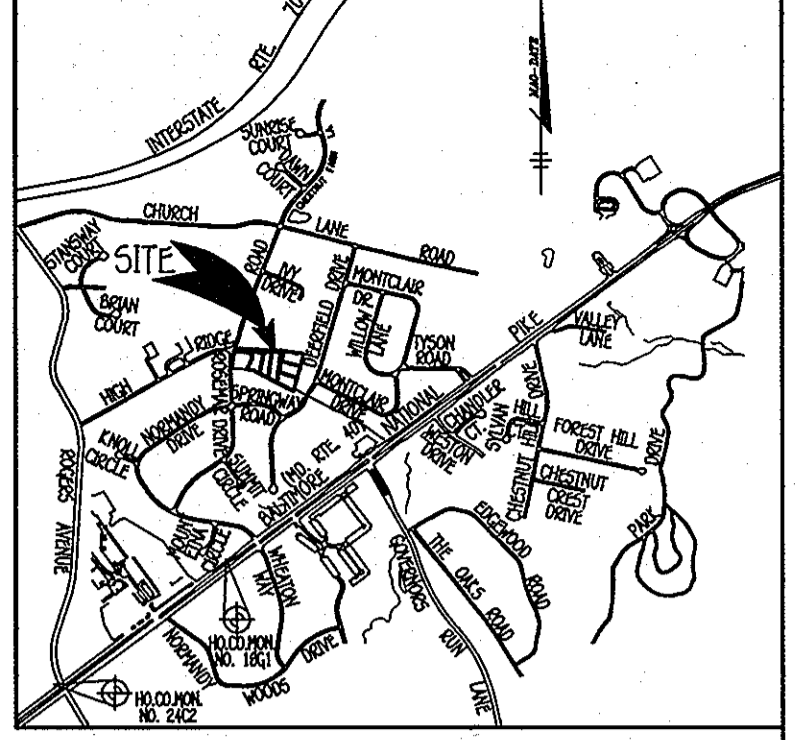


BENCH MARKS

T.P. 19C1 ELEV 408.495
N. 889.984.950
E. 1.367.750.255
LOC. NEAR THE INTERSECTION
OF NORMANDY DRIVE &
WHEATON WAY

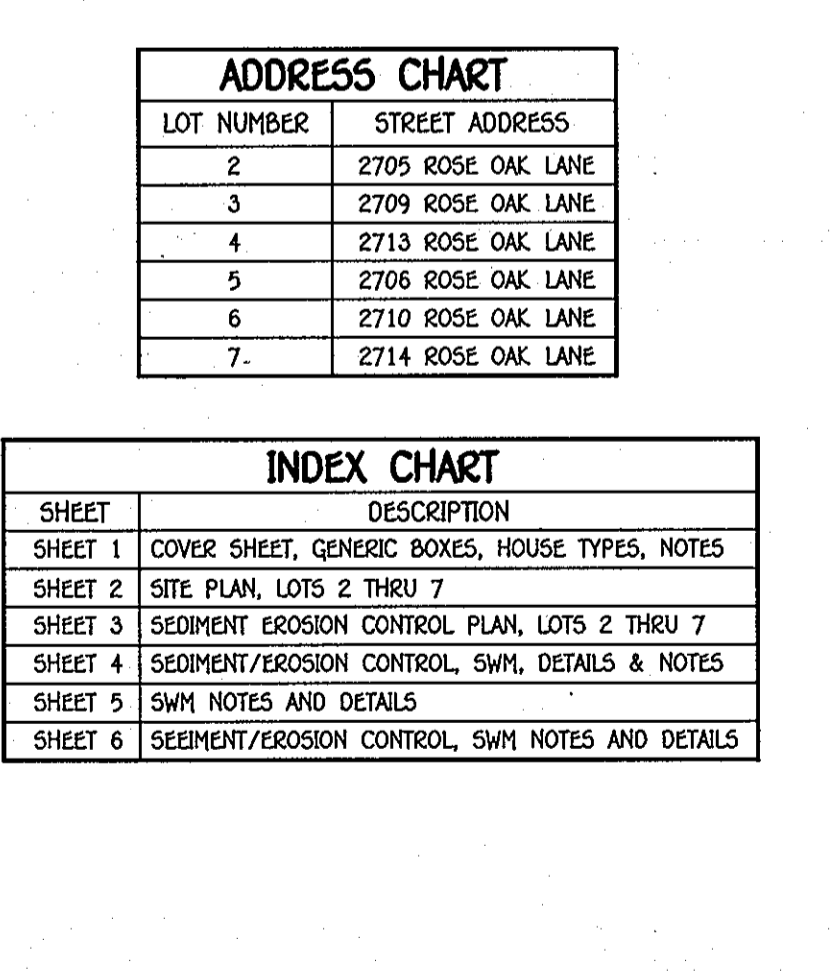
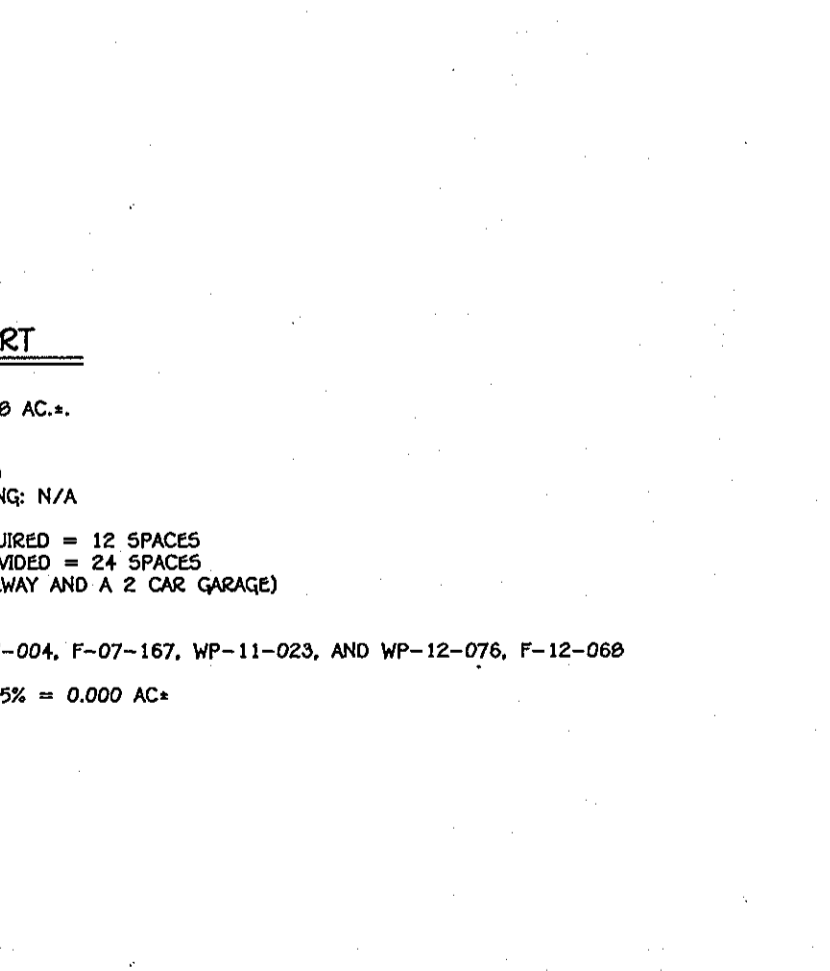
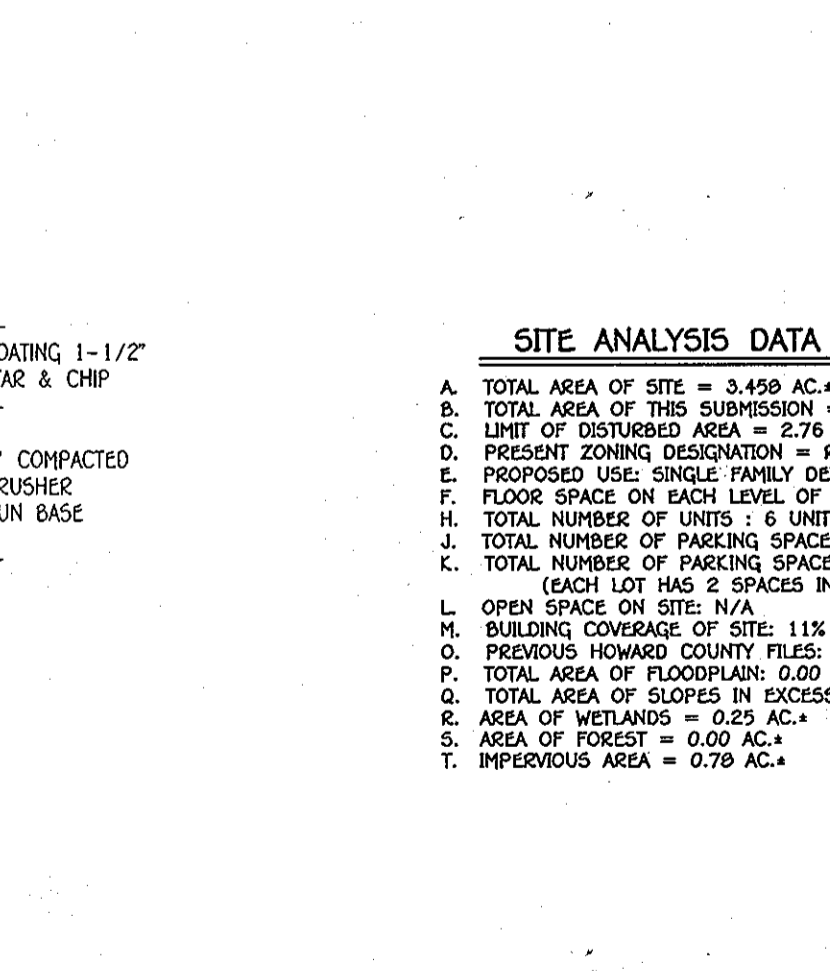
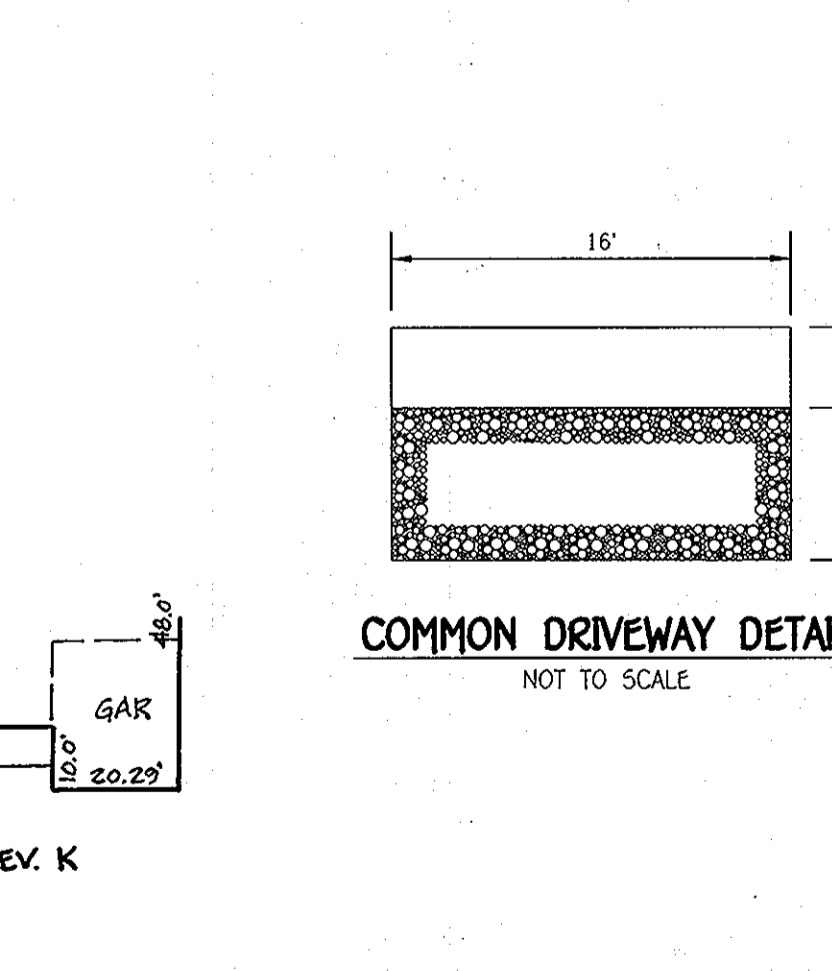
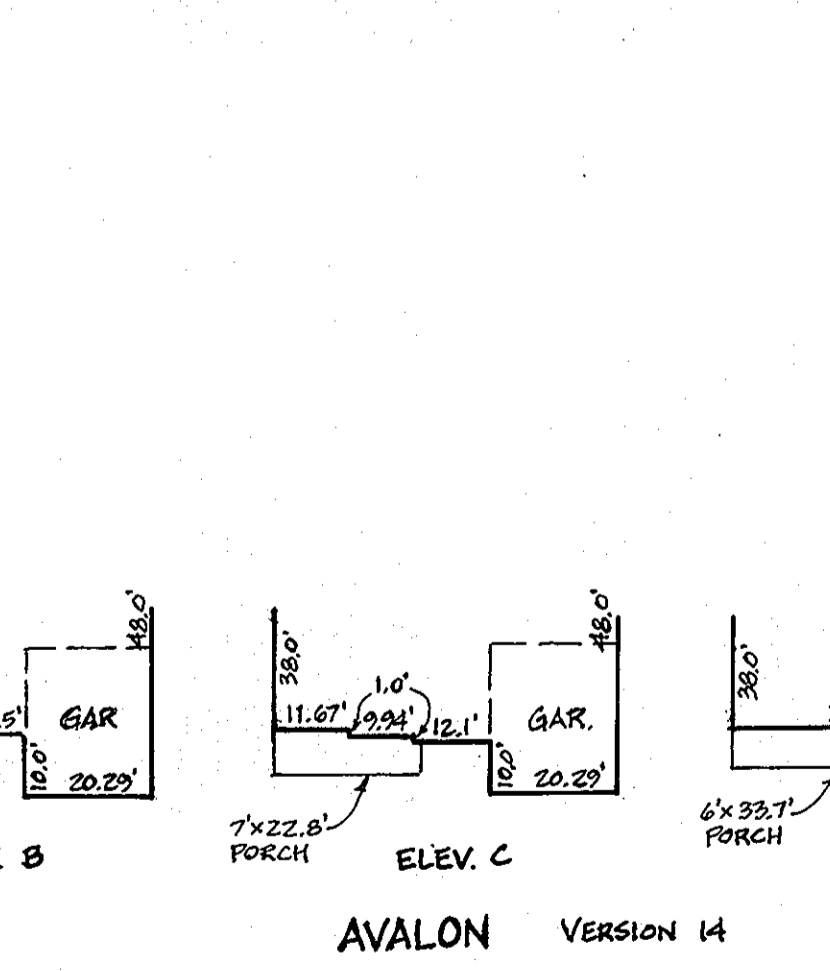
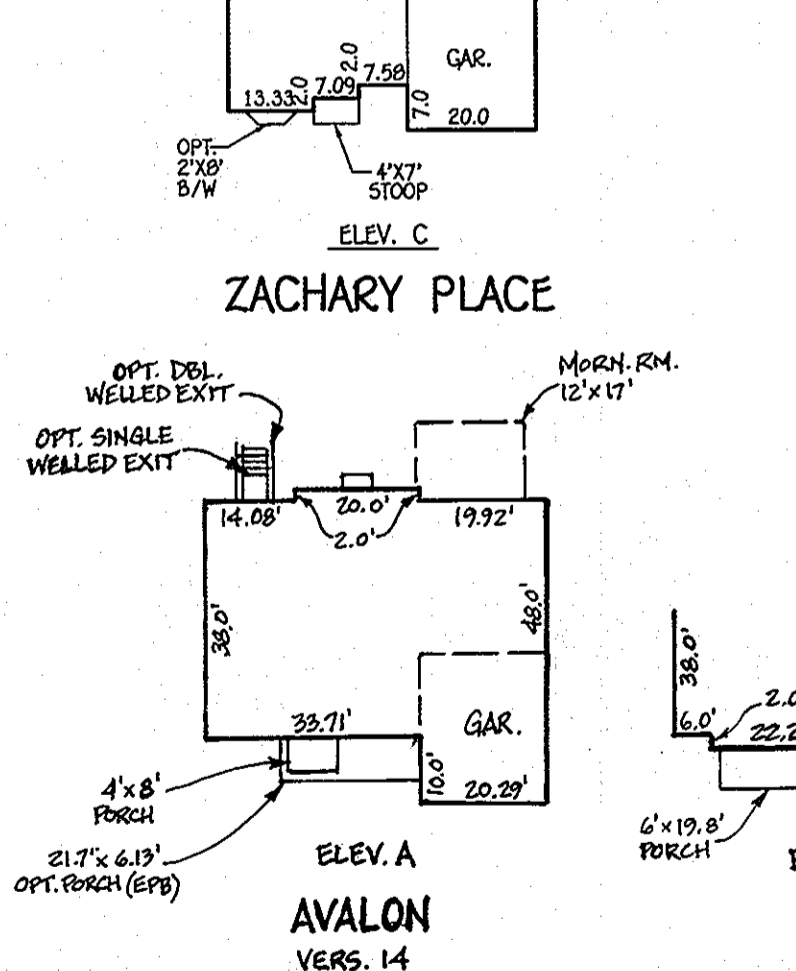
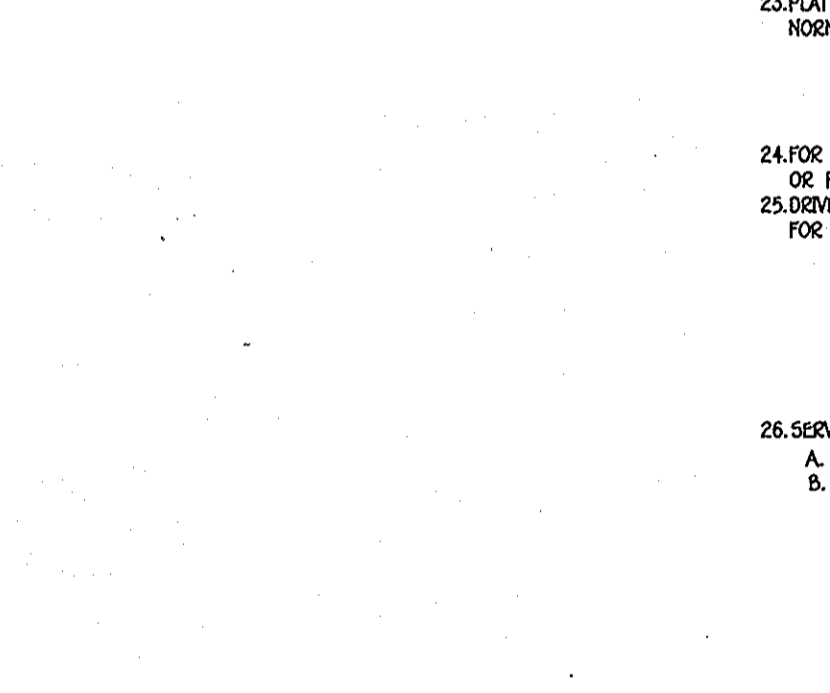
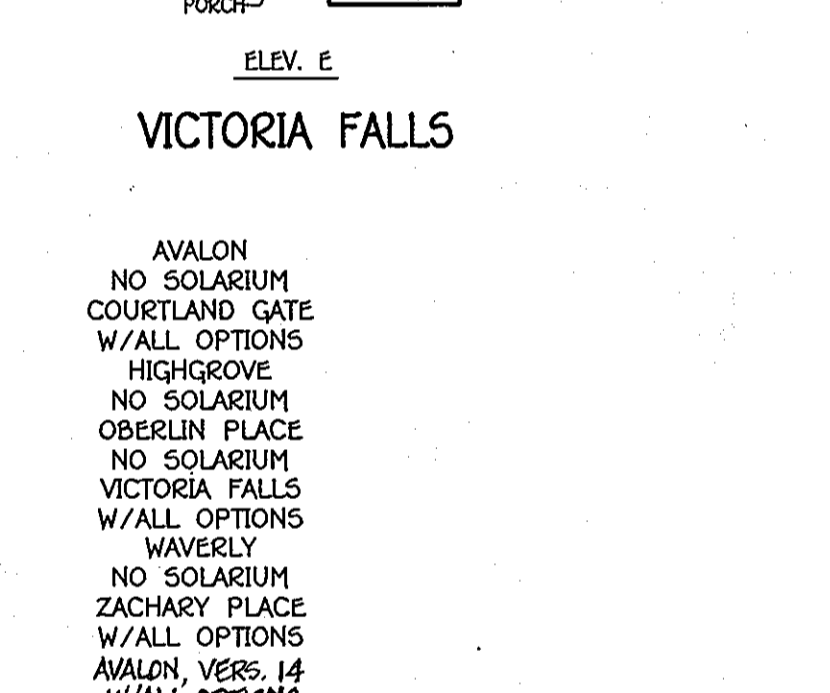
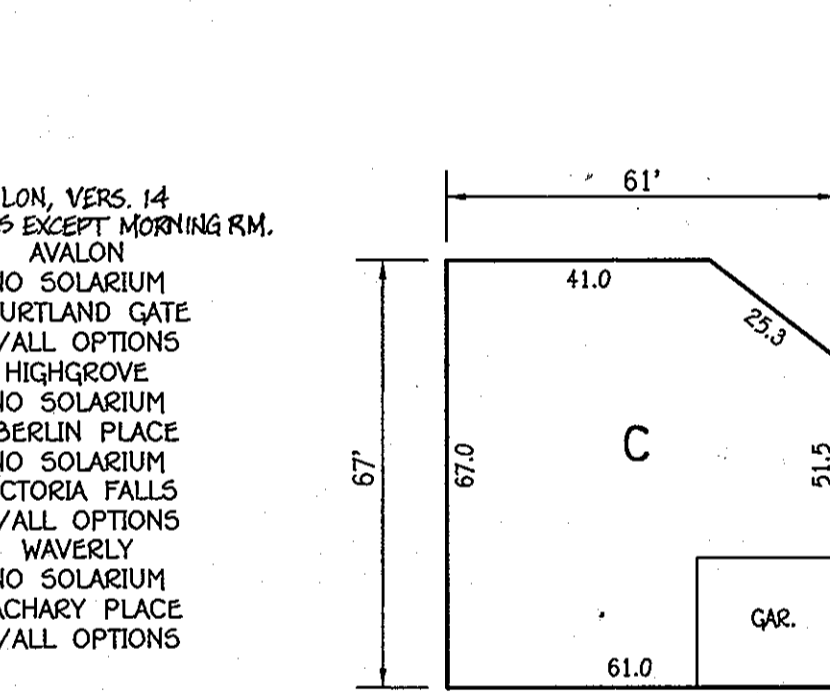
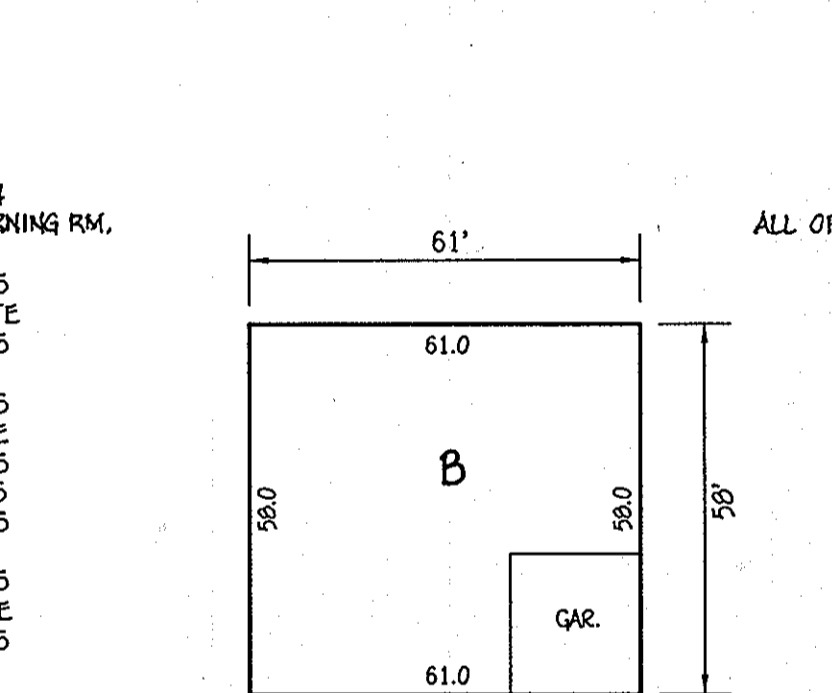
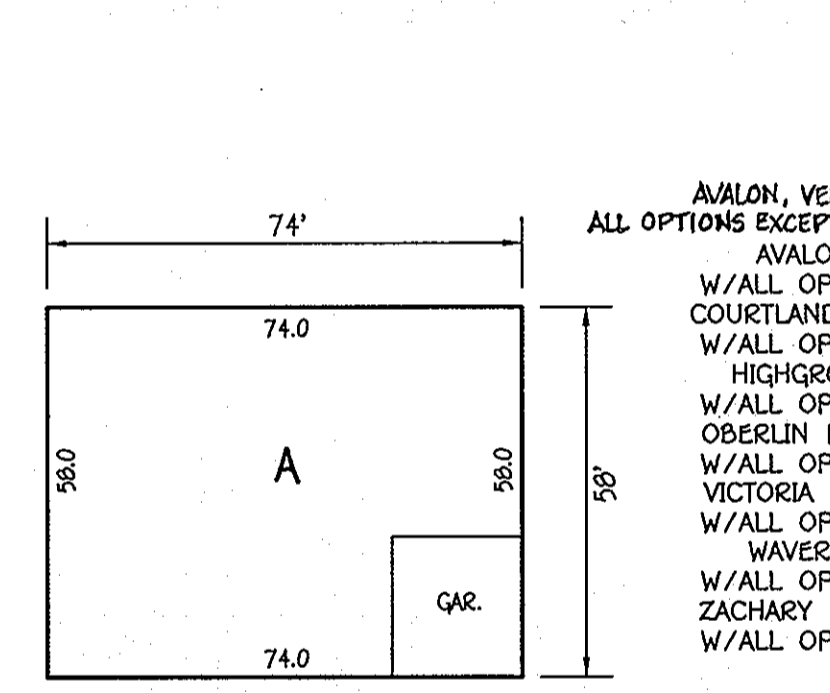
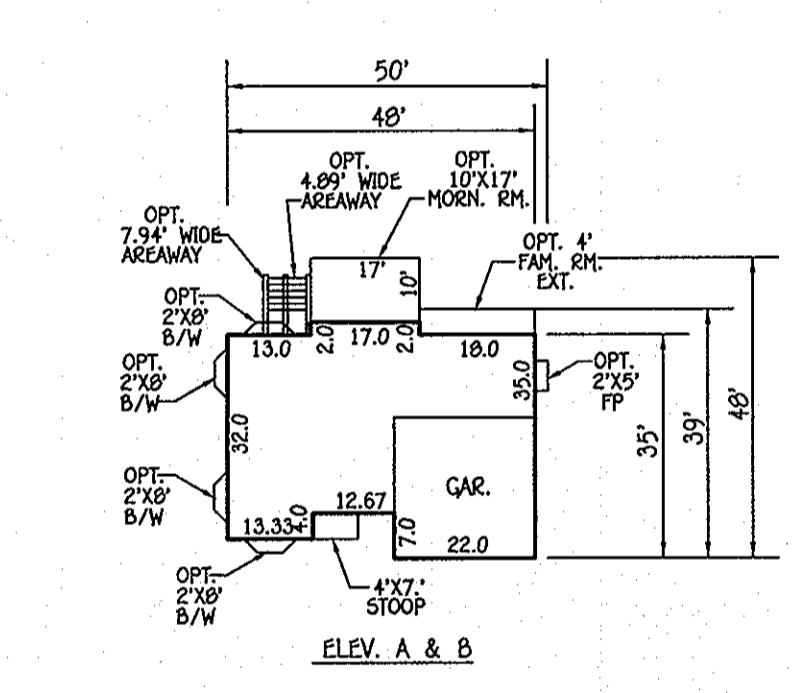
T.P. 24C2 ELEV 354.760
N. 588.648.312
E. 1.366.038.195
LOC. NEAR THE INTERSECTION
OF BALTIMORE NATIONAL PIKE
(MD. RTE. 40 & ROGERS AVE.



SCALE: 1" = 2000'
HO. CO. ADC MAP NO. 21, GRID B-5

GENERAL NOTES

- SUBJECT PROPERTY ZONED R-20 PER 2/02/04 COMPREHENSIVE ZONING PLAN AND THE "COMP LITE ZONING REGULATIONS AMENDMENTS EFFECTIVE 7/29/06.
- TOTAL AREA OF SITE 3.458 ACRES
- TOTAL NUMBER OF LOTS SUBMITTED: 6
- THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION INSPECTION DIVISION AT (410)313-1800 AT LEAST (5) WORKING DAYS PRIOR TO THE START OF WORK.
- THE CONTRACTOR SHALL NOTIFY "MISS UTILITY" AT 1-800-297-7777 AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION WORK.
- THIS PLAN IS BASED ON A FIELD RUN MONUMENTED BOUNDARY SURVEY PERFORMED ON OR ABOUT FEBRUARY, 2006 BY FISHER, COLLINS & CARTER, INC. TOPOGRAPHY SHOWN IS BASED ON FIELD RUN SURVEY PERFORMED BY FISHER, COLLINS & CARTER, INC. IN OCTOBER, 2006.
- HORIZONTAL AND VERTICAL CONTROL DATUM IS BASED ON NAD 83, MARYLAND COORDINATE SYSTEM AS PROJECTED BY HOWARD COUNTY GEODETIC CONTROL STATIONS.
- HOWARD COUNTY MONUMENT 1961 N 599.984.951 E 1.367.750.255
HOWARD COUNTY MONUMENT 24C2 N 588.648.312 E 1.366.038.195
- IN ACCORDANCE WITH SECTION 12B OF THE HOWARD COUNTY ZONING REGULATIONS, BAY WINDOWS, CHIMNEYS OR EXTERIOR STAIRWAYS NOT MORE THAN 16 FEET IN WIDTH MAY PROJECT NOT MORE THAN 4 FEET INTO ANY SETBACKS, PORCHES, OR DECKS, OPEN OR ENCLOSED MAY PROJECT NOT MORE THAN 10 FEET INTO THE FRONT OR REAR YARD SETBACK.
- DISTANCES SHOWN ARE BASED ON SURFACE MEASUREMENT AND NOT REDUCED TO NAD 83 GRID MEASUREMENT.
- THERE ARE NO EXISTING DWELLING/STRUCTURES LOCATED ON THIS SITE TO REMAIN.
- NO CONFLICTS EXIST ON THIS SITE BASED ON BOTH A SITE VISIT AND AN EXAMINATION OF THE HOWARD COUNTY CEMETERY INVENTORY MAP.
- PREVIOUS DEPARTMENT OF PLANNING AND ZONING FILE NOS.: SP-07-004, F-07-167, F-12-068, WP-11-023 AND WP-12-076.
- PROPERTY IS LOCATED IN METROPOLITAN DISTRICT AND IS SERVED BY PUBLIC WATER AND PUBLIC SEWER (CONTRACT NO. 14-4413-D)
- THE LANDSCAPE REQUIREMENTS FOR THIS PROJECT WERE PREVIOUSLY ADDRESSED UNDER F-12-068.
- THE FOREST CONSERVATION REQUIREMENTS FOR THIS PROJECT WERE PREVIOUSLY ADDRESSED UNDER F-07-167 & F-12-068.
- NO GRADING, REMOVAL OF VEGETATIVE COVER OR TREES, PAVING AND NEW STRUCTURES SHALL BE PERMITTED WITHIN THE LIMITS OF WETLANDS, STREAMS, OR THEIR REQUIRED BUFFERS, FLOODPLAIN AND FOREST CONSERVATION EASEMENT AREAS.
- STORMWATER MANAGEMENT QUALITY REQUIREMENTS FOR THIS PROJECT HAVE BEEN ADDRESSED UNDER F-12-068. THE ENVIRONMENTAL SITE DESIGN REQUIREMENTS FOR THE USE-IN-COMMON DRIVE AND THE PROPOSED DWELLINGS ON LOTS 2-4 HAVE ALSO BEEN ADDRESSED UNDER F-12-068. THE ENVIRONMENTAL SITE DESIGN REQUIREMENTS FOR THE DWELLINGS LOTS 5, 6 & 7 AND THE PRIVATE DRIVEWAYS ON LOTS 2-7 WILL BE PROVIDED BY THE USE OF 100% 80-RETENTION FACILITIES (H-3), NON-SOOPORT DISCONNECTION CREST (N-2), AND DRY WELLS (H-5) ON THIS PLAN. THESE PRIVATE FACILITIES/DISCONNECTION CREST AREAS WILL BE OWNED AND MAINTAINED BY THE HOMEOWNER AND WILL REQUIRE DOCS.
- FURTHERMORE, THIS SITE WAS SUBJECT TO ADDITIONAL WATER QUANTITY MANAGEMENT DUE TO AN EXISTING DOWNSTREAM FLOODPLAIN. THE POST DEVELOPMENT 100-YEAR DISCHARGE DOES NOT EXCEED PRE-DEVELOPED CONDITIONS. THE UNDERGROUND FACILITY (48" PERFORATED PIPE) PROVIDING THE QUANTITY MANAGEMENT WILL BE OWNED AND MAINTAINED BY THE HOA.
- THE GEOTECHNICAL REPORT FOR THIS PROJECT WAS PREPARED BY HILLS-CARNEGIE ENGINEERING ASSOCIATES, INC. DATED OCTOBER, 2006 AND APPROVED UNDER SP-07-004.
- THE AFPO TRAFFIC STUDY FOR THIS PROJECT WAS PREPARED BY MGS GROUP, INC. DATED NOV. 2006 AND APPROVED UNDER SP-07-004.
- THERE IS NO FLOODPLAIN WITHIN THE SITE.
- THERE ARE NO AREAS OF STEEP SLOPES LOCATED ON THIS PROPERTY AS DEFINED BY THE HOWARD COUNTY SUBDIVISION AND LAND DEVELOPMENT REGULATIONS, SECTION 16.11.6.B.
- WETLANDS REPORT PREPARED BY ECO-SCIENCE PROFESSIONALS, INC. AND APPROVED WITH SP-07-004.
- 3.21.47 SUBJECT TO UNRECORDED AGREEMENT DATED SEPTEMBER 26, 2012 BETWEEN SPRING RIDGE HOMEOWNERS ASSOCIATION, INC. AND NORMANDY OAKS BAKER, LLC WITH THE FOLLOWING CONDITIONS ASSOCIATED WITH LOTS 2 THRU 7, INCLUDES:
 - NORMANDY OAKS BAKER, LLC (NORMANDY OAKS) SHALL PLANT FOURTEEN (14) NEW TREES OF THE TYPE AND IN THE LOCATIONS ON EXHIBIT "1" AND SHALL BE COMPLETED WITHIN SIX (6) MONTHS OF ISSUANCE OF A GRADING PERMIT.
 - NORMANDY OAKS BAKER, LLC (NORMANDY OAKS) SHALL CONSULT WITH MEMBERS OF SPRING RIDGE H.O.A. REGARDING TREE SELECTION AND PLANTING LOCATIONS.
- FOR FLAG OR FREESTYLE LOTS, REFUSE COLLECTION, SNOW REMOVAL AND ROAD MAINTENANCE ARE PROVIDED TO THE JUNCTION OF THE FLAG OR FREESTYLE LOT AND ROAD RIGHT-OF-WAY LINE AND NOT INTO THE FREESTYLE LOT DRIVEWAY.
- DRIVEWAYS SHALL BE PROVIDED PRIOR TO ISSUANCE OF A USE AND OCCUPANCY PERMIT FOR ANY NEW DWELLINGS TO INSURE SAFE ACCESS FOR FIRE AND EMERGENCY VEHICLES PER THE FOLLOWING MINIMUM REQUIREMENTS:
 - WIDTH-12' (10' SERVING MORE THAN ONE RESIDENCE);
 - SURFACE-6" OF COMPACTED CRUSHER RUN BASE W/ TAR AND CHIP COATING (1-1/2" MIN.);
 - GEOMETRY-MAX 15% GRADE, MAX 10% GRADE CHANGE AND MIN. 45' TURNING RADIUS;
 - STRUCTURES (CULVERTS/BORDERS)-CAPABLE OF SUPPORTING 25,000 TONS (25% LOADING);
 - DRAINAGE ELEMENTS-CAPABLE OF SAFELY PASSING 100-YEAR FLOOD WITH NO MORE THAN 1 FOOT DEPTH OVER DRIVEWAY SURFACE.
- MAINTENANCE-SUFFICIENT TO INSURE ALL WEATHER USE.
- SERVICE CONNECTIONS
 - WHC: 1/2" W/ 1" OUTSIDE METER SETTING
 - SHC: 4" PVC



FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
CENTENNIAL SQUARE OFFICE PARK 10222 BALTIMORE NATIONAL PIKE
CLARKVILLE, MARYLAND 21042
(410) 461-2895

NO.	REVISION	DATE
1	REV. LOT 2 TO SHOW THE AVALON VER. 14 TEMPLATE & REV. GRADING	3/12/14

PROFESSIONAL CERTIFICATION
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM A DULY LICENSED PROFESSIONAL SURVEYOR UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 21476, EXPIRATION DATE: 7/14/15.

Frank John Manalunga II
FRANK JOHN MANALUNGA II
DATE: 12-5-13

OWNER
NORMANDY OAKS BAKER, LLC
10751 FALLS ROAD
LUTHERVILLE, MARYLAND 21093
SUITE 405
410-465-4761
ATTN: MICHAEL J. MCCANN

BUILDER
RYAN HOMES
9720 PATENT WOODS DRIVE
COLUMBIA, MARYLAND 21046
410-796-0980
ATTN: MR. KEVIN BOWSER

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
Chief, Division of Land Development
Chief, Development Engineering Division
Director - Department of Planning and Zoning

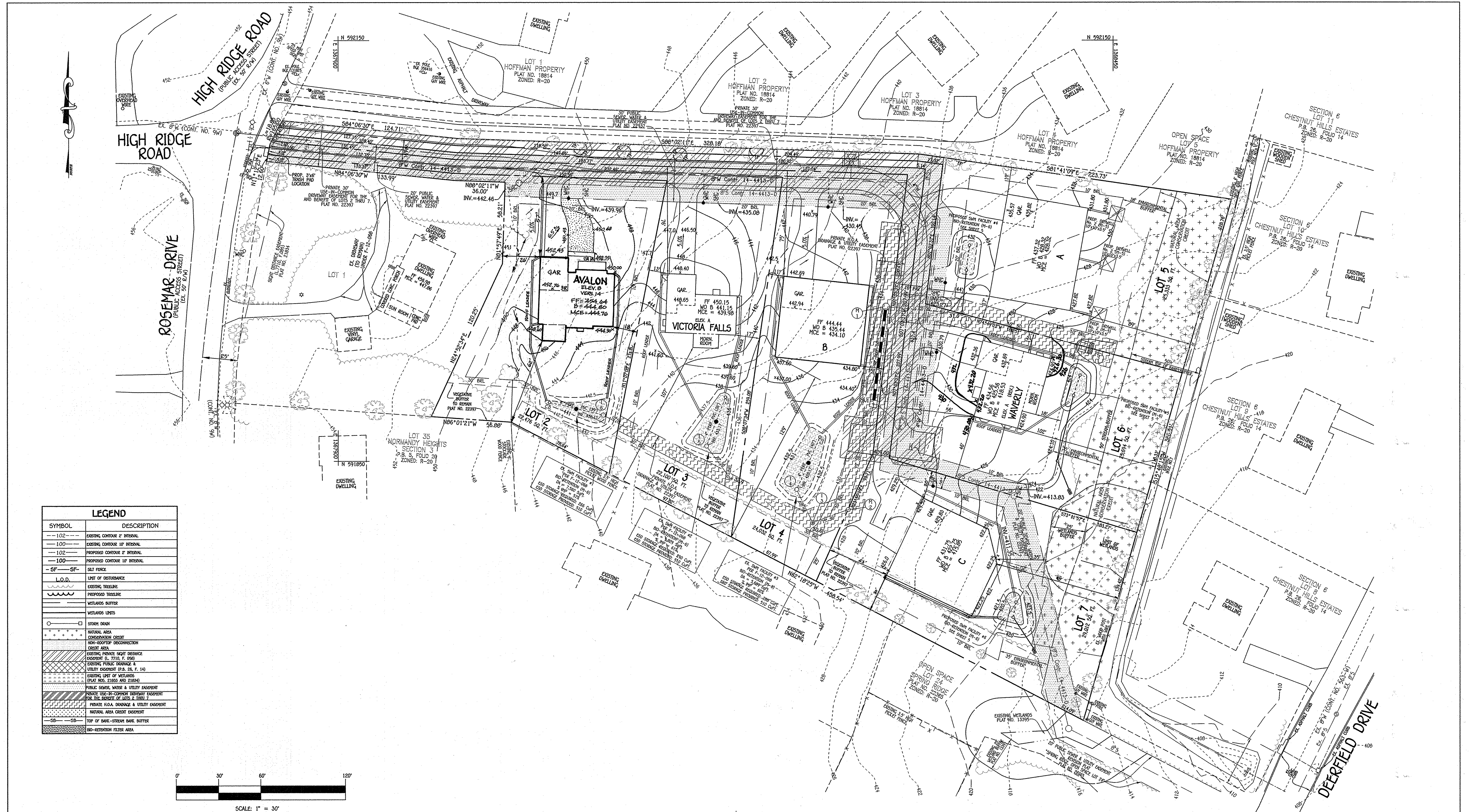
1/02/14
12-23-13
1/2/14

PROJECT	SECTION	LOT NO.
NORMANDY OAKS	N/A	2 THRU 7

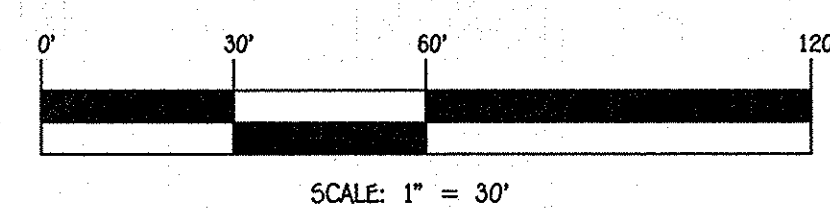
PLAT	BLOCK NO.	ZONE	TAX/ZONE	ELEC. DIST.	CENSUS TR.
22396	13	R-20	18	2	6068.02

COVER SHEET
SINGLE FAMILY DETACHED
NORMANDY OAKS
LOTS 2 THRU 7
ZONED: R-20
TAX MAP NO.: 18 PARCEL NO.: 51 GRID NO.: 13
SECOND ELECTION DISTRICT HOWARD COUNTY, MARYLAND
SCALE: 1" = 30' DATE: DECEMBER 02, 2013
SHEET 1 OF 6

1:2005:05:149(SUPPORT PLAN, 2012)05:149 Site Plan Lots 2 Thru 7 (SHT.2) (ANG. SHEET 2, 12/4/2013 2:39:33 PM, 1:1



LEGEND	
SYMBOL	DESCRIPTION
---102---	EXISTING CONTOUR 2' INTERVAL
---100---	EXISTING CONTOUR 10' INTERVAL
---102---	PROPOSED CONTOUR 2' INTERVAL
---100---	PROPOSED CONTOUR 10' INTERVAL
-SF--SF-	SILT FENCE
L.O.D.	LIMIT OF DISTURBANCE
---	EXISTING TOEHLING
---	PROPOSED TOEHLING
---	WETLANDS BUFFER
---	WETLANDS LIMITS
○	STORM DRAIN
---	NATURAL AREA CONSERVATION CREDIT
---	NON-ROOFTOP DISCONNECTION CREDIT AREA
---	EXISTING PRIVATE SIGHT DISTANCE EASEMENT (P.B. 26, F. 60)
---	EXISTING PUBLIC DRAINAGE & UTILITY EASEMENT (P.B. 26, F. 14)
---	EXISTING LIMIT OF WETLANDS (PLAT NOS. 21833 AND 21834)
---	PUBLIC GROUND WATER & UTILITY EASEMENT
---	PRIVATE USE 33-CORPORATION DEEDS EASEMENT FOR THE BENEFIT OF LOTS 2, 3, 4, 5, 6, 7
---	PRIVATE H.O.A. DRAINAGE & UTILITY EASEMENT
---	NATURAL AREA CREDIT EASEMENT
SB--SB	TOP OF BANK--STREAM BANK BUFFER
---	NO-RETENTION FILTER AREA



FISHER, COLLINS & CARTER, INC.
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
 RESTONVILLE SQUARE OFFICE PARK - 10275 BALTHAZORE NATIONAL FIRE
 ELICOTT CITY, MARYLAND 21042
 (410) 461-2895



PROFESSIONAL CERTIFICATION
 I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM A DULY LICENSED PROFESSIONAL SURVEYOR UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 21476, EXPIRATION DATE: 7/14/15.
Frank John Manalansan II 12-5-13
 FRANK JOHN MANALANSAN II DATE

NO.	REVISION	DATE
2	REVISE LOT 6 TO SHOW AS-BUILT ELEVATIONS	5/23/14
1	REV. LOT 2 TO SHOW AVALON VERS. 14, TEMPLATE & ASSOCIATED GRADING	3/11/14

OWNER	BUILDER
NORMANDY OAKS BAKER, LLC 10751 FALLS ROAD LUTHERVILLE, MARYLAND 21093 SUITE 405 410-465-4761 ATTN: MICHAEL J. MCCANN	RYAN HOMES 9720 PATUXENT WOODS DRIVE COLUMBIA, MARYLAND 21046 410-796-0980 ATTN: MR. KEVIN BOWSER

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

Kevin J. Bowser 1/22/14
 Chief, Division of Land Development Date

Paul A. Leung 12-23-13
 Chief, Development Engineering Division Date

Paul A. Leung 1/2/14
 Director - Department of Planning and Zoning Date

PROJECT	SECTION	LOT NO.
NORMANDY OAKS	N/A	2 THRU 7

PLAT	BLOCK NO.	ZONE	TAX/ZONE	ELEC. DIST.	CENSUS TR.
22396	13	R-20	1B	2	6088.02

SITE DEVELOPMENT PLAN

SINGLE FAMILY DETACHED

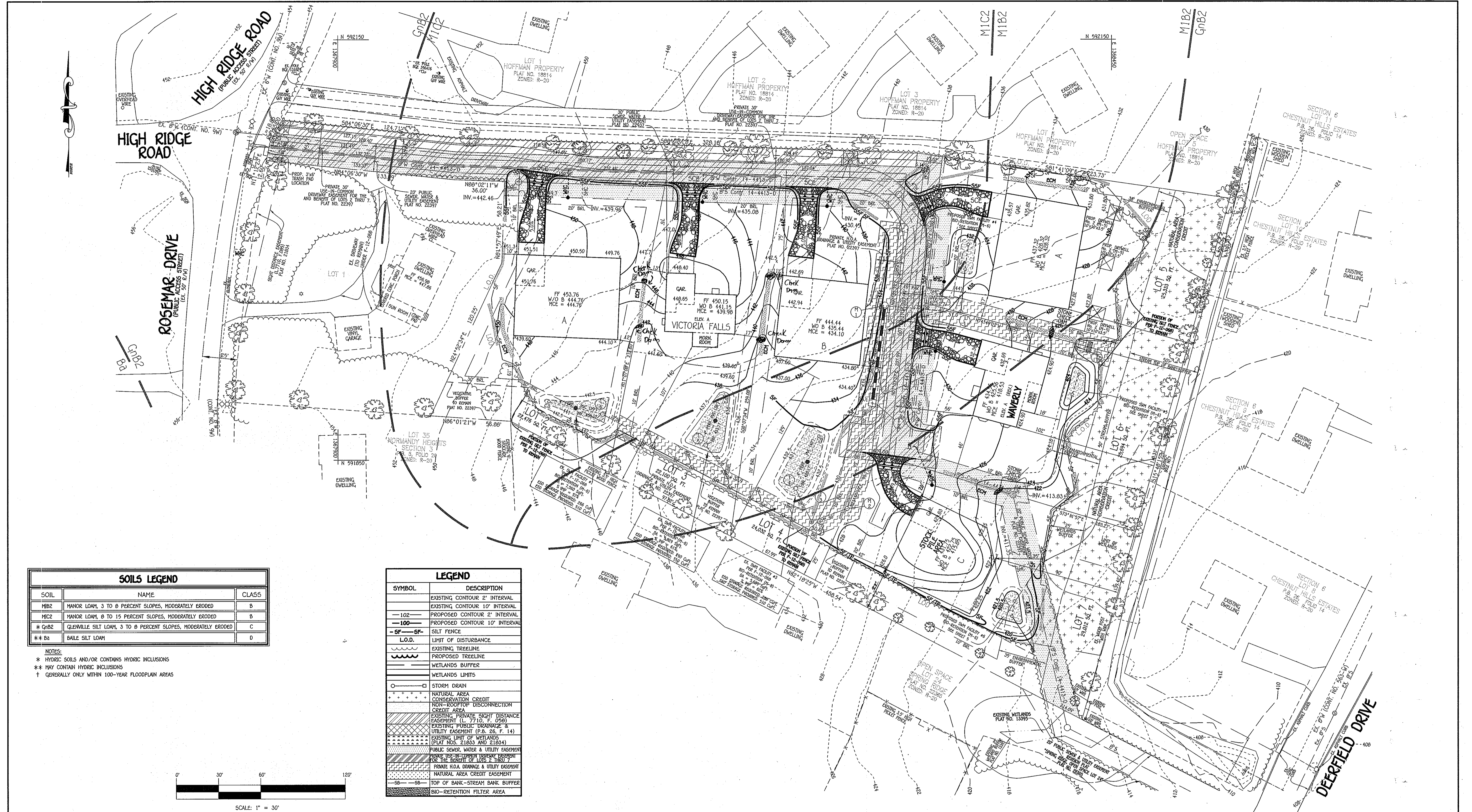
NORMANDY OAKS

LOTS 2 THRU 7

ZONED: R-20

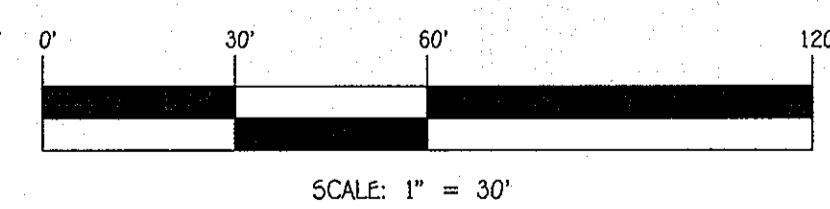
TAX MAP NO.: 1B PARCEL NO.: 51 GRID NO.: 13
 SECOND ELECTION DISTRICT: HOWARD COUNTY, MARYLAND
 SCALE: 1" = 30' DATE: DECEMBER 02, 2013

SHEET 2 OF 6 **SDP-14-018**



SOILS LEGEND		
SOIL	NAME	CLASS
MB2	MANOR LOAM, 3 TO 8 PERCENT SLOPES, MODERATELY ERODED	B
MIC2	MANOR LOAM, 8 TO 15 PERCENT SLOPES, MODERATELY ERODED	B
*GnB2	GLENVILLE SILT LOAM, 3 TO 8 PERCENT SLOPES, MODERATELY ERODED	C
**Ba	BAILE SILT LOAM	D

NOTES:
 * HYDRIC SOILS AND/OR CONTAINS HYDRIC INCLUSIONS
 ** MAY CONTAIN HYDRIC INCLUSIONS
 † GENERALLY ONLY WITHIN 100-YEAR FLOODPLAIN AREAS



LEGEND	
SYMBOL	DESCRIPTION
--- (dashed)	EXISTING CONTOUR 2' INTERVAL
--- (dashed)	EXISTING CONTOUR 10' INTERVAL
--- (dashed)	PROPOSED CONTOUR 2' INTERVAL
--- (dashed)	PROPOSED CONTOUR 10' INTERVAL
-SF-SF-	SILT FENCE
L.O.D.	LIMIT OF DISTURBANCE
---	EXISTING TREELINE
---	PROPOSED TREELINE
---	WETLANDS BUFFER
---	WETLANDS LIMITS
○	STORM DRAIN
○	NATURAL AREA CONSERVATION CREDIT
○	NON-ROOFTOP DISCONNECTION CREDIT AREA
---	EXISTING PRIVATE SIGHT DISTANCE EASEMENT (L 7710, F. 090)
---	EXISTING PUBLIC DRAINAGE & UTILITY EASEMENT (P.B. 26, F. 14)
---	EXISTING LIMIT OF WETLANDS (PLAT NOS. 21833 AND 21834)
---	PUBLIC SEWER, WATER & UTILITY EASEMENT
---	PRIVATE USE-ON-LYNN TRAILWAY EASEMENT FOR THE BENEFIT OF LOTS 2 THRU 7
---	PRIVATE H.O.A. DRAINAGE & UTILITY EASEMENT
---	NATURAL AREA CREDIT EASEMENT
---	TOP OF BANK-STREAM BANK BUFFER
---	BIO-RETENTION FILTER AREA

FISHER, COLLINS & CARTER, INC.
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
 CENTONIAL SQUARE OFFICE PARK - 10770 BALDORNE NATIONAL PkE.
 ELLICOTT CITY, MARYLAND 21042
 (410) 461-2899



SURVEYOR'S CERTIFICATE
 "I certify that this plan for erosion and sediment control represents a practical and workable plan based on my personal knowledge of the site conditions and that it was prepared in accordance with the requirements of the Howard Soil Conservation District."
 Signature: *Frank John Mancoski II* Date: 12-5-13

DEVELOPER'S CERTIFICATE
 "I certify that all development and construction will be done according to this plan, for sediment and erosion control and that any responsible personnel involved in the construction project will have a Certificate of Attendance at a Department of the Environment Approved Training Program for the Control of Sediment and Erosion before beginning the project. I also authorize the on-site inspection by the Howard Soil Conservation District."
 Signature of Developer: *Kevin Bowser* Date: 12-5-13

This development plan is approved for soil erosion and sediment control by the HOWARD SOIL CONSERVATION DISTRICT.
 Signature: *John K. White* Date: 12/5/13
 Howard SCD

OWNER
 NORMANDY OAKS BAKER, LLC
 10751 FALLS ROAD
 LUTHERVILLE, MARYLAND 21093
 SUITE 405
 410-465-4761
 ATTN: MICHAEL J. MCCANN

BUILDER
 RYAN HOMES
 9720 PATUXENT WOODS DRIVE
 COLUMBIA, MARYLAND 21046
 410-796-0980
 ATTN: MR. KEVIN BOWSER

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
 Signature: *Kevin L. ...* Date: 1/22/14
 Chief, Division of Land Development
 Signature: *David E. ...* Date: 12-22-13
 Chief, Development Engineering Division
 Signature: *David L. ...* Date: 1/22/14
 Director - Department of Planning and Zoning

PROJECT	SECTION	LOT NO.			
NORMANDY OAKS	N/A	2 THRU 7			
PLAT	BLOCK NO.	ZONE	TAX/ZONE	ELEC. DIST.	CENSUS TR.
22396	13	R-20	10	2	6088.02

SEDIMENT/EROSION CONTROL PLAN
SINGLE FAMILY DETACHED
NORMANDY OAKS
 LOTS 2 THRU 7
 ZONED: R-20
 TAX MAP No.: 18 PARCEL NO.: 51 GRID NO.: 13
 SECOND ELECTION DISTRICT: HOWARD COUNTY, MARYLAND
 SCALE: 1" = 30' DATE: DECEMBER 02, 2013
 SHEET 3 OF 6 **SDP-14-018**

1:2005.05.149(04)SUPPORT PLAN 2012.05.149 Site Plan Lots 2 Thru 7 (SHT.2) DWG. SHEET 3, 12/4/2013 2:45:42 PM, 1:1

Infiltration and Filter System Construction Specifications

Infiltration and filter systems either take advantage of existing permeable soils or create a permeable medium such as sand for WQ, and for in some instances where permeability is great, these facilities may be used for up to 25% of the total flow. The most common systems include infiltration trenches, infiltration basins, sand filters, and organic filters.

When properly planted, vegetation will thrive and enhance the functioning of these systems. For example, pre-treatment basins will trap sediments that often are bound with phosphorus and metals. Vegetation planted in the facility will aid in nutrient uptake and water storage. Additionally, plant roots will provide aeration for stormwater to permeate soil for groundwater recharge. Finally, successful plantings provide aesthetic value and wildlife habitat making these systems more desirable to the public.

Design Constraints:

- > Planting buffer strips of at least 20 feet will cause sediments to settle out before reaching the facility, thereby reducing the possibility of clogging.
- > Determine areas that will be subjected to water and water table depth so that appropriate plants may be selected (hydrology will be similar to bioretention facilities, see Figure A.5 and Table A.4 for planting material guidance).
- > Plants known to send down deep taproots should be avoided in systems where filter fabric is used as part of facility design.
- > Test soil conditions to determine if soil amendments are necessary.
- > Plants shall be located so that access is possible for structure maintenance.
- > Stabilize heavy flow areas with erosion control mats or straw.
- > Temporary divert flows from seeded areas until vegetation is established.
- > See Table A.5 for additional design considerations.

Bio-retention Soil Bed Characteristics

The characteristics of the soil for bioretention facility are perhaps as important as the facility location, size, and treatment volume. The soil must be permeable enough to allow runoff to filter through the media, while having characteristics suitable to promote and sustain a robust vegetative cover crop. In addition, much of the nutrient pollution uptake (nitrogen and phosphorus) is accomplished through absorption and microbial activity within the soil profile. Therefore, soils must balance their chemical and physical properties to support biotic conditions above and below ground.

The planting soil should be a sandy loam, loamy sand, loam (USDA), or a loam-silt mix (should contain a minimum 55 to 60% sand, by volume). The clay content for these soils should be less than 25% by volume (Environmental Quality Resources (EQ2), 1996; Engineering Technology Inc. and Sustainable Inc. (2004), 1993). Soils should fall within the SM, M, SC classifications or the Unified Soil Classification System (USCS). A permeability of at least 1.0 feet per day (0.27 ft/d) is required (a conservative value of 0.5 feet per day is used for design). The soil should be free of stones, stumps, roots or other woody material over 1" in diameter. Brush or seeds from noxious weeds (e.g., Johnson Grass, Hogweed, Nutsedge, and Canada Thistle, or other noxious weeds as specified under COMAC 15.08.01.05) should not be present in the soil. Placement of the planting soil should be 12 to 18 inches thick and loosely compacted (tamped lightly with a backhoe bucket or trowel by dozer tracks). The specific characteristics are presented in Table A.3.

Table A.3 Planting Soil Characteristics

Parameter	Value
pH range	5.2 to 7.00
Organic matter	1.5 to 4.0% (by weight)
Nitrogen	35 lbs. per acre, minimum
Phosphorus (phosphate - P2O5)	75 lbs. per acre, minimum
Potassium (potash - K2O)	85 lbs. per acre, minimum
Soluble salts	500 ppm
Clay	10 to 25 %
Silt	30 to 55 %
Sand	35 to 60%

Mulch Layer
The mulch layer plays an important role in the performance of the bioretention system. The mulch layer helps maintain soil moisture and avoids surface sealing, which reduces permeability. Mulch helps prevent erosion, and provides a microenvironment suitable for soil biota at the mulch-soil interface. It also serves as a pretreatment layer, trapping the finer sediments, which remain suspended after the primary pretreatment.

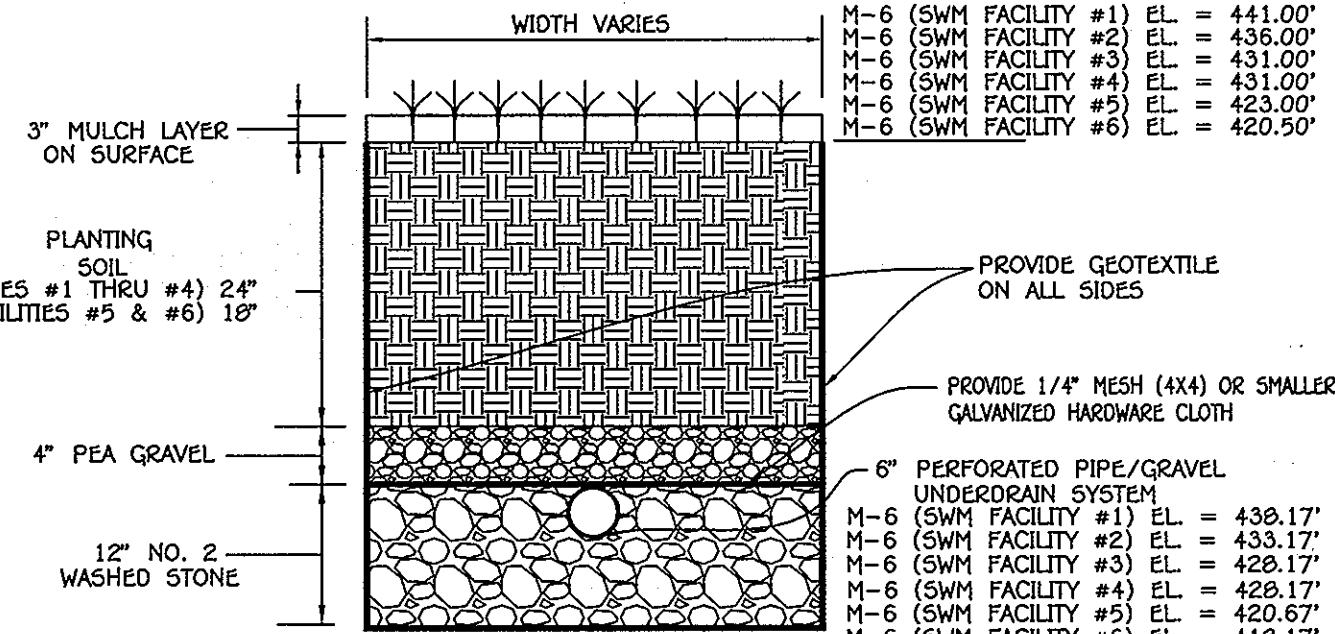
The mulch layer should be standard landscape style, single or double shredded hardwood mulch or chips. The mulch layer should be well aged (stockpiled or stored for at least 12 months), uniform in color, and free of other materials, such as weed seeds, soil, roots, etc. The mulch should be applied to a maximum depth of three inches. Grass clippings should not be used as a mulch material.

Planting Guidance

Plant material selection should be based on the goal of simulating a terrestrial forested community of native species. Bioretention simulates an upland-species ecosystem. The community should be dominated by trees, but have a distinct community of understory trees, shrubs and herbaceous materials, to create a diverse, dense plant cover. A bioretention facility will be able to treat stormwater runoff and withstand urban stresses from insects, diseases, drought, temperature, wind, and exposure. The proper selection and installation of plant materials is key to a successful system. There are essentially three zones within a bioretention facility (Figure A.5). The lowest elevation supports plant species adapted to wetter levels. The middle elevation supports plants that like drier soil conditions, but can still tolerate occasional inundation by water. The outer edge is the highest elevation and generally supports plants adapted to drier conditions. A sample of appropriate plant materials for bioretention facilities are included in Table A.4. The layout of planting material should be flexible, but should follow the general principles described in Table A.5. The objective is to have a system, which resembles a garden, and not just a lawn. While maintaining optimal conditions for plant establishment and growth. For a more extensive bioretention plan, consult EPA, 1993 or Clayer and Schuster, 1997.

OPERATION AND MAINTENANCE SCHEDULE FOR BIO-RETENTION AREAS (M-6)

1. ANNUAL MAINTENANCE OF PLANT MATERIAL, MULCH LAYER AND SOIL LAYER IS REQUIRED. MAINTENANCE OF MULCH AND SOIL IS LIMITED TO CORRECTING AREAS OF EROSION OR WASH OUT. ANY MULCH REPLACEMENT SHALL BE DONE IN THE SPRING. PLANT MATERIAL SHALL BE CHECKED FOR DISEASE AND INSECT INFESTATION AND MAINTENANCE WILL ADDRESS DEAD MATERIAL AND PRUNING.
2. SCHEDULE OF PLANT INSPECTION WILL BE TWICE A YEAR IN SPRING AND FALL. THIS INSPECTION WILL INCLUDE REMOVAL OF DEAD AND DISEASED VEGETATION CONSIDER BEYOND TREATMENT. TREATMENT OF ALL DISEASED TREES AND SHRUBS AND REPLACEMENT OF ALL DEFICIENT STAKES AND WIRDS.
3. MULCH SHALL BE INSPECTED EACH SPRING. REMOVE PREVIOUS MULCH LAYER BEFORE APPLYING NEW LAYER ONCE EVERY 2 TO 3 YEARS.
4. SOIL EROSION TO BE ADDRESSED ON AN AS NEEDED BASIS, WITH A MINIMUM OF ONCE PER MONTH AND AFTER EVERY STORM EVENT.



TYPICAL SECTION - BIO-RETENTION FACILITY (M-6)

NO SCALE

QUANTITY	NAME	MAXIMUM SPACING (FT.)
100	PERENNIALS	1 FT.
50	SHRUBS	2 FT.

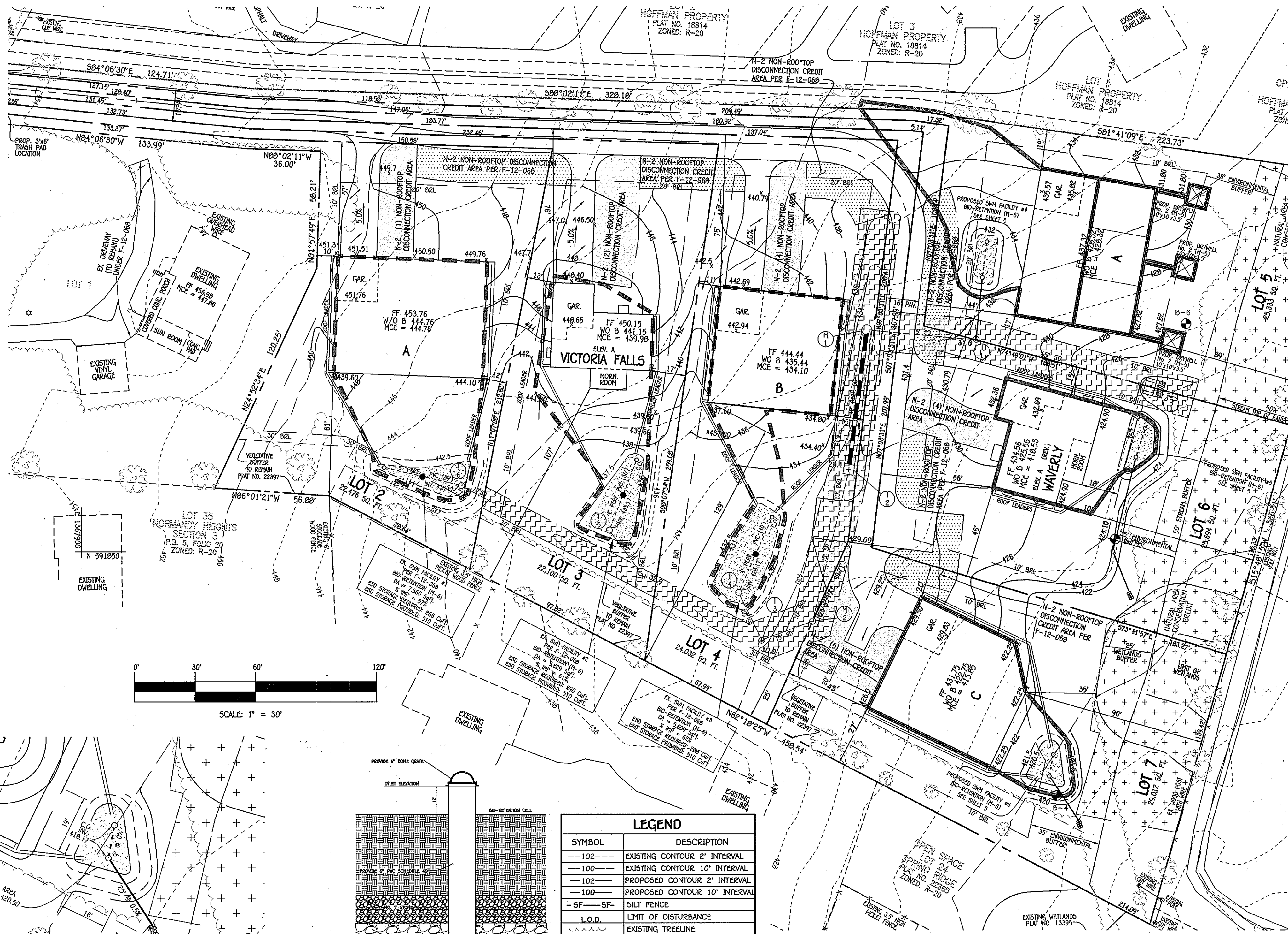
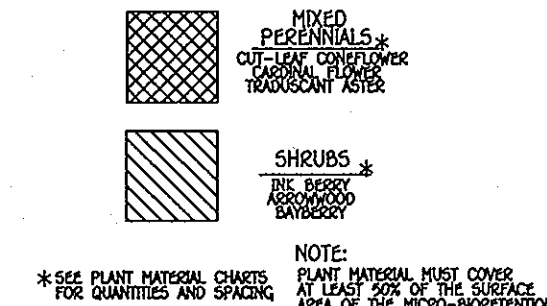
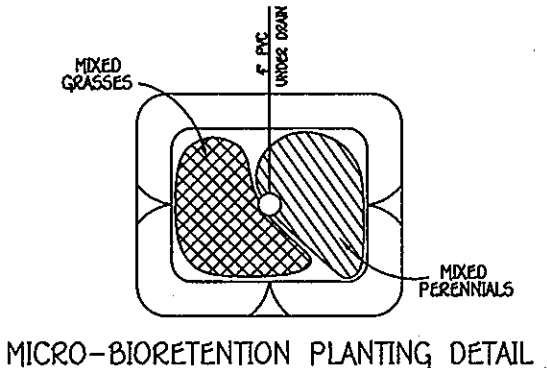
QUANTITY	NAME	MAXIMUM SPACING (FT.)
150	PERENNIALS	1 FT.
80	SHRUBS	2 FT.

QUANTITY	NAME	MAXIMUM SPACING (FT.)
160	PERENNIALS	1 FT.
80	SHRUBS	2 FT.

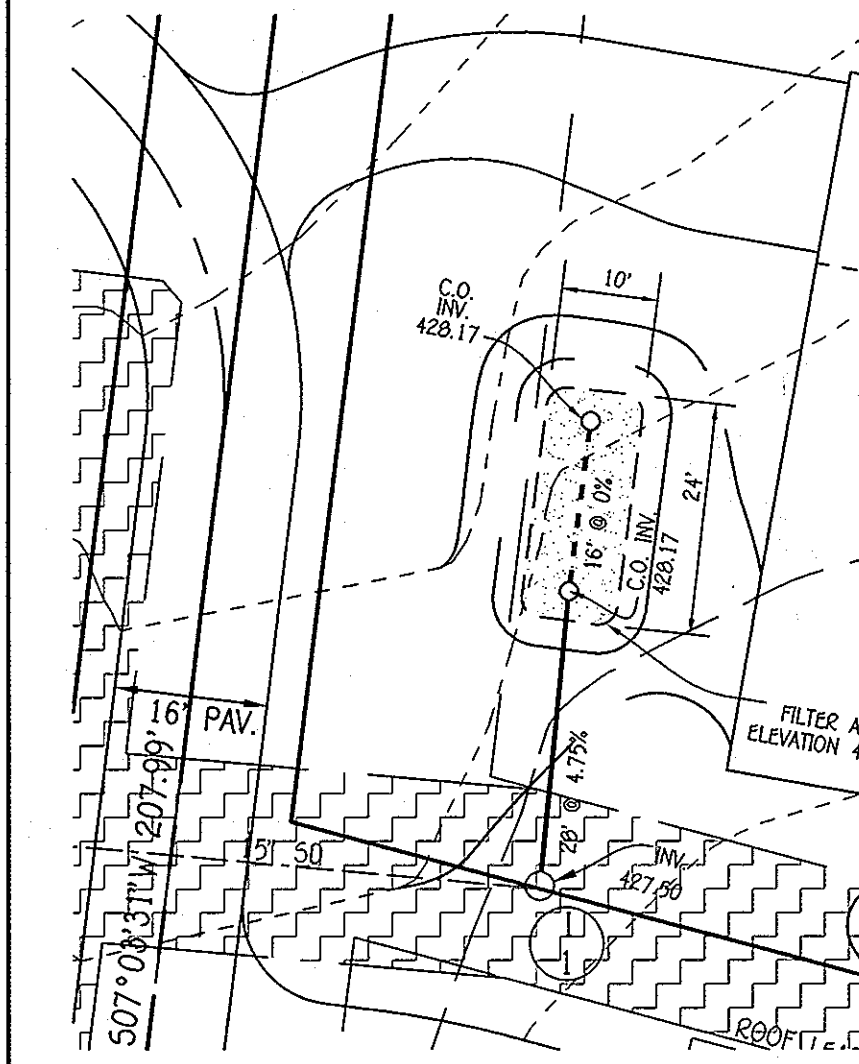
QUANTITY	NAME	MAXIMUM SPACING (FT.)
60	PERENNIALS	1 FT.
30	SHRUBS	2 FT.

QUANTITY	NAME	MAXIMUM SPACING (FT.)
40	PERENNIALS	1 FT.
20	SHRUBS	2 FT.

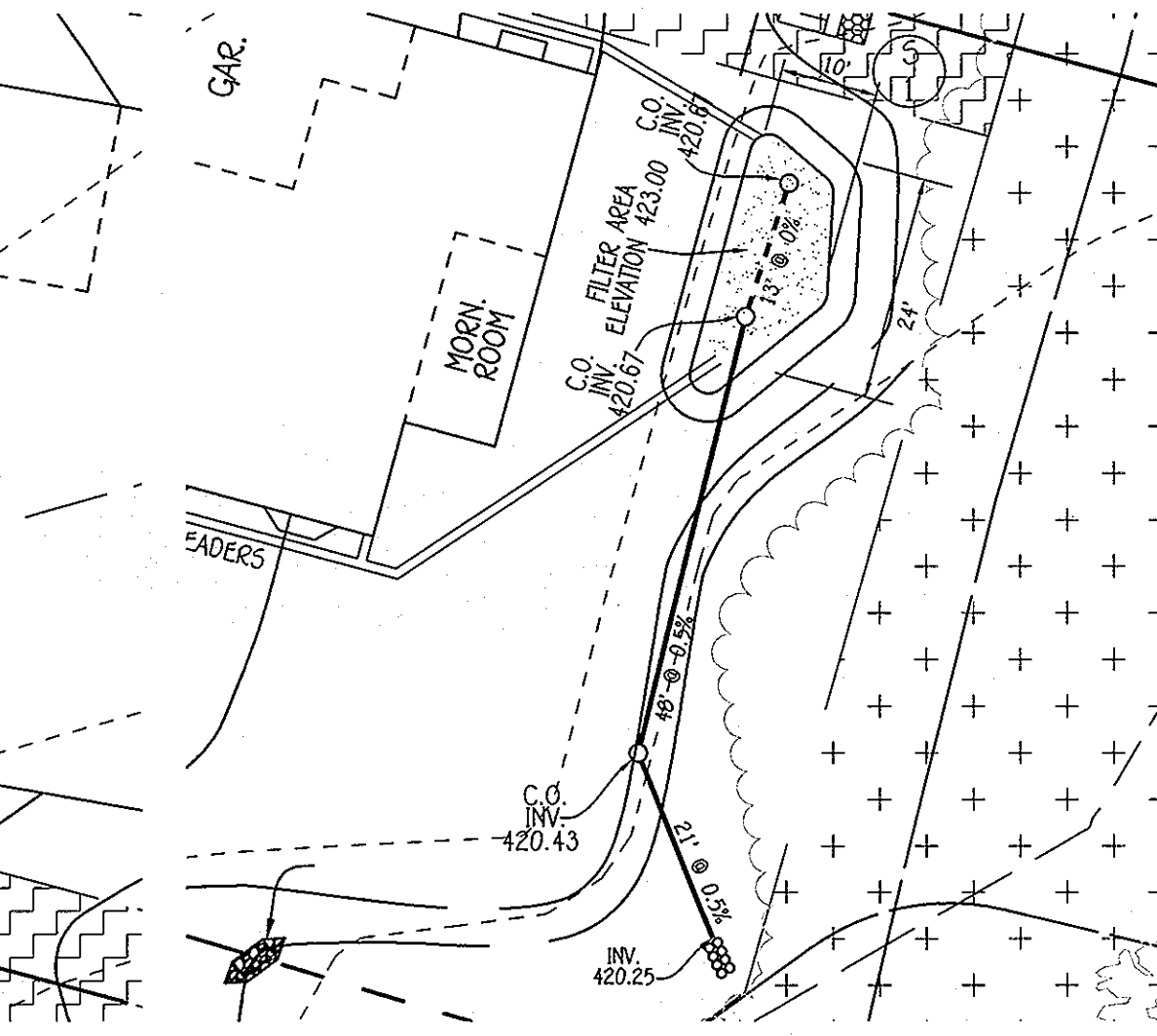
QUANTITY	NAME	MAXIMUM SPACING (FT.)
70	PERENNIALS	1 FT.
37	SHRUBS	2 FT.



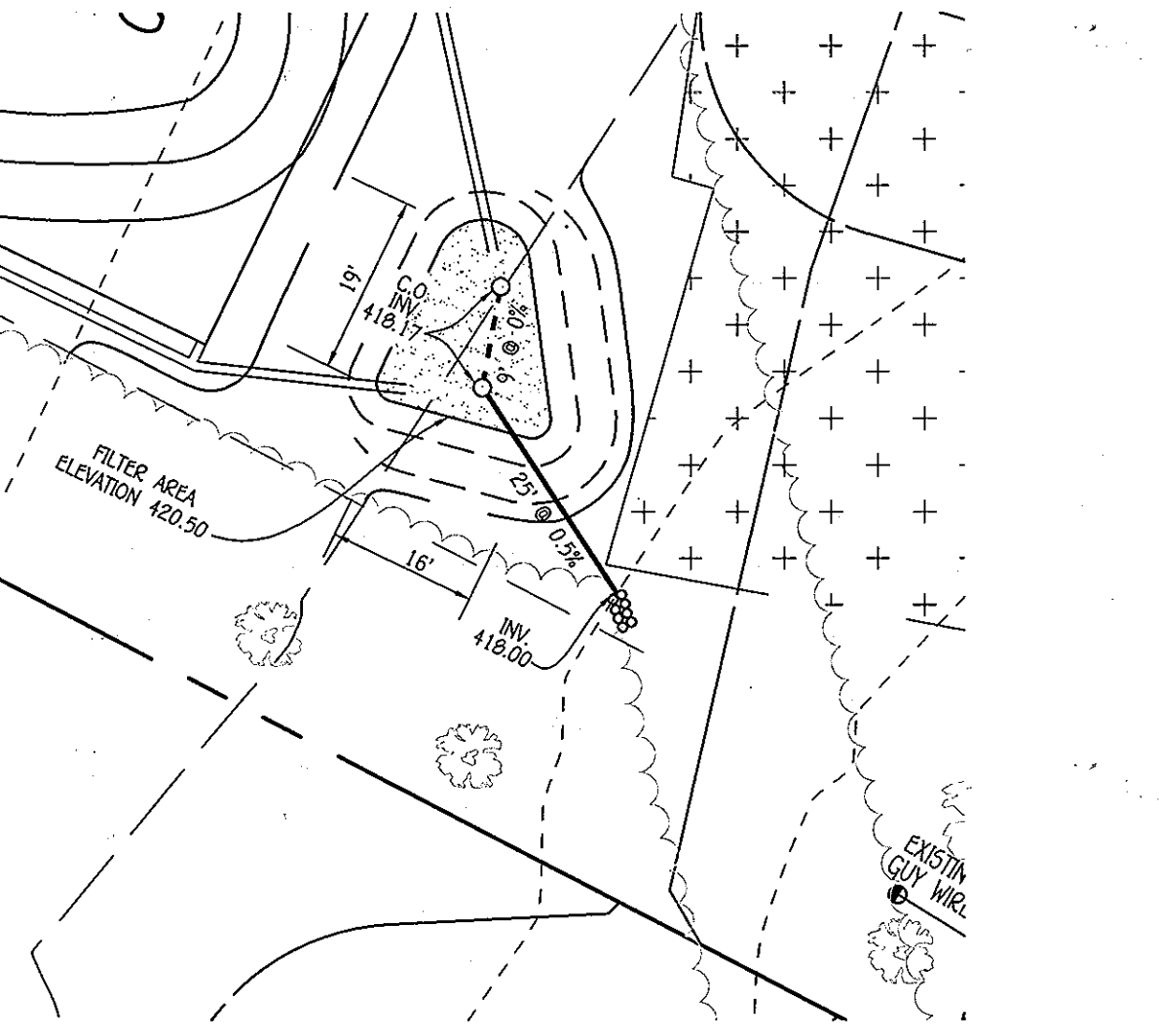
SWM DRAINAGE AREA MAP
SCALE: 1" = 30'



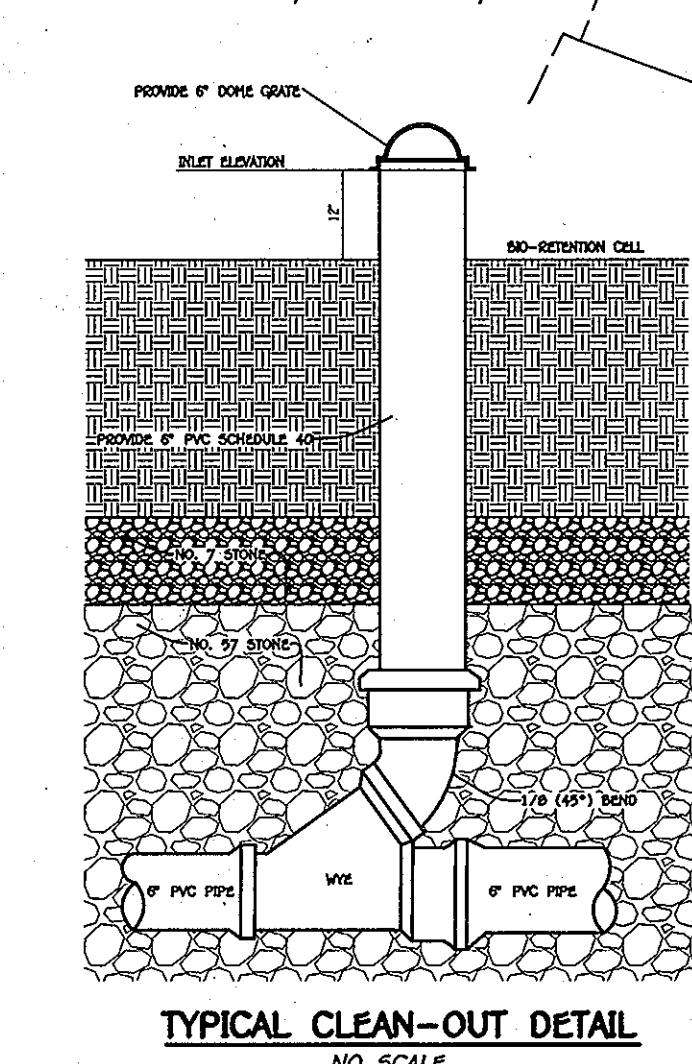
SWM FACILITY #4
MICRO BIO-RETENTION FACILITY (M-6)
SCALE: 1" = 20'
DRAINAGE AREA: 6,605 SqFt.
FILTER AREA: 238 SqFt.
PERIMETER: 65'



SWM FACILITY #5
MICRO BIO-RETENTION FACILITY (M-6)
SCALE: 1" = 20'
DRAINAGE AREA: 4,853 SqFt.
FILTER AREA: 189 SqFt.
PERIMETER: 59'



SWM FACILITY #6
MICRO BIO-RETENTION FACILITY (M-6)
SCALE: 1" = 20'
DRAINAGE AREA: 3,321 SqFt.
FILTER AREA: 293 SqFt.
PERIMETER: 68'



TYPICAL CLEAN-OUT DETAIL
NO SCALE
SCALE: 1" = 20'

LEGEND

SYMBOL	DESCRIPTION
---	EXISTING CONTOUR 2' INTERVAL
---	EXISTING CONTOUR 10' INTERVAL
---	PROPOSED CONTOUR 2' INTERVAL
---	PROPOSED CONTOUR 10' INTERVAL
-SF-SF-	SILT FENCE
L.O.D.	LIMIT OF DISTURBANCE
---	EXISTING TREELINE
---	PROPOSED TREELINE
---	WETLANDS BUFFER
---	WETLANDS LIMITS
○	STORM DRAIN
○	NATURAL AREA
○	CONSERVATION CREDIT
○	NON-ROOFTOP DISCONNECTION CREDIT AREA
---	EXISTING PRIVATE SIGHT DISTANCE EASEMENT (L 1710, F. 098)
---	EXISTING PUBLIC DRAINAGE & UTILITY EASEMENT (P.B. 26, F. 14)
---	EXISTING LIMIT OF WETLANDS (PLAT NOS. 21833 AND 21834)
---	PUBLIC SEWER, WATER & UTILITY EASEMENT
---	PRIVATE USE IN COMMON TRAILWAY EASEMENT FOR THE BENEFIT OF LOTS 2 THRU 7
---	PRIVATE H.O.A. DRAINAGE & UTILITY EASEMENT
---	NATURAL AREA CREDIT EASEMENT
---	TOP OF BANK-STREAM BANK BUFFER
---	VEGETATIVE BUFFER TO REMAIN

FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
10772 BALTIMORE NATIONAL PIKE
ELICOTT CITY, MARYLAND 21042
(410) 461-2895

STATE OF MARYLAND
FRANK JOHN MANALAYAN II
PROFESSIONAL LAND SURVEYOR
No. 21476

PROFESSIONAL CERTIFICATION
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM A DULY LICENSED PROFESSIONAL SURVEYOR UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 21476, EXPIRATION DATE: 7/14/15.
Frank John Manalayan II
DATE: 12-3-13

OWNER
NORMANDY OAKS BAKER, LLC
10751 FALLS ROAD
LUTHERVILLE, MARYLAND 21093
SUITE 405
410-485-4761
ATTN: MICHAEL J. MCCANN

BUILDER
RYAN HOMES
9720 PATUXENT WOODS DRIVE
COLUMBIA, MARYLAND 21046
410-796-0980
ATTN: MR. KEVIN BOWSER

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

Howard County
Chief, Division of Land Development
Date: 11/23/13

David L. Long
Chief, Development Engineering Division
Date: 11/21/13

Director - Department of Planning and Zoning

PROJECT	SECTION	LOT NO.
NORMANDY OAKS	N/A	2 THRU 7

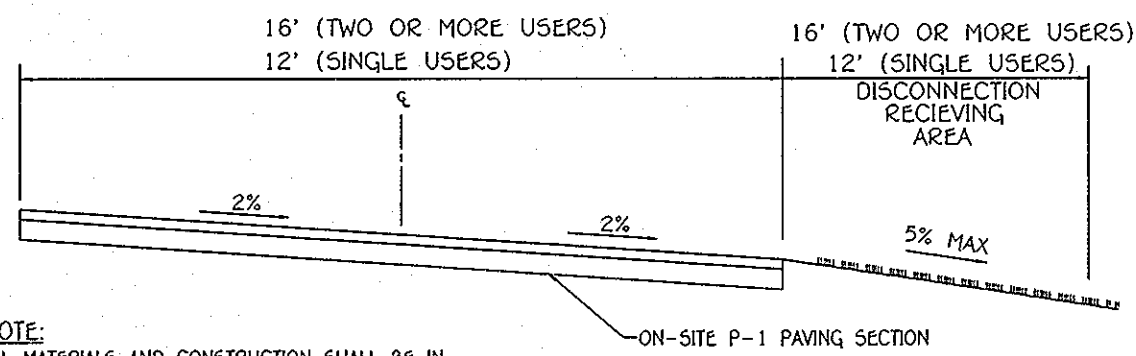
PLAT	BLOCK NO.	ZONE	TAX/ZONE	ELEC. DIST.	CENSUS TR.
22396	13	R-20	10	2	6088.02

SWM NOTES AND DETAILS

SINGLE FAMILY DETACHED
NORMANDY OAKS
LOTS 2 THRU 7
ZONED: R-20

TAX MAP No.: 18 PARCEL No.: 51 GRID No.: 13
SECOND ELECTION DISTRICT: HOWARD COUNTY, MARYLAND
SCALE: 1" = 30' DATE: DECEMBER 02, 2013

SHEET 5 OF 6 **SDP-14-018**

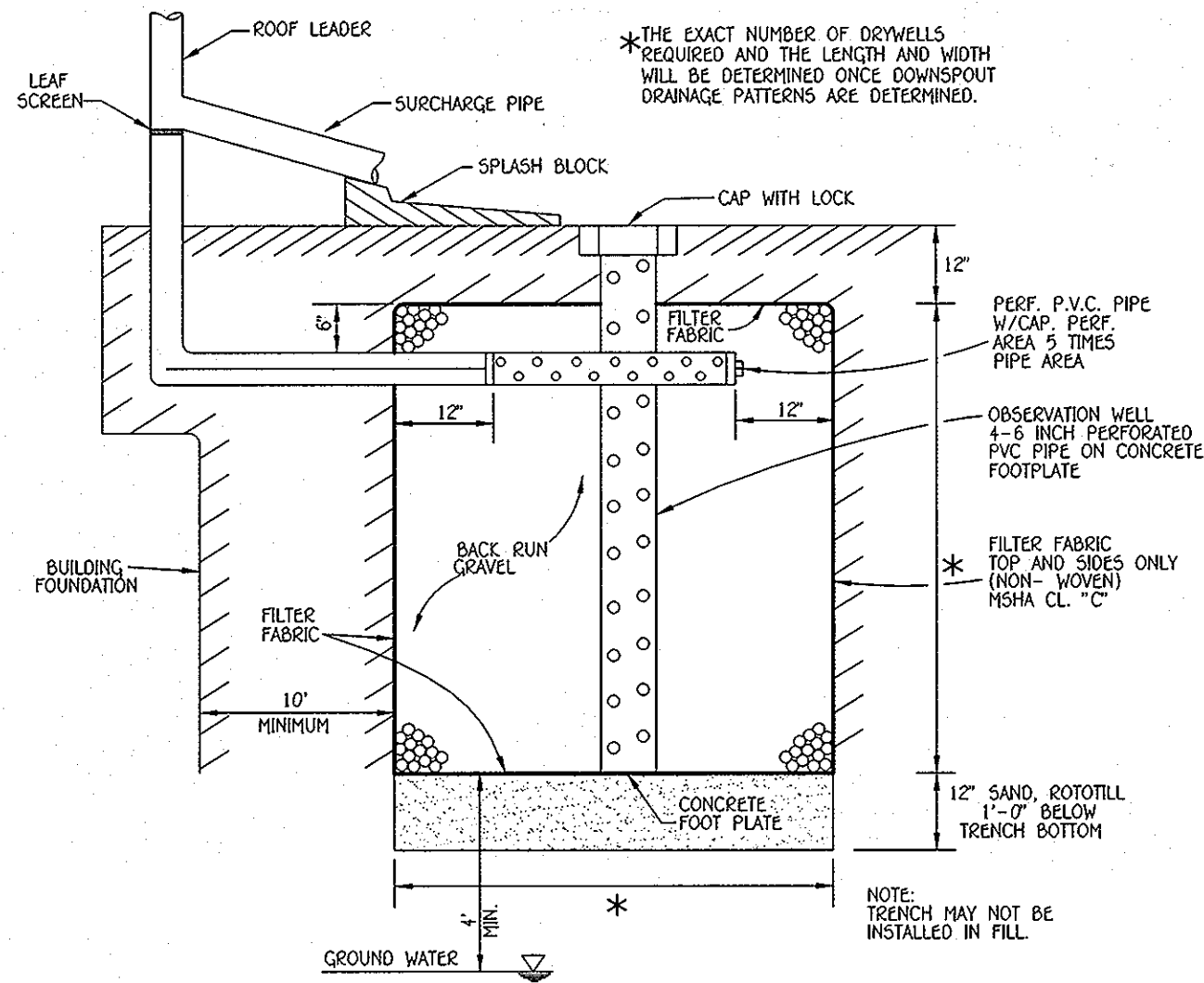


NOTE:
ALL MATERIALS AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH HOWARD COUNTY DESIGN MANUAL VOLUME IV, STANDARD SPECIFICATION AND DETAILS FOR CONSTRUCTION.

TYPICAL PRIVATE DRIVE CROSS SLOPE SECTION
NOT TO SCALE

OPERATION & MAINTENANCE SCHEDULE FOR PRIVATELY OWNED AND MAINTAINED DISCONNECTION OF NONROOFTOP RUNOFF (N-2)

1. MAINTENANCE OF AREAS RECEIVING DISCONNECTION RUNOFF IS GENERALLY NO DIFFERENT THAN THAT REQUIRED FOR OTHER LAWN OR LANDSCAPED AREAS. THE AREAS RECEIVING RUNOFF SHOULD BE PROTECTED FROM FUTURE COMPACTION OR DEVELOPMENT OF INFERTILE AREA. IN COMMERCIAL AREAS, FOOT TRAFFIC SHOULD BE DISCOURAGED AS WELL.



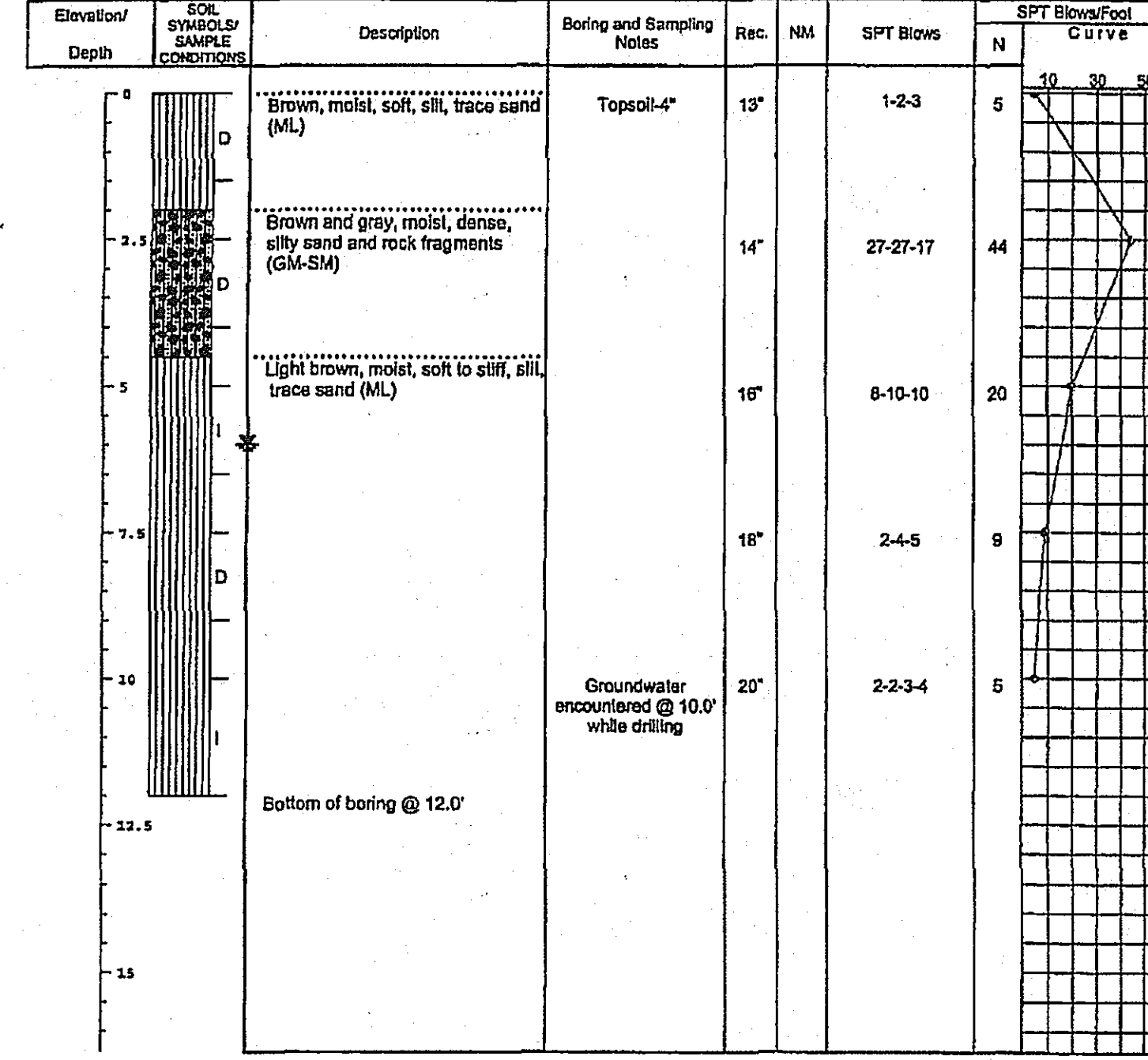
OPERATION AND MAINTENANCE SCHEDULE FOR DRYWELLS (M-5)

- THE OWNER SHALL INSPECT THE MONITORING WELLS AND STRUCTURES ON A QUARTERLY BASIS AND AFTER EVERY HEAVY STORM EVENT.
- THE OWNER SHALL RECORD THE WATER LEVELS AND SEDIMENT BUILD UP IN THE MONITORING WELLS OVER A PERIOD OF SEVERAL DAYS TO INSURE TRENCH DRAINAGE.
- THE OWNER SHALL MAINTAIN A LOG BOOK TO DETERMINE THE RATE AT WHICH THE FACILITY DRAINS.
- WHEN THE FACILITY BECOMES CLOGGED SO THAT IT DOES NOT DRAIN WITHIN A SEVENTY TWO (72) HOUR PERIOD, CORRECTIVE ACTION SHALL BE TAKEN.
- THE MAINTENANCE LOG BOOK SHALL BE AVAILABLE TO HOWARD COUNTY FOR INSPECTION TO INSURE COMPLIANCE WITH OPERATION AND MAINTENANCE CRITERIA.
- ONCE THE PERFORMANCE CHARACTERISTICS OF THE INFILTRATION FACILITY HAVE BEEN VERIFIED, THE MONITORING SCHEDULE CAN BE REDUCED TO AN ANNUAL BASIS UNLESS THE PERFORMANCE DATA INDICATES THAT A MORE FREQUENT SCHEDULE IS REQUIRED.

LOT NO.	AREA OF ROOF PER DOWNSPOUT	VOLUME REQUIRED	VOLUME PROVIDED	NUMBER OF DRYWELLS	D x L x W
1	831 SQ. FT.	198 CU. FT.	315 CU. FT.	3	10' x 10' x 3.5'

HILLIS - CARNES ENGINEERING ASSOCIATES, INC. RECORD OF SOIL EXPLORATION

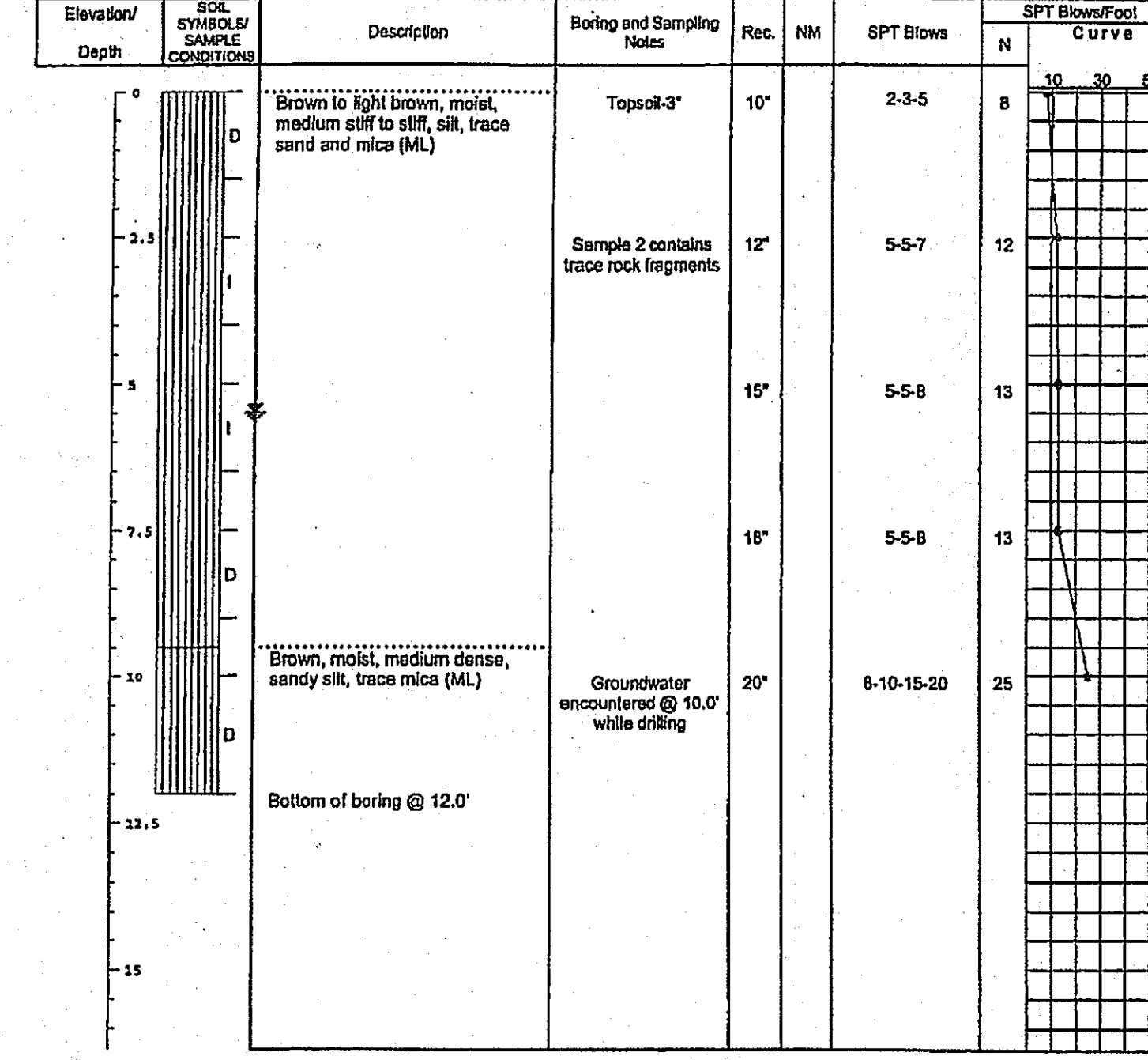
Project Name: Normandy Oaks SWM Boring No. B-4
 Location: Howard County, Maryland Job # 06636A
 Datum: Hammer Wt. 140 lbs. Hole Diameter 6" Foreman L. Smith
 Surf. Elev. Ft. Hammer Drop 30 in. Rock Core Diameter Inspector
 Date Started 10/12/06 Pipe Size 2 in. Boring Method HSA Date Completed 10/12/06



SAMPLER TYPE	SAMPLE CONDITIONS	AT COMPLETION	GROUND WATER	CAVE IN DEPTH	BORING METHOD
DRIVEN SPIGOT SPOON UNLESS OTHERWISE	D-DISINTEGRATED	AFTER 24 HRS.	Dry ft. 7.5	ft. 7.5	HSA - HOLLOW STEM AUGERS
PT - PRESSED SHELBY TUBE	I-INTACT	AFTER 24 HRS.	ft. 6.0	ft. 7.0	CFA - CONTINUOUS FLIGHT AUGER
CA - CONTINUOUS FLIGHT AUGER	U-UNDISTURBED	AFTER HRS.	ft. N/A	ft. N/A	DC - DRIVING CASING
RC - ROCK CORE	L-LOST	AFTER HRS.	ft. N/A	ft. N/A	MD - MUD DRILLING

HILLIS - CARNES ENGINEERING ASSOCIATES, INC. RECORD OF SOIL EXPLORATION

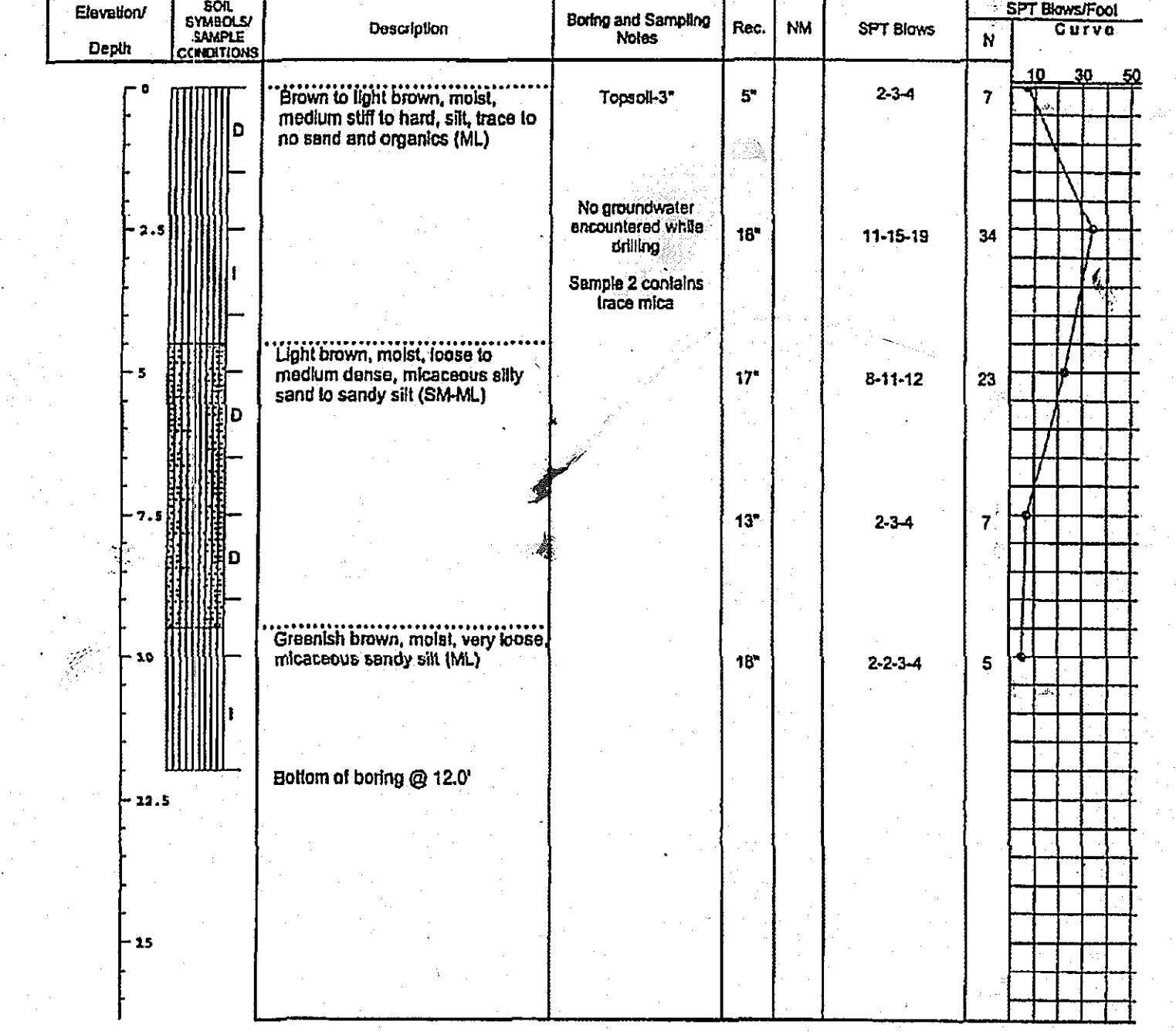
Project Name: Normandy Oaks SWM Boring No. B-5
 Location: Howard County, Maryland Job # 06636A
 Datum: Hammer Wt. 140 lbs. Hole Diameter 6" Foreman L. Smith
 Surf. Elev. Ft. Hammer Drop 30 in. Rock Core Diameter Inspector
 Date Started 10/12/06 Pipe Size 2 in. Boring Method HSA Date Completed 10/12/06



SAMPLER TYPE	SAMPLE CONDITIONS	AT COMPLETION	GROUND WATER	CAVE IN DEPTH	BORING METHOD
DRIVEN SPIGOT SPOON UNLESS OTHERWISE	D-DISINTEGRATED	AFTER 24 HRS.	Dry ft. 5.5	ft. 7.0	HSA - HOLLOW STEM AUGERS
PT - PRESSED SHELBY TUBE	I-INTACT	AFTER 24 HRS.	ft. 6.0	ft. 7.0	CFA - CONTINUOUS FLIGHT AUGER
CA - CONTINUOUS FLIGHT AUGER	U-UNDISTURBED	AFTER HRS.	ft. N/A	ft. N/A	DC - DRIVING CASING
RC - ROCK CORE	L-LOST	AFTER HRS.	ft. N/A	ft. N/A	MD - MUD DRILLING

HILLIS - CARNES ENGINEERING ASSOCIATES, INC. RECORD OF SOIL EXPLORATION

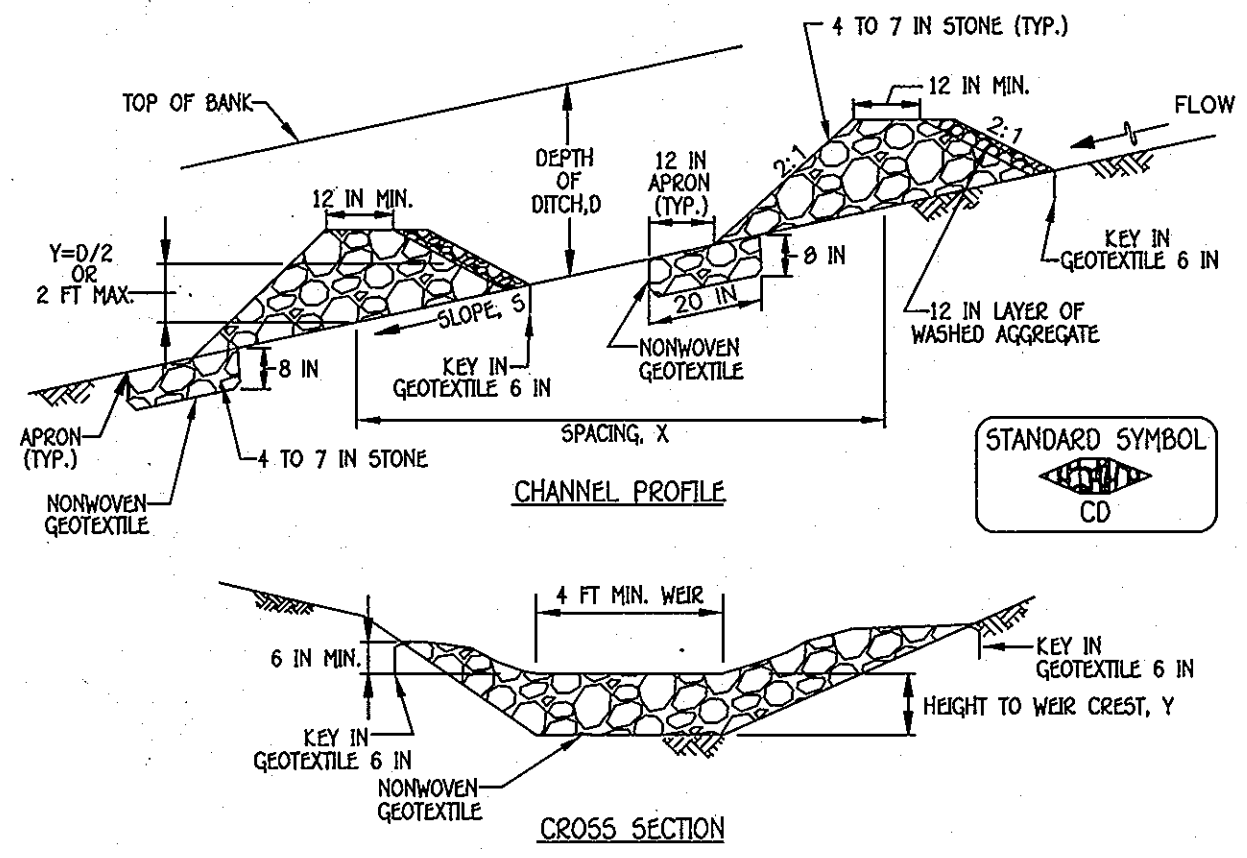
Project Name: Normandy Oaks SWM Boring No. B-6
 Location: Howard County, Maryland Job # 06636A
 Datum: Hammer Wt. 140 lbs. Hole Diameter 6" Foreman L. Smith
 Surf. Elev. Ft. Hammer Drop 30 in. Rock Core Diameter Inspector
 Date Started 10/12/06 Pipe Size 2 in. Boring Method HSA Date Completed 10/12/06



SAMPLER TYPE	SAMPLE CONDITIONS	AT COMPLETION	GROUND WATER	CAVE IN DEPTH	BORING METHOD
DRIVEN SPIGOT SPOON UNLESS OTHERWISE	D-DISINTEGRATED	AFTER 24 HRS.	Dry ft. 5.0	ft. 5.0	HSA - HOLLOW STEM AUGERS
PT - PRESSED SHELBY TUBE	I-INTACT	AFTER 24 HRS.	ft. 5.0	ft. 5.0	CFA - CONTINUOUS FLIGHT AUGER
CA - CONTINUOUS FLIGHT AUGER	U-UNDISTURBED	AFTER HRS.	ft. N/A	ft. N/A	DC - DRIVING CASING
RC - ROCK CORE	L-LOST	AFTER HRS.	ft. N/A	ft. N/A	MD - MUD DRILLING

OPERATION AND MAINTENANCE SCHEDULE FOR H.O.A. OWNED AND MAINTAINED UNDERGROUND S.W.M. FACILITY PREVIOUS PROVIDED ON F-12-06B

- H.O.A. ROUTINE MAINTENANCE RESPONSIBILITIES:
 - THE UNDERGROUND S.W.M. FACILITY SHALL BE INSPECTED ANNUALLY AND AFTER MAJOR STORMS. INSPECTIONS SHOULD BE PERFORMED DURING WET WEATHER TO DETERMINE IF THE FACILITY IS FUNCTIONING PROPERLY.
 - MAINTENANCE OF THE 48-INCH PIPE SHALL BE PERFORMED BY FLUSHING THE SYSTEM THROUGH I-2 AND BY VACUUMING AT MANHOLE M-1. THE DISCHARGE ORIFICE OF THE UNDERGROUND S.W.M. FACILITY SHALL BE TEMPORARILY BLOCKED DURING SAID MAINTENANCE OPERATION.
 - DISPOSAL OF MATERIAL SHALL BE IN ACCORDANCE WITH SIMILAR R.H.P. THAT RANGE FROM DISPOSAL IN A SANITARY LANDFILL TO INCINERATION IN A LICENSED FACILITY. PETROLEUM WASTE PRODUCTS SHOULD BE REMOVED BY A LICENSED WASTE MANAGEMENT COMPANY.
- H.O.A. NON-ROUTINE MAINTENANCE:
 - STRUCTURAL COMPONENTS OF THE UNDERGROUND FACILITY SUCH AS THE MANHOLE, PIPE AND ORIFICE SHALL BE REPAIRED UPON DETECTION OF ANY DAMAGE. THE COMPONENTS SHOULD BE INSPECTED DURING ROUTINE MAINTENANCE OPERATIONS. INSPECTION REPORTS SHALL BE KEPT UNTIL THE NEXT SUBSEQUENT INSPECTION.
 - PROBLEMS IDENTIFIED DURING INSPECTION WILL BE PROMPTLY CORRECTED. MAJOR PROBLEMS SHALL ALSO BE BROUGHT TO THE ATTENTION OF THE HOWARD COUNTY DEPT. OF PUBLIC WORKS TO INSURE THAT PUBLIC SAFETY IS MAINTAINED. BLOCKED DURING SAID MAINTENANCE OPERATION.



CONSTRUCTION SPECIFICATIONS

- PREPARE SWALES IN ACCORDANCE WITH THE CONSTRUCTION SPECIFICATIONS DESCRIBED IN SECTION C-2, STANDARDS AND SPECIFICATIONS FOR TEMPORARY SWALE, OR AS SPECIFIED ON PLAN.
- PLACE NONWOVEN GEOTEXTILE, AS SPECIFIED IN SECTION H-1 MATERIALS, UNDER THE BOTTOM AND SIDES OF THE DAM PRIOR TO PLACEMENT OF STONE. CONSTRUCT THE CHECK DAM WITH WASHED 4 TO 7 INCH STONE OR EQUIVALENT RECYCLED CONCRETE (WITHOUT REBAR) WITH SIDE SLOPES OF 2:1 OR FLATTER AND A MINIMUM TOP WIDTH OF 12 INCHES. PLACE THE STONE SO THAT IT COMPLETELY COVERS THE WIDTH OF THE CHANNEL AND CHANNEL BANKS FROM THE WEIR SO THAT TOP OF THE OUTLET CREST IS APPROXIMATELY 6 INCHES LOWER THAN THE OUTER EDGES. LINE THE UPSTREAM FACE OF THE DAM WITH A 1 FOOT THICK LAYER OF WASHED AGGREGATE (3/4 INCH TO 1 1/2 INCH).
- SET THE HEIGHT FOR THE WEIR CREST EQUAL TO ONE-HALF THE DEPTH OF THE CHANNEL OR DITCH. TO AVOID SCOUR THE MAXIMUM HEIGHT OF THE WEIR CREST MUST NOT EXCEED 2.0 FEET.
- REMOVE ACCUMULATED SEDIMENT WHEN IT REACHES ONE-HALF OF THE HEIGHT OF THE WEIR CREST. MAINTAIN LINE, GRADE, AND CROSS SECTION.

STONE CHECK DAM
NOT TO SCALE

STANDARDS & SPECIFICATIONS FOR STOCK PILE AREA

DEFINITION
A MOUND OR PILE OF SOIL PROTECTED BY APPROPRIATELY DESIGNED EROSION AND SEDIMENT CONTROL MEASURES.

PURPOSE
TO PROVIDE A DESIGNATED LOCATION FOR THE TEMPORARY STORAGE OF SOIL THAT CONTROLS THE POTENTIAL FOR EROSION, SEDIMENTATION, AND CHANGES TO DRAINAGE PATTERNS.

CONDITIONS WHERE PRACTICE APPLIES
STOCKPILE AREAS ARE UTILIZED WHEN IT IS NECESSARY TO SALVAGE AND STORE SOIL FOR LATER USE.

CRITERIA

- THE STOCKPILE LOCATION AND ALL RELATED SEDIMENT CONTROL PRACTICES MUST BE CLEARLY INDICATED ON THE EROSION AND SEDIMENT CONTROL PLAN.
- THE FOOTPRINT OF THE STOCKPILE MUST BE SIZED TO ACCOMMODATE THE ANTICIPATED VOLUME OF MATERIAL AND BASED ON A SIDE SLOPE RATIO NO STEEPER THAN 2:1. BENCHING MUST BE PROVIDED IN ACCORDANCE WITH SECTION B-3 LAND GRADING.
- RUNOFF FROM THE STOCKPILE AREA MUST DRAIN TO A SUITABLE SEDIMENT CONTROL PRACTICE.
- ACCESS TO THE STOCKPILE AREA FROM THE UPGRADE SIDE.
- CLEAR WATER RUNOFF INTO THE STOCKPILE AREA MUST BE MINIMIZED BY USE OF A DIVERSION DEVICE SUCH AS AN EARTH DIKE, TEMPORARY SWALE OR DIVERSION FENCE. PROVISIONS MUST BE MADE FOR DISCHARGING CONCENTRATED FLOW IN A NON-EROSIVE MANNER.
- WHERE RUNOFF CONCENTRATES ALONG THE TOE OF THE STOCKPILE FILL AN APPROPRIATE EROSION/SEDIMENT CONTROL PRACTICE MUST BE USED TO INTERCEPT THE DISCHARGE.
- STOCKPILES MUST BE STABILIZED IN ACCORDANCE WITH THE 3/7 DAY STABILIZATION REQUIREMENT AS WELL AS STANDARD B-4-1 INCORPORATED STABILIZATION AND STANDARD D-4-4 TEMPORARY STABILIZATION.
- IF THE STOCKPILE IS LOCATED ON AN IMPERVIOUS SURFACE, A LEAK SHOULD BE PROVIDED BELOW THE STOCKPILE TO FACILITATE CLEANUP. STOCKPILES CONTAINING CONTAMINATED MATERIAL MUST BE COVERED WITH IMPERMEABLE SHEETING.

MAINTENANCE
THE STOCKPILE AREA MUST CONTINUOUSLY MEET THE REQUIREMENTS FOR ADEQUATE VEGETATIVE ESTABLISHMENT IN ACCORDANCE WITH SECTION B-4 VEGETATIVE STABILIZATION. SIDE SLOPES MUST BE MAINTAINED AT NO STEEPER RATIO. THE STOCKPILE AREA MUST BE KEPT FREE OF EROSION. IF THE VERTICAL HEIGHT OF A STOCKPILE EXCEEDS 20 FEET FOR 2:1 SLOPES, 30 FEET FOR 3:1 SLOPES, OR 40 FEET FOR 4:1 SLOPES, BENCHING MUST BE PROVIDED IN ACCORDANCE WITH SECTION B-3 LAND GRADING.

FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
CENTENNIAL SQUARE OFFICE PARK - 10725 BALDWIN NATIONAL FEE
ELICOTT CITY, MARYLAND 21042
(410) 461 - 2299



SURVEYOR'S CERTIFICATE
"I certify that this plan for erosion and sediment control represents a practical and workable plan based on my personal knowledge of the site conditions and that it was prepared in accordance with the requirements of the Howard Soil Conservation District."
Signature: Frank John Manalac II Date: 12/5/13

DEVELOPER'S CERTIFICATE
"I/we certify that all development and construction will be done according to this plan, for sediment and erosion control and that any responsible personnel involved in the construction project will have a Certificate of Attendance of a Department of the Environment Approved Training Program for the Control of Sediment and Erosion before beginning the project. I also authorize periodic on-site inspection by the Howard Soil Conservation District."
Signature: Kevin Bowser Date: 12/5/13

This development plan is approved for soil erosion and sediment control by the HOWARD SOIL CONSERVATION DISTRICT.
Signature: John R. Robertson Date: 12/5/13

OWNER
NORMANDY OAKS BAKER, LLC
10751 FALLS ROAD
LUTHERVILLE, MARYLAND 21093
SUITE 405
410-465-4761
ATTN: MICHAEL J. MCCANN

BUILDER
RYAN HOMES
9720 PATUXENT WOODS DRIVE
COLUMBIA, MARYLAND 21046
410-796-0980
ATTN: MR. KEVIN BOWSER

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
 Chief, Division of Land Development: [Signature] Date: 1/22/14
 Chief, Development Engineering Division: [Signature] Date: 12-23-13
 Director - Department of Planning and Zoning: [Signature] Date: 1/21/14

PROJECT	SECTION	LOT NO.
NORMANDY OAKS	N/A	2 THRU 7

PLAT	BLOCK NO.	ZONE	TAX/ZONE	ELEC. DIST.	CENSUS TR.
22396	13	R-20	10	2	6088.02

SEDIMENT/EROSION CONTROL, SWM NOTES AND DETAILS

SINGLE FAMILY DETACHED
NORMANDY OAKS
LOTS 2 THRU 7
ZONED: R-20
TAX MAP No: 18 PARCEL NO.: 51 GRID NO.: 13
SECOND ELECTION DISTRICT HOWARD COUNTY, MARYLAND
SCALE: 1" = 30'
DATE: DECEMBER 02, 2013

SHEET 6 OF 6 SDP-14-018