numbers: S 01-17, ZB-995M, PB-353, WP-01-111, WP-02-54, WP-03-02 , P 02-12 P 03-01, F 03-07 and F 03-90, and F-08-10. 3. This project is in conformance with the latest Howard County

standards unless waivers have been approved. 4. The Cemetery Inventory Maps do not show any cemeteries within

the project limits. 5. The Scenic Roads Map does not indicate any scenic roads within or adjacent to the project limits.

6. This property was brought into the Metropolitan District on August 20, 2001. 7. All Roads in this Development are public. All areas indicated as alley

B. Site Analysis Gross Site Area: 37.43 Agres ± Total Area of Phase 2: 15.75 Agres ± Area of Open Space: Area of 100 Year Floodplain in Phase Two: 2.38 Acres ± 9.02 Acrest Area of Roadway (Public): 1.68 Acrest Area of Roadway (Private). 9.79 Acrest Area of Buildable Lots: 1.19 Acrest Area of Non- Buildable Lots

Number of Lats: 55 SFD, 65 SFA, 7 Open Space Lats. 5 Common Open Areas, and 3 Non-Buildable Parcels 9. Open Space Requirements:

Minimum Open Space Requirement for Project is 35%. Total Open Space Required: 13.10 Acres ± (35%) Total Open Space Provided: 15.75 Acres ± (42%) Recreational Open Space Required: 1.31 Acres (10%) Recreational Open Space Provided: 5.55 Acres (42%) The excess open space area may be used to fulfill the minimum open space requirement for future phoses.

10. Soils data was taken from the Soil Survey of Howard County, Maryland

11. Topography indicated was taken from aerial topography prepared during March 1997 by 3DL

12. Boundary information shown is based upon a field survey prepared by Gutschick, Little, and Weber, P.A. on or about June, 2001.

13. Wetland delineation by Exploration Research, Inc. approved by the Corps of of Engineers ID 63787-3 on 5/14/98. Notice of intent to issue a permit is covered by MDE Tracking #01-NT-0344/200165421.

14. The 100-year flood plain limits were determined by the floodplain study: prepared by Gutschick, Little and Weber, P.A. as part of P 03-01. 15. Horizontal and vartical datum is based on Howard County

Station 41EA and 41EB. 16. Existing utilities were taken from available Howard County

17. Public water and sewer to be utilized: Existing Water Contract Number: 44-1605 Existing Sewer Contract Number: 20-3506

18. Traffic Study was prepared and submitted as part of S 01-17, which was signed by the Planning Board on August 8, 2001.

Sediment and erosion control measures have been provided in accordance with the 1994 Maryland Standards and Specifications for Sail Erosion and Sediment Contal manual 20. Parking requirements will be determined and provided at the

Site Development Plan stages. 21. Street trees have been provided per the Comprehensive Sketch Plan criteria under this Final Plan submission.

22. All buffering and other landscaping requirements/features will be shown at the Site Development Plan stage and will be provided in accordance with the Comprehensive Sketch Plan criteria.

23. Personnal stream buffers are determined by land use adjoining the open space (i.e. Employment = 50° buffer, Residential = 75' buffer). All uses adjoining an intermittent stream = 50' buffer.

agement is being provided at an on-site facility. The facility will be Type P=2 wet pond. The permanent pool will provide the water quality. The channel protection volume for the 1 year storm quantity management will be provided utilizing extended detention. The recharge requirements will be provided in a facility on Open Space Lot 125. The recharge facility is being constructed under F-certo. No non-structural practices are proposed under this Final Plan. The pand will be publicly owned and maintained. The recharge facility on Open Space Lot 125 will be privately awned and maintained by the Community Homeowners Association.

25. As a consequence of the Sketch Plan approval prior to November 15, 2001, this project is grandfathered to the Fourth Edition of the Subdivision and Land Development Regulations.

26. As stated in the Decision and Order for this plan, The Planning Board shall review and approve site development plans for all single family attached and multi-family residential uses, and all employment and open space use development for the subject Maple Lawn Farms project. This phase (or Final Plan) and other Preliminary Subdivision Plans submitted for this project shall not be approved by DPZ until funding test evaluation restrictions enunciated by the Zoning Board on page 22-23 of its decision on the PDP are met consistent with the requirements of Section 127.E.4.c.2 of the Zoning Regulations,

Minimum building setback restrictions from property lines and the public road rights-of-way lines for all SFD and SFA residential lots will be in accordance with the Comprehensive Development Criteria approved per S-01-17 and PB-353.

28. No grading, removal of vegetative cover or frees, or placement of new structures is permitted within limits of wetlands, streams or their required buffers, and 100 year flood plain areas, except as permitted under WP-02-54 and WP-03-02.

29. Open space lots may contain active recreational facilities as allowed by the approved Comprehensive Development Criteria.

30. Phasing for this project is in accordance with the Decision and Order for Zoning Board Case No. ZB-995W and the Decision and Order for PB Case No. 353 (Comprehensive Sketch Plan, S-01-17).

31. Development for this phase will be done in accordance with the Comprehensive Development Criteria approved with S-01-17 and PB-353.

32. The transportation and transit design will be implemented as outlined in the Petitioner's Exhibit 55 as submitted as part of 28 995M. Location and number of bus stops within the limits of this Phase will be determined at Final Plan Stage. Any shelters will be provided at Site Development Plan Stage for the development adjacent to that structure so that architectural and hardscape features can be coordinated.

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS Chief, Bureau of Highways APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONIN

CONSTRUCTION PLAN MAPLE LAWN FARMS

Midtown District - Area 1 Lots 1 thru 120, Open Space Lots 121 thru 127, Common Open Areas 128 thru 132 and Parcels 'A', 'B' & 'C'

Limit of Midtown

District - Area I

Plot 3823

Board of Education

LOCATION PLAN

SCALE: 1"-800"

ON THOSE IS STATISHED FEATURE STORM WATER MANAGEMENT PROFILES/DETAILS

1936 S.W.M. DRAINAGE AREA MAP FOR TEMP. BASIN

17.39 STORM WATER MANAGEMENT PROFILES/DETAILS

1840 STORM WATER MANAGEMENT FACILITY DETAILS

●1924 STORM WATER MANAGEMENT - POND CONVERSION

CONTRACTS WE DETAILS

AL CIAL DEDICTED LANDSCAPING DIAM.

OVERALL DENSITY TABULATION

OVERALL S.F.D./GROSS ACRE

OVERALL O.R. /GROSS ACRE

OVERALL EMPLOYMENT F.A.R.

OVERALL S.F.D./O.R. DENSITY

42 FINAL FOREST CONSERVATION PLAN : PIMOE 2

AS FINAL COREST CONSERVATION AND REPLICITED HOTES

L 3218 F. 618

ASHEET INDEX

A HOAD CONSTITUTION AND STREET THE PLAN ILLE S.W.M. DRAINAGE AREA MAP

10 BIONASC TRAFFIC CONTROL & STRIPING PLANT IS 23 STORM WATER MANAGEMENT PROFILES/DETAILS

2. 44 SEDIMENT CONTROL OVERVIEW PLAN (1"=100") 10-14 STORM WATER MANAGEMENT PROFILES/DETAILS

HONNO-HOPANYO ROAD-INFROVENEWF-PEAN- 12.54 LAND-USE PLAN

Due to the name change from Sanner Road to Maple Lawn Boulevard,

there may be residual locations in the plans still referring to Sanner

Road. All such references to proposed Sanner Road shall be

7 ROAD CONSTITUTION STREET THE PLAN

多. 种. SEDIMENT CONTROL PLAN (1"=50")

4. 17. SEDIMENT CONTROL PLAN (1"=50")

63 STORIL DRAW DRAWING AREA WAT

24 STORM COMM DRAWACE AREA MAD /4" 6

SE STORY DOWN DOWNER ADEA HAD YAM A

7. 10 SEDIMENT CONTROL DETAILS

9. 20 SEDIMENT CONTROL DETAILS

NOTE: ROAD NAME CHANGES

10. BH SEDIMENT CONTROL DETAILS

33. A Noise Study was prepared by Wildman & Associates for S 01-17, which was signed by the Planning Board on August 8, 2001.

34. There will be no moderate income housing units proposed under this phase of residential development, but are proposed for Phase I, Stage II (Annual Phase IV).

35. For soil types, descriptions and limitations, see S 01-17. Limits of soil groups can be found on sheet 34.

36. Minimum tree quantities and preferred spacing are as follows: t tree per 40 linear feet, both sides: Maple Lawn Blvd. & lager Blvd. All other streets: 1 tree per 30 linear feet, both sides: Private Alleys No trees required

These are only minimum standards. Trees should be placed to align where possible with lot lines and demising walls of units so as to avoid blocking the fronts and/or doors and windows of units. Streetscape plantings for Liberty Street, President Street and Harrison Street adjacent to Open Space Lot 125 will be provided on the Site Development Plan for said lot.

37. Sidewalks and ramps will be constructed in accordance with ADA requirements. 38. The radius for curb fillets at the road intersections is 20', The radius for curb fillets within the median island and parking areas is 5°. All other curb radii are called out on the

Road Construction Plans. 39: Vehicular Ingress and Egress to Johns Hopkins Road and along the proposed Maple Lawn Blvd. extension through the subdivision is restricted, except at the various points of access to be approved by the Department of Planning and Zoning. The conditions of WP Of-111, which was granted on May 2, 2001 allows the following:

1. Additional points along the Maple Lawn Blvd. other than those permitted by Section 16.119(f)(1). are subject to further analysis and approvals at later plan stages, and Residential lots may front on neighborhood packs instead of being limited to frontage on public rights—of—way as in Section 16.120(c)(2), subject to Adequate private alley access.

40. The storm drains shown within Common Open Areas 128 through 132 are private. They will be privately owned and maintained by the Community Homeowners Association,

41. All buildable lots shown hereon shall have one (1) foot wide public easement adjacent to the Public Road Right of Way, for the purpose of sidewalk maintenance, water house connection and sewer house connection.

public ownership and responsibility ends at the right of way line.

42. The pathway shown from the intersection of Midtown Road and Duke Street, through Open Space Lot 122 is to be continued under SDP 03-140 and will be completed with the Maple Lawn Boulevard connection to Johns Hopkins Road. The remaining 100 +/- of sidewalk along Johns Hopkins Road to connect to the sidewalk constructed under Capital Project #1-4171 will be constructed with the Maple Lawn Boulevard plans. This pathway is being provided in lieu of the Johns Hopkins Road sidewalk system. The pathway alignment was determined to be an essential disturbance within the wetlands buffer and floodpalin area by the Department of Planning and Zoning in accordance with Section 16.116(c) of the Subdivision Regulations.

43. The SWM outfall pipe and rip—rop channel located within the 100 year flood plain limits was determined allowable by DPZ based on approved P-03-01 as a safe method to protect the flood plain from the outflow from the SWM facility in occordance with Section: 1. COVER SHEET 16.115(c)(2) of the Subdivision and Land Development Regulations.

On May 2, 2001, WP-01-111 was granted for the following:

EX. 12"W

· Additional points of access allowed onto Magle Lawn Bivd. other than those permitted by 16.119(f)(1), subject to further analysis and approvals at later plan stages. Residential lots are allowed to front on neighborhood parks instead being limited frontage

on public R/Ws as in 16.120(c)(2), subject to adequate private alley access. WP-03-02

On Oct. 11,2002, WP-03-02 was granted to allow: · Grading within the 75' stream buffer and floodplain as shown on the revised grading exhibit submitted 9/6/02 (waiver from Section 16.116 (a)(2)(ii) and Section 16.115 (c)(2) 4.49. SEDIMENT CONTROL PLAN (1"=50")

5.48: SEDIMENT CONTROL PLAN (1"=50") Elimination of truncation at right-of-way corners of residential lots and other parcel corners at right-of-ways where necessary to achieve the traditional neighborhood design 8.49: SEDIMENT CONTROL DETAILS (waiver from Section 16.119 (e)(5).

The disturbance within the floodplain and stream buffer is subject to obtaining the necessary permits from MDE and DNR. Elimination of the truncations is subject to having adequate sight and intersection distance as determined by the DPZ, Development

LEGEND

EXIST. CURB & GUTTER/PAVEMENT

STANDARD CURB & GUTTER

REVERSED CURB & GUTTER

EXISTING WATER MAIN

EXISTING STORM DRAIN

PROPOSED STORM DRAIN considered to mean Maple Lawn Boulevard. Furthermore, any references in Comprehensive Sketch Plan Criteria to Sanner Road, PROP. TOP OF CURB ELEVATION shall apply to the new name. PROPOSED STREET TREES AREA OF TEXTURED PAVEMENT ---- 400 --- EXISTING CONTOUR STRIPED AREA PROP. CONTOUR - EXISTING TREELINE EROSION CONTROL MATTING PROPOSED SIDEWALK (4) NUMBER OF PARKING SPACES BOTTOM OF STREAM STREAM BUFFER PROP. BARRICADE 00000000 100 YEAR FLOODPLAIN STREET LIGHTS 立 立 - CENTERLINE OF STREAM

LAND-USE AREAS PER APPROVED PDP AND CSP DEVELOPMENT CRITERIA THE FOLLOWING MINIMUM-STRUCTURE SETBACKS SHALL APPLY FOR STRUCTURES FROM THE PROJECT-BOUNDARY:

SO-FOOT MINIMUM OPEN SPACE BUFFER ADJACENT TO EXISTING RESIDENTIAL COMMUNITIES.

100-FOOT MINMUM SETBACK FOR RESIDENTIAL UNITS FROM JOHNS HOPKINS ROAD.

50-FOOT MINIMUM SETBACK FOR COMMERCIAL BUILDINGS FROM JOHNS HOPKINS ROAD AND A 20-FOOT MINIMUM SETBACK

SUMMARY OF MINIMUM SETBACKS FOR RESIDENTIAL

FOR PARKING FROM JOHNS HOPKINS ROAD.

STRUCTURE SETBACKS The minimum required setbacks for SINGLE FAMILY DETACHED structures shall be as follows:

Lot Type	Minimum Front Setback	Minimum Side Setback	Minimum Rear Setback	
			To Principal Structure	To Rear Garage (Attached or Detached) or to Accessory Structure
Cottage	10'	4' except for garage which may be 0'	20"	3,
Monor	12'	6" except for garage which may be 0"	20'	3'
Villo	12'	6' except for garage which may be 0'	20'	3'
Estote	- 20'	20' except for garage which may be 10'	20'	20'

. A ZERO LOT LINE DWELLING UNIT MAY BE LOCATED ON ANY PROPERTY LINE WHICH IS NOT A STREET RIGHT-OF-WAY PROVIDED THAT (1) NO PART OF THE DWELLING SHALL ENCROACH ONTO THE ADJOINING LOT: (2) AN ACCESS EASEMENT FOR THE PURPOSE OF MAINTENANCE TO THE SIDE OF THE STRUCTURE SHALL BE INCLUDED IN THE DEED WHERE APPROPRIATE. SPACING BETWEEN DWELLING UNITS SHALL BE A WINWAWA OF 8'. GARAGES HOWEVER, MAY ADJOIN ALONG THE PROPERTY LINE, PROVIDED THEY COMPLY WITH ALL BUILDING AND FIRE CODE REGULATIONS.

OPEN DECKS MUST BE A MINIMUM OF 10' FROM REAR PROPERTY LINE, AND ARE SUBJECT TO SIDE YARD SETBACKS.

FACING ACCESSORY STRUCTURES AND DETACHED GARAGES (ACROSS AN ALLEY/LANE R.O.W.) SHALL BE 30' APART.

· STRUCTURES MAY BE LOCATED ANYWHERE WITHIN SUCH SETBACK AREAS IN ACCORDANCE WITH A SITE DEVELOPMENT PLAN APPROVED BY HOWARD COUNTY PLANNING BOARD.

EXCEPTIONS TO FRONT SETBACK REQUIREMENTS:

EXCEPT FOR THE FOLLOWING, SECTION 128.A.1 APPLIES: PORCHES MAY ENCROACH INTO THE FRONT YARD TO WITHIN 2' FROM THE PROPERTY LINE OR RIGHT-OF-WAY FOR COTTAGES, MANORS, VILLAS: TO WITHIN 12" FOR ESTATES. PORCHES MAY ENCROACH INTO THE-SIDE YARD OF CORNER LOTS TO WITHIN 2' FROM RICHT-OF-WAY FOR COTTAGES, MANORS, AND VILLAS, TO WITHIN 12' FOR ESTATES WHERE A SIDE YARD ABUTS AN OREN SPACE OR PASSAGE, PORCHES MAY ENCROACH TO WITHIN I' FROM SIDE PROPERTY LINE FOR COTTAGES, MANORS, AND WILLAS, TO WITHIN 12" FOR ESTATES,

 STOOPS AND STEPS MAY ENCROACH INTO THE FRONT AND SIDE YARDS TO WITHIN 1' FROM THE FRONT PROPERTY LINE. GARDEN WALLS, FENCES, PIERS, GATES AND SIMILAR ORNAMENTS MAY BE BUILT IN THE FRONT AND SIDE YARDS NOT CLOSER THAN I' FROM THE FRONT PROPERTY LINE: NOT GREATER THAN 48" IN HEIGHT ALONG THE FRONT PROPERTY LINE AND NOT GREATER THAN 72" ALONG THE SIDE AND REAR PROPERTY LINES.

ACCESS · PERMANENT ACCESS TO LOTS MAY BE PROVIDED BY MEANS OF ALLEYS, USING PERPETUAL RECIPROCAL EASEMENTS. BUILDING HEIGHT

 MAXIMUM BUILDING HEIGHT ON ALL LOTS SHALL BE 38' TO THE MIDPOINT OF THE ROOF HEIGHT MEASURED FROM THE HIGHEST ADJOINING GROUND ELEVATION ADJACENT TO THE BUILDING, EXCEPT AS OTHERWISE APPROVED ON A SITE DEVELOPMENT PLAN BY THE HOWARD COUNTY PLANNING BOARD. .

 LOT COVERAGE FOR ESTATE LOTS SHALL NOT EXCEED SO PERCENT, INCLUDING PRINCIPAL AND ACCESSORY STRUCTURES BUT NOT INCLUDING SIDEWALKS, PAVED PARKING AREAS, DRIVEWAYS, PORCHES, STOOPS, STEPS, DECKS, PATIOS, IN-GROUND POOLS. LANDSCAPING AND SIMILAR STRUCTURES.

. NO LESS THAN TWO PARKING SPACES SHALL BE PROMDED FOR EACH SINGLE FAMILY DETACHED DIVELLING UNIT. SUCH SPACES MAY CONSIST OF GARAGE, DRIVEWAY AND/OR SIMILAR OFF-STREET PARKING SPACES. VISITOR PARKING AND OVERFLOW PARKING WAY BE ACCOMMODATED AS ON-STREET PARKING WITHIN THE PUBLIC RIGHT-OF-WAY.

Lot Information Minimum Lot Size Min, Lot Width at Front BRL Lots Lot Type 14-19, 38-42, 48-52 3,600 Square Feet Cottage 4,000 Square Feet -13, 20-37, 43-47, 53-55 Manor 54" 5,400 Square Feet Villa 120' = 20,000 Square Feet Estate Townhouse 56-120

____ 30.83 (59.3) 21.15 (40.7) 4.38 ____ __ __ __ ___

8.09 53.0

36.90 179.5

88.22 AC. 507.9 AC.

32.39

PROPOSED ALLOWED MAX RES. UNITS ALLOWED S 01-17

10.84 | 198.3 | SINGLE FAMILY DETACHED (S.F.D.) | 485 (43.5%)

APARTMENTS (O.R.)

* except for lots identified on CSP which shall not be less than 100' of front PROFESSIONAL CERTIFICATION Lot type shall be designated on Final Plats for all Single Family Detached area approved by me, and that I am a dely licensed profession be located as shown on this plan.

REF. NO. ACREAGE ACREAGE AC. (%) AC. (%) AC. (%) AC. (%) ACREAGE ACREAGE UNITS (APT./S.F.A.) DENSITY DENSITY BLDG. AREA F.A.R.

TOTAL

89.41 1.19 ACRES 10.84 8.09 32.39 36.90 (41.3) 13.40 1.68 55 65 --- -- --

ELECTION DISTRICT No. 5

2 F-03-90 37.43 1.19 (3.1) 10.84(29.0) 8.09 (21.6) 1.56 (4.2) 15.75 (42.1) 9.02 1.68 55 65 5.2/AC 7.9/AC ---

eneby certify that these documents were prepared or engineer under the laws of the State of Maryland, License No. 12975, Expiration Date: May 26 2016.

hofessional Engineer Maryland Reg. No. 12975

CHELLING

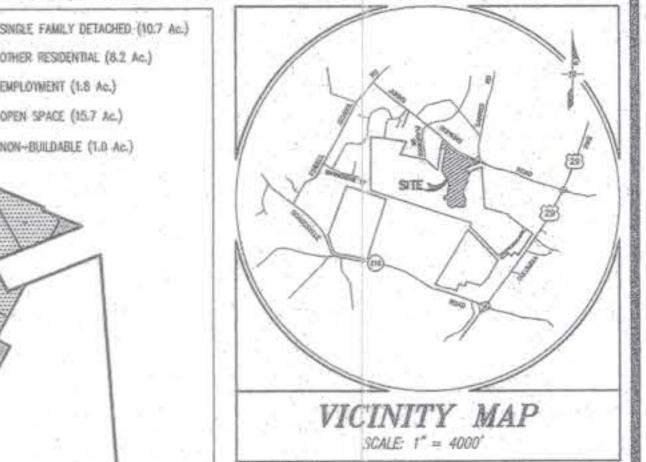
PROMITE ALLEY TYPICAL FOOTPRINTS

THE LIMITS OF THIS FINAL PLAN COVERS ALL THE DEVELOPMENT PROPOSED BY S-01-17 AS ANNUAL PHASE 2 (ALLOCATION YEAR 2005)
WHICH IS ALSO THE 120 RESIDENTIAL UNITS ALLOWED BY PDP

77.1 SINGLE FAMILY ATTACHED (O.R.) 395 (35.4%) 1116 PHASE 1/STAGE 1 COVER SHEET

MAPLE LAWN FARMS

Midtown District - Area 1 Lots 1 thru 120, Open Space Lots 121 thru 127, Common Open Areas 128 thru 132 and Parcels 'A', 'B' & 'C'



BENCHMARKS

ATEA ELEV, = 407.05 STANDARD DISC ON CONCRETE MONUMENT

STRUCTURE SETBACKS The minimum required setbacks for OTHER RESIDENTIAL structures shall be as follows:

OTHER RESIDENTIAL (8.2 Ac.)

EMPLOYMENT (1:8 Ac.)

OPEN SPACE (15.7 Ac.)

NON-BUILDABLE (1.0 Ac.)

Lot Type	Minimum Front	Minimum Side Setbock	Minimum Rear Selback			
			To Principal Structure	To Rear Garage (Attached or Detached) or to Accessory Structure	Minimum Front, Side and Rear Setback from Maple Lown Blvd	
Single-Family Attached	0'	0,	20'	3'	20'	
Live-Work	0'	0'	20"	3,	20'	
Semi-datached	10'	4' except for garage which may be 0'	20"	3"	20	
Two-Family	10"	4" except for garage which may be 0"	20'	3"	20'	
Apartment	10'	10' except for garage which may be 0'	20'	3'	20'	

 OPEN DECKS MUST BE A MINIMUM OF 10" FROM BEAR PROPERTY LINE, AND ARE SUBJECT TO SIDE YARD SETBACKS. * FACING ACCESSORY STRUCTURES AND DETACHED GARAGES (ACROSS AN ALLEY/LANE R.O.W.) SHALL BE 50" APART.

 BETWEEN APARTMENT BUILDINGS, THE MINIMUM SETBACK DISTANCES SHALL BE 30' FRONT TO FRONT, 50' BACK TO BACK. 50' FRONT TO BACK AND 15' FOR ALL OTHER CONDITIONS. BETWEEN SINGLE-FAMILY ATTACHED BUILDINGS, THE MINIMUM SETBACK DISTANCES SHALL BE 30' FRONT TO FRONT, 50' BACK TO BACK, 50' BACK TO FRONT AND 10' FOR ALL

 STRUCTURES MAY BE LOCATED ANYWHERE WITHIN SUCH SETBACK AREAS IN ACCORDANCE #TH A SITE DEVELOPMENT. PLAN APPROVED BY HOWARD COUNTY PLANNING BOARD.

EXCEPTIONS TO PRONT SETBACK REQUIREMENTS:

LAND-USE MAP

SCALE: 1"=600"

EXCEPT FOR THE FOLLOWING, SECTION 128:A.1 APPLIES:

 PORCHES MAY ENCROACH INTO THE FRONT YARD TO WITHIN 2' FROM THE PROPERTY LINE OR RIGHT-OF-WAY FOR ALL OTHER RESIDENTIAL LOT TYPES.

 STOOPS AND STEPS MAY ENCROACH INTO THE FRONT AND SIDE YARDS TO WITHIN 1' FROM THE FRONT PROPERTY LINE. FOR ALL OTHER RESIDENTIAL TYPES.

· GARDEN WALLS, FENCES, PIERS, GATES AND SIMILAR ORNAMENTS MAY BE BUILT IN THE FRONT AND SIDE YARDS NOT CLOSER

THAN IT FROM THE FRONT PROPERTY LINE: NOT GREATER THAN 48" IN HEIGHT ALONG THE FROM PROPERTY LINE AND NOT GREATER THAN 72" ALONG THE SIDE AND REAR PROPERTY LINES.

 PERMANENT ACCESS TO LOTS MAY BE PROMOED BY MEANS OF ALLEYS, USING PERPETDAL RECIPROCAL EASENENTS. BUILDING HEIGHT

· MAXIMUM BUILDING HEIGHT IN THE OTHER RESIDENTIAL LAND USE AREAS SHALL BE 50' FOR ATTACHED, SEMI-DETACHED, OR

TWO-FAMILY DWELLING UNITS, AND 86' FOR LIVE-WORK UNITS AND APARTMENTS. IN EACH CASE THE BUILDING HEIGHT IS MEASURED FROM THE MIDPOINT OF THE ROOF HEIGHT TO THE HIGHEST ADJOINING GROUND ELEVATION ADJACENT TO THE BUILDING, EXCEPT AS OTHERWISE APPROVED ON A SITE DEVELOPMENT PLAN BY THE HOWARD COUNTY PLANNING SOARD.

CONERAGE

NO COVERAGE REQUIREMENTS ARE IMPOSED IN OTHER RESIDENTIAL LAND USE AREAS.

 NO LESS THAN TWO PARKING SPACES SHALL BE PROVIDED FOR EACH SINGLE FAMILY ATTACHED, LIVE-WORK, SMI-DETACHED, AND TWO-FAMILY DWELLING UNIT. NO LESS THAN ONE AND ONE-HALF PARKING SPACES SHALL BE PROVIDED FOR EACH APARTMENT UNIT. SUCH SPACES MAY CONSIST OF GARAGE, DRIVEWAY AND/OR SIMILAR OFF-STREET PARKING AREAS. SURH PARKING SHALL BE PROVIDED IN PROXIMITY TO SUCH DIRELLING UNIT AND MAY BE INCLUDED AS PART OF A COMMON PARKING AREA PROVIDED FOR RESIDENTS, TEMANTS. AND GUESTS. PRINCIPAL STRUCTURES SHALL BE NO CLOSER THAN 15' TO THE CURB OF SUCH PARKING AREAS. WISTOR PARKING AND OVERFLOW PARKING MAY BE ACCOMMODATED AS ON STREET AND PARALLEL PARKING WITHIN THE PUBLIC RIGHT-OF-WAY.

· SUCH PARKING AREAS WAY BE PARALLEL SPACES LOCATED ON PAVED AREAS IN AND/OR ADJACENT TO PUBLICLY MAINTAINED. ROADWAYS, ADJACENT TO PUBLIC OR PRIVATE SERVICE DRIVES OR GRENTED CHARGONALLY OR AT FIGHT ANGLES TO SUCH ROADWAYS OR SERVICE DRIVES.

HOUSING FOR ELDERLY AND/OR HANDICAPPED PERSONS

or K. Edechick

 IN THE EVENT A FACILITY QUALIFIES UNDER FEDERAL, STATE OR COUNTY PROGRAMS INTENDED TO PROMOTE HOUSING FOR THE ELDERLY OR HANDICAPPED, THE PARKING REQUIREMENTS MAY BE MODIFIED TO PROVIDE FOR FOUR PARKING SPACES FOR EVERY TEN DIRECTION OF PARTICIPATING IN SUCH PROGRAM. IN THE EVENT THE UNITS ARE WITHORAMN FROM SUCH A HOUSING PROGRAM, THE OWNER OF THE FACILITY SHALL IMMEDIATELY NOTIFY THE DEPARTMENT OF PLANNING AND ZONING AND SHALL CONSTRUCT, PRIOR TO FURTHER OCCUPANCY OF THE WITHDRAWN UNITS, SUCH ADDITIONAL PARKING SPACES AS ARE NECESSARY TO PROVIDE THE AND ONE-HALF PARKING SPACES FOR EACH DWELLING UNIT WITHORAWN.

COUNTY FILE # F 03-090

ZONING G. L. W. FILE No. SCALE 02001 MXD-3AS SHOWN TAX MAP - GRID SHEET 1 OF 19 5.16.21 & 22

F-03-90ASBUILTS

thief, Development Engineering Division

GLW GUTSCHICKLITTLE & WEBER, P.A. CIVIL ENGINEERS, LAND SURVEYORS, LAND PLANNERS, LANDSCAPE ARCHITECTS 3909 NATIONAL BRIVE - SUITE 250 - BURTONSVILLE OFFICE PARK

BURTONSVILLE, MARYLAND 20866 TEL: 301-421-4024 BALT: 410-880-1820 DC/VA: 301-989-2524 FAX: 301-421-4186 DES. DEV DRN.JU/AL CHK. DEV 02001\ph2\FINALS\02001CS1.DWG

9.11 or Memored shtis from sht indexpertaining tood, of grades, formed concland. | Worl

STRUCTURE: NUMBER

OWNER: G & R Maple Lawn, Inc. et. al. Suite 410, Woodholme Center 1829 Reisterstown Road Baltimore, Md. 21208 Attn: Charlie O' Donovan

A STATE OF THE STA

410-484-8400

PROPOSED ALLOWED LAND USE ACREAGES

O.35 EMPLOYMENT

1.4/AC. 2.2 UNITS/AC. OPEN SPACE

7.9/AC. 14.0 UNITS/AC OTHER RESIDENTIAL (O.R.)

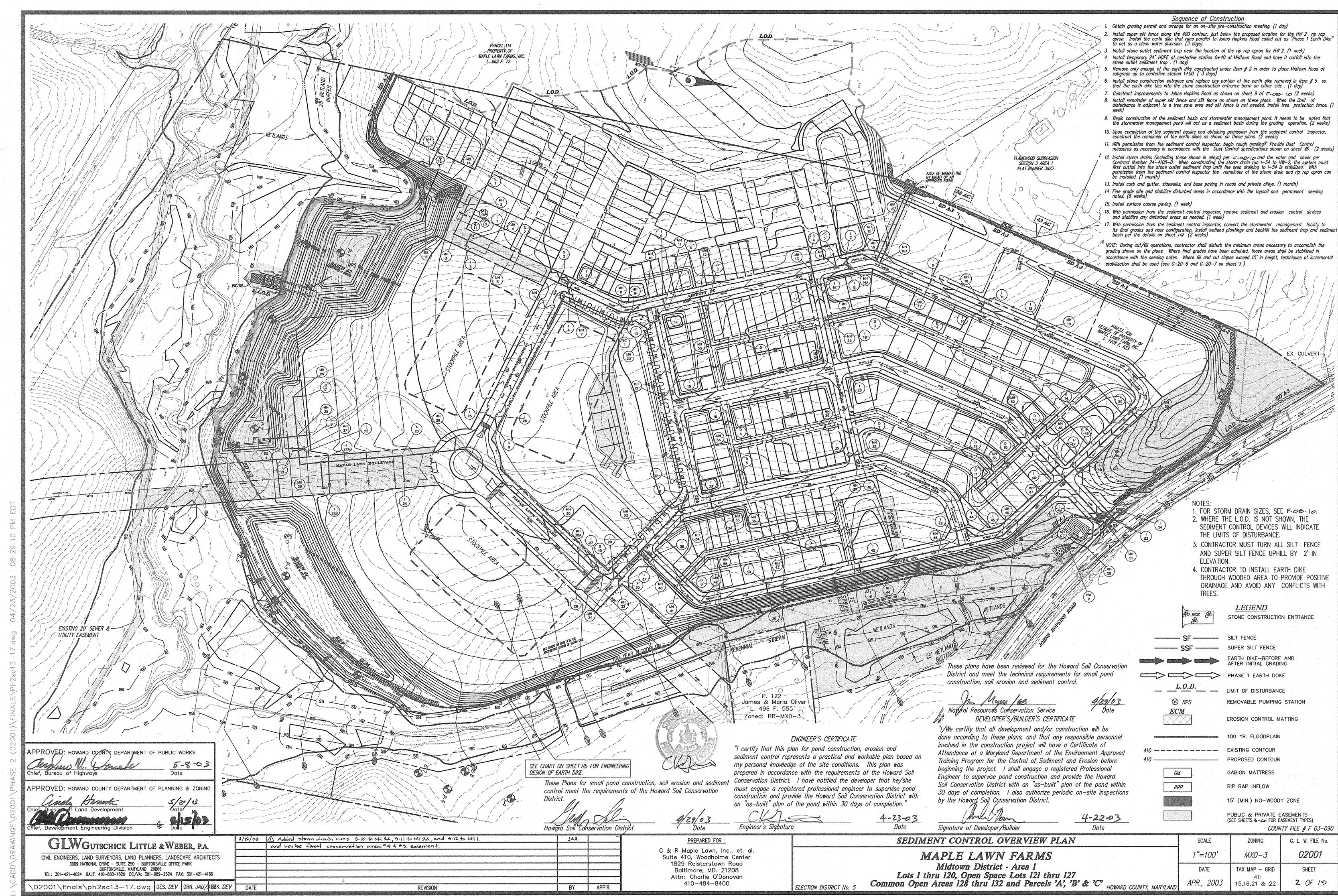
5.2/AC. 2.8 UNITS/AC STRIGLE FAMILY DETACHED (S.F.D.)

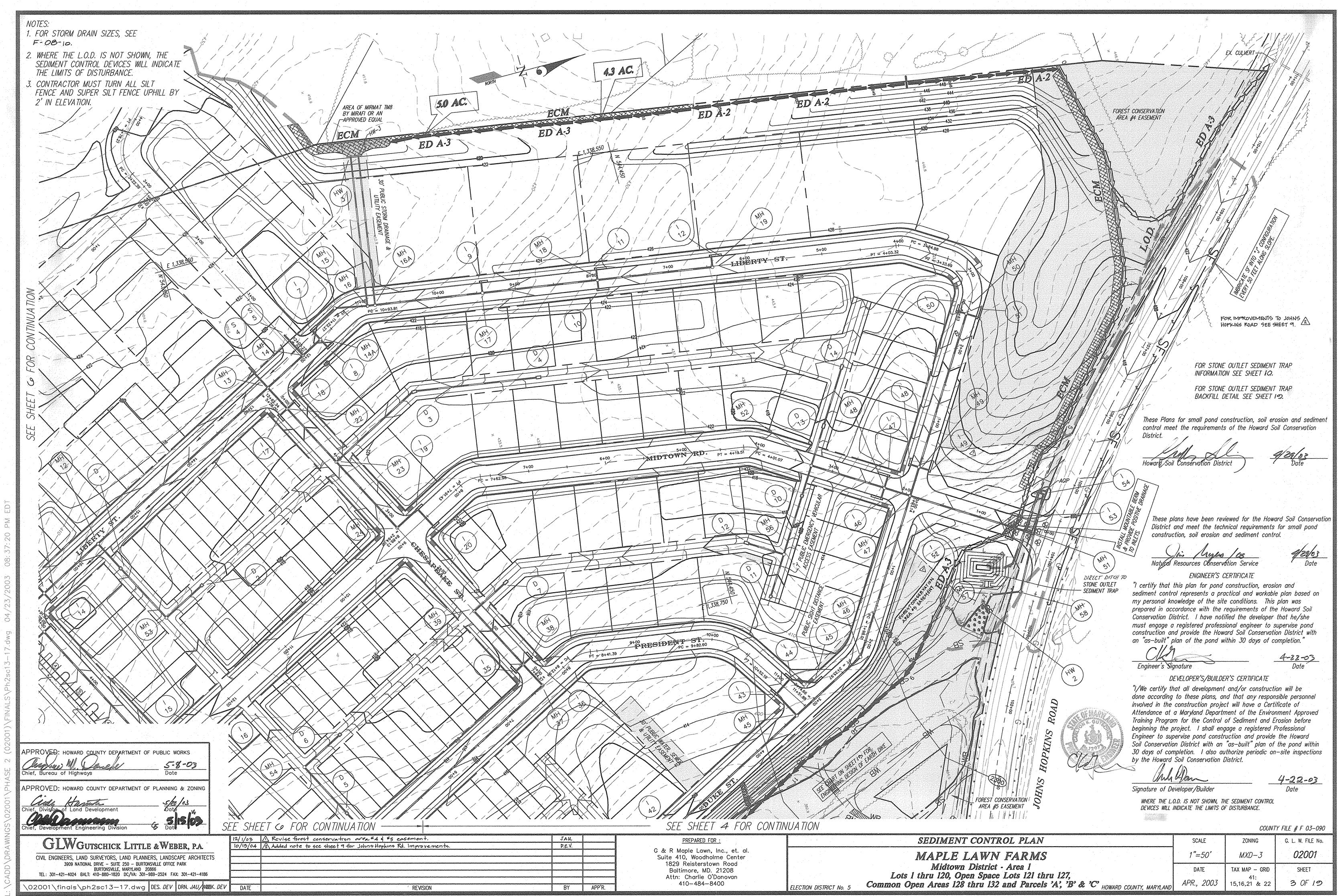
OVERALL DEVELOPMENT TRACKING CHART

236 (21.1%)

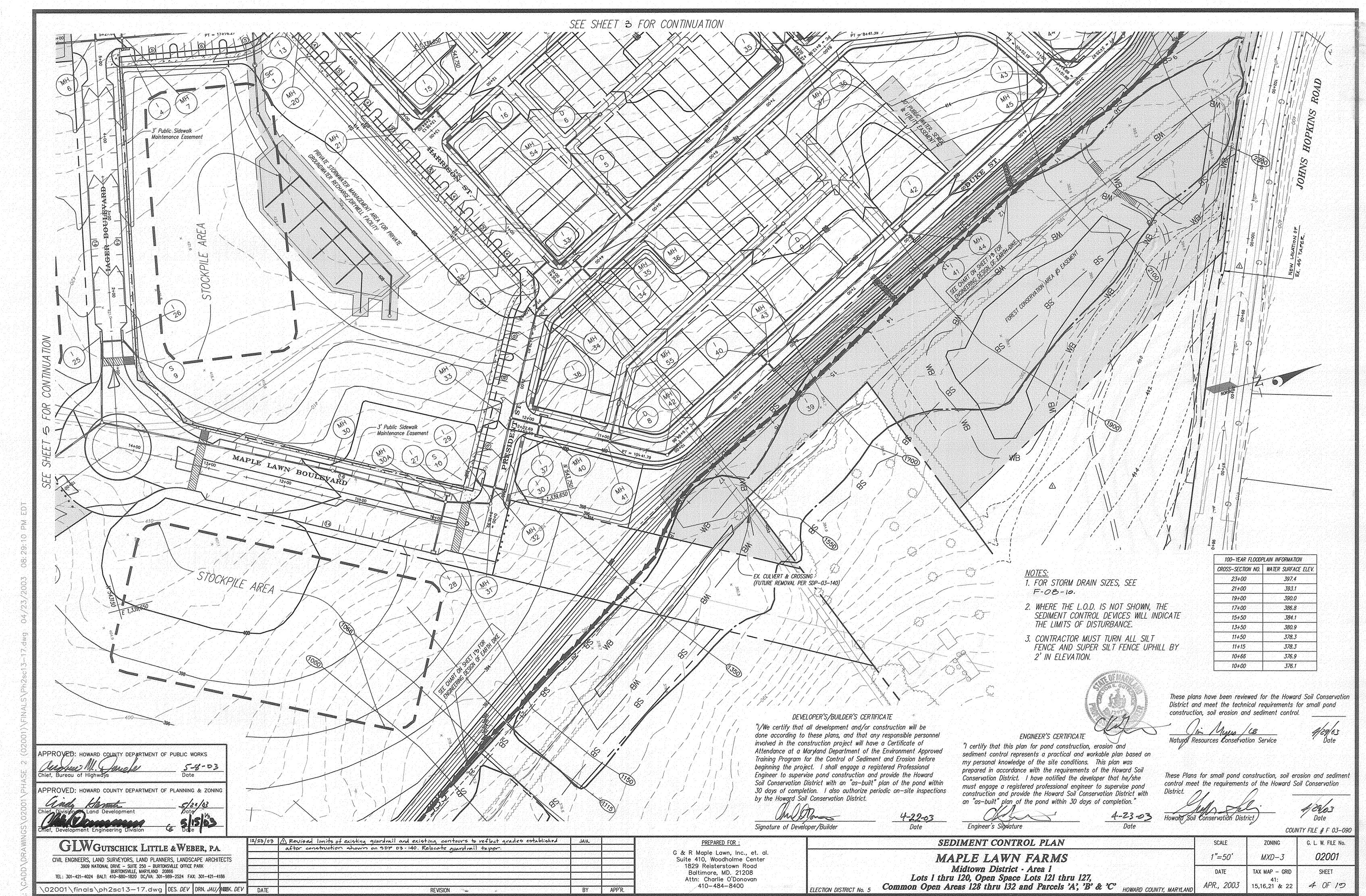
P. 121 (L. 4213 F. 95), P. 450 (L. 1908 F. 623), P. 205 (L. 894 F. 596)

HOWARD COUNTY, MARYLAND

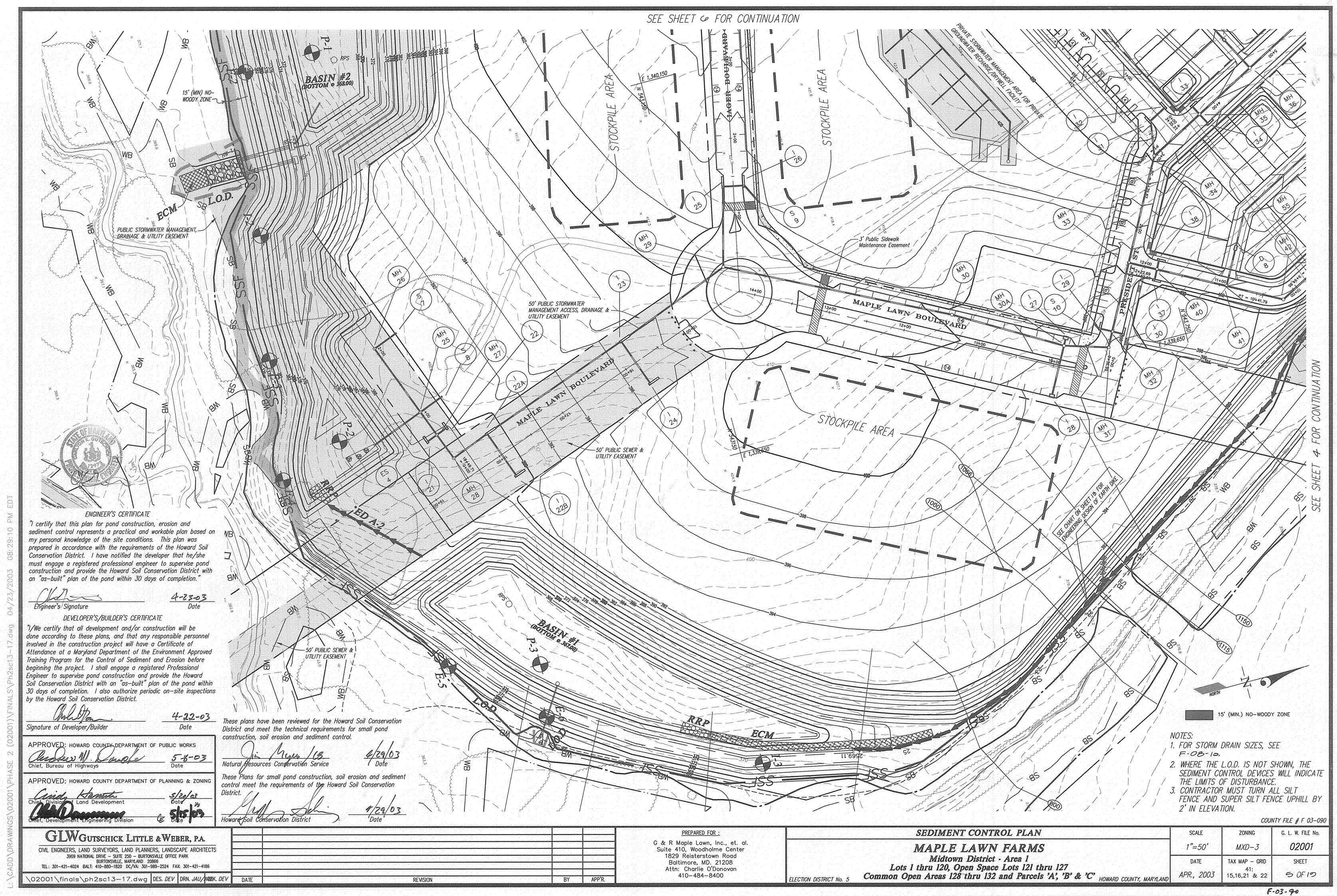


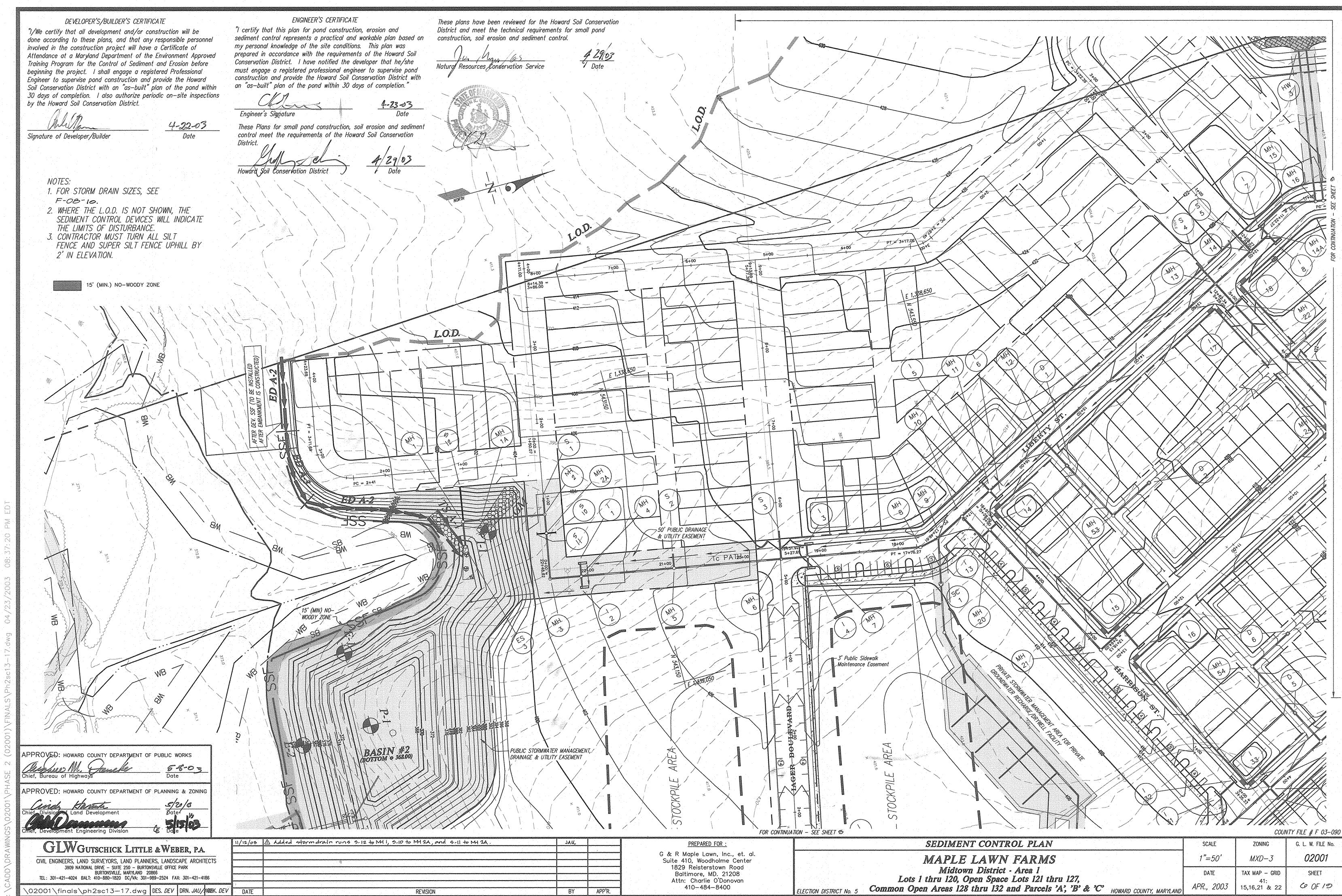


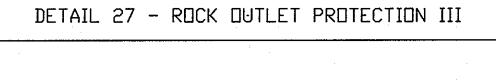
F-03-90

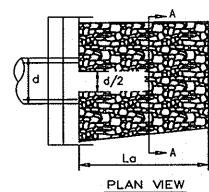


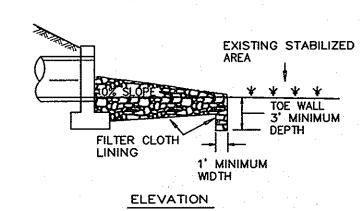
F-03-90

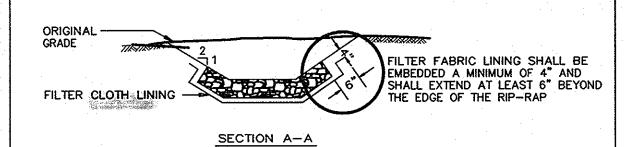












NOTE: FILTER CLOTH SHALL BE GEOTEXTILE CLASS C

Construction Specifications

1. The subgrade for the filter, riprap, or gabion shall be prepared to the required lines and grades. Any fill required in the subgrade shall be compacted to a density of approximately that of the surrounding undisturbed material.

2. The rock or gravel shall conform to the specified grading limits when installed respectively in the rip-rap or filter.

3. Geotextile shall be protected from punching, cutting, or tearing, ny damage other than an occasional small hole shall be repaired by placing another piece of geotextile over the damaged part or by completely replacing the geotextile. All overlaps whether for repairs or for joining two pieces of geotextile shall be a minimum of one foot.

4. Stone for the rip-rap or gabion outlets may be placed by equipment. They shall be constructed to the full course thickness in one operation and in such a manner as to avoid displacement of underlying materials. The stone for riprap or gabion outlets shall be delivered and placed in a manner that will ensure that it is reasonably homogeneous with the smaller stones and spalls filling the voids between the larger stones. Rip-rap shall be placed in a manner to prevent damage to the filter blanket or geotextile. Hand placement will be required to the extent necessary to prevent damage to the permanent works.

5. The stone shall be placed so that it blands in with the existing ground. If the stone is placed too high then the flow will be forced out of the channel and scour adjacent to the stone will occur.

MARYLAND DEPARTMENT OF ENVIRONMENT U.S. DEPARTMENT OF AGRICULTURE

ENGINEER'S CERTIFICATE

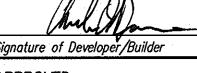
SDIL CONSERVATION SERVICE

"I certify that this plan for pond construction, erosion and sediment control represents a practical and workable plan based on my personal knowledge of the site conditions. This plan was prepared in accordance with the requirements of the Howard Soil Conservation District. I have notified the developer that he/she must engage a registered professional engineer to supervise pond construction and provide the Howard Soil Conservation District with an "as-built" plan of the pond within 30 days of completion."

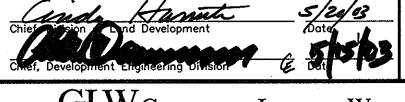


DEVELOPER'S/BUILDER'S CERTIFICATE

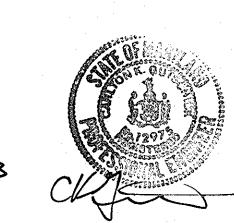
"I/We certify that all development and/or construction will be done according to these plans, and that any responsible personnel involved in the construction project will have a Certificate of Attendance at a Maryland Department of the Environment Approved Training Program for the Control of Sediment and Erosion before beginning the project. I shall engage a registered Professional Engineer to supervise pond construction and provide the Howard Soil Conservation District with an "as-built" plan of the pond within 30 days of completion. I also authorize periodic on-site inspections by the Howard Soil Conservation District.



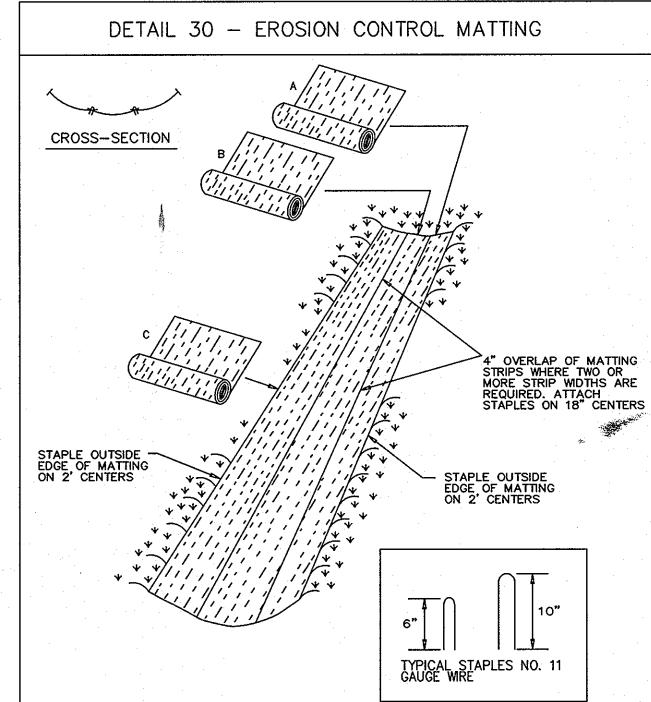
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WATER MANAGEMENT ADMINISTRATION



Construction Specifications

1. Key-in the matting by placing the top ends of the matting in a narrow trench, 6" in depth. Backfill the trench and tamp firmly to conform to the channel cross-section. Secure with a row of staples about 4" down slope from the trench. Spacing between staples is 6".

2. Staple the 4" overlap in the channel center using an 18" spacing between staples.

3. Before stapling the outer edges of the matting, make sure the matting is smooth and in firm contact with the soil.

4. Staples shall be placed 2' apart with 4 rows for each strip, 2 outer rows, and 2 alternating rows down the center.

5. Where one roll of matting ends and another begins, the end of the top strip shall overlap the upper end of the lower strip by 4". shiplap fashion. Reinforce the overlap with a double row of staples spaced 6" apart in a staggered pattern on either side.

6. The discharge end of the matting liner should be similarly secured with 2 double rows of staples.

1. Incremental Stabilization - Cut Slopes

Note: If flow will enter from the edge of the matting then the area effected by the flow must be keyed-in.

MARYLAND DEPARTMENT OF ENVIRONMENT U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE WATER MANAGEMENT ADMINISTRATION

commencations. Netting is usually available in rolls 4' to 15' feet wide and 300 to 3,000 feet long

All cut slopes shall be dressed, prepared, seeded and mulched as the work progresses. Slopes shall

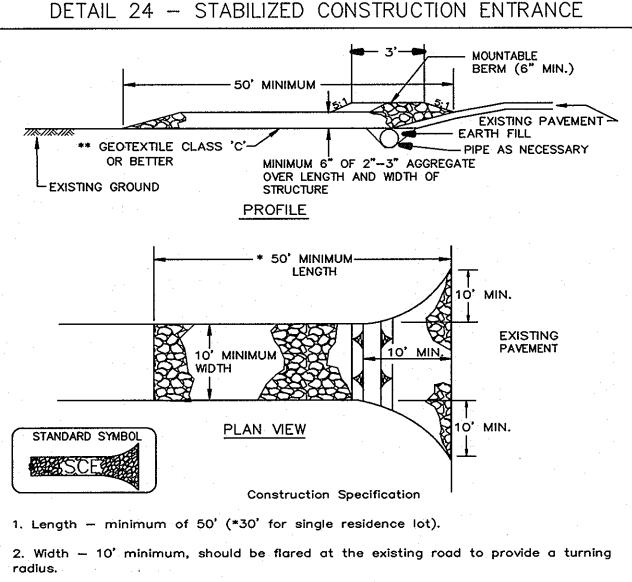
a. Excavate and stabilize all temporary swales, side ditches, or berms that will be used to convey

he excavated and stabilized in equal increments not to exceed 15'.

ii. Construction sequence (Refer to Figure 3 helow):

b. Perform phase I excavation, dress, and stabilize.

nunoff from the excavation

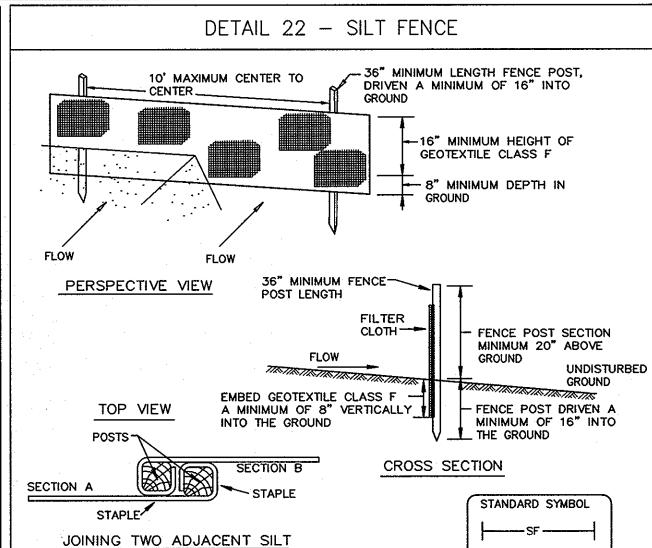


3. Geotextile fabric (filter cloth) shall be placed over the existing ground prior to placing stone. **The plan approval authority may not require single family residences to use geotextile.

4. Stone — crushed aggregate (2" to 3") or reclaimed or recycled concrete equivalent shall be placed at least 6" deep over the length and width of the

5. 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" of stone over the pipe. Pipe has to be sized according to the drainage. When the SCE is located at a high spot and has no drainage to convey a pipe will not be necessary. Pipe should be sized according to the amount of runoff to be conveyed. A 6" minimum will be required.

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 WATER MANAGEMENT ADMINISTRATION SOIL CONSERVATION SERVICE F = 17 = 3



FENCE SECTIONS Construction Specifications

1. Fence posts shall be a minimum of 36" long driven 16" minimum into the ground. Wood posts shall be 11/2" x 11/2" square (minimum) cut, or 13/4" diameter (minimum) round and shall be of sound quality hardwood. Steel posts will be standard T or U section weighting not less than 1.00 pond per linear foot.

2. Geotextile shall be fastened securely to each fence post with wire ties or staples at top and mid-section and shall meet the following requirements for Geotextile Class F:

Tensile Strenath 50 lbs/in (min.) Tensile Modulus 20 lbs/in (min.) Flow Rate Filtering Efficiency 75% (min.)

0.3 gal ft ²/ minute (max.) Test: MSMT 322

Test: MSMT 509 Test: MSMT 509 Test: MSMT 322

3. Where ends of geotextile fabric come together, they shall be overlapped, folded and stapled to prevent sediment bypass.

4. Silt Fence shall be inspected after each rainfall event and maintained when bulges occur or when sediment accumulation reached 50% of the fabric height.

MARYLAND DEPARTMENT OF ENVIRONMENT SOIL CONSERVATION SERVICE WATER MANAGEMENT ADMINISTRATION

NOTE: FENCE POST SPACING SHALL NOT EXCEED 10' 10' MAXIMUM CENTER TO CENTER 4" MINIMUM TINTINTINTIN GROUND 1 SURFACE 56" MINIMUN **FLOW** 21/2" DIAMETER **ĠALVANIZED** - CHAIN LINK FENCE OR ALUMINUM WITH 1 LAYER OF 8" MINIMUM POSTS FILTER CLOTH CHAIN LINK FENCING FILTER CLOTH--16" MIN. 1ST LAYER OF FILTER CLOTH EMBED FILTER CLOTH 8" MINIMUM INTO GROUND STANDARD SYMBOL *IF MULTIPLE LAYERS ARE REQUIRED TO ATTAIN 42" — SSF —— Construction Specifications 1. Fencing shall be 42" in height and constructed in accordance with the latest Maryland State Highway Details for Chain Link Fencing. The specification

DETAIL 33 - SUPER SILT FENCE

for a 6' fence shall be used, substituting 42" fabric and 6' length 2. Chain link fence shall be fastened securely to the fence posts with wire ties.

required except on the ends of the fence. 3. Filter cloth shall be fastened securely to the chain link fence with ties spaced

The lower tension wire, brace and truss rods, drive anchors and post caps are not

every 24" at the top and mid section.

4. Filter cloth shall be embedded a minimum of 8" into the ground.

5. When two sections of filter cloth adjoin each other, they shall be overlapped by 6" and folded. 6. Maintenance shall be performed as needed and silt buildups removed when "bulges'

develop in the silt fence, or when silt reaches 50% of fence height 7. Filter cloth shall be fastened securely to each fence post with wire ties or

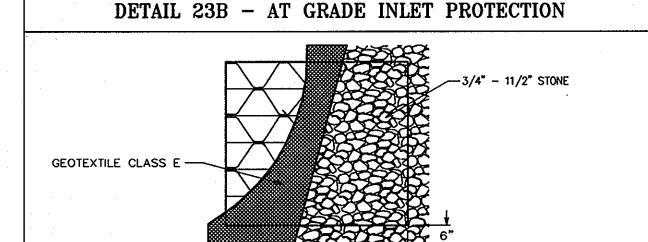
staples at top and mid section and shall meet the following requirements for Geotextile Class F: Tensile Strength Test: MSMT 509 50 lbs/in (min.)

Tensile Modulus 20 lbs/in (min.) Flow Rate Filtering Efficiency 75% (min.)

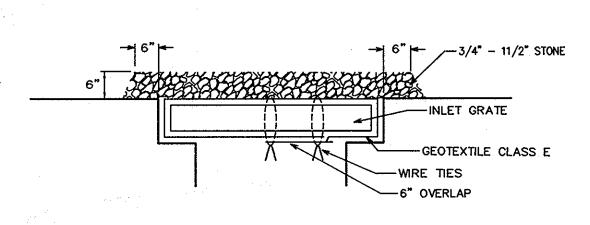
Test: MSMT 509 0.3 gal/ft /minute (max.) Test: MSMT 322 Test: MSMT 322

U.S. DEPARTMENT OF AGRICULTURE MARYLAND DEPARTMENT OF ENVIRONMENT SOIL CONSERVATION SERVICE WATER MANAGEMENT ADMINISTRATION

DETAIL 1 - EARTH DIKE



PLAN/CUT AWAY VIEW



STANDARD SYMBOL AGIP

CROSS SECTION MAX. DRAINAGE AREA = 1/4 ACRE

Construction Specifications

1. Lift grate and wrap with Geotextile Class E to completely cover all openings, then set grate back in place.

2. Place 3/4" to 11/2" stone, 4"-6" thick on the grate to secure the fabric and provide additional filtration.

U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE

B - 16 - 5A

MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

b 2:1 SLOPE OR FLATTER 2:1 SLOPE OR FLATTER - EXCAVATE TO PROVIDE REQUIRED FLOW WIDTH AT DESIGN FLOW DEPTH CUT OR FILL -DIKE A a-DIKE HEIGHT POSITIVE DRAINAGE SUFFICIENT TO DRAIN 36" 6-DIKE WIDTH 6' 24 d-FLOW DEPTH CUT OR FILL SLOPE PLAN VIEW STANDARD SYMBOL A-2 B-3 ------FLOW CHANNEL STABILIZATION GRADE 0.5% MIN. 10% MAX. 1. Seed and cover with straw mulch. 2. Seed and cover with Erosion Control Matting or line with sod

3. 4" - 7" stone or recycled concrete equivalent pressed into the soil 7" minimum

Construction Specifications

1. All temporary earth dikes shall have uninterrupted positive grade to an outlet. Spot elevations may be necessary for grades less than 1%.

2. Runoff diverted from a disturbed area shall be conveyed to a sediment trapping device. 3. Runoff diverted from an undisturbed area shall outlet directly into an

undisturbed, stabilized area at a non-erosive velocity. 4. All trees, brush, stumps, obstructions, and other objectional material

functioning of the dike. 5. The dike shall be excavated or shaped to line, grade and cross section as required to meet the criteria specified herein and be free of bank projections

shall be removed and disposed of so as not to interfere with the proper

or other irregularities which will impede normal flow. 6. Fill shall be compacted by earth moving equipment.

7. All earth removed and not needed for construction shall be placed so that it will not interfere with the functioning of the dike.

8. Inspection and maintenance must be provided periodically and after each rain event.

U.S. DEPARTMENT OF AGRICULTURE MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION A - 1 - 6

SOIL CONSERVATION SERVICE

These Plans for small pond construction, soil erosion and sediment control meet the requirements of the Howard Soil Conservation

construction, soil erosion and sediment control.

These plans have been reviewed for the Howard Soil Conservation

HOWARD COUNTY, MARYLAND

District and meet the technical requirements for small pond

COUNTY FILE # F 03-090

G. L. W. FILE No. ZONING

SEDIMENT CONTROL DETAILS MAPLE LAWN FARMS Midtown District - Area 1 Lots 1 thru 120, Open Space Lots 121 thru 127, Common Open Areas 128 thru 132 and Parcels 'A', 'B' & 'C'

PREPARED FOR:

SCALE NO SCALE DATE TAX MAP - GRID SHEET

F-03.90

GLW GUTSCHICK LITTLE &WEBER, P.A CIVIL ENGINEERS, LAND SURVEYORS, LAND PLANNERS, LANDSCAPE ARCHITECTS 3909 NATIONAL DRIVE - SUITE 250 - BURTONSVILLE OFFICE PARK BURTONSVILLE, MARYLAND 20866 TEL: 301-421-4024 BALT: 410-880-1820 DC/VA: 301-989-2524 FAX: 301-421-4186

DES. DEV DRN. JAU CHK. DEV

DATE

Figure 4 Incremental Stabilization - Cut

c. Perform phase 2 excavation, dress, and stabilize. Overseed phase 1 areas as necessary. d. Perform final phase excavation, dress, and stabilize. Overseed previously seeded areas as Note: Once excavation has begun the operation should be continuous from grubbing through the completion of grading and placement of topsoil (if required) and permanent seed and mulch. Any interruptions in the operation or completing the operation out of the seeding season will necessitate the application of temporary stabilization. - EXISTING GROUND -

REVISION

FINAL PHASE FMRANCHER

SIDE DITCH (FIRST DROER OF Figure 5 Incremental Stabilization - Fill

J. Incremental Stabilization of Embankments - Fill Slopes

manner to a sediment trapping device.

application of temporary stabilization.

APP'R.

BY

iv. Construction sequence: Refer to Figure 4 (below).

i. Embankments shall be constructed in lifts as prescribed on the plans.

when the grading operation ceases as prescribed in the plans.

other methods shown on the plans address this area.

b. Place phase I embankment, dress and stabilize.

c. Place phase 2 embankment, dress and stabilize.

ii. Stopes shall be stabilized immediately when the vertical height of the multiple lifts reaches 15', or

iii. At the end of each day, temporary berms and pipe slope drains should be constructed along the top

edge of the embankment to intercept surface runoff and convey it down the slope in a non-erosive

a. Excavate and stabilize all temporary swales, side ditches, or berms that will be used to divert

d. Place final phase embankment, dress and stabilize. Overseed previously seeded areas as

Note: Once the placement of fill has begun the operation should be continuous from grubbing through the

completion of grading and placement of topsoil (if required) and permanent seed and mulch. Any

interruptions in the operation or completing the operation out of the seeding season will necessitate the

runoff around the fill. Construct Slope Silt Fence on low side of fill as shown in Figure 5. unless

G-20-7

G & R MAPLE LAWN INC., et. al. SUITE 410 WOODHOLME CTR. 1829 REISTERSTOWN ROAD BALTIMORE, MD. 21208 ATTN: CHARLIE O'DONOVAN

410-484-8400

LOPE SILT FENCE EE DETALL (F)RST CROER OF

ELECTION DISTRICT No. 5

P. 121 (L. 4213 F. 95), P. 450 (L. 1908 F. 623), P. 205 (L. 894 F. 596)

46: 3 & 4

41: 21 & 22

These plans have been reviewed for the Howard Soil Conservation District and meet the technical requirements for small pond construction, soil erosion and sediment control.

Natural/Resources Conservation Service

control meet the requirements of the Howard Soil Conservation

These Plans for small pond construction, soil erosion and sediment

DEVELOPER'S/BUILDER'S CERTIFICATE

"I/We certify that all development and/or construction will be done according to these plans, and that any responsible personnel involved in the construction project will have a Certificate of Attendance at a Maryland Department of the Environment Approved Training Program for the Control of Sediment and Erosion before beginning the project. I shall engage a registered Professional Engineer to supervise pond construction and provide the Howard Soil Conservation District with an "as-built" plan of the pond within 30 days of completion. I also authorize periodic on-site inspections by the Howard Soil Conservation District.

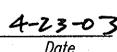
Signature of Developer/Builder

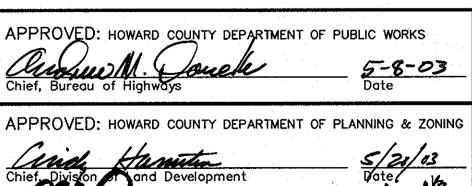
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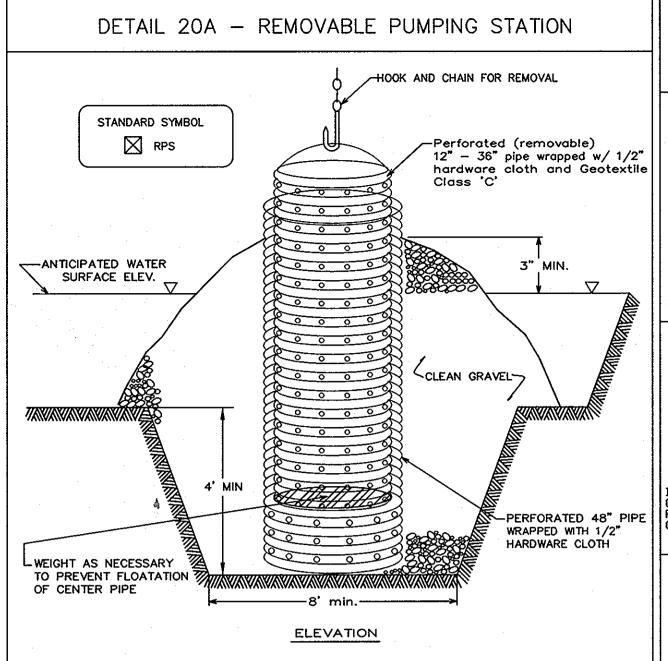
ENGINEER'S CERTIFICATE

"I certify that this plan for pond construction, erosion and sediment control represents a practical and workable plan based on my personal knowledge of the site conditions. This plan was prepared in accordance with the requirements of the Howard Soil Conservation District. I have notified the developer that he/she must engage a registered professional engineer to supervise pond construction and provide the Howard Soil Conservation District with an "as-built" plan of the pond within 30 days of completion."









Construction Specifications

1. The outer pipe should be 48" dia. or shall, in any case, be at least 4" greater in diameter than the center pipe. The outer pipe shall be wrapped with 1/2" hardware cloth to prevent backfill material from entering the perforations. 2. After installing the outer pipe, backfill around outer pipe with 2" aggregate

3. The inside stand pipe (center pipe) should be constructed by perforating a corrugated or PVC pipe between 12" and 36" in diameter. The perforations shall be 1/2" X 6" slits or 1" diameter holes 6" on center. The center pipe shall be wrapped with 1/2" hardware cloth first, then wrapped again with Geotextile Class C 4. The center pipe should extend 12" to 18" above the anticipated water surface elevation or riser crest elevation when dewatering a basin.

U.S. DEPARTMENT OF FAGRICULTURE SOIL CONSERVATION SERVICE

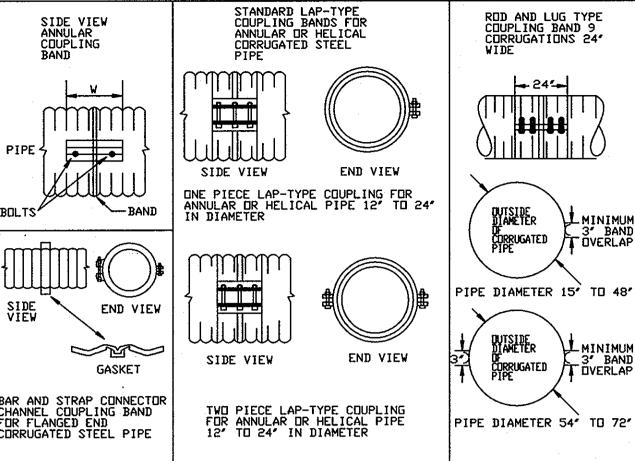
MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

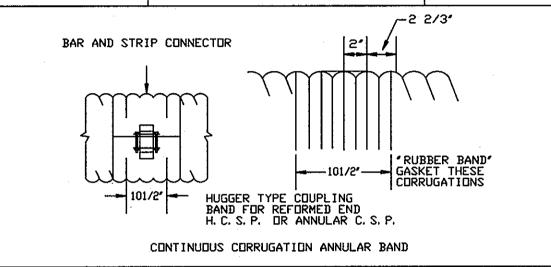
STANDARD SYMBOL

 $\frac{A-2}{B-3}$

WATER MANAGEMENT ADMINISTRATION

DETAIL 17 - TYPES OF COUPLERS FOR CORRUGATED STEEL PIPE (ALL CONNECTOR BANDS REQUIRE NEOPRENE GASKETS)



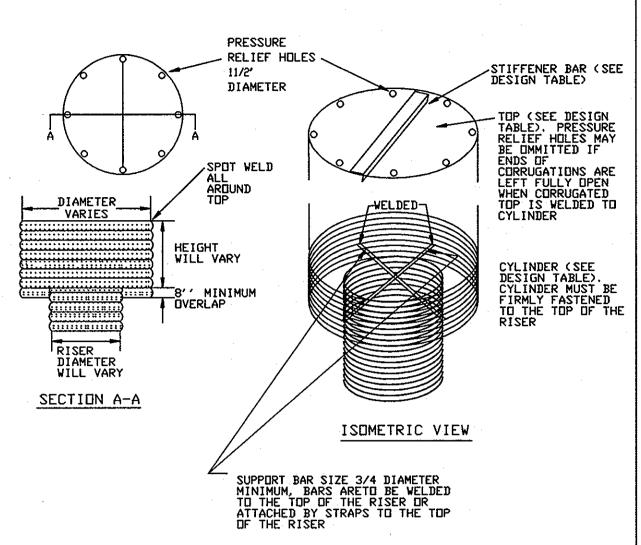


NOTE: UNDER NO CIRCUMSTANCES WILL THE DIMPLE (UNIVERSAL) CONNECTOR BAND BE ACCEPTABLE FOR USE IN ANY SEDIMENT CONTROL OR STORMWATER MANAGEMENT STRUCTURE

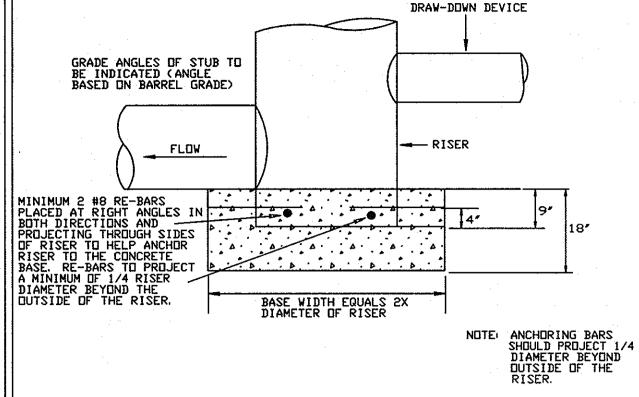
U.S. DEPARTMENT OF AGRICULTURE MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION SDIL CONSERVATION SERVICE

DETAIL 5 - RIP-RAP INFLOW PROTECTION

DETAIL 16 - CONCENTRIC TRASH RACK AND ANTI-VORTEX DEVICE



DETAIL 15 - RISER BASE DETAIL



Construction Specifications

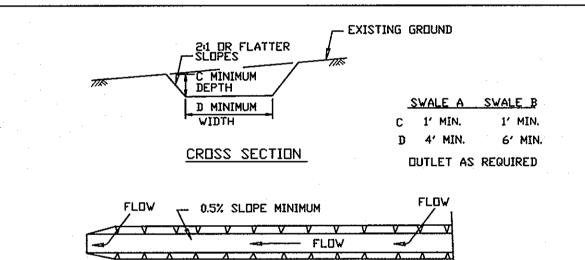
- The riser shall have a base attached with a watertight connection and shall have sufficient weight to prevent flotation of the riser. Two approved bases for risers 10° or less in height are:
- 1. A concrete base 18' thick with the riser embedded 9' in the base.
- 2. A 1/4' minimum thickness steel plate attached to the riser by a continuous weld around the circumference of the riser to form a watertight connection. The plate shall have 2' of stone, gravel, or compacted earth placed on it to prevent flotation. In either case, each side of the square base shall be twice the riser diameter.
- Note: For risers greater than ten feet high computations shall be made to design a base which will prevent floatation. The minimum factor of safety shall b 1.20 (downward forces = 1.20 x upward forces).

MARYLAND DEPARTMENT OF ENVIRONMENT U.S. DEPARTMENT OF AGRICULTURE

SDIL CONSERVATION SERVICE

MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

DETAIL 2 - TEMPORARY SWALE



DRAINAGE AREA & 10 ac (MAX) SLOPE = 10% (MAX)

SDIL CONSERVATION SERVICE

FLOW CHANNEL STABILIZATION GRADE 0.5% MIN. 10% MAX.

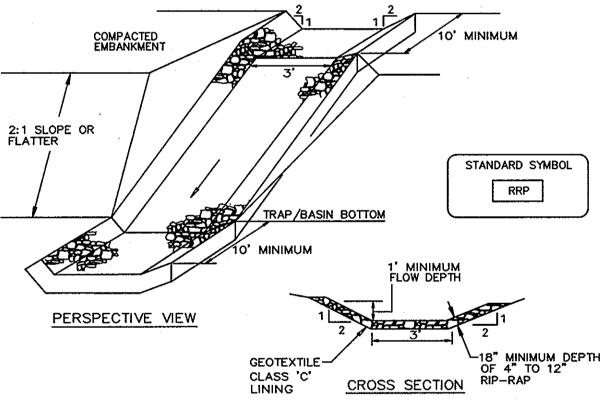
1. Seed and cover with straw mulch. 2. Seed and cover with Erosion Control Matting or line with sod. 3. 4'-7' stone or recycled concrete equivalent pressed into soil in a minimum 7" laver.

PLAN VIEW

Construction Specifications

- 1. All temporary swales shall have uninterrupted positive grade to an outlet. Spot elevations may be necessary for grades less than 1%.
- 2. Runoff diverted from a disturbed area shall be conveyed to a sediment trapping device.
- 3. Runoff diverted from an undisturbed area shall outlet directly into an undisturbed stabilized area at a non-erosive velocity.
- 4. All trees, brush, stumps, obstructions, and other objectional material shall be removed and disposed of so as not to interfere with the proper functioning of the swale.
- 5. The swale shall be excavated or shaped to line, grade and cross section as required to meet the criteria specified herein and be free of bank projections or other irregularities which will impede normal flow.
- 6. Fill, If necessary, shall be compacted by earth moving equipment.
- 7. All earth removed and not needed for construction shall be placed so that it will not interfere with the functioning of the swale.
- 8. Inspection and maintenance must be provided periodically and after

each rain event. MARYLAND DEPARTMENT OF ENVIRONMENT U.S. DEPARTMENT OF AGRICULTURE



Construction Specifications

- 1. Rip—rap lined inflow channels shall be 1' in depth, have a trapezoidal cross section with 2:1 or flatter side slopes and 3' (min.) bottom width. The channel shall be lined with 4" to 12" rip— rap to a depth of 18".
- 2. Filter cloth shall be installed under all rip-rap. Filter cloth shall be Geotextile Class C.
- 3. Entrance and exit sections shall be installed as shown on the detail
- 4. Rip-rap used for the lining may be recycled for permanent outlet protection if the basin is to be converted to a stormwater management
- 5. Gabion Inflow Protection may be used in lieu of Rip-rap Inflow Protection.
- 6. Rip-rap should blend into existing ground.
- 7. Rip-rap Inflow Protection shall be used where the slope is between 4:1 and 10:1, for slopes flatter than 10:1 use Earth Dike or Temporary Swale lining criteria.

U.S. DEPARTMENT OF AGRICULTURE MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION SOIL CONSERVATION SERVICE B - 6 - 2

DETAIL 6 - GABION INFLOW PROTECTION

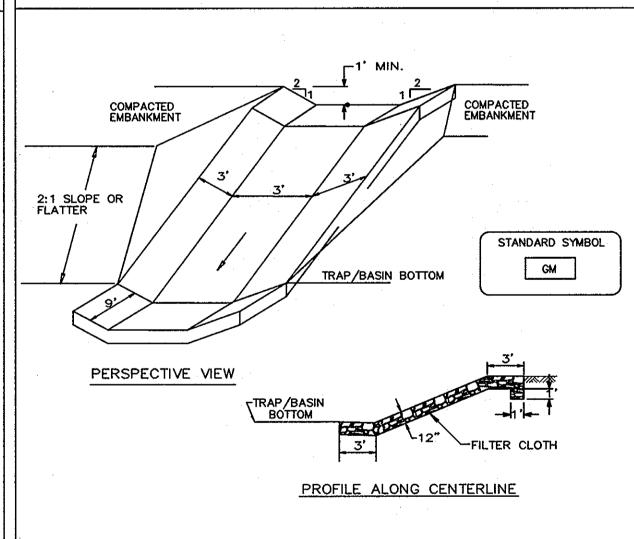
C - 10 - 26

WATER MANAGEMENT ADMINISTRATION

WATER MANAGEMENT ADMINISTRATION

U.S. DEPARTMENT OF AGRICULTURE

SOIL CONSERVATION SERVICE



Construction Specifications

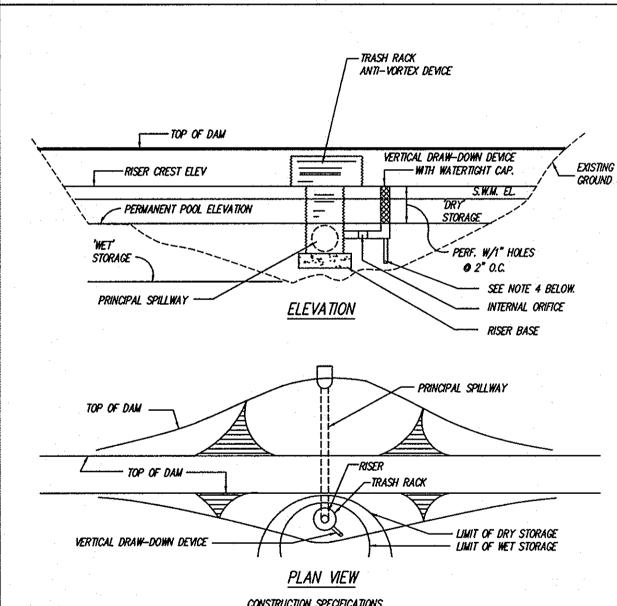
- 1. Gabion inflow protection shall be constructed of 9' x 3' x 9" gabion baskets forming a trapezoidal cross section 1' deep, with 2:1 side slopes, and a 3' bottom width.
- 2. Geotextile Class C shall be installed under all gabion baskets.
- 3. The stone used to fill the gabion baskets shall be 4" 7".

SOIL CONSERVATION SERVICE

- 4. Gabions shall be installed in accordance with manufacturers recommendations.
- 5. Gabion Inflow Protection shall be used where concentrated flow is present on slopes steeper than 4:1.

MARYLAND DEPARTMENT OF ENVIRONMENT U.S. DEPARTMENT OF AGRICULTURE

BASIN DRAWDOWN SCHEMATIC VERTICAL DRAWDOWN DEVICE



CONSTRUCTION SPECIFICATIONS

- 1. Perforations in the draw-down device may not extend into the wet storage 2. The total area of the perforations must be greater than 4 times the area of the internel orifice.
- 3. The perforated portion of the draw-down device shall be wrapped with 1/2" hardware cloth and geotextile fabric. The geotextile fabric shall meet the specifications for Geotextile Class E.
- 4. Provide support of draw-down device to prevent sagging and floatation. An acceptable preventative measure is to stake both sides of draw-down device with 1" steel angle, or 1' by 4" square or 2" round wodden posts set 3' minimum into the ground then joining them to the device by wrapping with 12 guage minimum wire.

U.S. DEPARTMENT OF AGRICULTURE SDIL CONSERVATION SERVICE

HOWARD COUNTY, MARYLAND

MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

CIVIL ENGINEERS, LAND SURVEYORS, LAND PLANNERS, LANDSCAPE ARCHITECTS 3909 NATIONAL DRIVE - SUITE 250 - BURTONSVILLE OFFICE PARK BURTONSVILLE, MARYLAND 20866

GLWGUTSCHICK LITTLE & WEBER, P.A. TEL: 301-421-4024 BALT: 410-880-1820 DC/VA: 301-989-2524 FAX: 301-421-4186 DES. DEV DRN. AWL CHK. DEV 02001\finals\ph2scd19.dwg

REVISION

PREPARED FOR: G & R Maple Lawn, Inc., et. al. Suite 410. Woodholme Center 1829 Reisterstown Road Baltimore, MD. 21208 Attn: Charlie O'Donovan 410-484-8400

SEDIMENT CONTROL DETAILS MAPLE LAWN FARMS Midtown District - Area 1 Lots 1 thru 120. Open Space Lots 121 thru 127. Common Open Areas 128 thru 132 and Parcels 'A", 'B' & 'C'
P. 121 (L. 4213 F. 95), P. 450 (L. 1908 F. 623), P. 205 (L. 894 F. 596) ELECTION DISTRICT No. 5

COUNTY FILE #F 03-090 SCALE G. L. W. FILE No. ZONING 02001 NO SCALE MXD-3DATE TAX MAP - GRID SHEET 41: 21 & 22 80F19 APR., 2003

46: 3 & 4

- 2. All vegetative and structural practices are to be installed according to the provisions of this plan and are to be in conformance with the 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL FROSION AND
- 3. Following initial soil disturbance or redisturbance. permonent or temporary stabilization shall be completed within: a) 7 calendar days for all perimeter sediment control structures, dikes and perimeter slopes and all slopes greater than 3:1. b) 14 days as to all other disturbed or araded areas on the project site.
- 4. 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 Drainaae.
- 5. 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. 51), sod (Sec. 54), temporary seedings (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.
- 6. 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.

7. Site Analysis:

SEDIMENT CONTROL.

37.43 Acres Total Area of Site (Phase 2) 75.20 Acres Area Disturbed 5.0 Acres Area to be roofed or paved 70.20 Acres Area to be vegetatively stabilized : Total Cut 571.000 Cu. Yds. Total Fill 487.000 Cu. Yds.

Off-site waste/borrow area location: 84,000 Cu. Yds. going to on-site area on east side of stream (see SDP 03-140) 8. Any sediment control practice which is disturbed by grading activity for placement of utilities must be repaired on the same day of disturbance.

9. Additional sediment control must be provided, if deemed necessary by the Howard County DPW Sediment Control Inspector.

- 10. 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.
- 11. Trenches for the construction of utilities is limited to 3 pipe lengths or that which shall be backfilled and stabilized within one working day whichever is shorter.

PERMANENT SEEDING NOTES

Apply to graded or cleared area not subject to immediate further disturbance where a permanent long-lived vegetative cover is

Seedbed Preparation: Loosen upper three inches of soil by raking, discing or other acceptable means before seeding (unless previously loosened).

Soil Amendments: In lieu of soil test recommendations, use one of the following schedules

- 1) Preferred Apply 2 tons per acre dolomitic limestone (92 lbs/1000 square feet) and 600 lbs per acre 10-10-10 fertilizer (14 lbs/1000 sa ft) before seeding. Harrow or disc into upper three inches of soil. At time of seeding, apply 400 lbs per acre 30-0-0 unreaform fertilizer (9 lbs/1000 sq ft).
- 2) 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 disc into upper three inches of soil.

Seeding: For the 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 (.05 lbs/1000 sa 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 Ibs/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 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.

Seedbed Preparation: Loosen upper three inches of soil by raking, discina or other acceptable means before seeding (unless 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 November 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 (.07 lbs/1000 sq ft). For the period November 16 thru February 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 small arain 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 ft or higher, use 348 gal per acre (8 aal/1000 sa ft) for anchoring.

Refer to the 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL for rate and methods not covered.

STANDARD AND SPECIFICATIONS FOR TOPSOIL DEFINITION

Placement of topsoil over a prepared subsoil prior to establishment of permanent vegetation.

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

- I. This practice is limited to areas having 2:1 or flatter slopes
- a. The texture of the exposed subsoil/parent material is not
- adequate to produce vegetative growth. b. The soil material is so shallow that the rooting zone is not deep enough to support plants or furnish continuing
- supplied of moisture and plant nutrients. c. The original soil to be vegetated contains material toxic
- to plant growth. d. The soil is so acidic that treatment with limestone is
- not feasible. II. 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

I. 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 respective soil profile section in the Soil Survey published by USDA-SCS in cooperation with Maryland Agricultural Experimental

- Topsoil shall be a loam, sandy loam, clay loam, silt loam, sandy clay loam, loamy sand. Other soils may be used if recommended by a agronomist or soil scientist and approved by the appropriate approval authority. Regardless, topsoil shall not be a mixture of contrasting textured 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.
- ii. Topsoil must be free of plant parts such as bermuda grass, quackgrass, Johnsongrass, nutsedge, poison ivy, thistle, or others as specified.
- iii. Where the subsoil is either highly acidic or composed of heavy clays, ground limestone shall be spread at the rate if 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.
- II. For sites having disturbed areas under 5 acres: i. Place topsoil (if required) and apply soil amendments as
- specified in 20.0 Vegetative Stabilization Section 1 -Vegetative Stabilization Methods and Materials.
- III. For sites having disturbed areas over 5 acres: i. On soil meeting Topsoil specifications, obtain test
- results dictating fertilizer and lime amendments required to bring the soil into compliance with the following: a. pH for topsoil shall be between 6.0 and 7.5. If
- the tested soil demonstrates a pH of less than 6.0, sufficient lime shall be prescribed to raise the pH to 6.5 or higher
- Organic content of topsoil shall be not less than 5 percent by weight.
- Topsoil having soluble salt greater than 500 parts per mill shall not be used.
- d. No sod or seed shall be placed on soil which has been with soil sterilants or chemicals used for weed control until sufficient time has elapsed (14 days min.) to permit dissipation of photo-toxic
- 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.
- ii. Place topsoil (if required) and apply soil amendments as specified in 2.0 Vegetative Stabilization - Section / -Vegetative Stabilization Methods and Materials.

V. Topsoil Application

- When topsoilling, maintain needed erosion and sediment control practices such as diversion, Grade Stabilization Structures, Earth Dikes, Slope Silt Fence and Sediment Traps and Basins.
- ii. Grades on the areas to be topsoiled, which have been previously established, shall be maintained, albeit 4" -8" higher in elevation.
- iii. Topsoil shall be uniformly distributed in a 4'-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 topsoilling or other operations shall be corrected in order to prevent the formation of depressions or water
- iv. Topsoil shall not be placed while the topsoil or subsoil is 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.
- VI. 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 disturbed areas under 5 acres shall conform to the following requirements:
- a. Composted sludge shall be supplied by, or originate from, a person or persons that are permitted (at the time of acquisition of the compost) by the Maryland Department of the Environment under COMAR

- b. Composted sludge shall contain at least 1 percent nitrogen, 1.5 percent phosphorus, 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
- c. Composted sludge shall be applied at a rate of 1 ton/1.000 square feet.
- iv. Composted sludge shall be amended with a potassium fertilizer applied at a rate of 4lb/1.000 square feet. and 1/3 the normal lime application rate.

Guideline Specifications, Soil Preparation and Sodding. MD-VA Pub. #1 , Cooperative Extension Service, University of Maryland and Virginia Polytechnic Institutes. Revised 1973.

DUST CONTROL

Controlling dust blowing and movement on construction sites and roads.

To prevent blowing and movement of dust from exposes soil surfaces, reduce on and off-site damage, health hazards, and improve traffic safety.

Conditions Where Practice Applies

This practice is applicable to areas subject to dust blowing and movements where on and off-site damage is likely without treatment.

Specifications

- 1. Mulches See standards for vegetative stabilization with mulches only. Mulch should be crimped or tacked to prevent blowing
- 2. Vegetative Cover See standards for temporary vegetative cover.
- 3. 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 spaces about 12" apart, spring-toothed harrows, and similar plows are examples of equipment which may produce the
- 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, burlap fences, straw bales, and similar material can be used to control air currents and soil blowing. Barriers placed at right angles to prevailing currents at intervals of about 10 times their height are effective in controlling soil blowing.
- 6. Calcium Chloride Apply at rates that will keep surface moist. May need

Permanent Methods

Temporary Methods

- 1. Permanent Vegetation See standards for permanent vegetative cover, and permanent stabilization with sod. Existing trees or large shrubs may afford valuable protection if left in place.
- 2. Topsoiling Covering with less erosive soil materials. See standards for
- 3. Stone Cover surface with crushed stone or coarse gravel

Construction Specifications

1. Site Preparation: Parimeter sediment control devices must be installed prior to clearing and grubbing. Areas where the embankment is to be placed shall be cleared, grubbed, and stripped o topsoil to remove trees, vegetation, roots or other objectionable material. The pool area shall not be cleared until completion of the dam embankment unless the pool area is to be used for borrow. I order to facilitate clean-out and restoration, the pool area (measured at the top of the pipe spillway) shall be cleared of all brush, trees, and other objectionable materials.

2. Cut-off Treuch: A cut-off trench shall be excavated along the centerline of earth fill embankments The minimum depth shall be four feet. The cut-off trench shall extend up both abutments to the rise; crest elevation. The minimum bottom width shall be two feet, but wide enough to permit operation of excavation and compaction equipment. The side slopes shall be no steeper than 1:1. Compaction requirements shall be the same as those for the embankment. The trench shall be dewatered during the backfilling-compaction operations. For dewatering see Section D.

3. Embankment: The fill material shall be taken from approved areas shown on the plans. It shall be clean mineral soil free of roots, woody vegetation, oversized stones, rocks, or other objectionable material. Relatively pervious materials such as sand or gravel (Unified Soil Classes GW, GP, SW & SP) or organic materials (Unified Soil Classes OL and OH) shall not be placed in the embankment. Areas on which fill is to be placed shall be scarified prior to placement of fill. The fill material shall contain sufficient moisture so that it can be formed by hand into a ball without crumbling. If water can be squeezed out of the ball, it is too wet for proper compaction. Fill material shall be placed in six-inch to eight-inch thick continuous lifts over the entire length of the fill. Compaction shall be obtained by routing and hauling the construction equipment over the fill so that the entire surface of each layer of the fill is traversed by at least one wheel or tread track of the equipment or by the use of a compactor. The embankment shall be constructed to an elevation 10 percent higher than the design height to allow for settlement.

4. Principal Spillway: Steel risers shall be securely attached to the barrel or barrel stub by welding the full circumference making a watertight structural connection. Concrete risers shall be poured with the principal spillway in place or precast with voids around the principal spillway filled with concrete or shrink proof grout for watertight connection. The barrel stub must be attached to the riser at the same percent (angle) of grade as the outlet conduit. The connection between the riser and the riser base shall be watertight. All connections between barrel sections must be achieved by approved watertight band assemblies. The barrel and riser shall be placed on a firm, smooth foundation of impervious soil as the embankment is constructed. Breaching the embankment to install the barrel is unacceptable. Pervious materials such as sand, gravel, or crushed stone shall not be used as backfill around the pipe or anti-seep collars. The fill material around the pipe spillway shall be placed in four inch lifts and hand compacted under and around the pipe to at least the same density as the adjacent embankment. A depth of 1.5 times the pipe diameter (min.) shall be backfilled over the principal spiliway and hand compacted before crossing it with construction equipment.

5. Emergency Spillway: The emergency spillway shall be installed in undisturbed ground. The achievement of planned elevations, grades, design width, entrance and exit channel slopes are critical to the successful operation of the emergency spillway and must be constructed within a tolerance of

6. Vegetative Treatment: Stabilize the embankment in accordance with the appropriate vegetative Standard and Specifications immediately following construction. In no case shall the embankment remain unstabilized for more than seven (7) days. Once constructed, the top and outside face of the conbankment shall be stabilized with seed and mulch. The remainder of the interior slopes should be stabilized (one time) with seed and mulch upon basin completion and monitored and maintained erosion free during the life of the basin.

7. Safety: Local requirements concerning fencing and signs shall be met, warning the public of hazards of soft sediment and floodwater.

8. Maintenance: Repair all damage coused by soil erosion and construction equipment at or before the end of each working day. Sediment shall be removed from the basin when it reaches the specified distance below the top of the riser as shown on the riser. This sediment shall be placed in such a manner that it will not erode from the site. The sediment shall not be deposited downstream from the embankment, adjacent to a stream or floodplain. Disposal areas must be stabilized.

9. Final Disposal: When temporary structures have served their intended purpose and the contributing drainage area has been properly stabilized, the embankment and resulting sediment deposits are to be leveled or otherwise disposed of in accordance with the approved sediment control plan. The proposed use of a sediment basin site will often dictate final disposition of the basin and any sediment contained therein. If the site is scheduled for future construction, then the basin material and trapped sediments must be removed and safely disposed of and the basin shall be backfilled with a structural fill. When the basis area is to remain open space, the pond may be pumped dry (using methods in Section D - Dewatering), graded, and back filled.

10. Conversion to Stormwater Management Structure: After permanent stabilization of all disturbed contributory drainage areas, temporary sediment basins, if initially built and certified to meet permanent standards, may be converted to permanent stormwater management structures. To convert the basin from temporary to permanent use, the outlet structure must be modified in accordance with approved stormwater management design plans. Additional grading may also be necessary to provide the required storage volume in the basin. Conversion can only take place after all disturbed areas have been flushed.

DEVELOPER'S /BUILDER'S CERTIFICATE

"I/We certify that all development and/or construction will be done according to these plans, and that any responsible personnel involved in the construction project will have a Certificate of Attendance at a Maryland Department of the Environment Approved Training Program for the Control of Sediment and Erosion before beginning the project. I shall engage a registered Professional Engineer to supervise pond construction and provide the Howard Soil Conservation District with an "as-built" plan of the pond within 30 days of completion. I also authorize periodic on-site inspections by the Howard Soil Conservation District.

Signature of Developer/Builder

4-22-03

ENGINEER'S CERTIFICATE

"I certify that this plan for pond construction, erosion and sediment control represents a practical and workable plan based on my personal knowledge of the site conditions. This plan was prepared in accordance with the requirements of the Howard Soil Conservation District. I have notified the developer that he/she must engage a registered professional engineer to supervise pond construction and provide the Howard Soil Conservation District with an "as-built" plan of the pond within 30 days of completion.

Engineer's Signature

4-23-03

These Plans for small pand construction, soil erosion and sediment control meet the requirements of the Howard Soil Conservation

These plans have been reviewed for the Howard Soil Conservation District and meet the technical requirements for small pond construction, soil erosion and sediment control.

9/29/03

COUNTY FILE # F 03-090

GLW GUTSCHICK LITTLE & WEBER, P.A. CIVIL ENGINEERS, LAND SURVEYORS, LAND PLANNERS, LANDSCAPE ARCHITECTS

APPROVED: HOWARD COUNTY DEPARTMENT/OF PUBLIC WORKS

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONIN

3909 NATIONAL DRIVE - SUITE 250 - BURTONSVILLE OFFICE PARK BURTONSVILLE, MARYLAND 20866 TEL: 301-421-4024 BALT: 410-880-1820 DC/VA: 301-989-2524 FAX: 301-421-4186 02001\ph2\FINALS\PH2SCD20.dwg

DES. DEV DRN. JAU CHK. DEV DATE

BY APP'R. REVISION

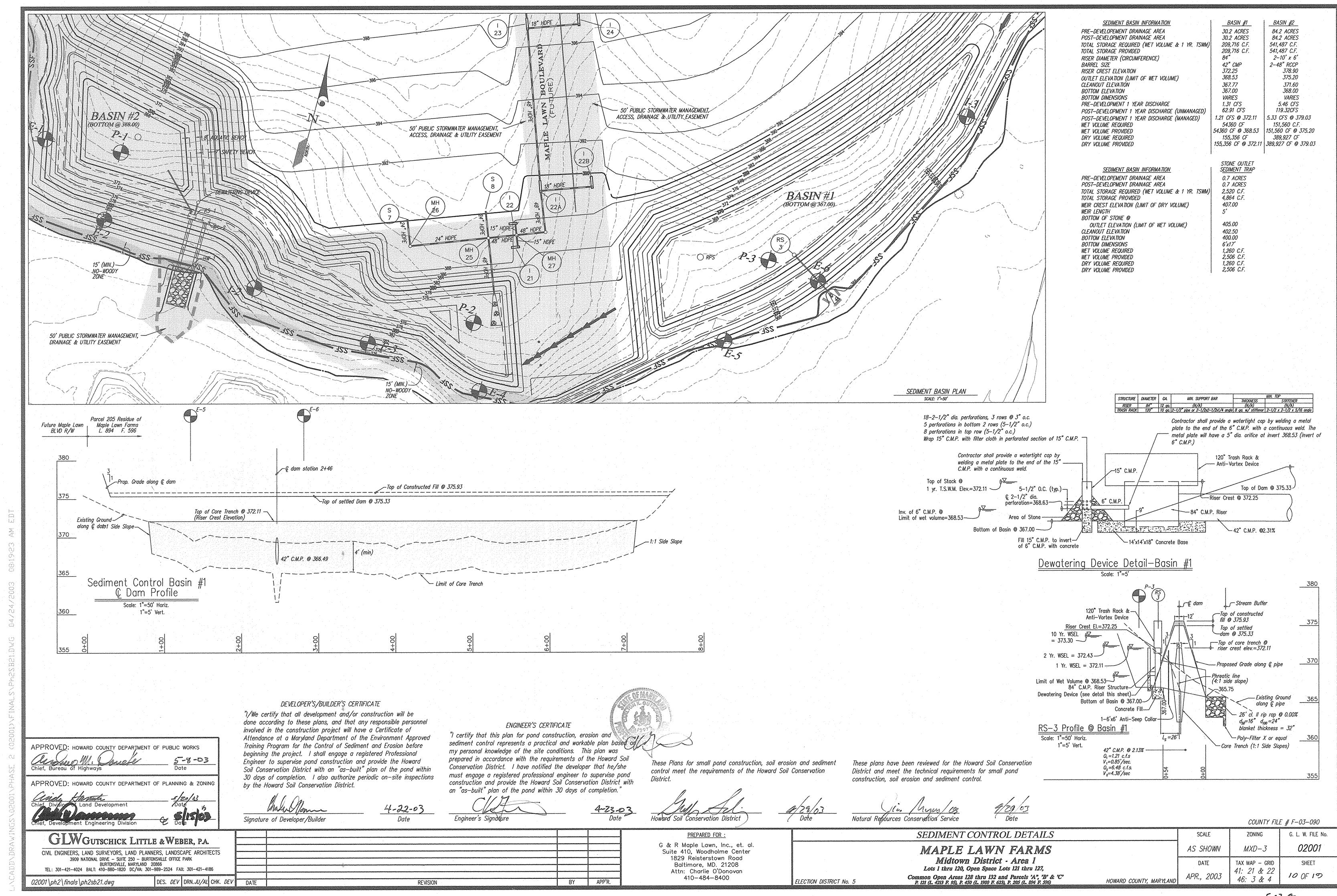
PREPARED FOR: G & R MAPLE LAWN INC., et. ol. SUITE 410 WOODHOLME CTR. 1829 REISTERSTOWN ROAD BALTIMORE, MD. 21208 ATTN: CHARLIE O'DONOVAN 410-484-8400

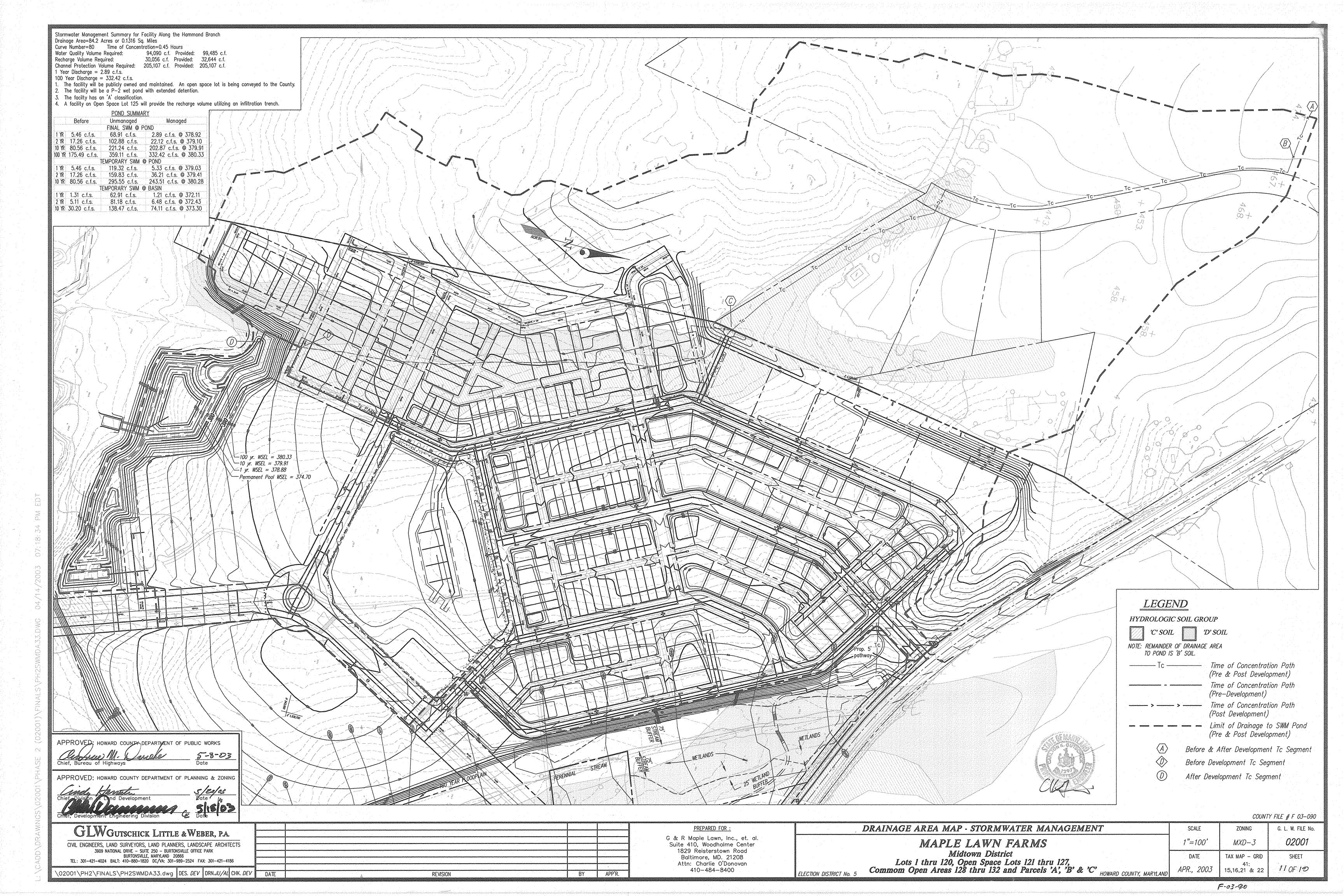
P. 121 (L. 4213 F. 95), P. 450 (L. 1908 F. 623), P. 205 (L. 894 F. 596) ELECTION DISTRICT No. 5

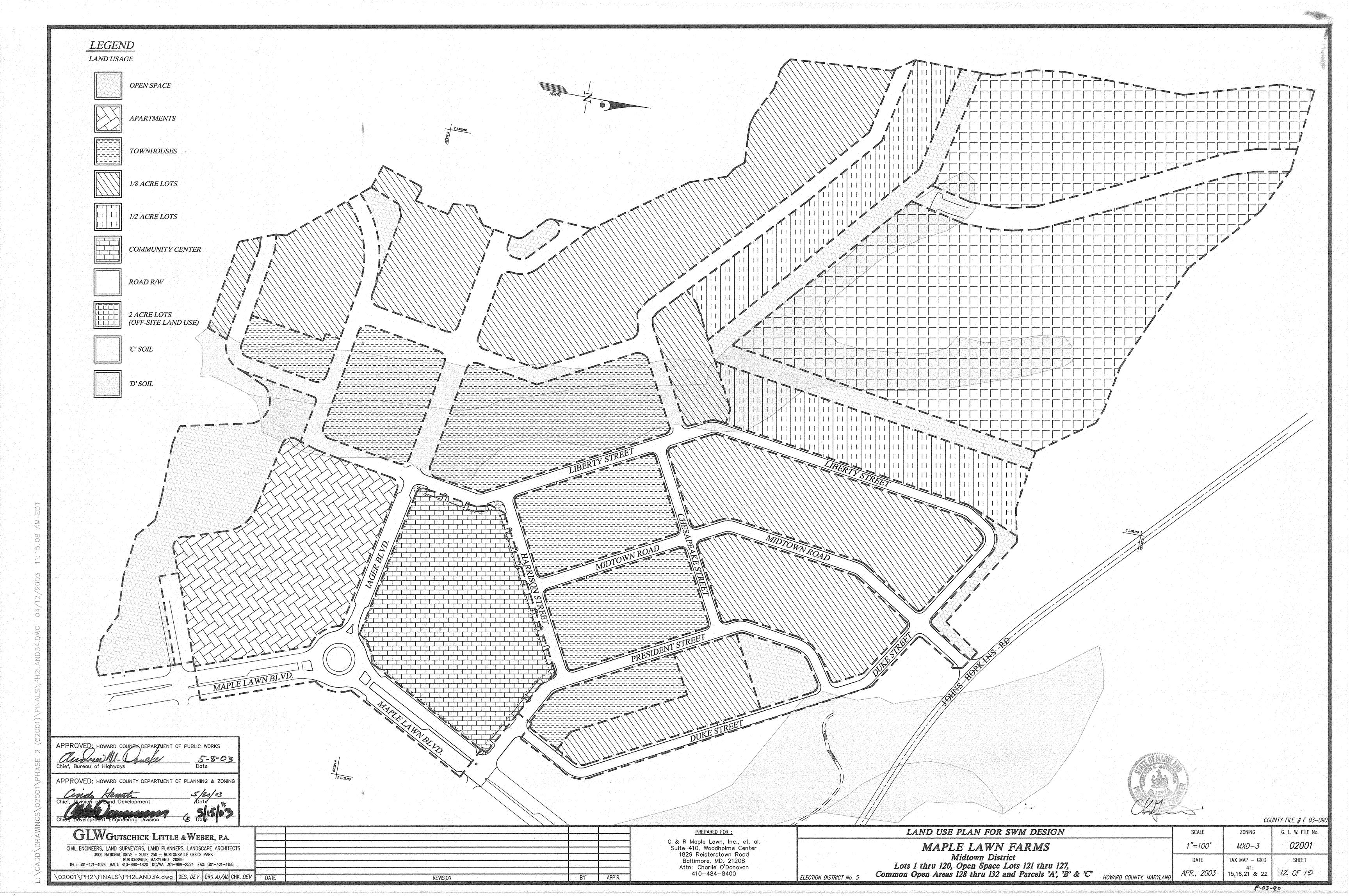
MAPLE LAWN FARMS Midtown District - Area 1 Lots 1 thru 120, Open Space Lots 121 thru 127, Common Open Areas 128 thru 132 and Parcels 'A'. 'B' & 'C'

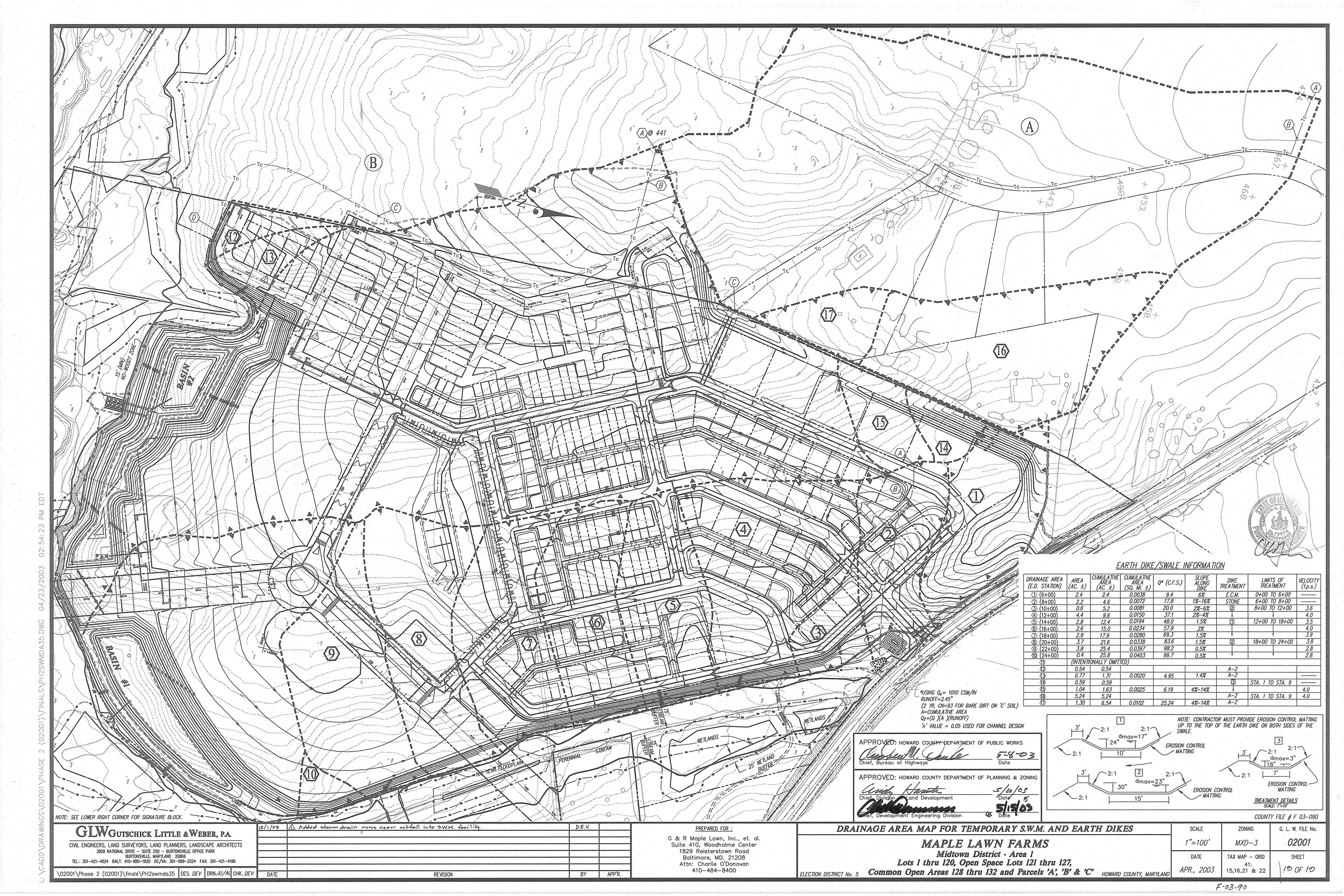
SEDIMENT CONTROL DETAILS

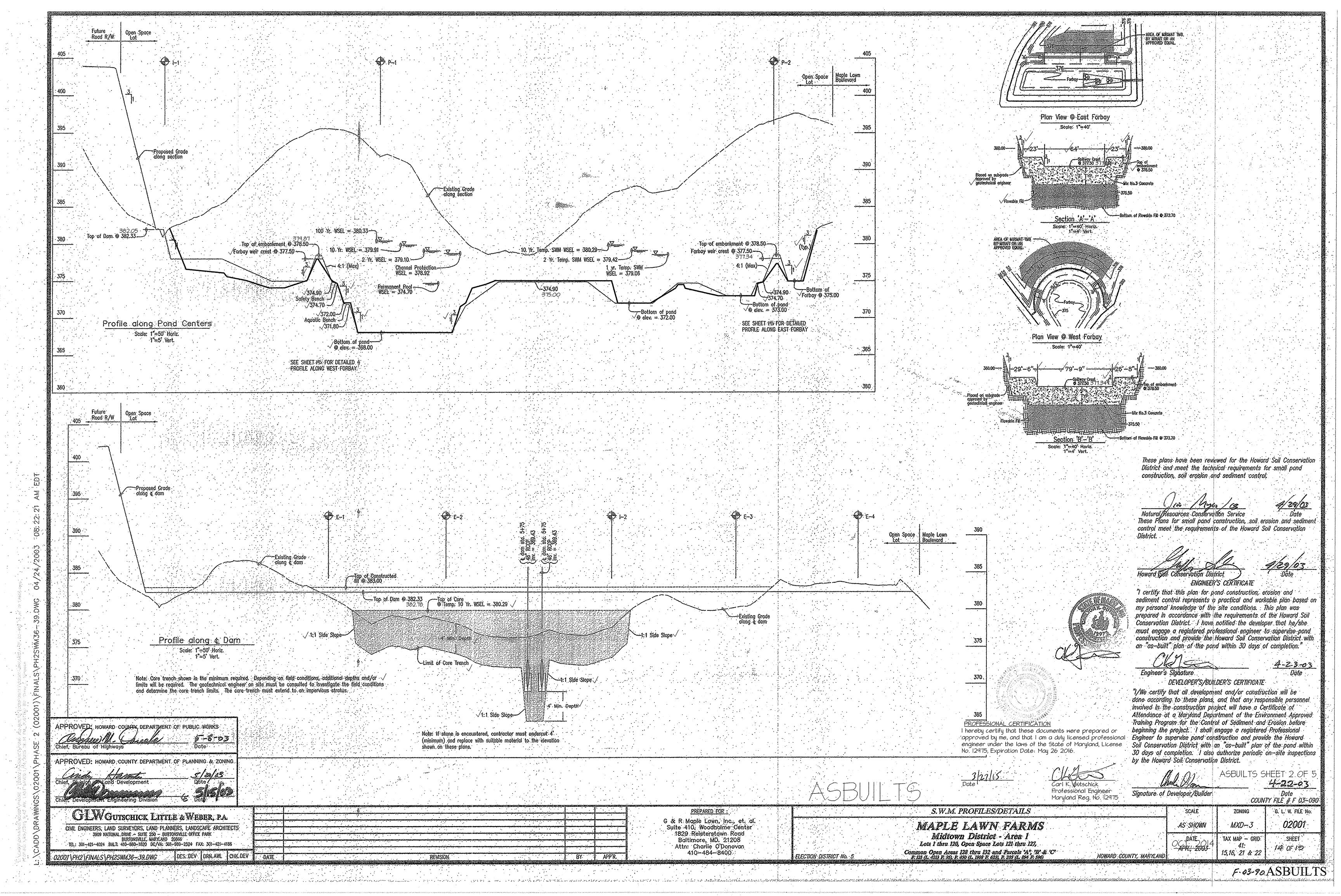
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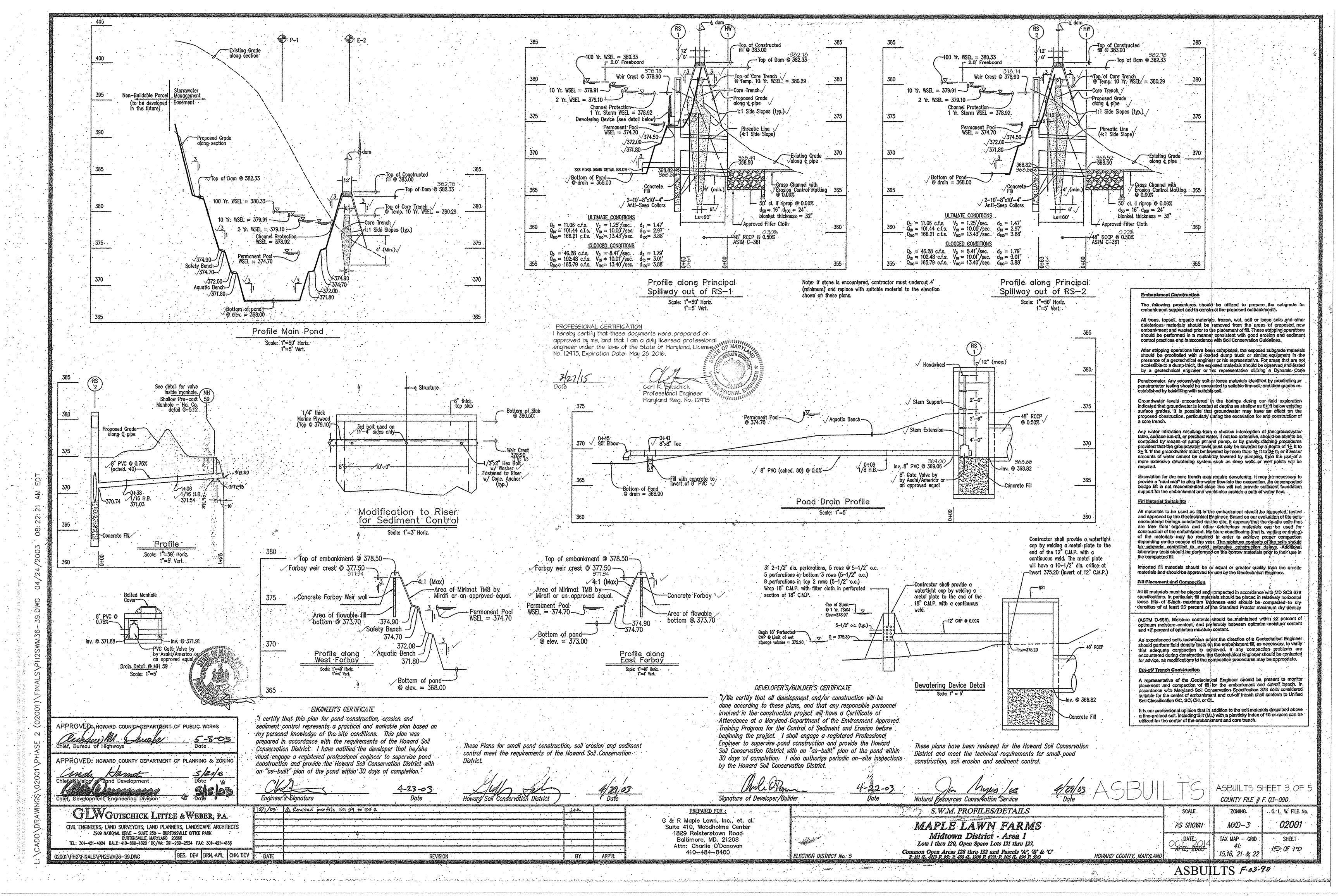


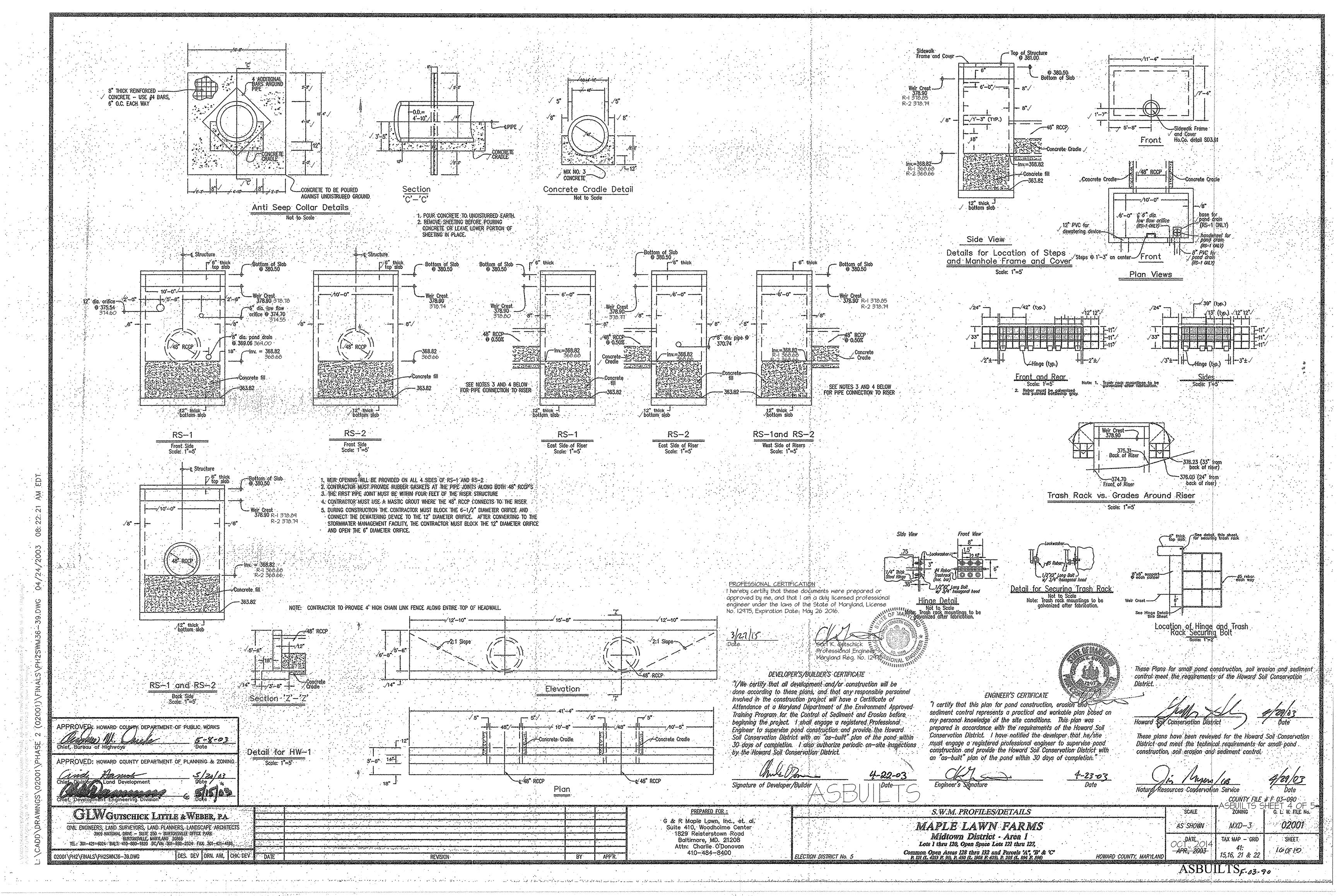


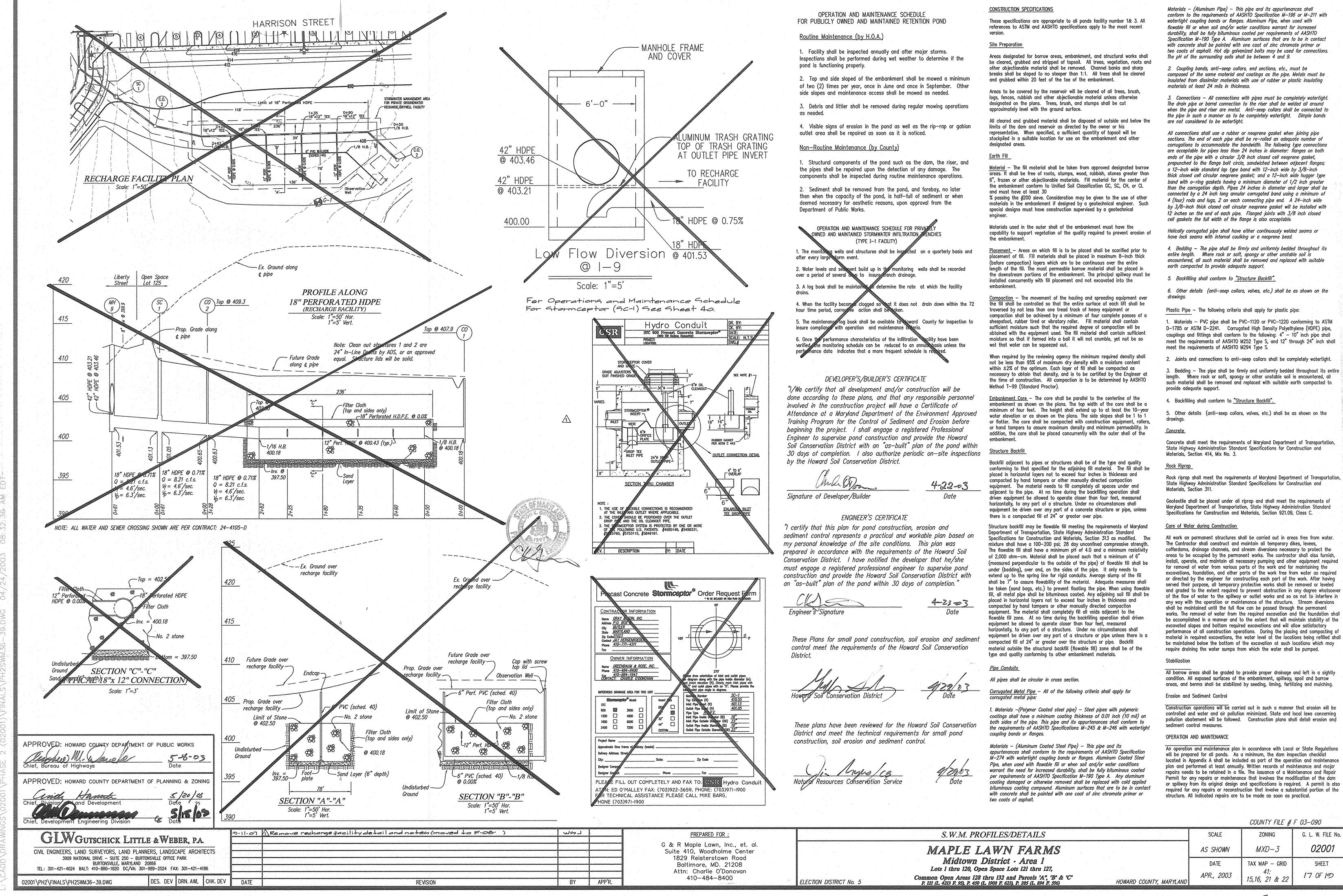












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ENGINEERING ASSOCIATES, INC. Page 1 of 1 RECORD OF SOIL EXPLORATION Boring Number 5-1 Boring Number 5-1	RECORD OF SOIL EXPLORATION roject Name Maple Lawn Farms - Midtown District Boring Number E-3 beatton Howard County, Maryland Job# 010558	ENGINEERING ASSOCIATES, INC. Page 1 of 1 RECORD OF SOIL EXPLORATION Project Name Maple Lawn Farms - Midtown District Boring Number E-4	ENGINEERING ASSOCIATES, INC. Page 1 of 1 RECORD OF SOIL EXPLORATION Page 1 of 1 Project Name Maple Lawn Farms - Midtown District Boring Number I-1 Project Name Maple Lawn Farms - Midtown	ENGINEERING ASSOCIATES, INC. Page 1 of 1 RECORD OF SOIL EXPLORATION WIN District Boring Number 1-2
Location Howard County, Maryland Job # 010658 SAMPLER Datum Hammer Wt. 140 Lbs. Hole Diameter 8" Foreman Harry Hines Surf. Elev. 382.8 Hammer Drop 30 Inches Rock Core Dia Inspector Surf. Elev. 382.8 Hammer Drop 30 Inches Rock Core Dia Inspector Surf. Elev. 382.8 Hammer Drop 30 Inches Rock Core Dia Inspector Surf. Elev. 382.8 Hammer Drop 30 Inches Rock Core Dia Inspector Surf. Elev. 382.8 Hammer Drop 30 Inches Rock Core Dia Inspector Surf. Elev. 382.8 Hammer Drop 30 Inches Rock Core Dia Inspector Surf. Elev. 382.8 Hammer Drop 30 Inches Rock Core Dia Inspector Surf. Elev. 382.8 Hammer Drop 30 Inches Rock Core Dia Inspector Surf. Elev. 382.8 Hammer Drop 30 Inches Rock Core Dia Inspector Surf. Elev. 382.8 Hammer Drop 30 Inches Rock Core Dia Inspector Surf. Elev. 382.8 Hammer Drop 30 Inches Rock Core Dia Inspector Surf. Elev. 382.8 Hammer Drop 30 Inches Rock Core Dia Inspector Surf. Elev. 382.8 Hammer Drop 30 Inches Rock Core Dia Inspector Surf. Elev. 382.8 Hammer Drop 30 Inches Rock Core Dia Inspector Surf. Elev. 382.8 Hammer Drop 30 Inches Rock Core Dia Inspector Surf. Elev. 382.8 Hammer Drop 30 Inches Rock Core Dia Inspector Surf. Elev. 382.8 Hammer Drop 30 Inches Rock Core Dia Inspector Surf. Elev. 382.8 Hammer Drop 30 Inches Rock Core Dia Inspector Surf. Elev. 382.8 Hammer Drop 30 Inches Rock Core Dia Inspector Surf. Elev. 382.8 Hammer Drop 30 Inches Rock Core Dia Inspector Surf. Elev. 382.8 Hammer Drop 30 Inches Rock Core Dia Inspector Surf. Elev. 382.8 Hammer Drop 30 Inches Rock Core Dia Inspector Surf. Elev. 382.8 Hammer Drop 30 Inches Rock Core Dia Inspector Surf. Elev. 382.8 Hammer Drop 30 Inches Rock Core Dia Inspector Surf. Elev. 382.8 Hammer Drop 30 Inches Rock Core Dia Inspector Surf. Elev. 382.8 Hammer Drop 30 Inches Rock Core Dia Inspector Surf. Elev. 382.8 Hammer Drop 30 Inches Rock Core Dia Inspector Surf. Elev. 382.8 Hammer Drop 30 Inches Rock Core Dia Inspe	SAMPLER atum Hammer Wt. 140 Lbs. Hole Diameter 8" Foreman Harry Hines url. Elev. 378.2 Hammer Drop 30 Inches Rock Core Dia Inspector ate Started 03-29-02 Pipe Size 2.0 Inches OD Boring Method HSA Completed 03-29-02	Location Howard County, Maryland Job # 010658	cation Howard County, Maryland Job # 010658 Location Howard County, Maryland SAMPLER tum Hammer Wt. 140 Lbs. Hole Diameter 4" Foreman Harry Hines Inspector Inspector Inspector Foreman Harry Hines Inspector O4-01-02 Pipe Size 2.0 Inches OD Boring Method HSA Completed O4-01-02 Date Started 03-29-02 Pipe Size	SAMPLER SAMPLER Wt. 140 Lbs. Hole Diameter 4* Foreman Harry Hines
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D 2-1-2 2 15° D 2-1-2 2 15° D 2-1-2 3 3 13° D 2-2-3 3 13°	5.0 — while drilling 5.0 — D 6-10-12 3 18*	St.0 St./0 3 N/R Caved in at 5.5' at Completion	377.8 Brown, orange tan, medium dense to very loose to medium dense micaceous sitiry sand, trace disintegrated D 5-12-13 3 15°	5.0 — S.0 —
Tan, black, moist, loose to medium dense micaceous silty sand, trace disintegrated prock fragments D 9-10-12 4 12*	370,7 7.5 7.5 7.5 D 6-7-8 4 12*		Frock (SM)	D 10-15-43 4 13* Hard drilling at 8.6'
- (SM)	10.0	Bottom of Test Hole at 8.0°	10.0 Caved in at 10.0' at 388.1 Disintegrated Rock Completion Auger Refusal at 10.5' Bottom of Test Hole at 10.5'	10.5 D 50/5" S 5° Set pipe at 9.0°
D 3-4-6 5 15° Caved in at 12.3° at Completion Groundwater encountered at 13.0° while drilling 388.8 14.0 200 14.0 200 14.0 200 15° Caved in at 12.5° Caved				
Tan-brown, moist, very dense 15.0	Bottom of Test Hole at 15.0'		367.3 15.0 15.0 15.0 15.0 10°	Backfilled after 24 hours
SAMPLER TYPE SAMPLE CONDITIONS GROUND WATER DEPTH BORING METHOD ORIVEN SPLIT SPOON UNLESS DISINTEGRATED AT COMPLETION FT. HSA-HOLLOW STEM AUGERS OTHERWISE NOTED, HINTACT AFTER 24 IV 98° FT. CFA-CONT, FLIGHT AUGERS OTHERWISE NOTED, HINTACT AFTER 24 IV 98° FT. DC-ORTINING CASING PT-PRESSED SHELBY TUBE U-UNDISTURBED AFTER 24 IV CAWOS IN BI 124° FT. DC-ORTINING CASING PT-PRESSED SHELBY TUBE U-UNDISTURBED AFTER 24 IV CAWOS IN BI 127° FT. DC-ORTINING CASING PT-PRESSED SHELBY TUBE U-UNDISTURBED AFTER 24 IV CAWOS IN BI 127° FT. DC-ORTINING CASING PT-PRESSED SHELBY TUBE U-UNDISTURBED AFTER 24 IV CAWOS IN BI 127° FT. DC-ORTINING CASING PT-PRESSED SHELBY TUBE U-UNDISTURBED AFTER 24 IV CAWOS IN BI 127° FT. DC-ORTINING CASING PT-PRESSED SHELBY TUBE U-UNDISTURBED AFTER 24 IV CAWOS IN BI 127° FT. DC-ORTINING CASING	UGERS RIVEN SPLIT SPOON UNLESS D-DISINTEGRATED AT COMPLETION Dry FT. HSA-HOLLOW STEM AUGERS ITHERWISE NOTED. I-INTACT AFTER 24 br Dry FT. CFA-CONT, FLIGHT AUGERS ITHERSEED SHELBY TUBE U-UNDISTURBED AFTER Ceved in at 108* FT. DC-DRIVING CASING	SAMPLER TYPE SAMPLE CONDITIONS GROUND WATER DEPTH BORING METHOD DRIVEN SPLIT SPOON UNLESS D-DISINTEGRATED AT COMPLETION Dry FT. HSA-HOLLOW STEM AUGERS OTHERWISE NOTED. I-INTACT AFTER 24 hr Dry FT. CFA-CONT. FLIGHT AUGERS PT-PRESSED SHELBY TUBE U-UNDISTURBED AFTER Coved in at 55° FT. DC-DRIVING CASING	AMPLER TYPE SAMPLE CONDITIONS GROUND WATER DEPTH BORING METHOD THE SPUT SPOON UNLESS D-DISINTEGRATED AT COMPLETION DIY FT. HSA-HOLLOW STEM AUGERS THERMISE NOTED. HINTACT AFTER 24 IV 40° FT. CFA-CONT. FLIGHT AUGERS T-PRESSED SHELBY TUBE U-UNDISTURBED AFTER 24 IV Cavod in at 75° FT. DC-ORIVING CASING PT-PRESSED SHELBY TUBE U-UNDISTURBE	DIDITIONS GROUND WATER DEPTH BORING METHOD ATCOMPLETION FT. HSA-HOLLOW STEM AUGERS AFTER 24 by Dry FT. CFA-CONT, FLIGHT AUGERS LED AFTER 24 by Caved in at 6.0° FT. DC-DRIVING CASING
CA-CONTINUOUS FLIGHT AUGER LI-LOST MO-MUD DRILLING PT-PRESSED SHELBY TUBE CA-CONTINUOUS FLIGHT AUGER LI-OST MO-MUD DRILLING RC-ROCK CORE MO-MUD DRILLING	A-COMMUJOUS FLIGHT AUGER L-LOST MD-MUD ORILLING CROCK CORE	CA-CONTINUOUS FLIGHT AUGER L-LOST MO-MOUD OFFICEING	A-ROCK CORE MO-MUD DRILLING CA-CONTINUOUS FLIGHT AUGER L-LOST CA-CONTINUOUS FLIGHT AUGER L-LOST RC-ROCK CORE CA-CONTINUOUS FLIGHT AUGER L-LOST RC-ROCK CORE	MO-MUD DRILLING
HILLIS - CARNES ENGINEERING ASSOCIATES, INC. Page 1 of 1 RECORD OF SOIL EXPLORATION HILLIS - CARNES ENGINEERING ASSOCIATES, INC. Page 1 of 1 RECORD OF SOIL EXPLORATION	HILLIS - CARNES ENGINEERING ASSOCIATES, INC. Page 1 of 3 RECORD OF SOIL EXPLORATION	HILLIS - CARNES ENGINEERING ASSOCIATES, INC. Page 2 of 3	HILLIS - CARNES ENGINEERING ASSOCIATES, INC. Page 3 of 3	
Project Name Maple Lawn Farms - Midtown District Location Howard County, Maryland SAMPLER Project Name Maple Lawn Farms - Midtown District Boring Number P-2 Location Howard County, Maryland SAMPLER SAMPLER SAMPLER	Project Name Location Howard County, Maryland SAMPLER SAMPLER Deturn Hammer Wt. 140 Lbs. Hole Diameter 4" Foreman Harry Hines	Project Name Mapie Lawn Farms - Midtown District Boring Number G-1	Project Name Maple Lawn Farms - Midtown District Boring Numbs G-1 Location Howard County, Maryland Job # 010858	
Datim Hammer Wt. 140 Ebs. Hole Diameter 6" Foreman Harry Hines Surf. Elev. 391.0 Hammer Drop Oate Started 03-29-02 Pipe Size 2.0 Inches OD Boring Method HSA Completed 03-29-02 ELEV. SOIL DESCRIPTION STRA, DEPTH SCALE CON BLOWS 6" NO. REC. NOTES BORING & SAMPLING NOTES BORING & SAMPLING NOTES	421.6 SURFACE 0.0 10" Topsol	Surf. Elev. 421.5 Hammer Drop 35 Inches OD Rock Core Dia. Inspector Completed 04-01-02 Inches OD Boring Method R8A Completed 04-01-02 Inches OD Boring Method R8A Completed 04-01-02 Inches OD BORING & SAMPLE SAMPLE CONTROL OF THE CO	Detum Harraner Wi. 140 Lbs. Hole Diameter 4" Foreman Harry Hines Surf. Elev. 27.5 Hammer Drop 50 inches OD Boring Method HSA Complete 64-61-62 ELEV. SOSI DESCRIPTION STRAI DEPTH SAMPLE BORING & SAMPLING Color Motelans Density Strain Proportion DEPTH SCALE CON BLOWS 6" NO. REC. NOTES	
391.0 SURFACE 0.0 11° Topsoil 396.6 SURFACE 0.0 11° Topsoil 396.6 SURFACE 0.0 11° Topsoil 396.6 SURFACE 0.0 11° Topsoil 396.6 SURFACE 0.0 396.6 SURFACE 0.0 396.6 SURFACE	Brown, moist, soft, clayey skt, trace rootmatter, trace sand and mice (MI/CL) 419.5 Raddish brown, speckled brown and tan, moist, medium dense to loose	Reddish brown, specked brown and tan, molet, medium dense to loces to medium dense stay sand, some mice, trace to fittle disintegrated rock	Raddish brown, specked brown and tan, molet, medium dense to loose to medium dense sity sand, some of mice, trace to little dishrepresed rock Bottom of Yest Hole at 41.6	
- silt		D 467 8 18		
Tail, diff. Year Notes and to medium Sand, trace mica Section Sectio	D 335 4 111			
10.0 10.0 51/5* 5 Caved in at 10.5' at	D 4-3-5 5 18°	D 6-10-22 9 17		
	D 69-10 8 17	D 8-17-32 10 18*		
	8AMPLER TYPE SAMPLE CONDITIONS GROUND WATER DEPTH BORING METHOD DRIVEN SPUT SPOON UNLESS DOSSITEGRATED AT COMPLETION Dry FT. HSA-HOLLOW STEM AUGERS	SAMPLER TYPE SAMPLE CONDITIONS GROUND WATER DEPTH BORING METHOD DRIVEN SPUT SPOON UNLESS D. DISSNITEGRATED AT COMPLETION Dry FT. HSA-HOLLOW STEM AUGUSTS	SAMPLER TYPE SAMPLE CONDITIONS GROUND WATER DEPTH BORING METHOD DRIVEN SPLIT SPOON UNLESS DIGISITEGRATED AT COMPLETION DY FT. ISSAHOLLOW STEM AUGIES OTHERWISE NOTED. HINTACT AFTER 24 by Dy FT. CFACONT, FLIGHT AUGIES	
SAMPLER TYPE SAMPLE CONDITIONS GROUND WATER DEPTH BORING METHOD ORIVEN SPUT SPOON UNLESS D-DISINTEGRATED AT COMPLETION Dry FT. HSA-HOLLOW STEM AUGERS OTHERWISE NOTED. HINTACT AFTER 24 In Dry FT. CFA-CONT. FLIGHT AUGERS PT-PRESSED SHELBY TUBE U-UNDISTURBED AFTER 24 In Coved in at 510° FT. DC-DRIVING CASING 396.6 Bottom of Boring/Refusal 20.0 51/0° / 7 N/R 396.6 Bottom of Boring/Refusal 20.0 51/0° / 7 N/R	OTHERWISE NOTED. HATACT AFTER 24 to Dry FT. CFA-CONT. FLIGHT ALGERS PT-PRESSES SHELBY TUBE UNDISTURBED AFTER 24 to Chied in 8 325° FT. OC-CRIVING CASING CA-CONTINUOUS FLIGHT ALIGER L-LOST MO-MUO DRILLING RC-ROCK CORE	OTHERWISE NOTED. HINTACT AFTER 24 to Dty FT. CFA-CONT. FLIGHT AUGERS, PT-PRESSED SHELBY TUBE: U-U-NOISTURGED AFTER 24 to Consider 1325 FT. DC-DRIVING CASING CA-CONTINUOUS PLUGHT AUGER L-LOST MO-HUD DRILLING RC-ROCK CORE	DRIVEN SHUT SPOON INJESS DDISMITEGRATED AT COMPLETION OTHERWISE NOTICE. HINTACT AFTER 24 tr Dry FT. CFA-CONT. FLIGHT AUGERS PT-PRESSED SHELBY TUBE U-UNDISTURBED AFTER — 24 tr Cound in at 32.0° FT. CC-CONT. FLIGHT AUGERS CA-CONTIBUOUS FLIGHT AUGER LLOST RC-ROCK CORE STANDARD PENETRATION TEST-DRIVING 2" OD SAMPLER 1' WITH 1408 HAMMER FALLING 30"-COUNT MADIE AT 5" INTERVALS	
PT-PRESSED SHELBY TUBE U-UNDISTURBED AFTER 24 hr Caved in at 610° FT. OC-DRIVING CASING CA-CONTINUOUS FLIGHT AUGER LLOST MO-MUD ORILLING CA-CONTINUOUS FLIGHT AUGER LLOST MO-MUD ORILLING RC-ROCK CORE PT-PRESSED SHELBY TUBE U-UNDISTURBED AFTER 24 hr Caved in at 610° FT. OC-DRIVING CASING CA-CONTINUOUS FLIGHT AUGER LLOST MO-MUD ORILLING CA-CONTINUOUS FLIGHT AUGER LLOST MO-MUD ORILLING RC-ROCK CORE	STANDARD PENETRATION TEST-DRIVING 2" OD SAMPLER 1" WITH 1408 HAMMER FALLING 30":COUNT MADE AT 6" INTERVALS	STANDARD PENETRATION TEST-DRIVING 2" OD SAMPLER 1" WITH 1408 HAMMER FALLING 30":COUNT MADE AT 6" INTERVALS	Operations And Maintenance Schedule For	
			Privately Owned And Maintained Stormceptor Water Quality Device	
			1. The Stormceptor water quality structure shall be periodically inspected and cleaned to maintain operation and function. The owner shall inspect the	
			Stormceptor unit yearly at a minimum, utilizing the Stormceptor Inspection/Monitoring Form. Inspections	<i>"</i>)
			shall be done by using clear plexiglass tube soludge judge" to extract a water column sample. When the sediment depths exceed the level specified in table to of the	
			2. The Stormceptor Water quality attructure shall be	d.
			checked and cleaned immediately after petroleum apills. The owner shall contact the appropriate regulatory agencies.	
			3. The maintenance of the stormce stor unit shall be do using a vacuum truck which will ramove water, sedim	
	'S/BUILDER'S CERTIFICATE		debris, floating hydroarbons and other materials in each unit. Proper cleaning and disposal of the removementals and liquid must be followed by the own	ved
"I/We certify that all de enter the construction of the constructi	velopment and/or construction will be plans, and that any responsible personnel ion project will have a Certificate of		4. The inlet and outlet pipes shall be checked for an obstructions at least once every six months. If	~Y
sediment control represents a practical and workable plan based on my personal knowledge of the site conditions. This plan was beginning the project. Training Program for the my personal knowledge of the site conditions. This plan was prepared in accordance with the requirements of the Howard Soil Training Program for the project. Figure 1. 1. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2.	d Department of the Environment Approved Control of Sediment and Erosion before shall engage a registered Professional nd construction and provide the Howard These Plans for small pond construction, soil erosion a	and sediment These plans have been reviewed for the Howard Soil Conservation	obstructions are found the owner shall have the removed Structural parts of the Stormceptor ur	<u>2</u> m-,
APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING Conservation District. I have notified the developer that he/she must engage a registered professional engineer to supervise pond construction and provide the Howard Soil Conservation District with by the Howard Soil Conservation by the Howard Soil Conservatio	with an "as-built" plan of the pond within control meet the requirements of the Howard Soil Const lalso authorize periodic on-site inspections	14 4440114111	5. The owner shall retain and make the Stormcept	P r
Chief Division Fund Development Date Date 4-23-03	4-22-03 Jell 1/2	19/03 Vin Myus (58 9/29/03) Natural Resources Conservation Service Date	Inspection/Monitoring Forms available to the Howard County Officials upon their request.	
Chief, Development Engineering Division Date			STORMWATER MANAGEMENT FACILITY DETAILS	COUNTY FILE # F 03-090 SCALE ZONING G. L. W. FILE
CIVIL ENGINEERS, LAND SURVEYORS, LAND PLANNERS, LANDSCAPE ARCHITECTS		& R Maple Lawn, Inc., et. al. Suite 410, Woodholme Center	MAPLE LAWN FARMS Midtown District - Area 1	AS SHOWN MXD-3 02001
3909 NATIONAL DRIVE - SUITE 250 - BURTONSVILLE OFFICE PARK BURTONSVILLE, MARYLAND 20866 TEL: 301-421-4024 BALT: 410-880-1820 DC/VA: 301-989-2524 FAX: 301-421-4186		440 404 0400	Lots 1 thru 120, Open Space Lots 121 thru 127, formmon Open Areas 128 thru 132 and Parcels 'A', 'B' & 'C'	DATE TAX MAP - GRID SHEET 41: 21 & 22 APR., 2003 46: 3 & 4 18 OF 19
02001\FINALS\ph2bo40.dwg DES. DEV DRN. JAU CHK. DEV DATE REVISION	BY APP'R.	ELECTION DISTRICT No. 5	P. 121 (L. 4213 F. 95), P. 450 (L. 1908 F. 623), P. 205 (L. 894 F. 596) HOWARD COUNTY, MARYLAN	ND 711 M., 2000 46: 3 & 4 70 01 1-

