= M-2

WARNER COMMERCIAL LEASING
1783 / 0225
ZONED M-2
TAX MAP 43

PLAN
SCALE: 1"=20'



SEQUENCE OF CONSTRUCTION

- OBTAIN A GRADING PERMIT.
- INSTALL STABILIZED CONSTRUCTION ENTRANCE, SILT FENCE (2 DAYS).
- UPON PERMISSION OF HO. CO. D.I.P.P. SEDIMENT CONTROL INSPECTOR, BEGIN ROUGH GRADINGS AND BUILDING CONSTRUCTION. INSTALL STORM DRAINS AS SOON AS SUBGRADE ELEVATIONS ARE ESTABLISHED.
- COMPLETE STORM DRAIN INSTALLATION (1 WEEK).
- INSTALL CURB AND GUTTER THEN PAVE (1 WEEK).
- INSTALL LANDSCAPING. (1 DAY)
- COMPLETE ALL REMAINING CONSTRUCTION AND UPON APPROVAL OF THE HO. CO. D.I.P.P. SEDIMENT CONTROL INSPECTOR, REMOVE REMAINING SEDIMENT CONTROLS AND STABILIZE IN ACCORDANCE WITH THE PERMANENT SEEDING NOTES. (2 WEEKS)

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 ANY CONSTRUCTION (315-1855).
- ALL VEGETATIVE AND STRUCTURAL PRACTICES ARE TO BE INSTALLED ACCORDING TO THE PROVISIONS OF THIS PLAN AND ARE TO BE IN CONFORMANCE WITH THE 1984 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL AND REVISIONS THERETO.
- FOLLOWING INITIAL SOIL DISTURBANCE OR RE-DISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN: A) 7 CALENDAR DAYS FOR ALL PERIMETER SEDIMENT CONTROL STRUCTURES, DIKES, PERIMETER SLOPES, AND ALL SLOPES STEEPER THAN 3:1; B) 14 DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE.
- ALL SEDIMENT TRAP/BASINS SHALL BE FENCED AND WARNING SIGNS POSTED AROUND THE PERIMETER IN ACCORDANCE WITH VOL. 1, CHAPTER 7, OF THE HOWARD COUNTY DESIGN MANUAL, STORM DRAINAGE.
- ALL DISTURBED AREAS MUST BE STABILIZED WITHIN THE TIME PERIOD SPECIFIED ABOVE IN ACCORDANCE WITH THE 1984 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL. PERMANENT SEEDING, SOIL TEMPORARY SEEDING, AND MULCHING (SEC. 6). TEMPORARY STABILIZATION WITH MULCH ALONE SHALL 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 PERMITS FOR THEIR REMOVAL HAS BEEN OBTAINED FROM THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.
- SITE ANALYSIS:
 - TOTAL AREA OF SITE: 0.6500 ACRES
 - AREA DISTURBED: 0.0414 ACRES
 - AREA TO BE ROOFED OR PAVED: 0.0623 ACRES
 - AREA TO BE VEGETATIVELY STABILIZED: 0.2266 ACRES
 - TOTAL CUT: 300 CU. YARDS
 - TOTAL FILL: 300 CU. YARDS
 - OFFSITE WASTE/BORROW AREA LOCATION: []
- 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 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.
- TRENCHES FOR THE CONSTRUCTION OF UTILITIES IS LIMITED TO THREE PIPE LENGTHS OR THAT WHICH SHALL BE BACK-FILLED AND STABILIZED WITHIN ONE WORKING DAY, WHICHEVER IS SHORTER.
- SITE GRADING SHALL BEGIN ONLY AFTER ALL PERIMETER SEDIMENT CONTROL MEASURES HAVE BEEN INSTALLED AND ARE IN A FUNCTIONING CONDITION.
- SEDIMENT WILL BE REMOVED FROM TRAPS WHEN ITS DEPTH REACHES CLEAN OUT ELEVATION SHOWN ON THE PLANS.
- CUT AND FILL QUANTITIES PROVIDED UNDER SITE ANALYSIS DO NOT REPRESENT BID QUANTITIES. THESE QUANTITIES DO NOT DISTINGUISH BETWEEN TOPSOIL, STRUCTURAL FILL OR EMBANKMENT MATERIAL, NOR DO THEY REFLECT CONSIDERATION OF UNDERCUTTING OR REMOVAL OF UNSUITABLE MATERIAL. THE CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH SITE CONDITIONS WHICH MAY AFFECT THE WORK.
- TRENCHES FOR THE CONSTRUCTION OF UTILITIES IS LIMITED TO THREE PIPE LENGTHS OR THAT WHICH SHALL BE BACK-FILLED AND STABILIZED WITHIN ONE WORKING DAY, WHICHEVER IS SHORTER.
- SITE GRADING SHALL BEGIN ONLY AFTER ALL PERIMETER SEDIMENT CONTROL MEASURES HAVE BEEN INSTALLED AND ARE IN A FUNCTIONING CONDITION.
- SEDIMENT WILL BE REMOVED FROM TRAPS WHEN ITS DEPTH REACHES CLEAN OUT ELEVATION SHOWN ON THE PLANS.
- CUT AND FILL QUANTITIES PROVIDED UNDER SITE ANALYSIS DO NOT REPRESENT BID QUANTITIES. THESE QUANTITIES DO NOT DISTINGUISH BETWEEN TOPSOIL, STRUCTURAL FILL OR EMBANKMENT MATERIAL, NOR DO THEY REFLECT CONSIDERATION OF UNDERCUTTING OR REMOVAL OF UNSUITABLE MATERIAL. THE CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH SITE CONDITIONS WHICH MAY AFFECT THE WORK.

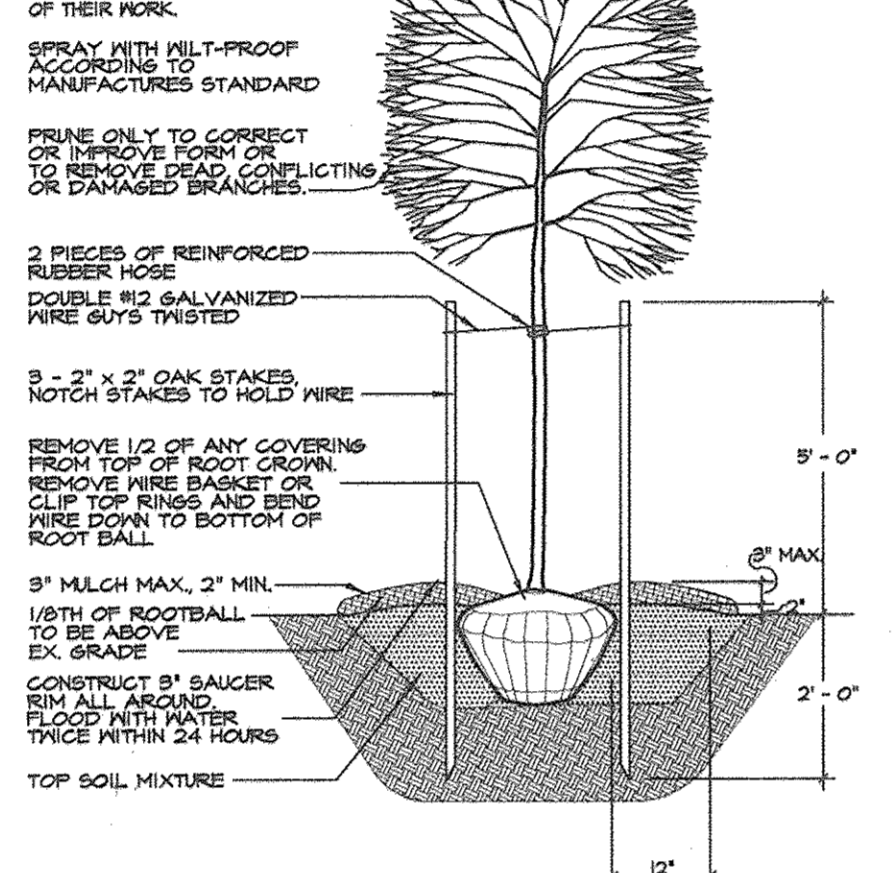
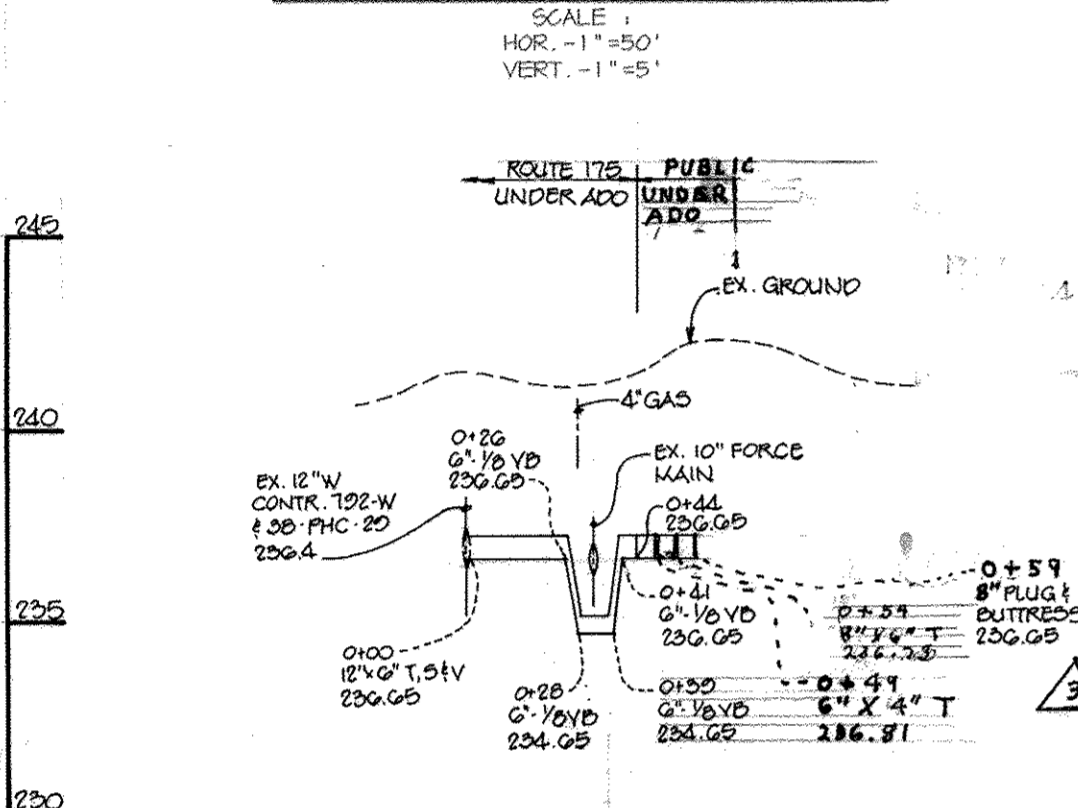
PERMANENT SEEDING NOTES

- Apply to graded or cleared areas not subject to immediate further disturbance where a permanent long-lived vegetative cover is needed.
- Seeded Preparation** - Loosen upper three inches of soil by raking, discing 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 (42 lbs. per 1000 sq. ft.) and 400 lbs. per acre 10-10-10 fertilizer (14 lbs. per 1000 sq. ft.) before seeding. Harrow or disc into upper three inches of soil. AS TO ALL OTHER DISTURBED AREAS, PER ACRE 30-0-0 ureaform fertilizer (4 lbs. per 1000 sq. ft.).
 - Acceptable - Apply 2 tons per acre dolomitic limestone (42 lbs. per 1000 sq. ft.) and 1000 lbs. per acre 10-10-10 fertilizer (28 lbs. per 1000 sq. ft.) before seeding. Harrow or disc into upper three inches of soil.
- Mulching** - For the period March 1 thru April 30 and from August 1 thru October 15, seed with 60 lbs. per acre (1.4 lbs. per 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 (0.05 lbs. per 1000 sq. ft.) of creeping lewgrass. During the period October 16 thru February 29, protect site by one of the following options:
- 2 tons per acre of well-anchored mulch straw and seed as soon as possible in the spring.
 - Use sod.
 - Seed with 60 lbs. per acre Kentucky 31 Tall Fescue and mulch with 2 tons per acre well anchored straw.
- Mulching** - Apply 1-1/2 to 2 tons per acre (70 to 90 lbs. per 1000 sq. ft.) of unrattled small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 210 gal. per acre (5 gal. per 1000 sq. ft.) of emulsified asphalt on flat areas. On slopes, 8 ft. or higher, use 347 gal. per acre (8 gal. per 1000 sq. ft.) for anchoring.
- Maintenance** - Inspect all seeded areas and make needed repairs, replacements and reseedings.

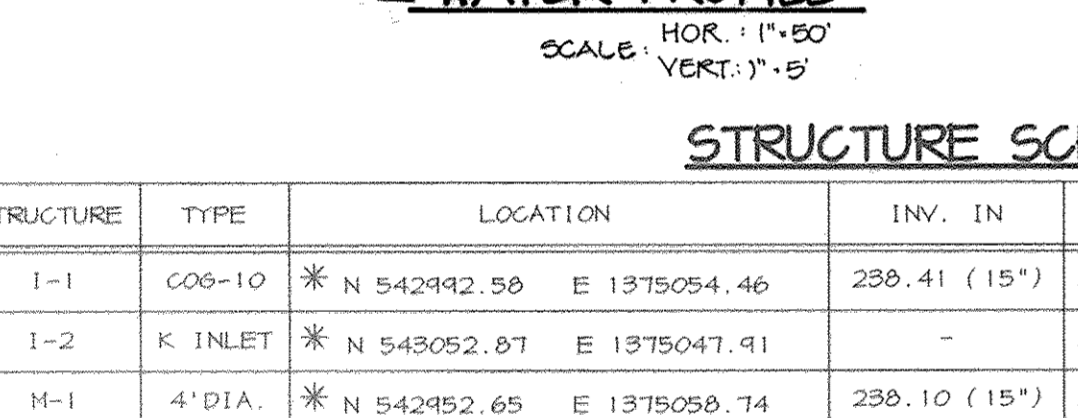
TEMPORARY SEEDING NOTES

- Apply to graded or cleared areas likely to be redisturbed where a short-term vegetative cover is needed.
- Seeded Preparation** - Loosen upper three inches of soil by raking, discing or other acceptable means before seeding, if not previously loosened.
- Soil Amendments** - Apply 600 lbs. per acre 10-10-10 fertilizer (14 lbs. per 1000 sq. ft.).
- Seeding** - For periods March 1 thru April 30 and from August 1 thru November 15, seed with 2-1/2 bushels per acre of annual rye (3.2 lbs. per 1000 sq. ft.). For the period May 1 thru August 14, seed with 3 lbs. per acre of creeping lewgrass (0.07 lbs. per 1000 sq. ft.). For the period November 16 thru February 29, 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. per 1000 sq. ft.) of unrattled small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 210 gal. per acre (5 gal. per 1000 sq. ft.) of emulsified asphalt on flat areas. On slopes, 8 ft. or higher, use 347 gal. per acre (8 gal. per 1000 sq. ft.) for anchoring.
- Refer to the 1984 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL for rates and methods not covered.

STORM DRAIN PROFILE



WATER PROFILE



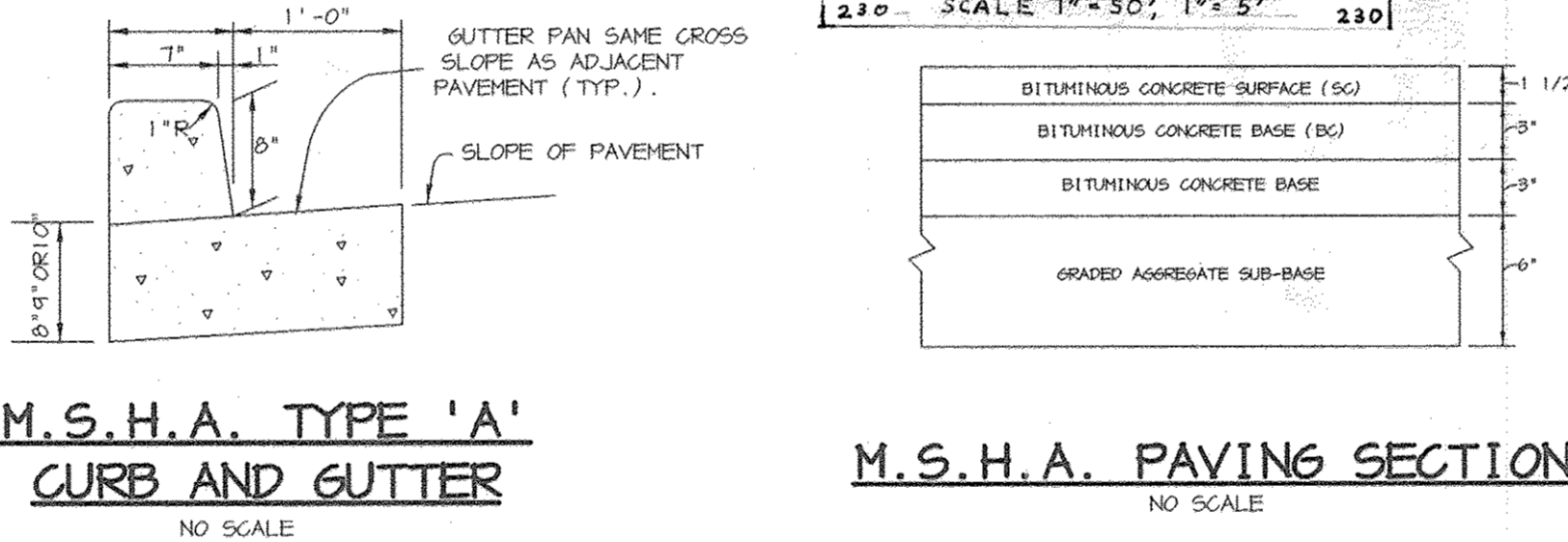
21.0 STANDARD AND SPECIFICATIONS FOR TOPSOIL

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**
- 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-SS in cooperation with Maryland Agricultural Experimentation 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 contacting textured subsols 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\"/>
 - Topsoil must be free of plants or plant parts such as Bermuda grass, quackgrass, Johnsongrass, nutsedge, poison ivy, thistle, or others as specified.
 - Where subsoil is either highly acidic or composed of heavy clay, 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.

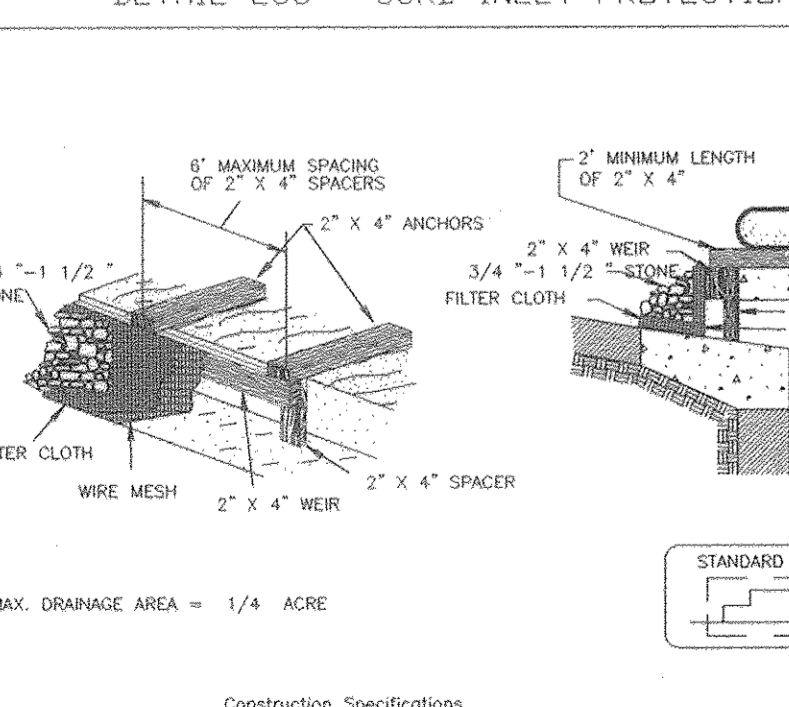


STRUCTURE SCHEDULE

STRUCTURE	TYPE	LOCATION	INV. IN	INV. OUT	TOP	REMARKS
I-1	COS-10	* N 542942.50 E 1375054.46	230.41 (15')	230.31 (15')	242.0	MSHA STD. DETAIL MD-374.51
I-2	K INLET	* N 543052.87 E 1375047.91	-	230.72 (15')	242.4	MSHA STD. DETAIL MD-378.05
M-1	4' DIA.	* N 542952.65 E 1375058.74	230.10 (15')	230.00 (12')	240.5	MSHA STD. DETAIL MD-384.01

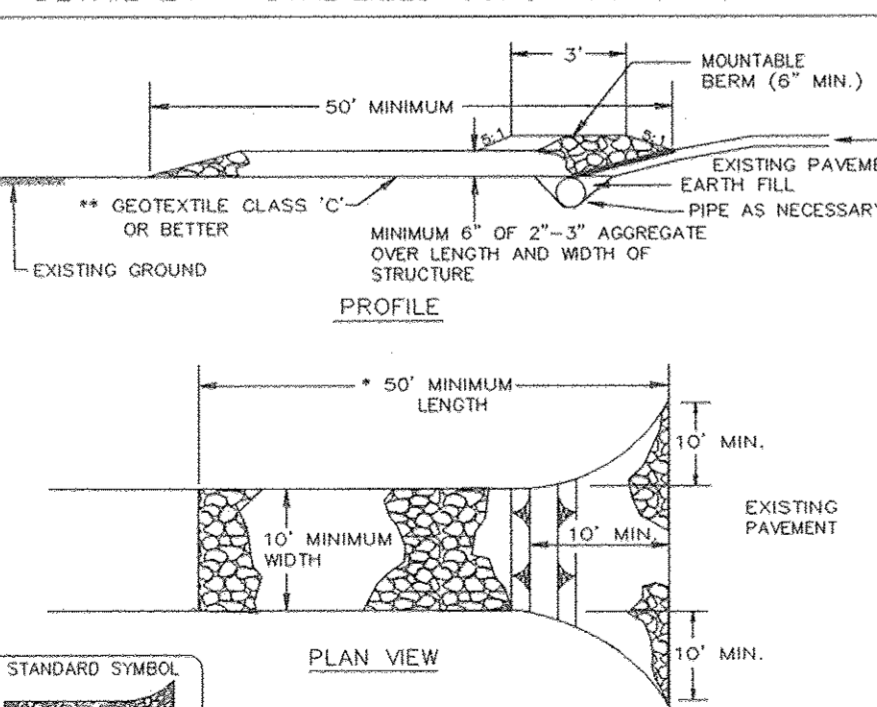
NOTES: * FOR "COS" INLETS LOCATION IS GIVEN FOR CENTER OF THROAT OPENING AT FACE OF CURB. FOR GRATE INLETS AND MANHOLES LOCATION IS AT CENTER OF TOP COVER. TOP ELEVATION IS TOP OF CURB/GRATE/RIM.

DETAIL 23C - CURB INLET PROTECTION



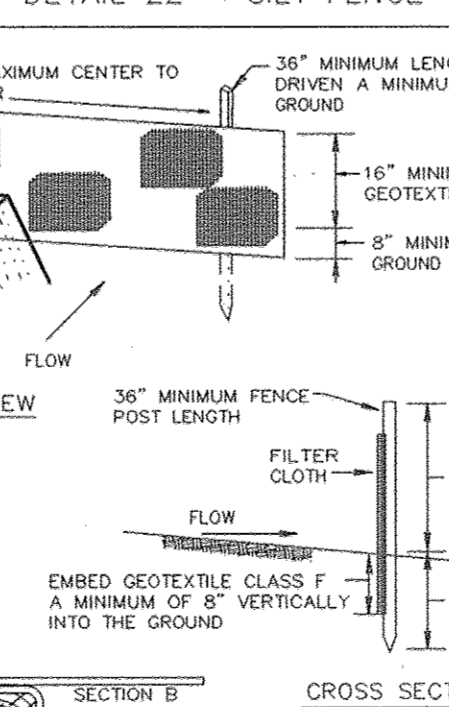
- Attach a continuous piece of wire mesh (30\"/>
- Place a continuous piece of Geotextile Class E in the same dimensions as the wire mesh over the wire mesh and securely attach it to the 2\"/>
- Securely nail the 2\"/>
- Place the assembly against the inlet throat and nail (minimum 2\"/>
- The assembly shall be placed so that the end spacers are a minimum 1\"/>
- Form the 1/2\"/>
- This type of protection must be inspected frequently and the filter cloth and stone replaced when clogged with sediment.
- Assure that storm flow does not bypass the inlet by installing a temporary curb or asphalt dike to direct the flow to the inlet.

DETAIL 24 - STABILIZED CONSTRUCTION ENTRANCE



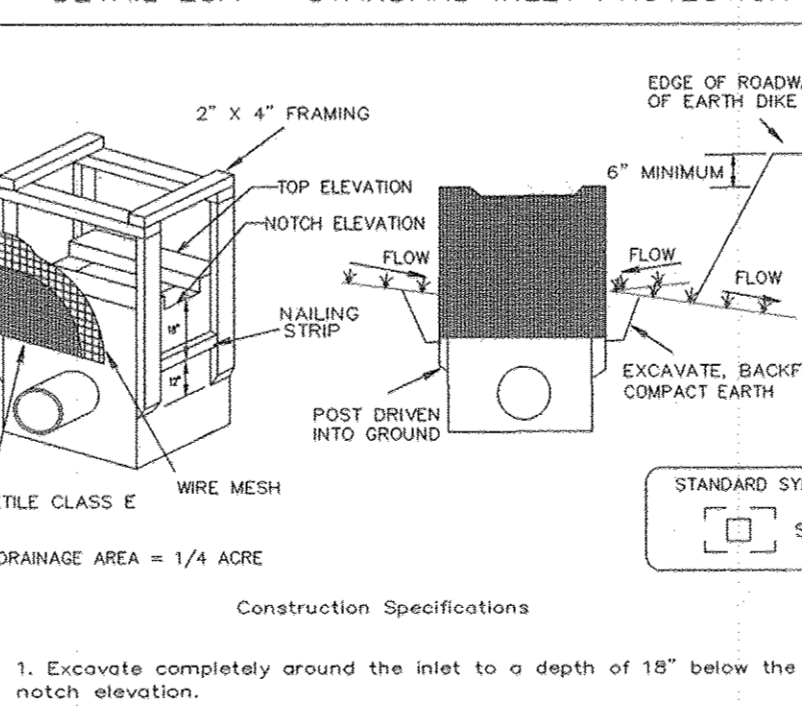
- Length - minimum of 50\"/>
- Width - 10\"/>
- Geotextile fabric (filter cloth) shall be placed over the existing ground prior to placing stone. **The plan approval authority may not require single family residences to use geotextile.
- Stone - crushed aggregate (2\"/>
- Surface Water - all surface water flowing to or diverted toward construction entrances shall be piped through the entrance, maintaining positive drainage. Pipe installed through the stabilized construction entrance shall be protected with a mountable berm with 5:1 slopes and a minimum of 6\"/>
- Location - A stabilized construction entrance shall be located at every point where construction traffic enters or leaves a construction site. Vehicles leaving the site must travel over the entire length of the stabilized construction entrance.

DETAIL 22 - SILT FENCE



- Fence posts shall be a minimum of 36\"/>
- Stretch the Geotextile Class E tightly over the wire mesh with the geotextile extending from the top of the frame to 18\"/>
- Backfill around the inlet in compacted 6\"/>
- If the inlet is not in a pump, construct a compacted earth dike across the ditch line directly below it. The top of the earth dike shall be at least 6\"/>
- The structure must be inspected periodically and over each rain and the geotextile replaced when it becomes clogged.

DETAIL 23A - STANDARD INLET PROTECTION



- Excavate completely around the inlet to a depth of 18\"/>
- Drive the 2\"/>
- Stretch the 1/2\"/>
- Attach the Geotextile Class E tightly over the wire mesh with the geotextile extending from the top of the frame to 18\"/>
- Excavate, backfill and compact earth.

RIEMER MUEGGE & ASSOCIATES INC.
 ENGINEERING • ENVIRONMENTAL SERVICES • PLANNING • SURVEYING
 8818 Centre Park Drive, Columbia, MD 21046
 (410) 997-8900 fax (410) 997-9282

DESIGNED BY: CJR

DRAWN BY: K.E.V.

PROJECT NO: 99239/SDP3.DWG

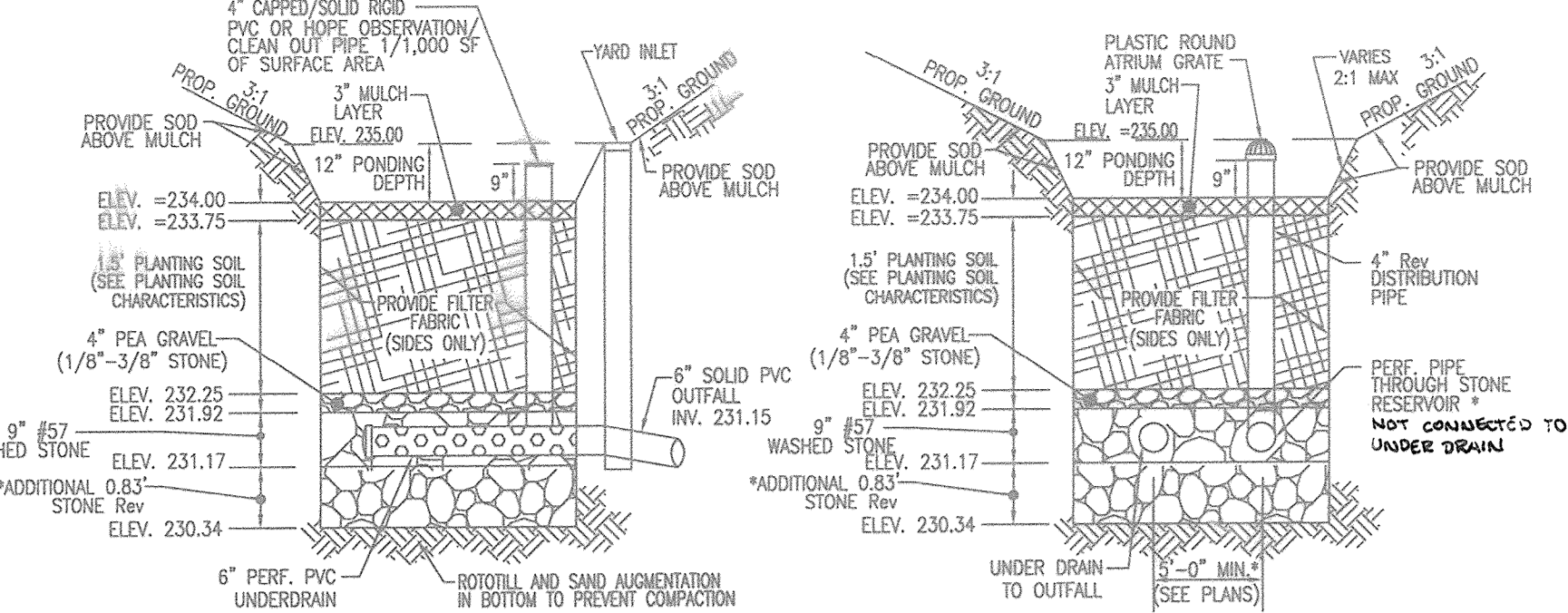
DATE: APRIL 5, 2001

SCALE: AS SHOWN

DRAWING NO. 3 OF 4

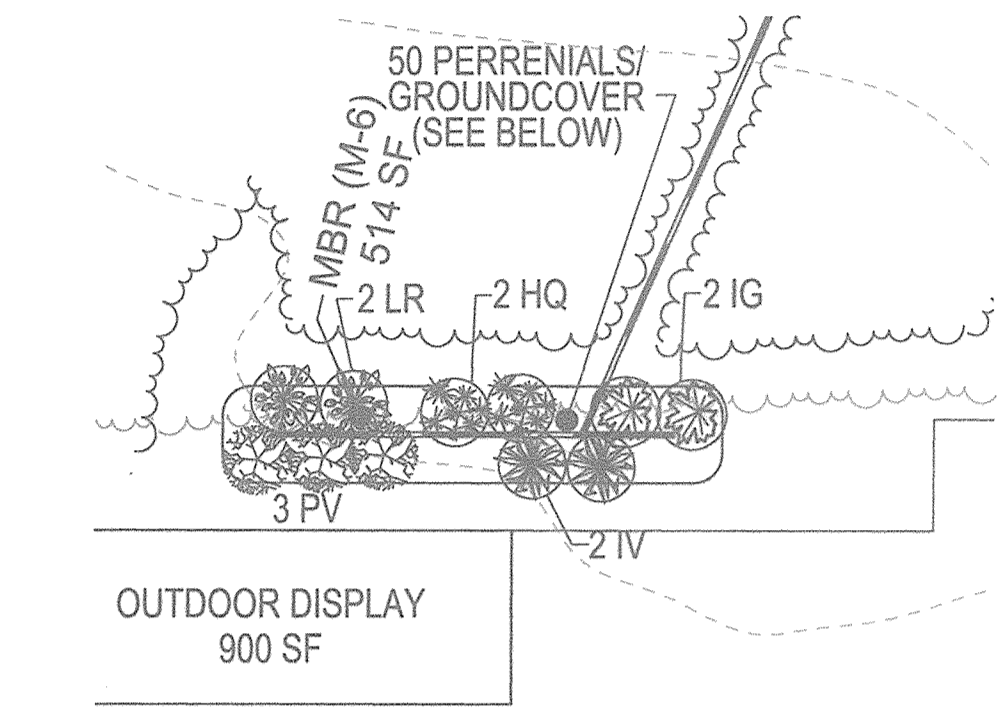


PROVIDE ESDV FOR AUTO REPAIR BUILDING
 BLDG AREA = 3,330 SF (100%) R=0.95
 ESDV=(3,330)(0.95)(2.8)/12=685 CF OF R/WIDE REV 171.3 CF INSTONE BELOW (0.83)
 PROVIDE 514 SF (75%) ABOVE MULCH



MICRO BIORETENTION (UNDERDRAIN) (M-6) NOT TO SCALE
 MICRO BIORETENTION (OVERFLOW) (M-6) NOT TO SCALE

MICRO BIORETENTION NOTES:
 1. ONLY THE SIDES OF MICRO BIORETENTION ARE TO BE WRAPPED IN FILTER FABRIC. FILTER FABRIC BETWEEN LAYER OR AT THE BOTTOM OF THE MICRO BIORETENTION WILL CAUSE THE MBR TO FAIL, AND THEREFORE SHALL NOT BE INSTALLED.
 2. WRAP THE PERFORATED MBR UNDERDRAIN PIPE WITH 1/4\"/>



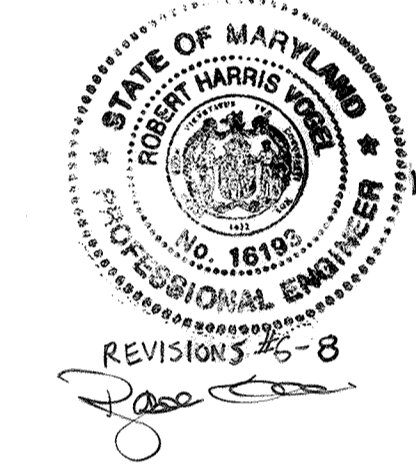
MICRO BIORETENTION DETAIL
 1\"/>

LEGEND/KEY	QTY	BOTANICAL NAME/COMMON NAME	SIZE	REMARKS
IG	2	ILEX GLABRA 'SHAMROCK' INKBERRY HOLLEY	1 GALLON	18\"/>
IV	2	ITEA VIRGINICA 'HENRY'S GARNETT' VIRGINIA SWEETSPHIRE	1 GALLON	18\"/>
HQ	2	HYDRANGEA QUERCIFOLIA OAKLEAF HYDRANGEA	1 GALLON	30\"/>
LR	2	LEUCOTHEA RACEMOSA FETTERBUSH	1 GAL.	30\"/>
PV	3	PANICUM VIRGATUM SWITCHGRASS	1 GAL.	36\"/>

LEGEND	QTY	BOTANICAL NAME/COMMON NAME	SIZE	REMARKS
	25	BAPTISIA AUSTRALIS	4\"/>	
	25	ACORUS GRAMINEUS 'OGON' GOLDEN VAREGATED SWEET FLAG	1 QT.	12\"/>

Forest Conservation Worksheet 2.2

Net Tract Area	Total Tract Area (2900 SF)	A = 0.06				
A. Total Tract Area		B = 0.00				
B. Deductions		C = 0.06				
C. Net Tract Area						
Land Use Category	Input the number "1" under the appropriate land use zoning, and limit to only one entry					
ARA	MDR	IDA	HDR	MFD	CIA	
0	0	0	0	0	0	
D. Afforestation Threshold (Net Tract Area x 15%)		D = 0.01				
E. Conservation Threshold (Net Tract Area x 15%)		E = 0.01				
F. Existing Forest Cover		F = 0.06				
G. Area of Forest Above Conservation Threshold		G = 0.05				
H. Break Even Point		H = 0.02				
I. Forest Clearing Permitted Without Mitigation		I = 0.04				
J. Proposed Forest Clearing		J = 0.06				
K. Total Area of Forest to be Retained		K = 0.00				
L. Reforestation for Clearing Above the Conservation Threshold		L = 0.01				
M. Reforestation for Clearing Below the Conservation Threshold		M = 0.02				
N. Credit for Retention above the Conservation Threshold		N = 0.00				
O. Total Reforestation Required		O = 0.03				
P. Total Afforestation Required		P = 0.00				
Q. Total Planting Requirement		Q = 0.03				



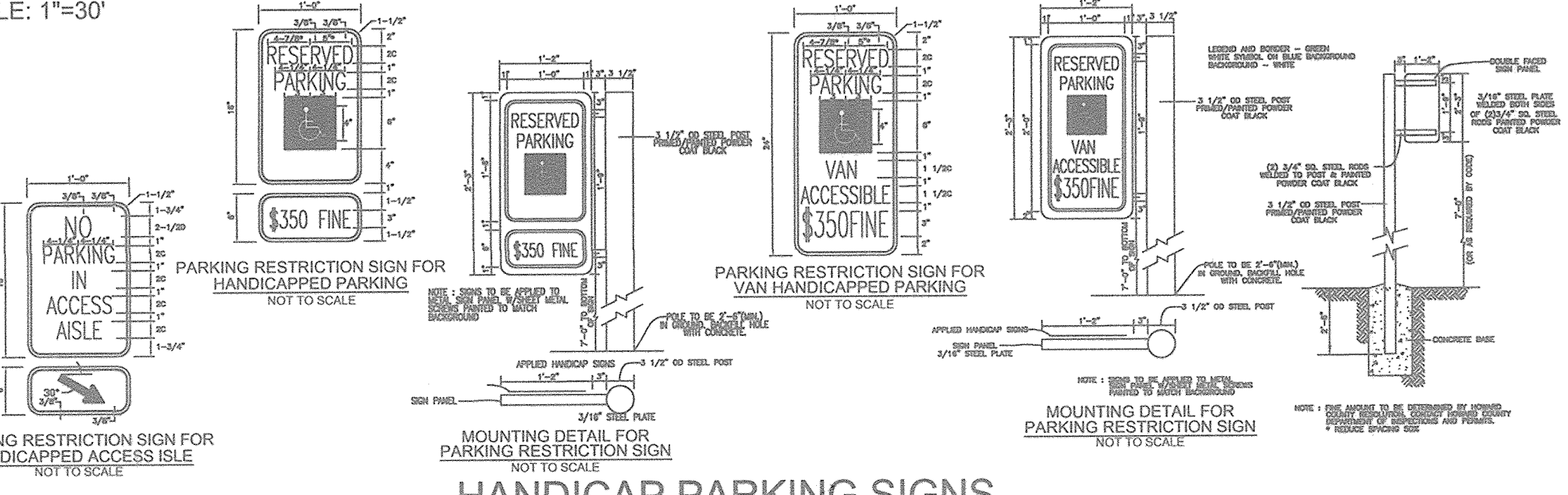
APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
 Chief, Development Engineering Division
 J. McArthur, Director

KEY	QUAN.	BOTANICAL NAME	SIZE	ROOT
AG	4	ACER GINNALA AMUR MAPLE	2.5\"/>	
EA	8	ERONIALIS ALABUS 'COMPACTUS' DWARF BURNING BUSH	30\"/>	
TB	10	TAKUS BACATA 'REPANDENS' ENGLISH WEEPING FERN	24\"/>	

OWNER/DEVELOPER
 THOMAS F. GORDON
 10743 SYMPHONY PARK DR.
 ROCKVILLE, MD 20852
 410-465-2020

CATEGORY	1	2	3	4	5	TOTAL
PERIMETER/FRONTAGE DESIGNATION	1	2	3	4	5	
LANDSCAPE TYPE	120	225	287	263	92	325
CREDIT FOR EXISTING VEGETATION (YES, NO, LINEAR FEET DESCRIBE BELOW IF NEEDED)	No	Yes (10% RIVER BIRCH & SHRUBS)	Yes 55 LF	Yes** FULL CREDIT	Yes** FULL CREDIT	Yes 132 LF
CREDIT FOR WALL, FENCE OR BERM (YES, NO, LINEAR FEET DESCRIBE BELOW IF NEEDED)	Yes 50'	No	Yes** 2232'	No	No	Yes** 2193'
NUMBER OF PLANTS REQUIRED	272	225	1:80 0	1:80 0	1:80 0	1:80 0
SHADE TREES	140 2	1:80 0	1:80 0	1:80 0	1:80 0	2
EVERGREEN TREES	14 18	1:80 0	-	-	-	18
SHRUBS	14 18	1:80 0	-	-	-	18
NUMBER OF PLANTS PROVIDED	2	-	-	-	-	2
SHADE TREES	-	-	-	-	-	-
EVERGREEN TREES	-	-	-	-	-	-
EX. SHADE TREES	-	-	-	-	-	-
OTHER TREES (2:1 SUBSTITUTION)	-	-	-	-	-	-
SHRUBS (10:1 SUBSTITUTION)	18	-	-	-	-	18
DESCRIBE PLANT SUBSTITUTION CREDITS BELOW IF NEEDED)						

LAYOUT PLAN
 SCALE: 1\"/>



HANDICAP PARKING SIGNS
 (NOT TO SCALE)

DEVELOPER'S/BUILDER'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 (1) YEAR GUARANTEE OF PLANT MATERIALS, WILL BE SUBMITTED TO THE DEPARTMENT OF PLANNING AND ZONING.
 Thomas Gordon, 1/9/2018



DESIGN BY: RHV
 DRAWN BY: KG
 CHECKED BY: RHV
 DATE: NOVEMBER 2017
 SCALE: AS SHOWN
 W.O. NO.: 17-27
 4 SHEET OF 4

NO.	REVISION	DATE
8	REVISE TO ADJUST THE BUILDING, SWM AND OIL SEPARATOR LOCATIONS	12-17-18
7	REVISE TO ADJUST THE MHC LOCATION AND TO ADD OIL INTERCEPTOR	10-2-18
6	REVISE TO REDUCE THE BUILDING SIZE AND ADJUST THE LOCATION	7-24-18
5	CHANGE USE TO AUTO SERVICE + SALES ADD ESDV.	11-02-2017

SITE DEVELOPMENT PLAN
 ENVIRONMENTAL DESIGN AND RESOURCES CENTER
 (FORMERLY AMERICAN BUILDING PRODUCTS)
 WATERLOO ROAD, MD ROUTE 175
 BUILDING AND PARKING ADDITIONS
 L 6242 F, 645
 ZONE: M-2

TAX MAP 43 GRID 21
 1ST ELECTION DISTRICT

PARCELS 444, 434
 HOWARD COUNTY, MARYLAND

ROBERT H. VOGEL ENGINEERING, INC.
 ENGINEERS • SURVEYORS • PLANNERS
 8407 MAIN STREET
 ELLIOTT CITY, MD 21043
 TEL: 410-461-7666
 FAX: 410-461-8961