

SHEET INDEX	
NO	DESCRIPTION
1	TITLE SHEET
2	OVERALL SITE DEVELOPMENT PLAN AND SOILS MAP
3	SITE DEVELOPMENT PLAN
4	SITE DEVELOPMENT PLAN
5	GRADING AND SEDIMENT CONTROL PLAN
6	GRADING AND SEDIMENT CONTROL PLAN
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8	SEDIMENT CONTROL DETAILS

GENERAL NOTES

- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE HOWARD COUNTY DESIGN MANUAL, VOL. IV "STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION" PLUS MSHA STANDARDS AND SPECIFICATIONS, IF APPLICABLE.
- THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF PUBLIC WORKS/BUREAU OF ENGINEERING/CONSTRUCTION INSPECTION DIVISION AT (410) 313-1880 AT LEAST FIVE (5) WORKING DAYS PRIOR TO THE START OF WORK.
- THE CONTRACTOR SHALL NOTIFY "MISS UTILITY" AT 1-800-257-7777 AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION WORK BEING DONE.
- TRAFFIC CONTROL DEVICES, MARKINGS, AND SIGNING SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD). ALL STREET AND REGULATORY SIGNS SHALL BE IN PLACE PRIOR TO THE PLACEMENT OF ANY ASPHALT.
- STREET LIGHT PLACEMENT AND THE TYPE OF FIXTURE AND POLE SHALL BE IN ACCORDANCE WITH THE HOWARD COUNTY DESIGN MANUAL, VOLUME III AND AS MODIFIED BY "GUIDELINES FOR STREET LIGHTS IN RESIDENTIAL DEVELOPMENTS, (JANUARY 1998)." A MINIMUM SPACING OF 20' SHALL BE MAINTAINED BETWEEN ANY STREET LIGHT AND ANY TREE.
- THE EXISTING TOPOGRAPHY IS TAKEN FROM FIELD STUDY WITH MAXIMUM TWO FOOT CONTOUR INTERVALS PREPARED BY PATTON HARRIS RUST AND ASSOCIATES IN DECEMBER, 2002.
- THE COORDINATES SHOWN HEREON ARE BASED UPON THE HOWARD COUNTY GEODETIC CONTROL WHICH IS BASED UPON THE MARYLAND STATE PLANE COORDINATE SYSTEM. HOWARD COUNTY MONUMENT NOS. 29GB AND 29GS.
- PUBLIC WATER WILL BE EXTENDED TO THE SITE FROM PUBLIC WATER LOCATED APPROXIMATELY 1400' SOUTH OF THE SITE IN TROTTER ROAD. PUBLIC WATER WILL CONNECT TO WATER BEING CONSTRUCTED UNDER HOWARD COUNTY CAPITAL PROJECT # S-6238. THE EXISTING PRIVATE WELL AND SEPTIC FACILITIES WILL BE ABANDONED IN ACCORDANCE WITH HOWARD COUNTY HEALTH DEPARTMENT GUIDELINES. THE CONTRACT NUMBER FOR THE PUBLIC WATER LINE SERVING THIS DEVELOPMENT IS 34-4170-D.
- SEWER DRAINAGE AREA: LITTLE PATUXENT. PUBLIC SEWER WILL BE EXTENDED TO THE SITE FROM PUBLIC SEWER LOCATED APPROXIMATELY 1100' SOUTH OF THE SITE IN TROTTER ROAD. PUBLIC SEWER WILL CONNECT TO SEWER BEING CONSTRUCTED UNDER HOWARD COUNTY CAPITAL PROJECT # S-6239. THE CONTRACT NUMBER FOR THE PUBLIC SEWER SERVING THIS DEVELOPMENT IS 34-4170-D.
- THE PRIVATELY OWNED AND MAINTAINED STORMWATER MANAGEMENT FOR THIS SITE WILL BE PROVIDED BY A BIOTENTION FACILITY AND A POCKET POND PER F-05-067.
- APPROXIMATE LOCATION OF EXISTING UTILITIES ARE SHOWN. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT THE EXISTING UTILITIES AND MAINTAIN UNINTERRUPTED SERVICE. ANY DAMAGE INCURRED DUE TO CONTRACTOR'S OPERATION SHALL BE REPAIRED IMMEDIATELY AT THE CONTRACTOR'S EXPENSE. EXISTING UTILITIES ARE SHOWN BASED ON THE BEST AVAILABLE INFORMATION.
- THE WETLANDS DELINEATION STUDY FOR THIS PROJECT WAS PREPARED BY PATTON HARRIS RUST AND ASSOCIATES, DATED DECEMBER 2002 PER F-05-067.
- THE TRAFFIC STUDY FOR THIS PROJECT WAS PREPARED BY MARS GROUP AND APPROVED DATED MAY 15, 2003 PER F-05-067.
- A NOISE STUDY IS NOT REQUIRED FOR THIS PROJECT.
- THE BOUNDARY SURVEY FOR THIS PROJECT WAS PREPARED BY PATTON HARRIS RUST AND ASSOCIATES DATED MARCH 2003.
- SUBJECT PROPERTY ZONED R-20 PER 02-02-04 COMPREHENSIVE ZONING PLAN AND THE "COMP LITE" ZONING AMENDMENTS EFFECTIVE 07-28-06.
- ALL ELEVATIONS SHOWN ARE BASED ON THE U.S.C. AND G.S. MEAN SEA LEVEL DATUM, 1929.
- SEE DEPARTMENT OF PLANNING AND ZONING FILE NO'S: F-84-12. (FOREST HILLS LOT 32), SP-03-15, WP-03-123, F-05-067, & WP-09-080.
- THE CONTRACTOR SHALL TEST EXISTING UTILITIES AT LEAST (5) DAYS BEFORE STARTING WORK SHOWN ON THESE DRAWINGS.
- CONTRACTOR IS SOLELY RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, PROCEDURES, AND SAFETY PRECAUTIONS AND PROGRAMS.
- PIPE SHALL NOT BE INSTALLED BY THE CONTRACTOR UNTIL THE LENGTH CALLED FOR AT EACH STATION HAS BEEN APPROVED BY THE ENGINEER IN THE FIELD.
- NO PIPE SHALL BE LAID UNTIL LINES OF EXCAVATION HAVE BEEN BROUGHT WITHIN 6" OF FINISHED GRADE.
- ALL INLETS SHALL BE CONSTRUCTED IN ACCORDANCE WITH HOWARD COUNTY STANDARDS.
- ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS.
- STORM DRAIN TRENCHES WITHIN ROAD RIGHT OF WAY SHALL BE BACKFILLED AND COMPACTED IN ACCORDANCE WITH THE HOWARD COUNTY DESIGN MANUAL, VOLUME IV, I.e., STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION, LATEST AMENDMENTS.
- PROFILE STATIONS SHALL BE ADJUSTED AS NECESSARY TO CONFORM TO PLAN DIMENSIONS.
- DESIGNED TRAFFIC SPEED IN ACCORDANCE WITH THE HOWARD COUNTY DESIGN MANUAL VOL. III. ALL 40' RIGHT OF WAYS 20 M.P.H.
- ALL FILL AREAS WITHIN ROADWAY AND UNDER STRUCTURES TO BE COMPACTED TO A MINIMUM OF 95% COMPACTION OF AASHTO T180.
- ALL STREET CURB RETURNS SHALL HAVE 25' RADII UNLESS OTHERWISE NOTED.
- SEE F-05-067 FOR STREET TREE REQUIREMENTS.
- THERE ARE NO EXISTING PERMANENT STRUCTURES ON-SITE.
- NO CLEARING, GRADING OR CONSTRUCTION IS PERMITTED WITHIN THE STREAM, WETLANDS, THEIR BUFFERS, FLOODPLAIN OR FOREST CONSERVATION EASEMENTS.
- WETLANDS, 100 YEAR FLOODPLAIN, AND +15% SLOPES HAVE BEEN SHOWN.
- BASED ON AVAILABLE COUNTY MAPS AND RECORDS, THERE ARE NO HISTORIC STRUCTURES OR KNOWN CEMETERIES LOCATED ON THE SUBJECT PROPERTY.
- WP-03-123 - A REQUEST TO WAIVE SECTION 16.121(c)(1) OF THE HOWARD COUNTY SUBDIVISION AND LAND DEVELOPMENT REGULATIONS - OPEN SPACE LOTS SHALL HAVE A MINIMUM OF 40 FEET OF FRONTAGE ON A PUBLIC ROAD WHICH IS SUITABLE FOR ACCESS BY PEDESTRIANS AND MAINTENANCE VEHICLES. OPEN SPACE FRONTAGE MAY BE REDUCED TO 20 FEET IF THE ADJACENT SIDE YARD SETBACK OF ABUTTING LOTS IS INCREASED BY 10 FEET, AND 16.120(b)(4)(v) - RESIDENTIAL LOTS SHALL NOT BE ENCUMBERED BY ACCESS EASEMENTS FOR STORMWATER MANAGEMENT FACILITIES OR OPEN SPACE HAS BEEN APPROVED BY LETTER DATED JUNE 2, 2003 AND SUBJECT TO THE FOLLOWING CONDITIONS: (1) THE DEVELOPER SHALL TRANSFER IN ACCORDANCE WITH COMMENTS FROM THE DEPARTMENT OF RECREATION AND PARKS, OPEN SPACE LOT 6 TO HOWARD COUNTY. IN ADDITION THE DEVELOPER SHALL PROVIDE A 12' WIDE (MINIMUM) ACCESS EASEMENT FOR PEDESTRIAN AND VEHICULAR ACCESS TO OPEN SPACE LOT 6 WHICH SHALL EXTEND FROM TROTTER ROAD TO OPEN SPACE LOT 6. THIS EASEMENT SHALL BE WITHIN THE PROPOSED USE IN COMMON DRIVEWAY EASEMENT SERVING RESIDENTIAL LOTS TO THE WESTERN TERMINUS OF THAT SHARED DRIVEWAY EASEMENT AND BEYOND TO THE BOUNDARY OF OPEN SPACE LOT 6. (2) A MAINTENANCE AGREEMENT FOR THE SHARED DRIVEWAY WITHIN A 24 FOOT WIDE EASEMENT SHALL BE RECORDED WITH THE CORRESPONDING SUBDIVISION PLAT. THIS DOCUMENT SHALL PROVIDE FOR ACCESS TO OPEN SPACE LOT 6 BUT SHALL EXCLUDE THE DEPARTMENT OF RECREATION AND PARKS FROM ALL MAINTENANCE OBLIGATIONS. (3) ON ALL PLANS AND PLATS, THE 24 FOOT WIDE USE-IN-COMMON ACCESS EASEMENT SERVING RESIDENTIAL LOTS SHALL ALSO BE LABELED AS SERVING OPEN SPACE LOT 6. (4) OPEN SPACE LOTS 11 AND 12 SHALL BE OWNED BY THE HOMEOWNER'S ASSOCIATION FOR THIS SITE. ON ALL PLANS, LABEL ACCESS PROVIDED TO OPEN SPACE LOTS 11 AND 12 FROM THE USE-IN-COMMON DRIVEWAY. MAKE THAT STIPULATION A PART OF THE MAINTENANCE AGREEMENT.
- THE FOREST CONSERVATION OBLIGATIONS FOR THIS SITE IN ACCORDANCE WITH SECTION 16.1202 OF THE HOWARD COUNTY CODE AND FOREST CONSERVATION MANUAL SHALL BE MET BY THE PLACEMENT OF .22 ACRES OF EXISTING FOREST INTO A RETENTION EASEMENT, PLACEMENT OF .25 ACRES OF AFFORESTATION INTO AN EASEMENT AND PAYMENT OF A FEE-IN-LIEU FOR THE BALANCE OF REQUIRED AFFORESTATION OF .29 ACRES IN THE AMOUNT OF \$9,474.30 (12,632 SQ.FT. X .75 CENTS) TO THE FOREST CONSERVATION FUND. SURETY FOR THE .22 ACRES OF RETENTION IN THE AMOUNT OF \$1,916.64 AND FOR THE .25 ACRES OF AFFORESTATION IN THE AMOUNT OF \$10,890.00 FOR A TOTAL OF \$12,806.64 SHALL BE POSTED WITH THE DEVELOPER'S AGREEMENT FOR THE FINAL PLAN F-05-067.
- FINANCIAL SURETY FOR THE REQUIRED PERIMETER, STORM WATER MANAGEMENT LANDSCAPING AND STREET TREES HAS BEEN POSTED AS PART OF THE DEVELOPER'S AGREEMENT PER F-05-067.
- TROTTER ROAD IS CLASSIFIED AS A HOWARD COUNTY SCENIC ROAD. THE SCENIC ROAD IMPACT ANALYSIS WAS APPROVED ON MAY 30, 2003 UNDER SP-03-15.
- THIS PROJECT IS SUBJECT TO THE 5th EDITION OF THE SUBDIVISION AND LAND DEVELOPMENT REGULATIONS BECAUSE IT WAS SUBMITTED ON APRIL 16, 2003 PRIOR TO MAY 22, 2003. THE GRANDFATHERING FOR ZONING REGULATIONS: 1993 ZONING REGULATIONS AS AMENDED BY CB 50-2001.
- ALL SIGN POSTS USED FOR TRAFFIC CONTROL SIGNS INSTALLED IN THE COUNTY RIGHT-OF-WAY SHALL BE MOUNTED ON A 2" GALVANIZED STEEL, PERFORATED, SQUARE TUBE POST (14 GAUGE) INSERTED INTO A 2-1/2" GALVANIZED STEEL, PERFORATED SQUARE TUBE SLEEVE (12 GAUGE) - 3 FEET LONG. A GALVANIZED STEEL POLE CAP SHALL BE MOUNTED ON TOP OF EACH POST.

SITE DEVELOPMENT PLAN

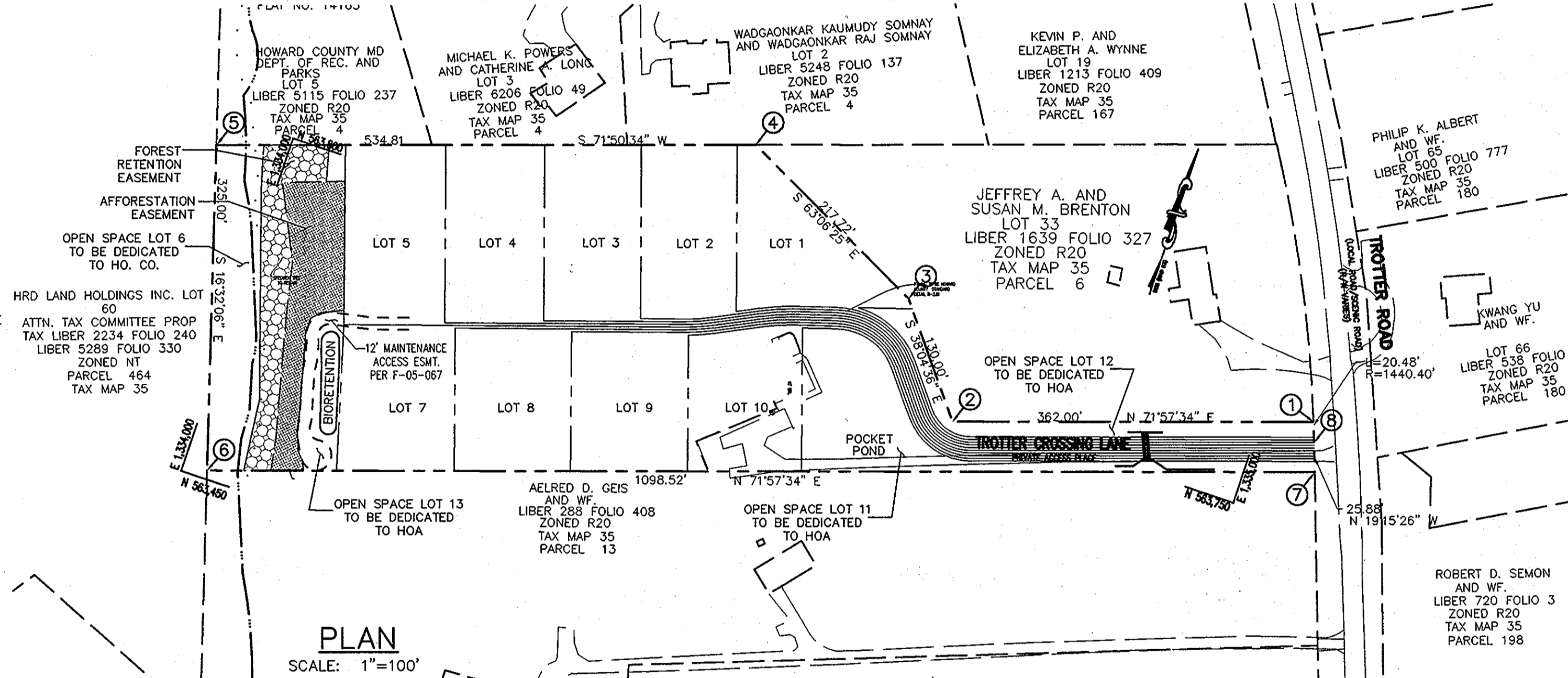
TROTTER CROSSING

LOTS 1 THRU 5, 7 THRU 10 & 13

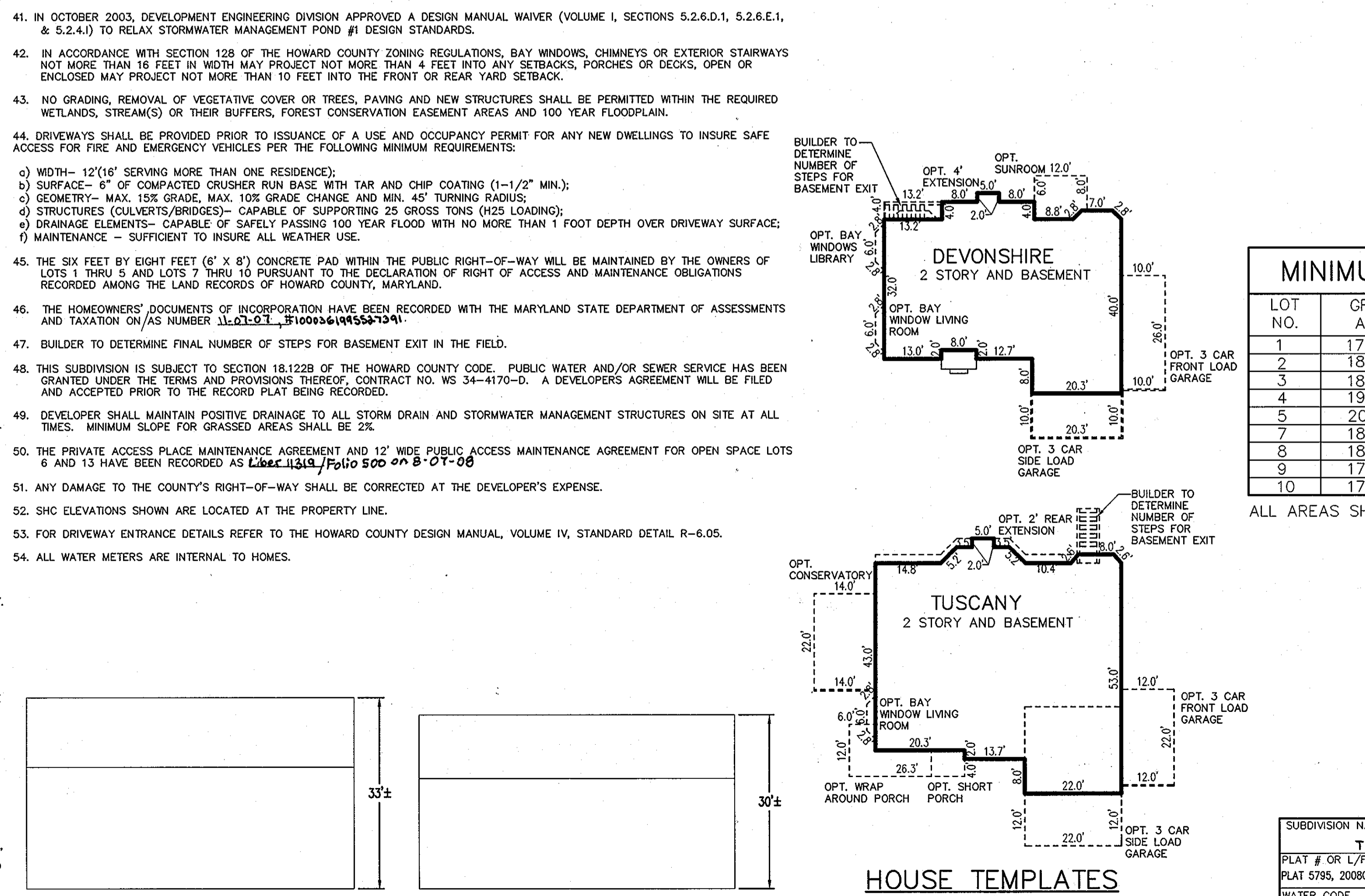
OPEN SPACE LOTS 6, 11, 12, AND 13

5th ELECTION DISTRICT

HOWARD COUNTY, MARYLAND



PLAN
SCALE: 1"=100'



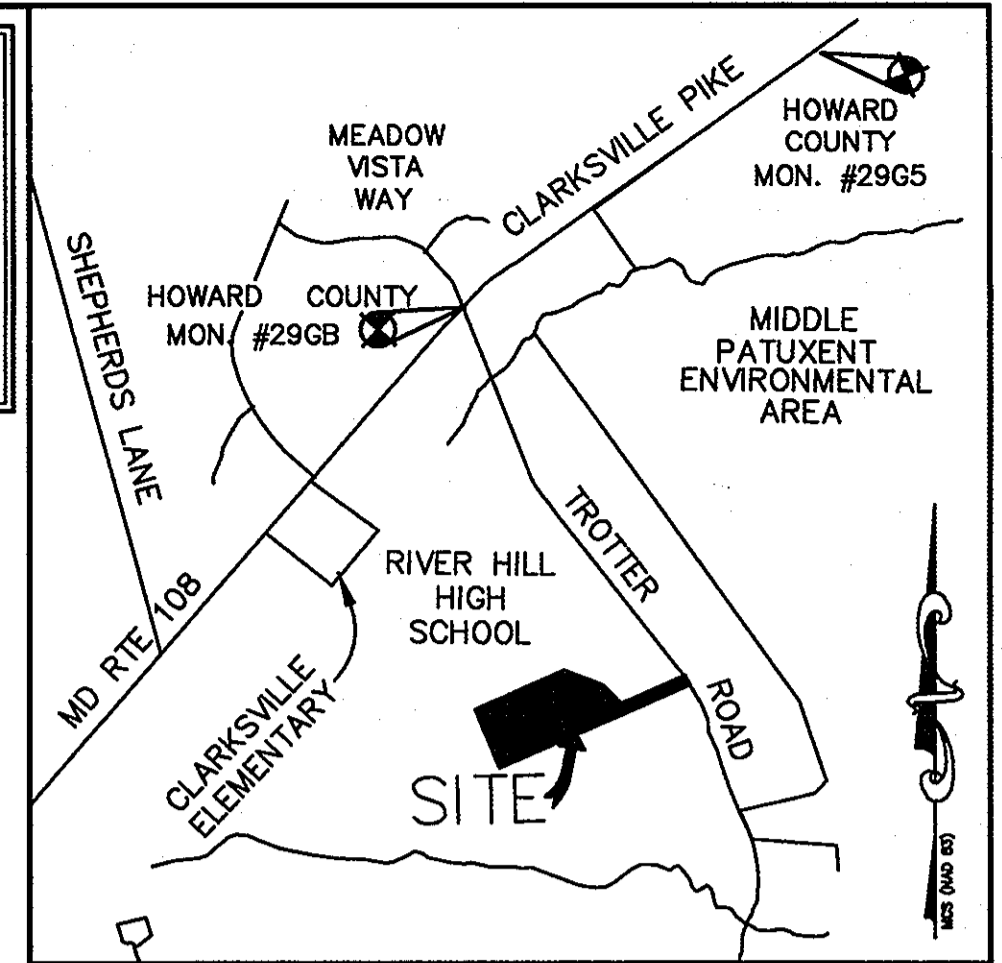
HOUSE TEMPLATES
SCALE: 1"=20'

BEFORE BEGINNING CONSTRUCTION CONTACT
"MISS UTILITY"
AT
1-800-257-7777
AT LEAST 48 HOURS PRIOR TO EXCAVATION

BENCH MARK

HOWARD COUNTY CONTROL STATION 2969
N 566,826.1675
E 1,333,265.8589
ELEV. 455.959

HOWARD COUNTY CONTROL STATION 2965
N 568,341.2144
E 1,335,392.9911
ELEV. 397.350



VICINITY MAP

SCALE: 1"=1000'
COPYRIGHT AND THE MAP PEOPLE
PERMITTED USE NO. 2071188
HOWARD COUNTY ADC MAP 4934 : C6

SITE ANALYSIS DATA CHART

EXISTING ZONING:	R-20
GROSS AREA OF SITE:	5.42 AC (236,136 SF)
AREA IN 100 YEAR FLOODPLAIN:	0.35 AC (15,246 SF)
AREA OF STEEP SLOPES:	0 ACRES
NET TRACT AREA:	5.16 AC (224,761 SF)
AREA OF RIGHT-OF-WAY DEDICATION:	0 ACRES
AREA OF PROPOSED BUILDABLE LOTS:	3.85 AC
MINIMUM LOT SIZE:	16,000 SF
AREA OF REQUIRED OPEN SPACE:	20% OF NET AREA OF DEVELOPMENT 0.20 X 5.16 ACRES = 1.03 AC (44,952 SF) ACRES REQUIRED
AREA OF PROPOSED OPEN SPACE:	CREDITED 1.29 ACRES (56,176 SF ±) NOW-CREDITED 0.28 ACRES (12,368 SF ±) TOTAL PROVIDED 1.57 ACRES (68,544 SF ±)
LIMIT OF DISTURBED AREA:	4.54 ACRES (197,966 SF)
NUMBER OF BUILDABLE LOTS:	9 LOTS
NUMBER OF OPEN SPACE LOTS:	4
PROPOSED WATER AND SEWER:	PUBLIC WATER AND SEWER
EXISTING USES:	RESIDENTIAL
PROPOSED USES:	9 LOTS
APPLICABLE DPZ FILE REFERENCES:	F-84-12, (FOREST HILLS LOT 32) SP-03-15 WP-03-123 F-05-067 WP-09-080

COORDINATE LIST

1	N 563,851.42	E 1,335,050.04
2	N 563,738.76	E 1,334,710.25
3	N 563,841.30	E 1,334,629.89
4	N 563,939.00	E 1,334,437.39
5	N 563,769.69	E 1,333,930.08
6	N 563,458.62	E 1,334,024.22
7	N 563,804.34	E 1,335,066.93
8	N 563,832.17	E 1,335,057.04

MINIMUM LOT SIZE TABULATION

LOT NO.	GROSS AREA	LESS PIPESTEM	REMAINING AREA/ MIN LOT SIZE
1	17,464	1,394	16,070
2	18,116	1,717	16,399
3	18,834	1,972	16,862
4	19,634	2,228	17,406
5	20,416	2,489	17,927
7	18,999	2,462	16,537
8	18,575	2,154	16,421
9	17,982	1,845	16,137
10	17,579	1,542	16,037

ALL AREAS SHOWN ABOVE ARE IN SQUARE FEET

ADDRESS CHART

LOT/ PARCEL NUMBER	STREET ADDRESS
1	11720 TROTTER CROSSING LANE
2	11724 TROTTER CROSSING LANE
3	11728 TROTTER CROSSING LANE
4	11732 TROTTER CROSSING LANE
5	11736 TROTTER CROSSING LANE
7	11735 TROTTER CROSSING LANE
8	11731 TROTTER CROSSING LANE
9	11727 TROTTER CROSSING LANE
10	11723 TROTTER CROSSING LANE

SUBDIVISION NAME	TROTTER CROSSING	SECT./AREA	PARCEL
PLAT # OR L.P./T.P.	GRID #	ZONING	6
PLAT 5785, 20080-20081	2	R-20	
TAX MAP NO.	ELECT. DIST.	CENSUS TRACT	
35	5	6055.01	
SEWER CODE	6700000		
WATER CODE	1 04		

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.

Man Deussen 5/1/09
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

Cindy Hamer 5/14/09
CHIEF, DIVISION OF LAND DEVELOPMENT DATE

Thomas P. Suttle 5/14/09
DIRECTOR, DEP. DATE

DATE NO. REVISION

OWNER/DEVELOPER
TROTTER CROSSING, LLC
ATTN: BRIAN BOY
9695 NORFOLK AVENUE
LAUREL, MD 20723
(410) 792-2565

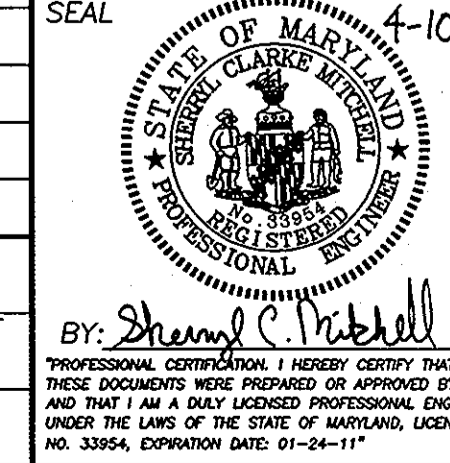
PROJECT
TROTTER CROSSING
LOTS 1 THRU 5, 7 THRU 10 &
OPEN SPACE LOTS 6, 11, 12, AND 13
A RESUBDIVISION OF FOREST HILLS LOT 32

AREA TAX MAP 35 GRID 2 PARCEL 6 ZONING R-20
5TH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

TITLE TITLE SHEET

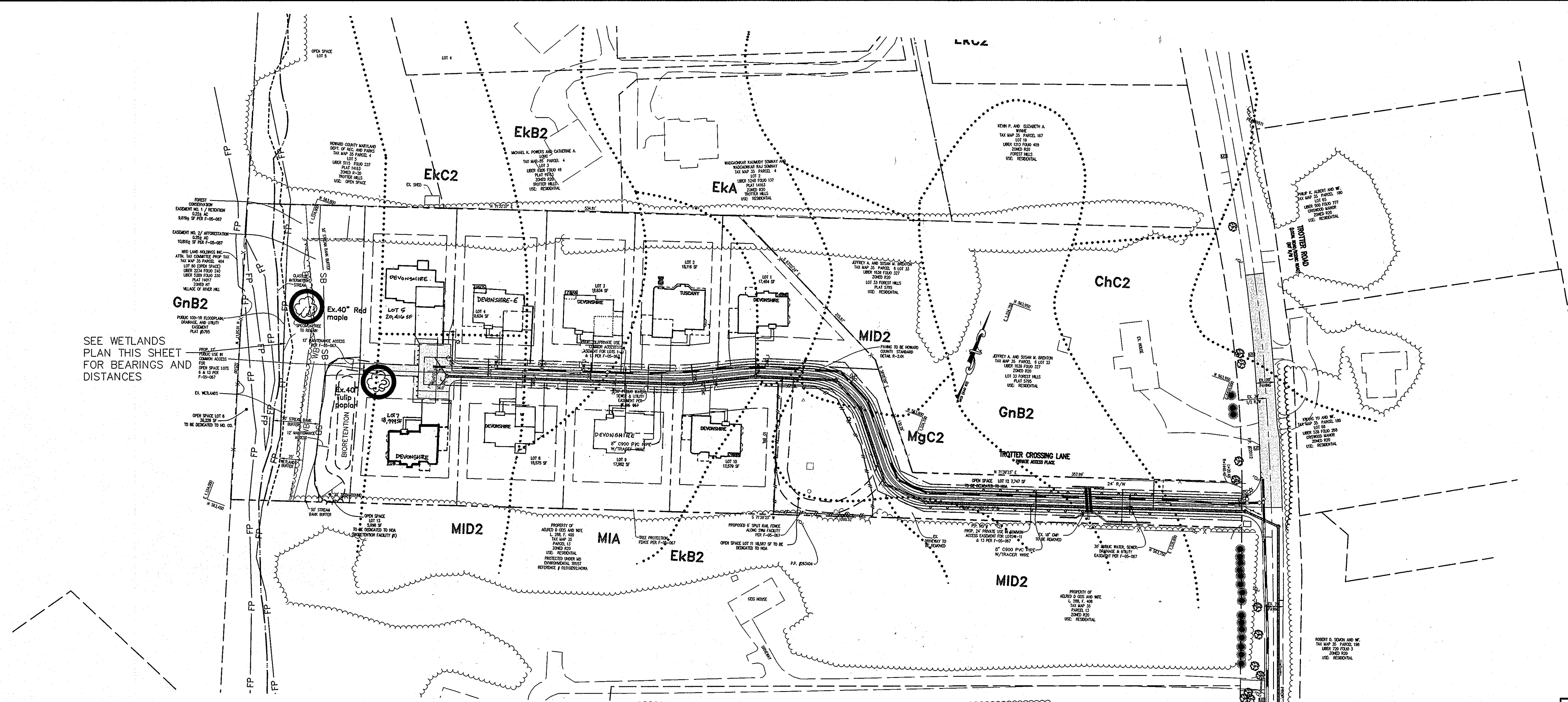
Patton Harris Rust & Associates, pc
Engineers, Surveyors, Planners, Landscape Architects.
8818 Centre Park Drive
Columbia, MD 21045
T 410.997.8900
F 410.997.9282

DESIGNED BY: PJS
DRAWN BY: PHRA
PROJECT NO. 11885-1-0-ENGR-PLANS
FINAL/SDP/COO05DP01
DATE: APRIL 28, 2009
SCALE: AS SHOWN
DRAWING NO. 1 OF 8

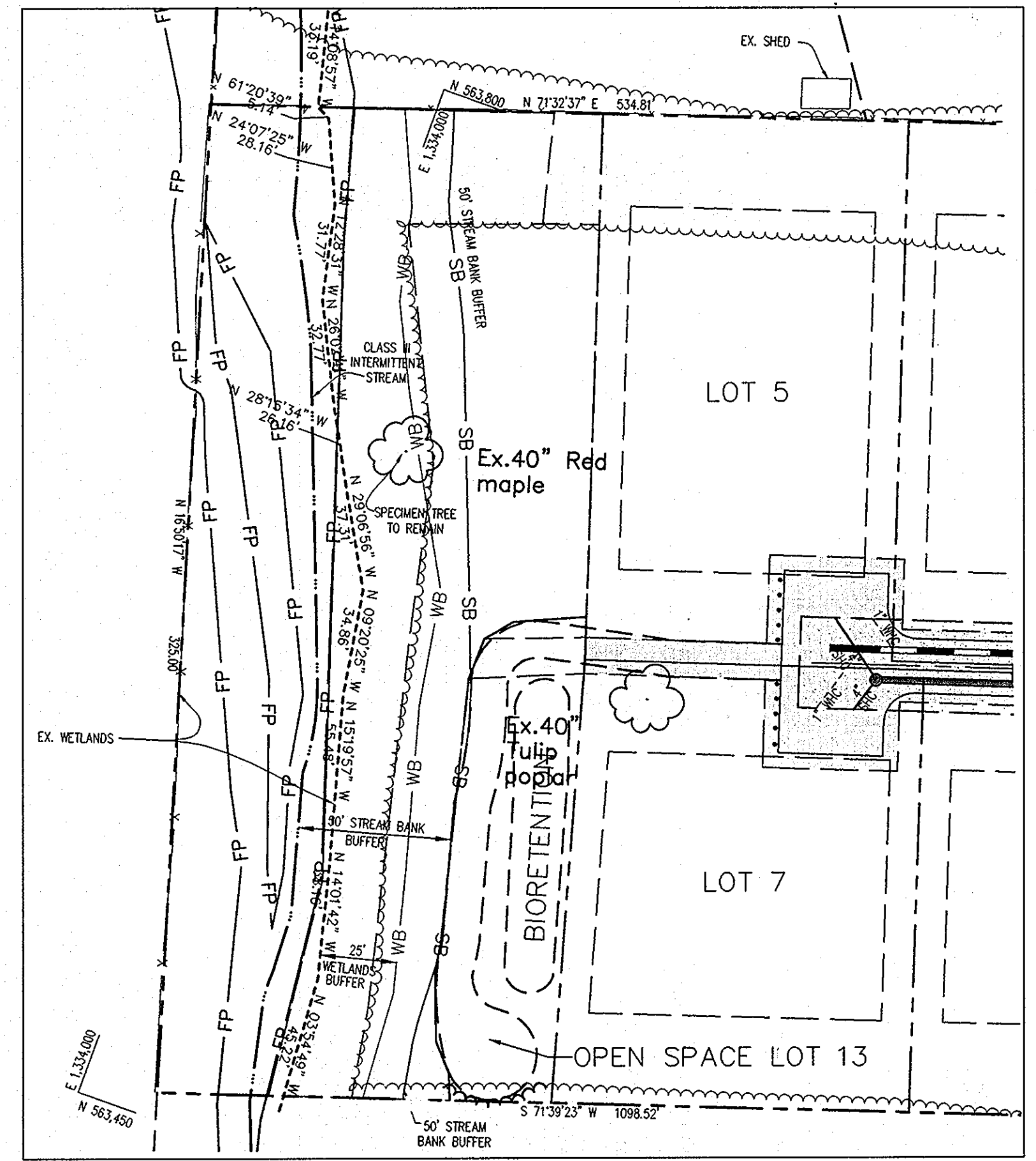


LEGEND

PROPERTY LINE	
EXISTING TREELINE	
PROPOSED TREELINE	
PROPOSED LOT LINE	
EX. STREAM AND BUFFER	
EX. WETLAND AND 25' BUFFER	
EX. 100-YEAR FLOODPLAIN	
EXISTING BUILDING	
PROPOSED BUILDING	
PROPOSED WATER LINE	
PROPOSED FIRE HYDRANT	
PROPOSED SANITARY SEWER LINE	
PROPOSED STORM DRAIN	
SPECIMEN TREES (2-30" DIAM.)	
SOILS	
PROPOSED TREE PROTECTION DEVICE (FENCE)	



SEE WETLANDS PLAN THIS SHEET FOR BEARINGS AND DISTANCES



WETLANDS BEARINGS AND DISTANCES PLAN
SCALE: 1"=40'

PLAN
SCALE: 1"=60'

NOTES:
1. SEE FOREST STAND DELINEATION APPROVED UNDER THE PRELIMINARY EQUIVALENT SKETCH PLAN, SP-03-15. CHARTS BELOW ARE TAKEN FROM THAT PLAN.

FOREST STAND DATA CHART

STAND	SIZE	DOMINANT SPECIES	AVERAGE SIZE OF DOMINANT SPECIES
F1	0.57 Ac.±	Red maple	12-40" dbh

PLANT COMMUNITY SUMMARY

SYMBOL	COMMUNITY	AREA	PRIORITY RETENTION
F1	FOREST	0.57 Ac.±	HIGH
H1	HEDGEROW	0.40 Ac.±	MEDIUM
H2	HEDGEROW	0.04 Ac.±	MEDIUM
TL	TREES/LAWN/IMPERVIOUS AREA	4.09 Ac.±	LOW

EX. TREE >30" DBH KEY

SYMBOL	DESCRIPTION	TO REMAIN IN PHASE I
1	40" Red Maple	Yes
2	40" Tulip Poplar	No

SOILS CHART

MAP SYMBOL	NAME	HYDROLOGIC SOIL GROUP	EROSION HAZARD	HYDRIC	SLOPE (%)
Chc2	CHESTER SILT LOAM	B	MODERATE	NO	8-15%
Eka	ELIOAK SILT LOAM	C	---	NO	0-3%
Ekb2	ELIOAK SILT LOAM	C	MODERATE	NO	3-8%
Ekc2	ELIOAK SILT LOAM	C	MODERATE	NO	8-15%
Gnb2	GLENVILLE SILT LOAM	C	MODERATE	NO*	3-8%
Mia	MANOR LOAM	B	---	NO	0-3%
Mid2	MANOR LOAM	B	MODERATE	NO	15-25%
Mgc2	MANOR GRAVELLY LOAM	B	MODERATE	NO	0-3%

* SOIL MAY CONTAIN HYDRIC INCLUSIONS

FOR REVISIONS OF THIS PLAN, CONTACT DENNIS W. RUST, PROFESSIONAL ENGINEER, INC. I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 21443, EXPIRATION DATE: 12-21-2010

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.

CHIEF, DEVELOPMENT ENGINEERING DIVISION: *Brian Boy* 5/13/09 DATE

CHIEF, DIVISION OF LAND DEVELOPMENT: *Anna E. Suttle* 5/13/09 DATE

DIRECTOR, DEP.: *Anna E. Suttle* 5/14/09 DATE

7/20/2010 2 ADJUST HOUSE LOCATION ON LOT 6 & CHANGE TO FRONT LOAD GARAGE

12/3/09 1 ADJUST HOUSE LOCATION ON LOT 7 & CHANGE TO FRONT LOAD GARAGE

OWNER/DEVELOPER: TROTTER CROSSING, LLC
ATTN: BRIAN BOY
9695 NORFOLK AVENUE
LAUREL, MD 20723
(410) 792-2565

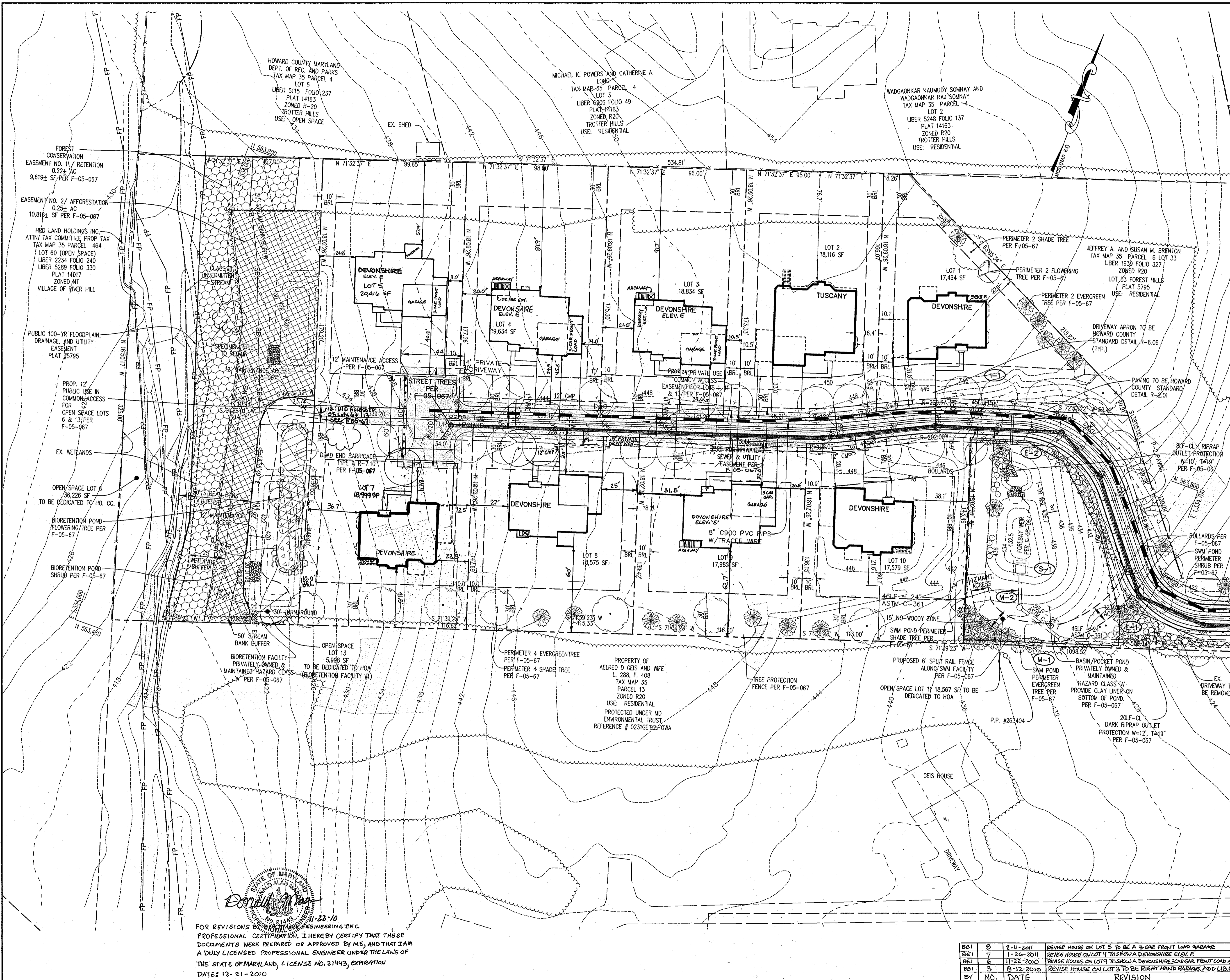
PROJECT: TROTTER CROSSING
LOTS 1 THRU 5, 7 THRU 10 &
OPEN SPACE LOTS 6, 11, 12, AND 13
A RESUBDIVISION OF FOREST HILLS LOT 32

AREA TAX MAP 35 GRID 2 PARCEL 6 ZONING R-20
5TH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

TITLE: **OVERALL SITE DEVELOPMENT PLAN AND SOILS MAP**

Patton Harris Rust & Associates, pc
Engineers, Surveyors, Planners, Landscape Architects.
8818 Centre Park Drive
Columbia, MD 21045
T 410.997.8900
F 410.997.9282

DESIGNED BY: PJS
DRAWN BY: PHRA
PROJECT NO: 11895-1-01 ENGR. PLANS
FINAL, SDP, C4003092
DATE: APRIL 28, 2009
SCALE: AS SHOWN
DRAWING NO. 2 OF 8



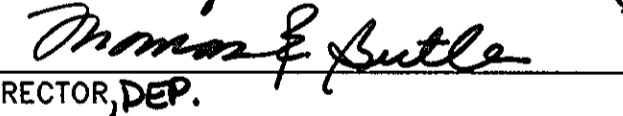


LEGEND

- PROPERTY LINE
- EXISTING TREELINE
- PROPOSED TREELINE
- PROPOSED LOT LINE
- EX. STREAM AND BUFFER
- EX. WETLAND AND 25' BUFFER
- EX. 100-YEAR FLOODPLAIN
- EXISTING CONTOURS
- PROPOSED CONTOURS
- EXISTING BUILDING
- PROPOSED BUILDING
- SLOPES 15-25%
- SLOPES > 25%
- PROPOSED WATER LINE
- PROPOSED FIRE HYDRANT
- PROPOSED SANITARY SEWER LINE
- PROPOSED STORM DRAIN
- PROPOSED FOREST CONSERVATION EASEMENT-RETENTION
- PROPOSED FOREST CONSERVATION EASEMENT-AFFORESTATION
- PROPOSED TREE PROTECTION DEVICE (FENCE)
- PROPOSED FENCE

MATCHLINE - SEE SHEET 4

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.

 5/1/09 DATE
 CHIEF, DEVELOPMENT ENGINEERING DIVISION
 4/28/09 DATE
 CHIEF, DIVISION OF LAND DEVELOPMENT
 5/14/09 DATE
 DIRECTOR, DEP.

DATE	NO.	REVISION
7/20/2002	2	ADJUST HOUSE LOCATION ON LOT 6 & CHANGE TO FRONT PORCH
12/9/09	1	ADJUST HOUSE LOCATION ON LOT 7 & CHANGE TO FRONT LOAD GARAGE


OWNER/DEVELOPER
 TROTTER CROSSING, LLC
 ATTN: BRIAN BOY
 9695 NORFOLK AVENUE
 LAUREL, MD 20723
 (410) 792-2565


PROJECT
TROTTER CROSSING
 LOTS 1 THRU 5, 7 THRU 10 &
 OPEN SPACE LOTS 6, 11, 12, AND 13
 A RESUBDIVISION OF FOREST HILLS LOT 32

AREA TAX MAP 35 GRID 2 PARCEL 6 ZONING R-20
 5TH ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

TITLE
SITE DEVELOPMENT PLAN

Patton Harris Rust & Associates, pc
 Engineers, Surveyors, Planners, Landscape Architects.
 8818 Centre Park Drive
 Columbia, MD 21045
 T 410.997.8900
 F 410.997.9282

SEAL
 4-10-09
 DESIGNED BY: PJS
 DRAWN BY: PHRA
 PROJECT NO: 11885-1-01 ENGR. PLANS
 FINAL, SDP, C400SDP03
 DATE: APRIL 28, 2009
 SCALE: 1" = 30'
 DRAWING NO. 3 OF 8
 SDP-09-19

 31-22-10
 FOR REVISIONS BY PATTON HARRIS RUST & ASSOCIATES, PC
 PROFESSIONAL CERTIFICATION, I HEREBY CERTIFY THAT THESE
 DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM
 A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF
 THE STATE OF MARYLAND, LICENSE NO. 21443, EXPIRATION
 DATE 12-21-2010

BY	NO.	DATE	REVISION
	8	2-11-2011	REVISE HOUSE ON LOT 5 TO BE A 3-CAR FRONT LOAD GARAGE
	7	1-26-2011	REVISE HOUSE ON LOT 4 TO SHOW A DEVONSHIRE ELEV. E
	6	11-22-2010	REVISE HOUSE ON LOT 9 TO SHOW A DEVONSHIRE 3-CAR GAR. FRONT LOAD GAR.
	3	8-12-2010	REVISE HOUSE ON LOT 2 TO BE RIGHT HAND GARAGE, ADD LIB. EXT.

MATCHLINE - SEE SHEET 3

KEVIN P. AND ELIZABETH A. WYNNE
TAX MAP 35 PARCEL 167
LOT 19
LIBER 1213 FOLIO 409
ZONED R20
FOREST HILLS
USE: RESIDENTIAL

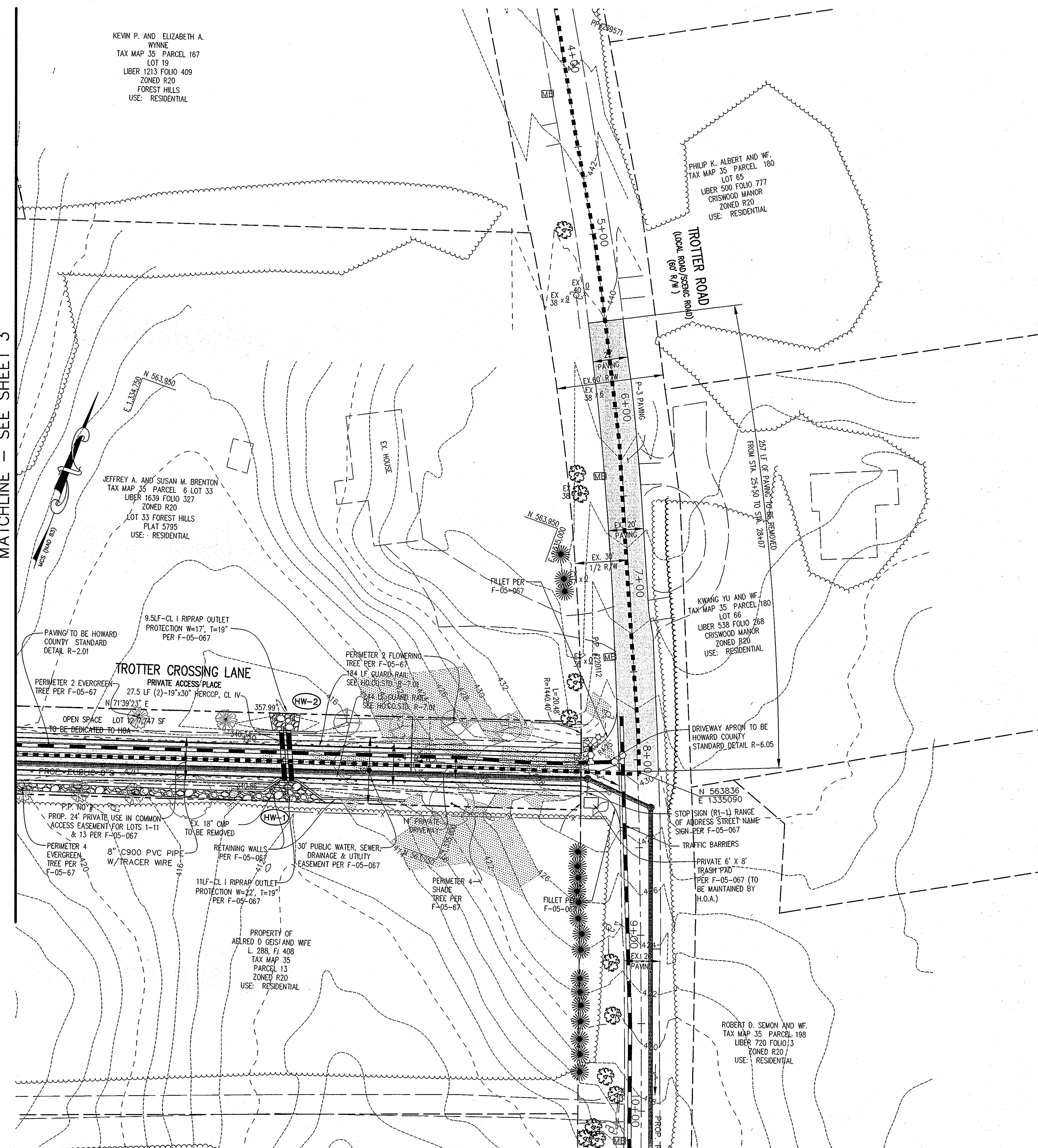
PHILIP K. ALBERT AND W.F.
TAX MAP 35 PARCEL 180
LOT 65
LIBER 500 FOLIO 777
CRISWOOD MANOR
ZONED R20
USE: RESIDENTIAL

JEFFREY A. AND SUSAN M. BRENTON
TAX MAP 35 PARCEL 6 LOT 33
LIBER 1639 FOLIO 327
ZONED R20
LOT 33 FOREST HILLS
PLAT 5795
USE: RESIDENTIAL

KWANG YU AND W.F.
TAX MAP 35 PARCEL 180
LOT 66
LIBER 538 FOLIO 768
CRISWOOD MANOR
ZONED R20
USE: RESIDENTIAL

N 563836
E 1335090

ROBERT D. SEMON AND W.F.
TAX MAP 35 PARCEL 198
LIBER 720 FOLIO 13
ZONED R20
USE: RESIDENTIAL



LEGEND

- PROPERTY LINE
- EXISTING TREELINE
- PROPOSED TREELINE
- PROPOSED LOT LINE
- EX. STREAM AND BUFFER
- EX. WETLAND AND 25' BUFFER
- EX. 100-YEAR FLOODPLAIN
- EXISTING CONTOURS
- PROPOSED CONTOURS
- EXISTING BUILDING
- PROPOSED BUILDING
- SLOPES 15-25%
- SLOPES > 25%
- PROPOSED WATER LINE
- PROPOSED FIRE HYDRANT
- PROPOSED SANITARY SEWER LINE
- PROPOSED STORM DRAIN
- PROPOSED TREE PROTECTION DEVICE (FENCE)
- PROPOSED FENCE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.

John Damman 5/1/09
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

Cindy Hamer 5/1/09
CHIEF, DIVISION OF LAND DEVELOPMENT DATE

Thomas P. Suttler 5/14/09
DIRECTOR, DEP. DATE

DATE NO. REVISION

OWNER/DEVELOPER
TROTTER CROSSING, LLC
ATTN: BRIAN BOY
9695 NORFOLK AVENUE
LAUREL, MD 20723
(410) 792-2565

PROJECT **TROTTER CROSSING**
LOTS 1 THRU 5, 7 THRU 10 &
OPEN SPACE LOTS 6, 11, 12, AND 13
A RESUBDIVISION OF FOREST HILLS LOT 32

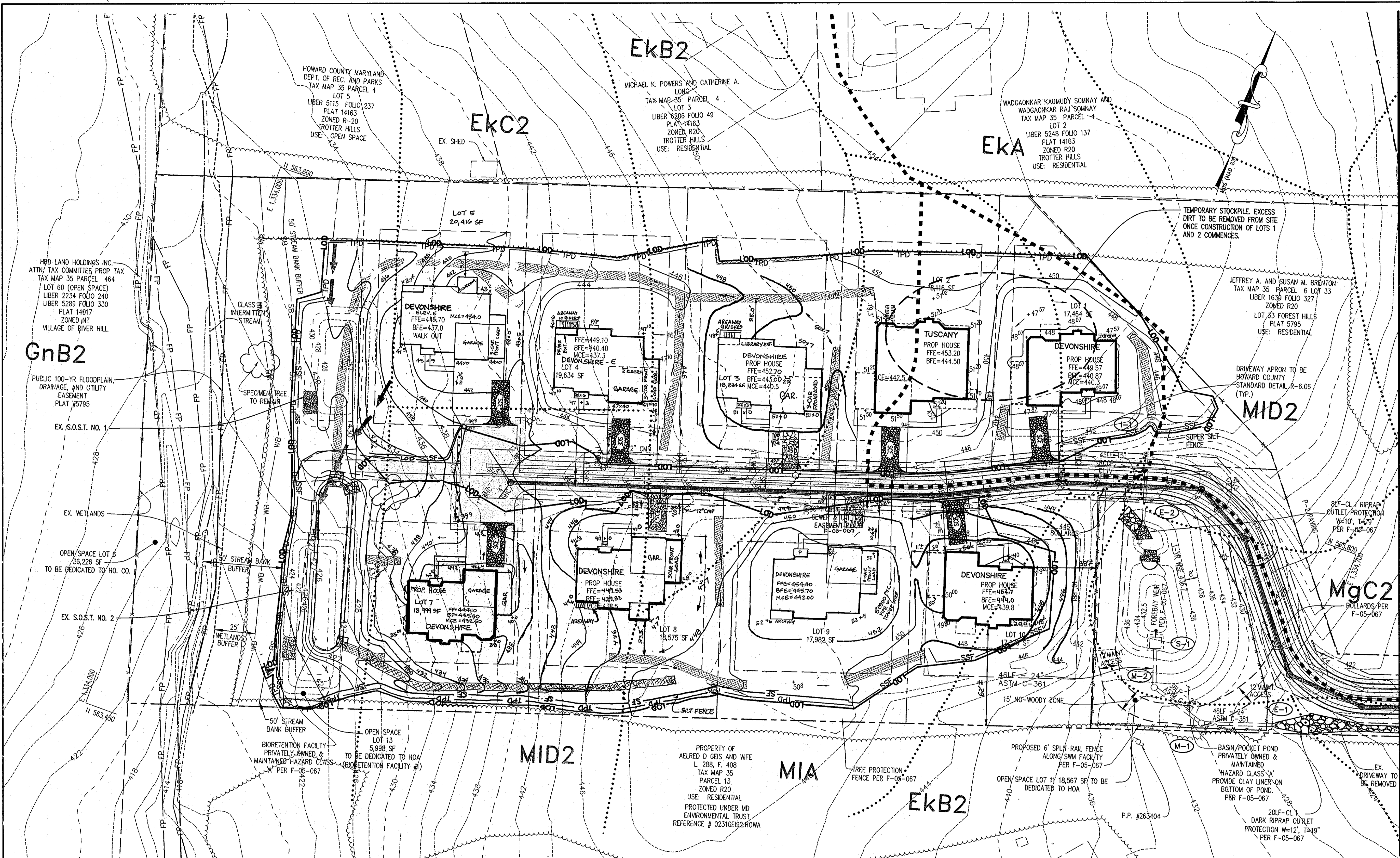
AREA TAX MAP 35 GRID 2 PARCEL 6 ZONING R-20
5TH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

TITLE **SITE DEVELOPMENT PLAN**

Patton Harris Rust & Associates, pc
Engineers. Surveyors. Planners. Landscape Architects.
8818 Centre Park Drive
Columbia, MD 21045
T 410.997.8900
F 410.997.9282

SEAL 4-10-09

DESIGNED BY: PJS
DRAWN BY: PHRA
PROJECT NO.: 11885-1-0-ENGR PLANS
FINAL SDP C400SDP04
DATE: APRIL 28, 2009
SCALE: 1" = 30'
DRAWING NO. 4 OF 8



EX. S.O.S.T.#1

DRAINAGE AREA	EX. 0.4 ACRES
DEV.	1.1 ACRES
WET STOR. REQ'D	1980 CF
WET STOR. PROV.	2080 CF @ 428.0
DRY STOR. REQ'D	1980 CF
DRY STOR. PROV.	1980 CF @ 429.0
CREST ELEVATION	427.5
CLEANOUT ELEVATION	427.5
TOP OF DAM	430.0
BOTTOM EL.	426.0
SIDE SLOPES	2:1
BOTTOM DIMENSIONS	52'X16'

EX. S.O.S.T.#2

DRAINAGE AREA	EX. 1.6 ACRES
DEV.	1.2 ACRES
WET STOR. REQ'D	2880 CF
WET STOR. PROV.	3030 CF @ 422.0
DRY STOR. REQ'D	2880 CF
DRY STOR. PROV.	2880 CF @ 423.0
CREST ELEVATION	423.0
CLEANOUT ELEVATION	421.0
TOP OF DAM	424.0
BOTTOM EL.	420.0
SIDE SLOPES	2:1
BOTTOM DIMENSIONS	75'X15'

MATCHLINE - SEE SHEET 6

ENGINEER'S CERTIFICATE

I CERTIFY THAT THIS PLAN FOR SEDIMENT AND EROSION 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.

Sherryl C. Mitchell 4-10-09
 SIGNATURE OF ENGINEER (PRINT NAME BELOW SIGNATURE) DATE

SHERRYL C. MITCHELL

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 ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE

INSPECTIONS BY THE HOWARD SOIL CONSERVATION DISTRICT.

B O B 4/14/09
 SIGNATURE OF DEVELOPER (PRINT NAME BELOW SIGNATURE) DATE

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

John R. DeRubeis 5/5/09
 HOWARD SOIL CONSERVATION DISTRICT DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.

Charles Dammann 5/1/09
 CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

Chris Harris 5/13/09
 CHIEF, DIVISION OF LAND DEVELOPMENT DATE

Thomas J. Sullen 5/14/09
 DIRECTOR, DEP. DATE

7/20/2012 REVISE LOT 8 TO BE 3-CAR FRONT GARAGE, REVISE HOUSE LOCATION AND GRADES.
 12/3/2011 REVISE HOUSE LOCATION ON LOT 7, ADJUST GRADING ON LOTS 7 & 8

OWNER/DEVELOPER
 TROTTER CROSSING, LLC
 ATTN: BRIAN BOY
 9695 NORFOLK AVENUE
 LAUREL, MD 20723
 (410) 792-2565

PROJECT
 TROTTER CROSSING
 LOTS 1 THRU 5, 7 THRU 10 &
 OPEN SPACE LOTS 6, 11, 12, AND 13
 A RESUBDIVISION OF FOREST HILLS LOT 32

AREA TAX MAP 35 GRID 2 PARCEL 6 ZONING R-20
 5TH ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

TITLE
 GRADING AND SEDIMENT CONTROL PLAN

Patton Harris Rust & Associates, pc
 Engineers, Surveyors, Planners, Landscape Architects.
 8818 Centre Park Drive
 Columbia, MD 21045
 T 410.997.8900
 F 410.997.9282

SEAL 4-10-09

DESIGNED BY: PJS
 DRAWN BY: PHRA

PROJECT NO: 11885-1-0-ENGR PLAN
 FINALS SDP/C400SDP33

DATE: APRIL 28, 2009

SCALE: 1" = 30'

DRAWING NO. 5 OF 8

LEGEND

PROPERTY LINE	PROPOSED CONTOURS	PROPOSED TREE PROTECTION DEVICE (FENCE)
EXISTING TREELINE	EXISTING BUILDING	PROPOSED FENCE
PROPOSED TREELINE	PROPOSED BUILDING	LIMIT OF DISTURBANCE
PROPOSED LOT LINE	PROPOSED WATER LINE	SILT FENCE
EX. STREAM AND BUFFER	PROPOSED FIRE HYDRANT	
EX. WETLAND AND 25' BUFFER	PROPOSED SANITARY SEWER LINE	
EX. 100-YEAR FLOODPLAIN	PROPOSED STORM DRAIN	
EXISTING CONTOURS	SOILS	

EKB2
MIA

Donald Maer 4/30/10
 PROFESSIONAL CERTIFICATION. I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 21443, EXPIRATION DATE: 12-21-2010

NO.	DATE	REVISION	BY
10	7-5-2011	REVISE GRADES ON LOT 5 PER AS-BUILT CONDITIONS	BEI
9	4-1-2011	REVISE F.F. ELEVATION ON LOT 7 AND ADJUST GRADES ACCORDINGLY	BEI
8	2-11-2011	REVISE HOUSE ON LOT 5 TO BE A 3-CAR FRONT GARAGE, REVISE GRADES	BEI
7	1-26-11	REVISE HOUSE ON LOT 4 TO BE A DEVONSHIRE ELEVATION E	BEI
6	11-22-2010	REVISE AND GRADES ON LOT 9	BEI
5	11-18-2010	REVISE GRADES ON LOT 8 PER AS-BUILT CONDITIONS	BEI
4	9-29-2010	REVISE GRADES ON LOT 10 PER AS-BUILT CONDITIONS	BEI
3	8-12-2010	REVISE HOUSE ON LOT 3 TO BE RIGHT HAND GARAGE, ADD L.B. EXT. REVISE GRADES	BEI
NO.	DATE	REVISION	BY

GENERAL NOTES:

- EXISTING TRAPS (NO. 1 & 2) AND SEDIMENT BASIN (F-05-067) ARE TO REMAIN UNTIL CONSTRUCTION IS COMPLETED WITH THE EXCEPTION OF LOT 5.
- CONSTRUCTION OF LOT 5 IS TO BE DELAYED UNTIL TRAP NO. 1 IS REMOVED.

MATCHLINE - SEE SHEET 6

EX. S.O.S.T.#1

DRAINAGE AREA	EX. 0.4 ACRES
DEV.	1.1 ACRES
WET STOR. REQ'D	1980 CF
WET STOR. PROV.	2080 CF @ 428.0
DRY STOR. REQ'D	1980 CF
DRY STOR. PROV.	1980 CF @ 429.0
CREST ELEVATION	429.0
CLEANOUT ELEVATION	427.5
TOP OF DAM	430.0
BOTTOM EL.	426.0
SIDE SLOPES	2:1
BOTTOM DIMENSIONS	52'X16'

EX. S.O.S.T.#2

DRAINAGE AREA	EX. 1.6 ACRES
DEV.	1.2 ACRES
WET STOR. REQ'D	2880 CF
WET STOR. PROV.	3030 CF @ 422.0
DRY STOR. REQ'D	2880 CF
DRY STOR. PROV.	2880 CF @ 423.0
CREST ELEVATION	423.0
CLEANOUT ELEVATION	421.0
TOP OF DAM	424.0
BOTTOM EL.	420.0
SIDE SLOPES	2:1
BOTTOM DIMENSIONS	75'X15'

ENGINEER'S CERTIFICATE

I CERTIFY THAT THIS PLAN FOR SEDIMENT AND EROSION 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.

Sherryl C. Mitchell 4-10-09
 SIGNATURE OF ENGINEER (PRINT NAME BELOW SIGNATURE) DATE

SHERRYL C. MITCHELL

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 ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE

INSPECTIONS BY THE HOWARD SOIL CONSERVATION DISTRICT.

R O B 4/14/09
 SIGNATURE OF DEVELOPER (PRINT NAME BELOW SIGNATURE) DATE

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

John R. Roberts 5/5/09
 HOWARD SOIL CONSERVATION DISTRICT DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.

John R. Roberts 5/1/09
 CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

Chris Hume 5/13/09
 CHIEF, DIVISION OF LAND DEVELOPMENT DATE

Thomas J. Sullivan 5/14/09
 DIRECTOR, DEP. DATE

7/20/2010 2 REVISION: LOT 8 TO BE SCAR FRONT LOAD. REVISE HOUSE LOCATION AND GRADES.
 12/3/09 1 ADJUST HOUSE LOCATION ON LOT 7, ADJUST GRADING ON LOTS 7 & 8.

OWNER/DEVELOPER
 TROTTER CROSSING, LLC
 ATTN: BRIAN BOY
 9695 NORFOLK AVENUE
 LAUREL, MD 20723
 (410) 792-2565

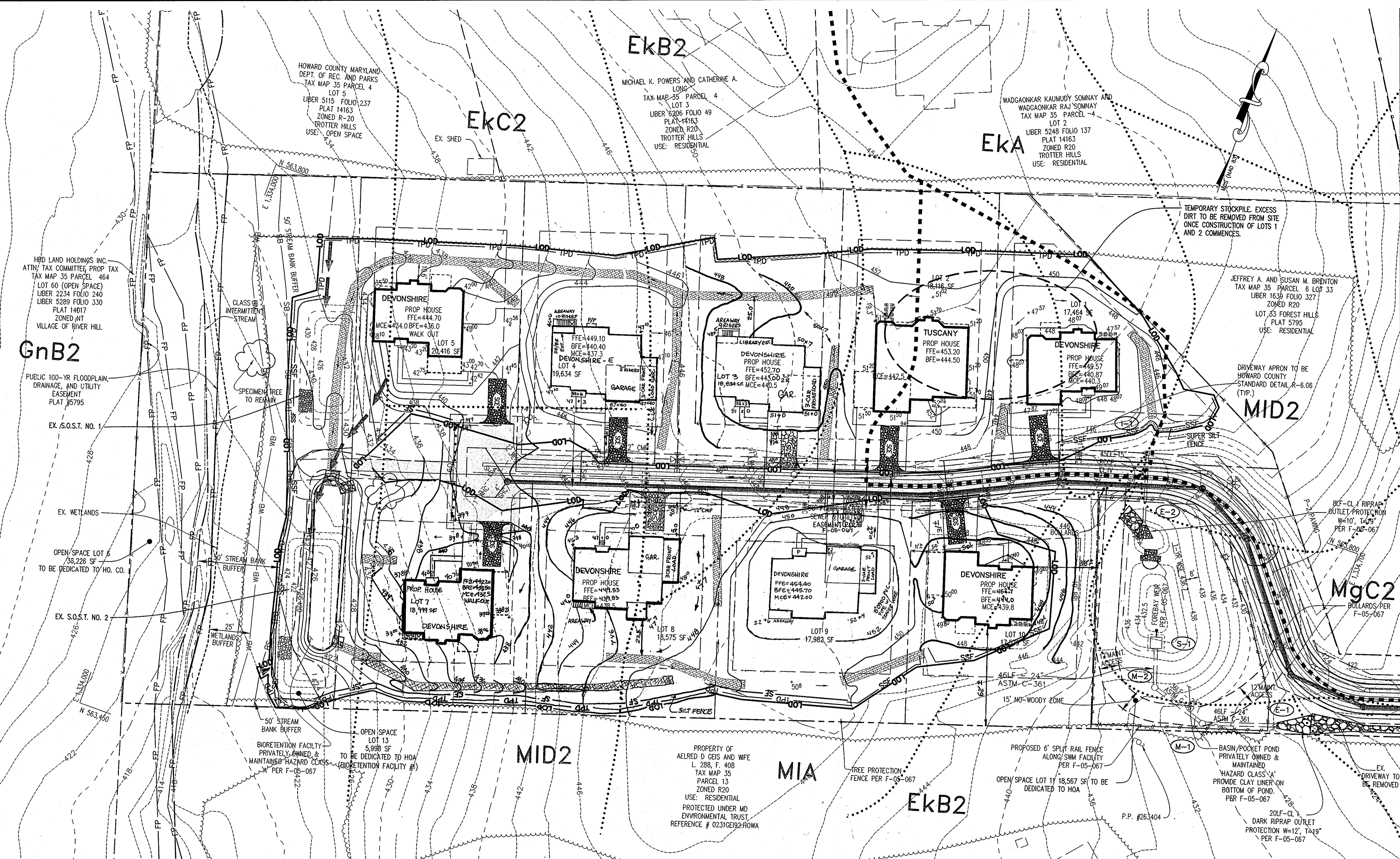
PROJECT
 TROTTER CROSSING
 LOTS 1 THRU 5, 7 THRU 10 &
 OPEN SPACE LOTS 8, 11, 12, AND 13
 A RESUBDIVISION OF FOREST HILLS LOT 32

AREA TAX MAP 35 GRID 2, PARCEL 6, ZONING R-20
 5TH ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

TITLE GRADING AND SEDIMENT CONTROL PLAN

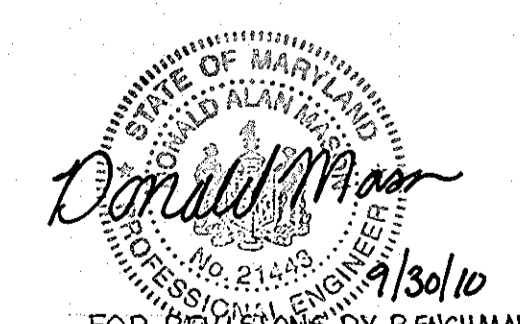
Patton Harris Rust & Associates, pc
 Engineers, Surveyors, Planners, Landscape Architects.
 8818 Centre Park Drive
 Columbia, MD 21045
 T 410.997.8900
 F 410.997.9282

DESIGNED BY: PJS
 DRAWN BY: PHRA
 PROJECT NO. 11885-1-01 ENGR. PLAN
 DATE: APRIL 28, 2009
 SCALE: 1" = 30'
 DRAWING NO. 5 OF 8



LEGEND

PROPERTY LINE		PROPOSED CONTOURS		PROPOSED TREE PROTECTION DEVICE (FENCE)	
EXISTING TREELINE		EXISTING BUILDING		PROPOSED FENCE	
PROPOSED TREELINE		PROPOSED BUILDING		LIMIT OF DISTURBANCE	
PROPOSED LOT LINE		PROPOSED WATER LINE		SILT FENCE	
EX. STREAM AND BUFFER		PROPOSED FIRE HYDRANT			
EX. WETLAND AND 25' BUFFER		PROPOSED SANITARY SEWER LINE			
EX. 100-YR FLOODPLAIN		PROPOSED STORM DRAIN			
EXISTING CONTOURS		SOILS			



FOR REVISIONS BY BENCHMARK ENGINEERING INC. PROFESSIONAL CERTIFICATION, I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 21443, EXPIRATION DATE: 12-21-2010

NO.	DATE	REVISION	BY
7	1-26-11	REVISE HOUSE ON LOT 4 TO BE A DEVONSHIRE ELEVATION E	BEI
6	11-22-2010	REVISE AND GRABES ON LOT 9	BEI
5	11-9-2010	REVISE GRADES ON LOT 8 PER AS-BUILT CONDITIONS	BEI
4	9-29-2010	REVISE GRADES ON LOT 10 PER AS-BUILT CONDITIONS	BEI
3	8-12-2010	REVISE HOUSE ON LOT 3 TO BE RIGHT HAND GARAGE, ADD L.B. EXT. REVISE GRADES	BEI
		REVISION	BY

GENERAL NOTES:

- EXISTING TRAPS (NO. 1 & 2) AND SEDIMENT BASIN (F-05-067) ARE TO REMAIN UNTIL CONSTRUCTION IS COMPLETED WITH THE EXCEPTION OF LOT 5.
- CONSTRUCTION OF LOT 5 IS TO BE DELAYED UNTIL TRAP NO. 1 IS REMOVED.

MD-378 STANDARDS AND SPECIFICATIONS

SPECIFICATIONS
These specifications are appropriate to all ponds within the scope of the Standard for practice MD-378. All references to ASTM and ASHTO specifications apply to the most recent version.

SITE PREPARATION

Areas designated for borrow areas, embankment, and structural works shall be cleared, grubbed and stripped of topsoil. All trees, vegetation, roots and other objectionable material shall be removed.

Areas to be covered by the reservoir will be cleared of all trees, brush, logs, fences, rubbish and other objectionable material unless otherwise designated on the plans.

All cleared and grubbed material shall be disposed of outside and below the limits of the dam and reservoir as directed by the owner or his representative.

EARTH FILL

The Fill material shall be taken from approved designated borrow areas. It shall be free of roots, stumps, rocks, rubbish, stones greater than 6" frozen or other objectionable materials.

Placement - Areas on which fill is to be placed shall be scarified prior to placement of fill. Fill materials shall be placed in maximum 8-inch thick (before compaction) layers which are to be continuous over the entire length of the fill.

Compaction - The movement of the hauling and spreading equipment over the fill shall be controlled so that the entire surface of each lift shall be traversed by not less than one tread track of the equipment or compaction shall be achieved by a minimum of four complete passes of a sheepsfoot, rubber tire or vibratory roller.

When required by the reviewing agency the minimum required density shall not be less than 95% of maximum dry density with a moisture content within +/- 2% of the optimum.

Cutoff Trench - The cutoff trench shall be excavated into impervious material along or parallel to the centerline of the embankment as shown on the plans.

Embankment Core - The core shall be parallel to the centerline of the embankment as shown on the plans. The top width of the core shall be a minimum of four feet.

STRUCTURE BACKFILL

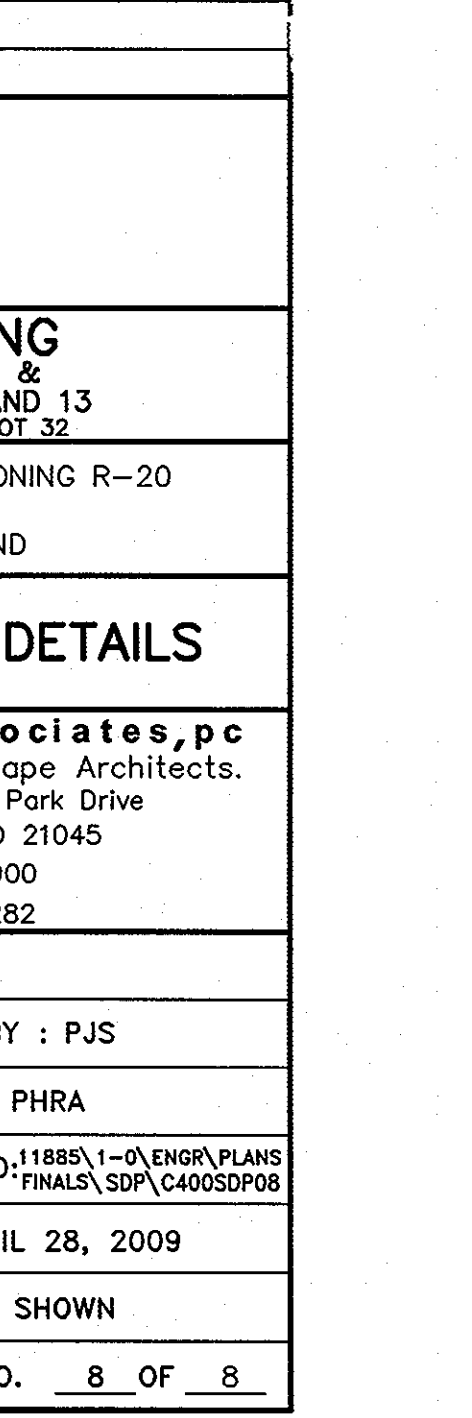
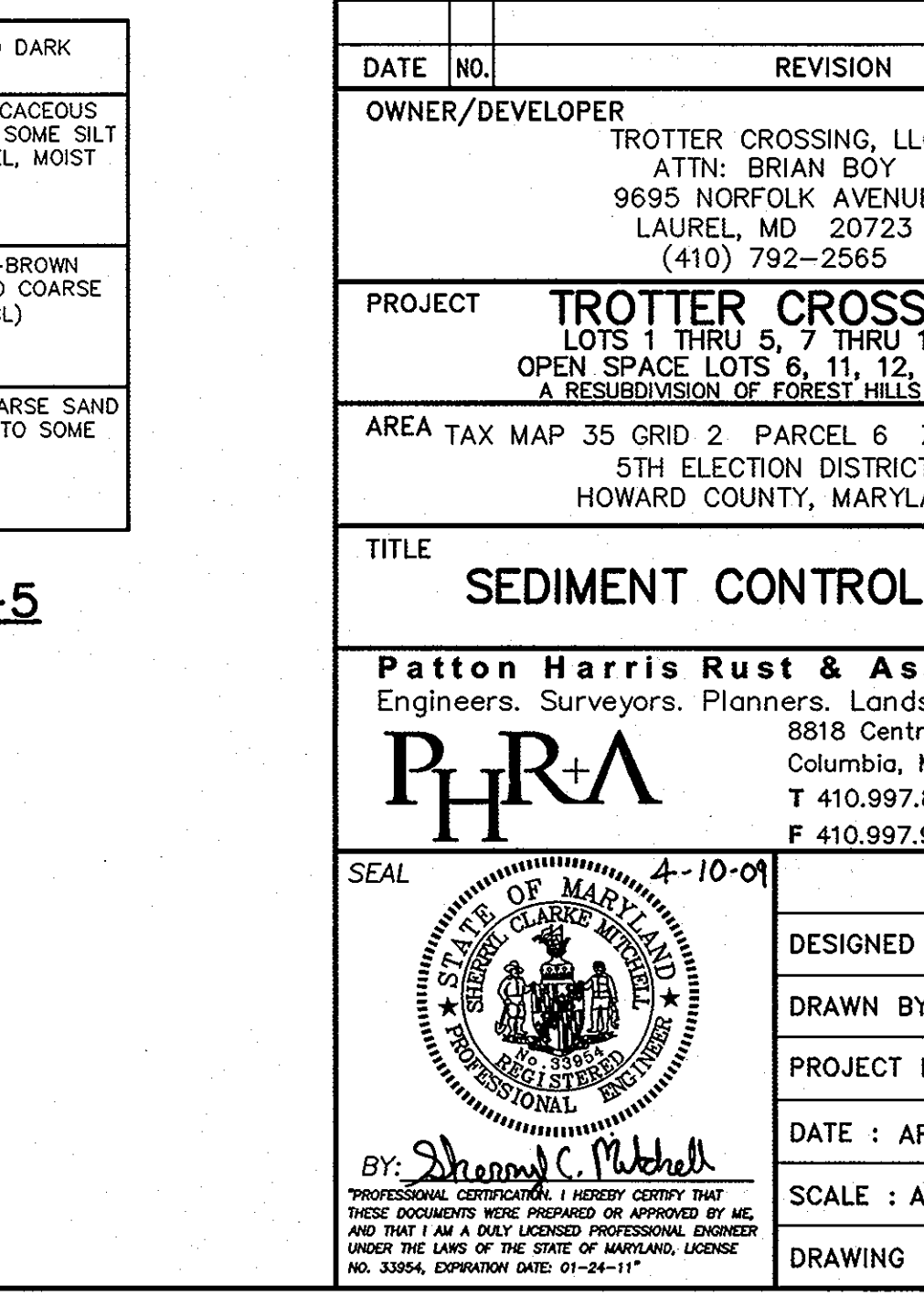
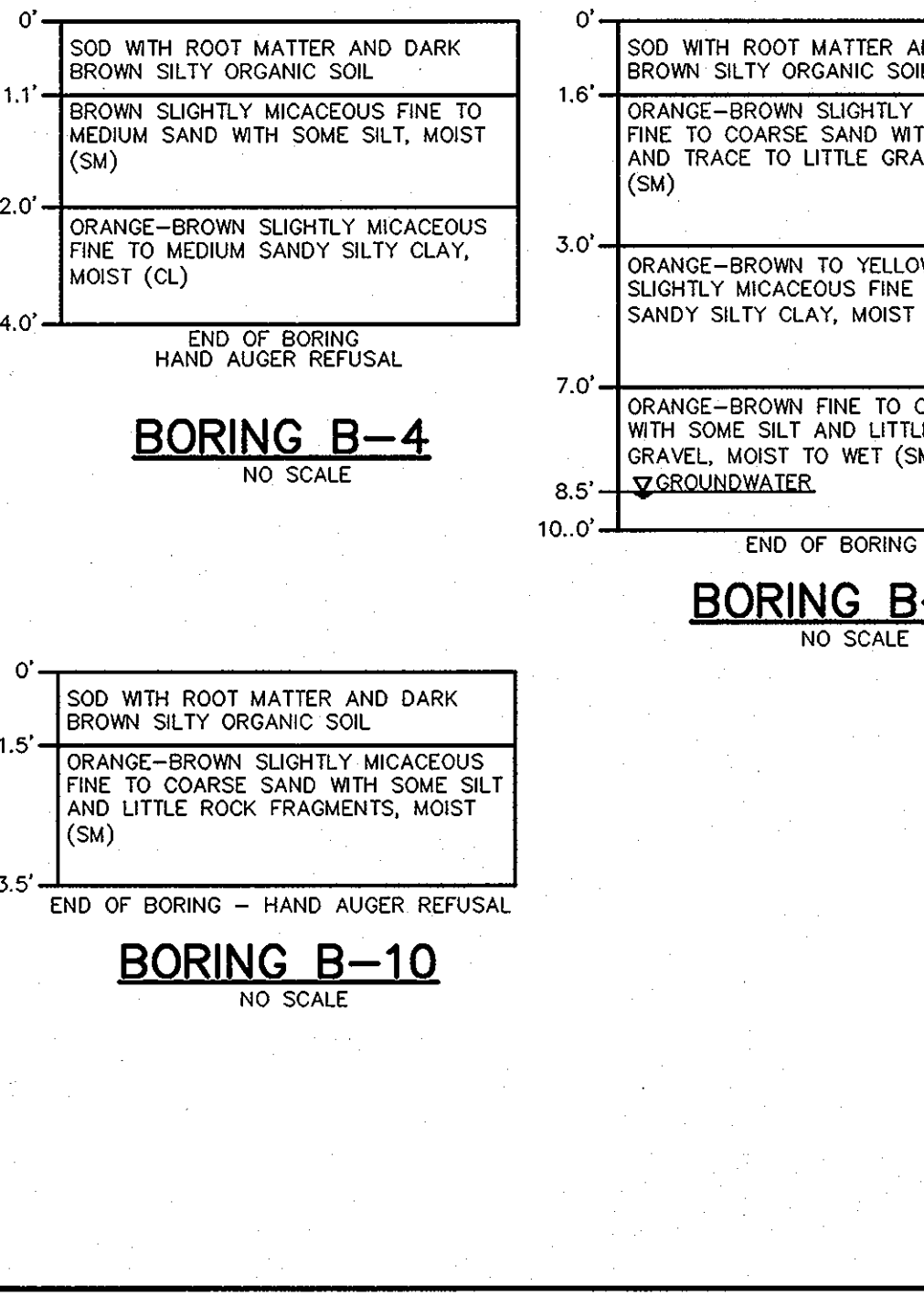
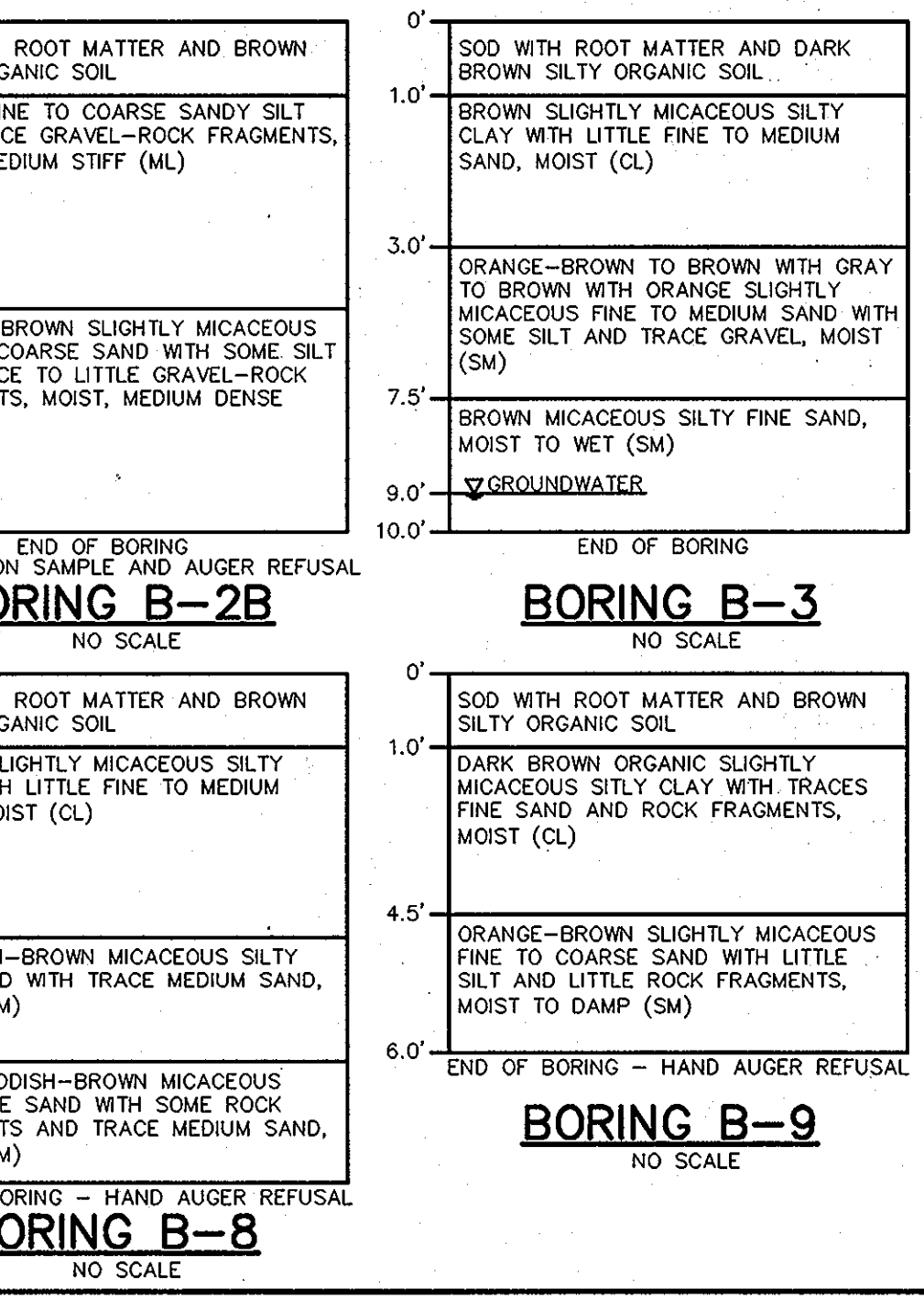
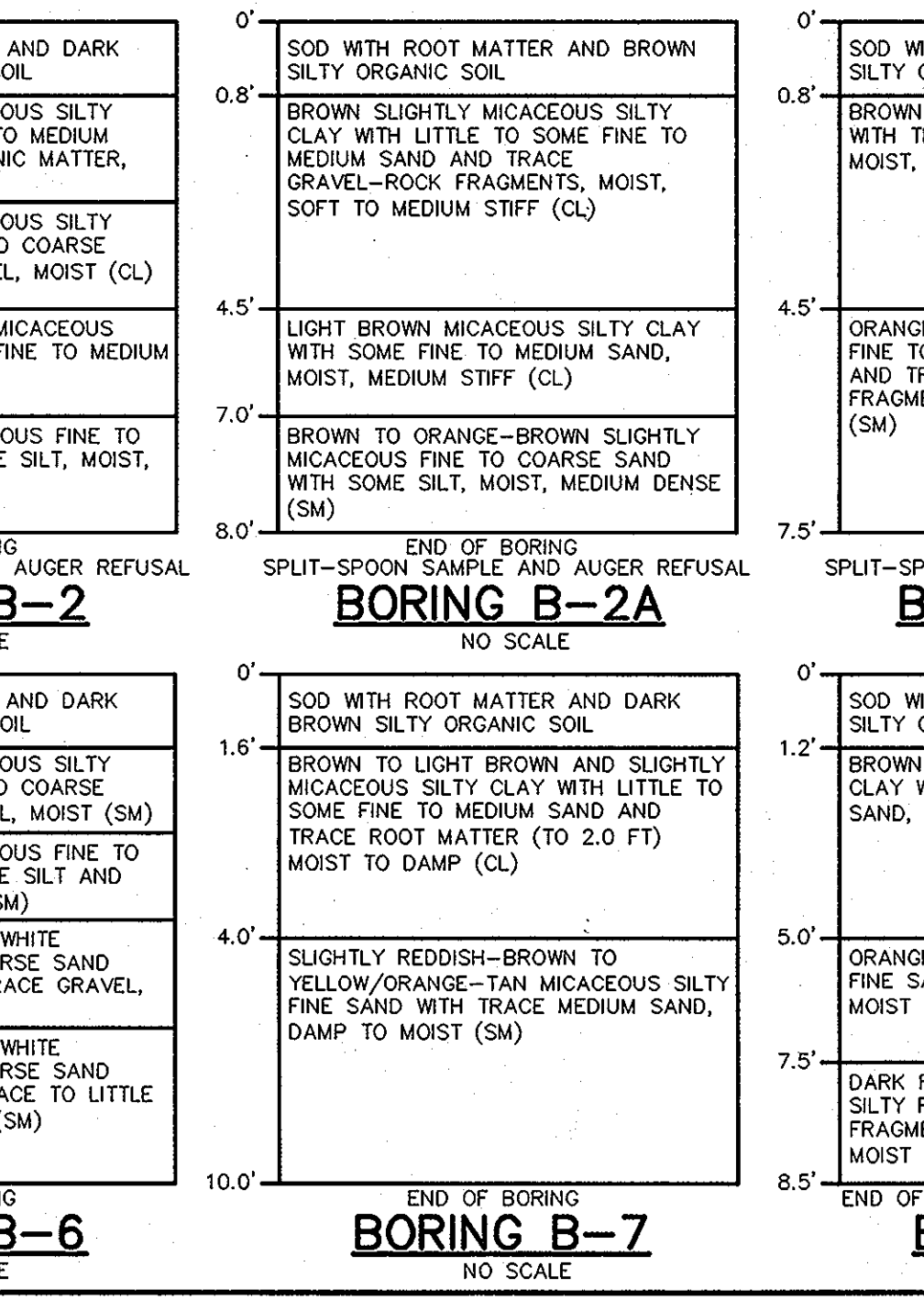
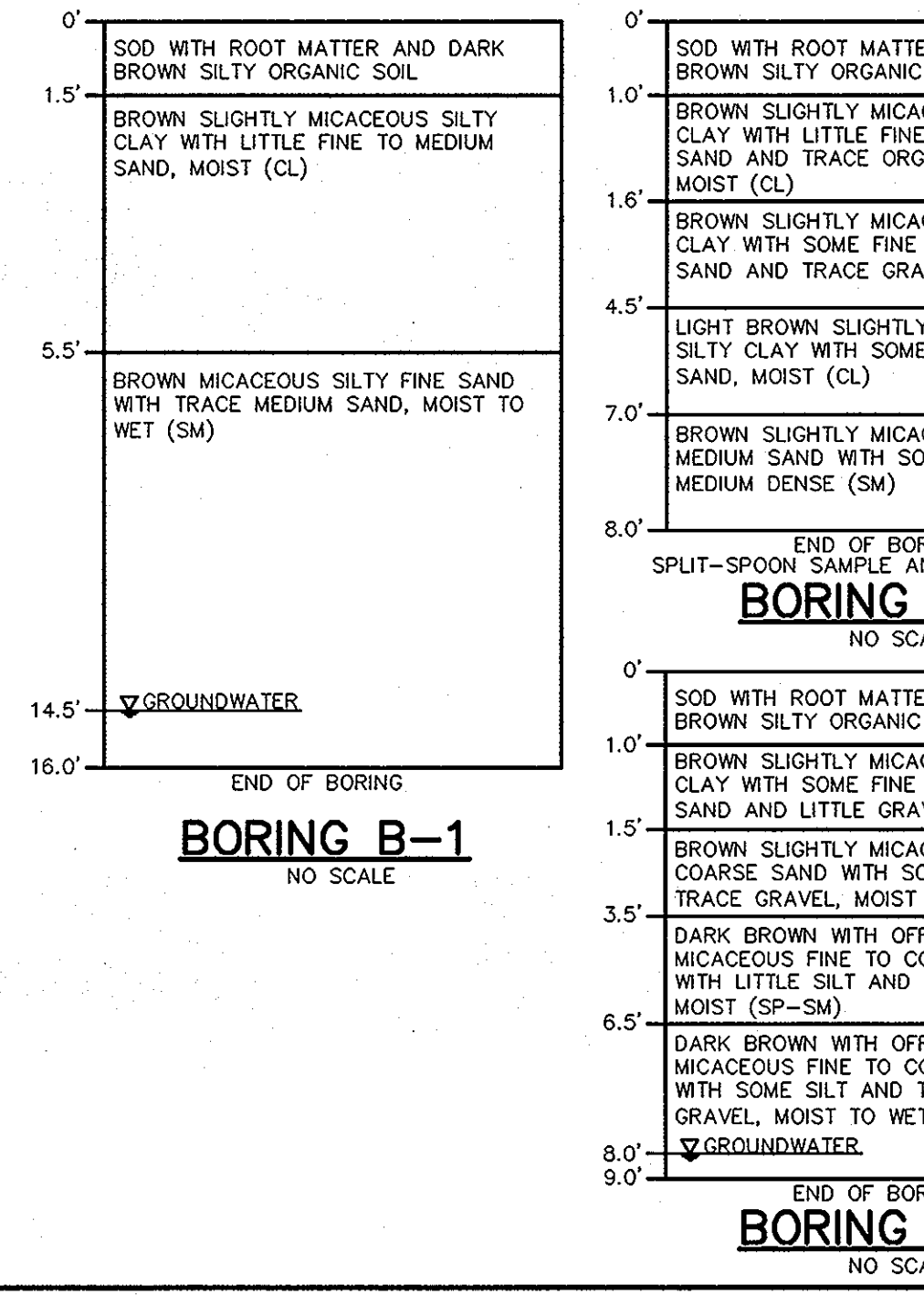
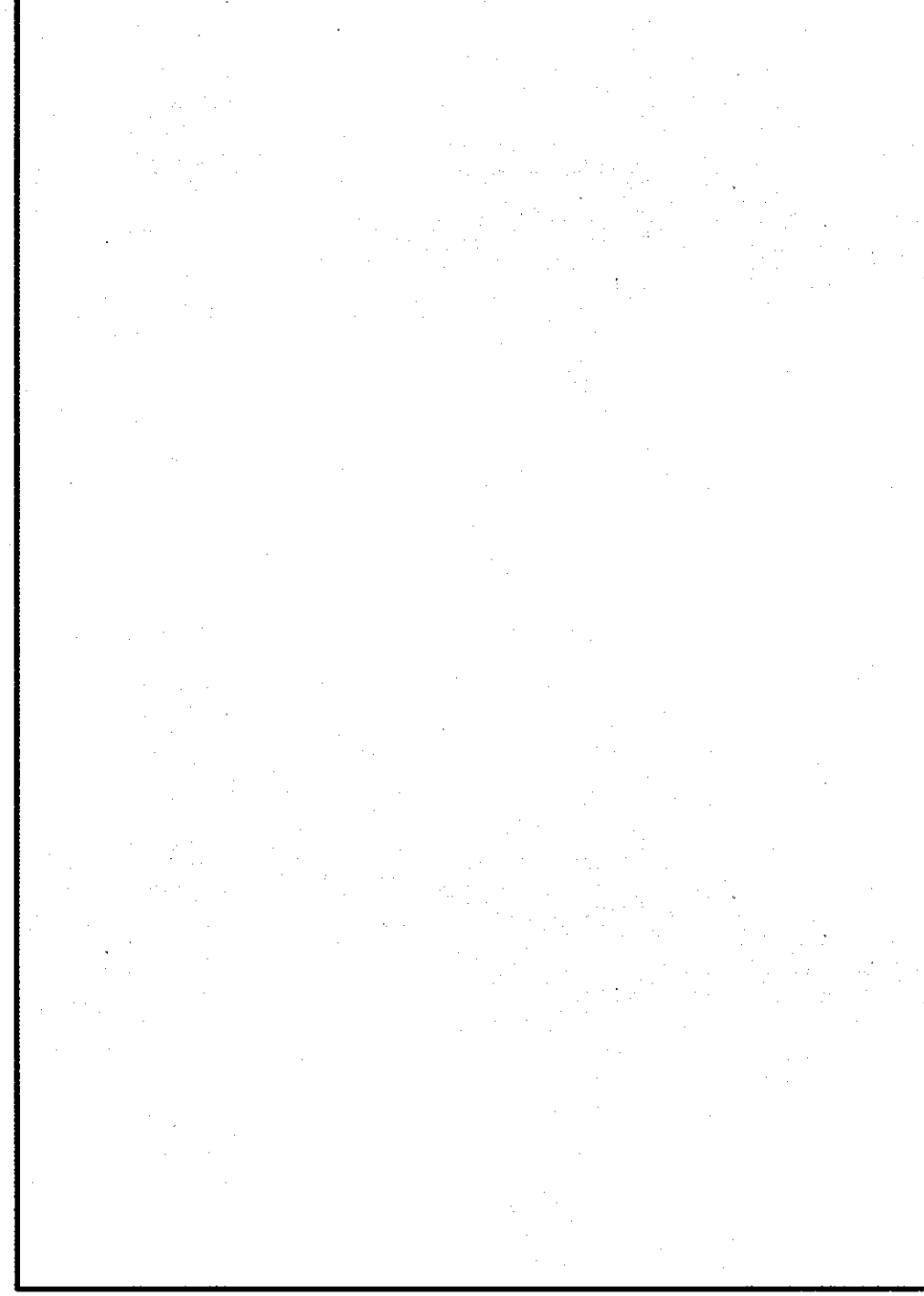
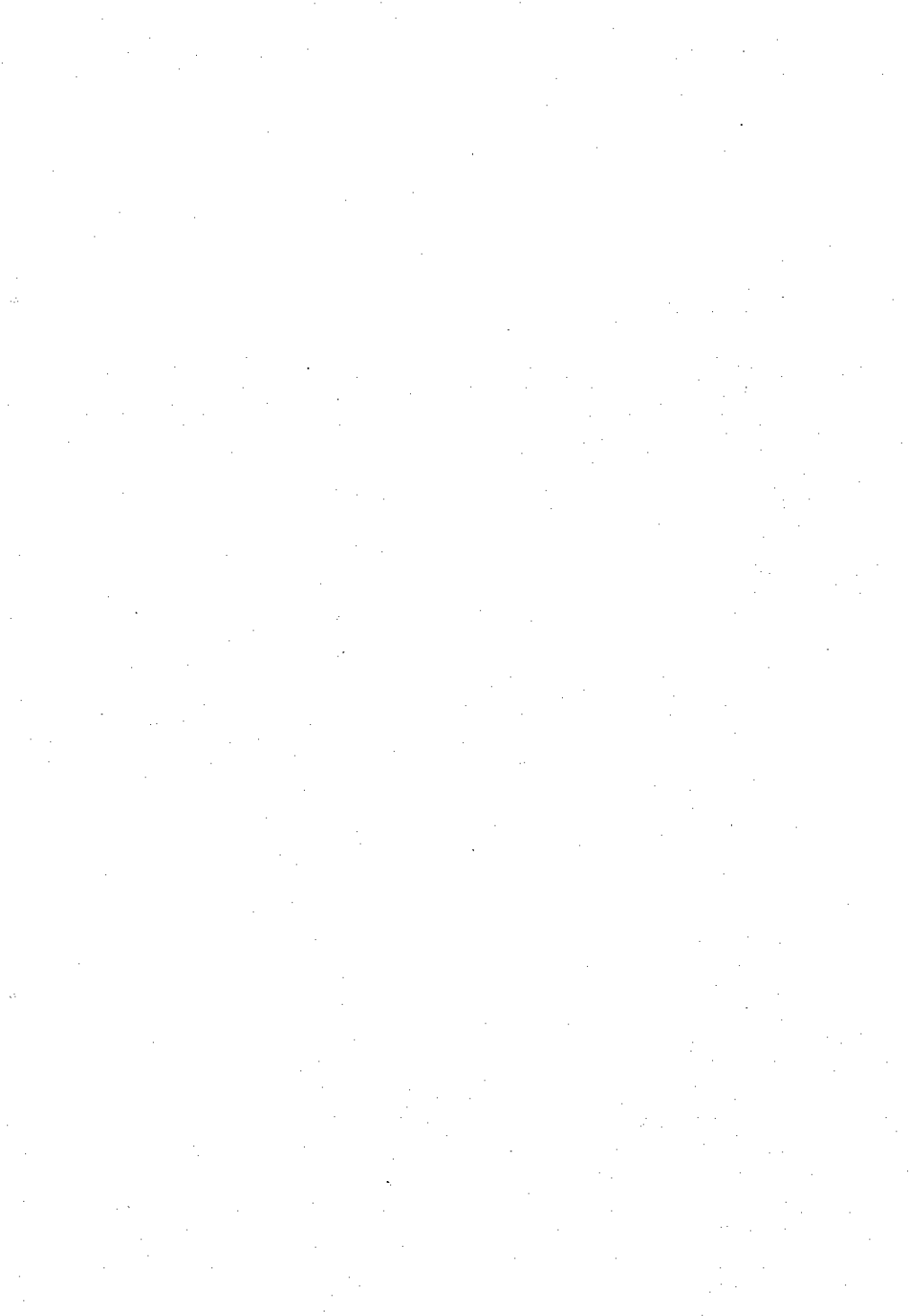
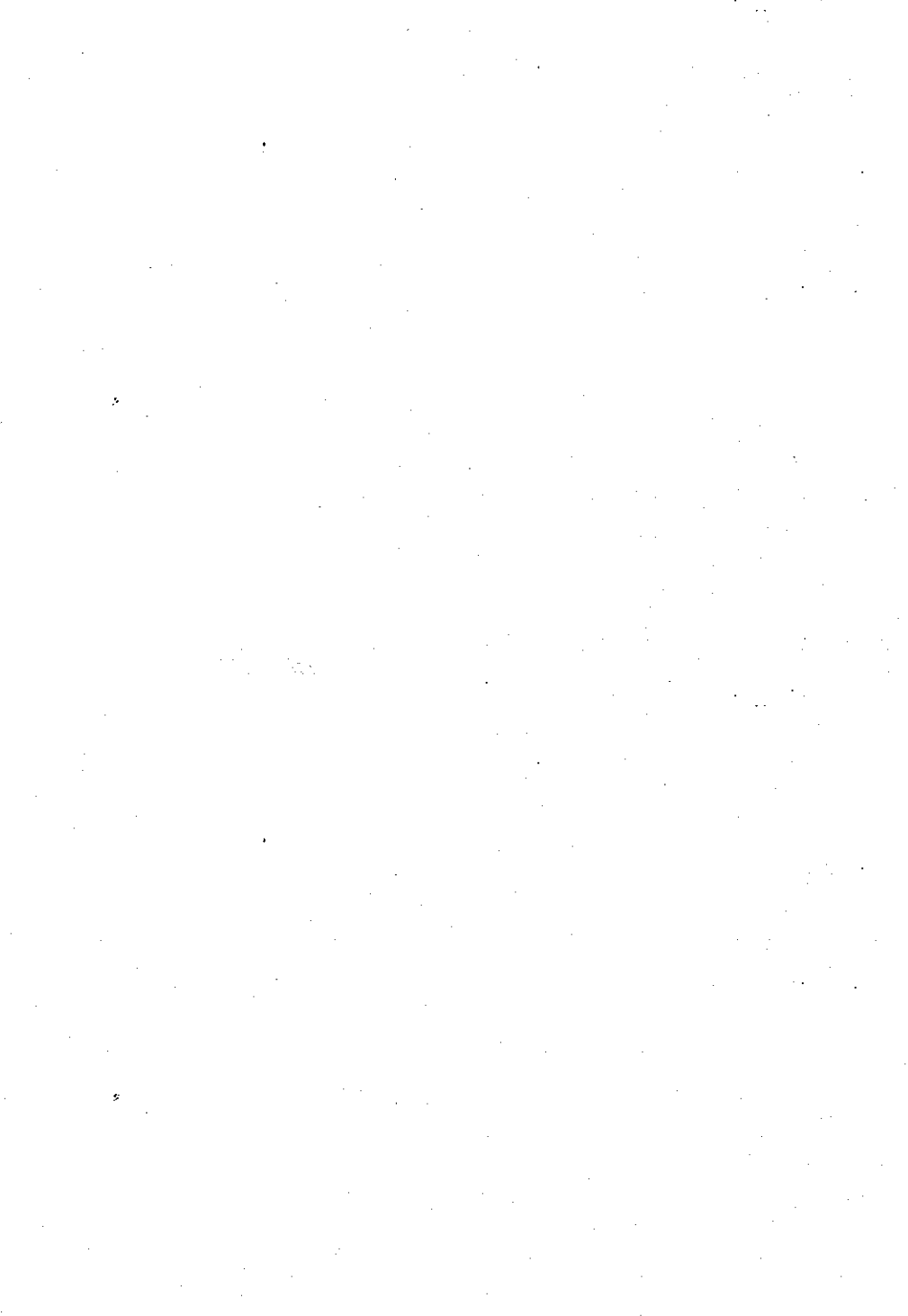
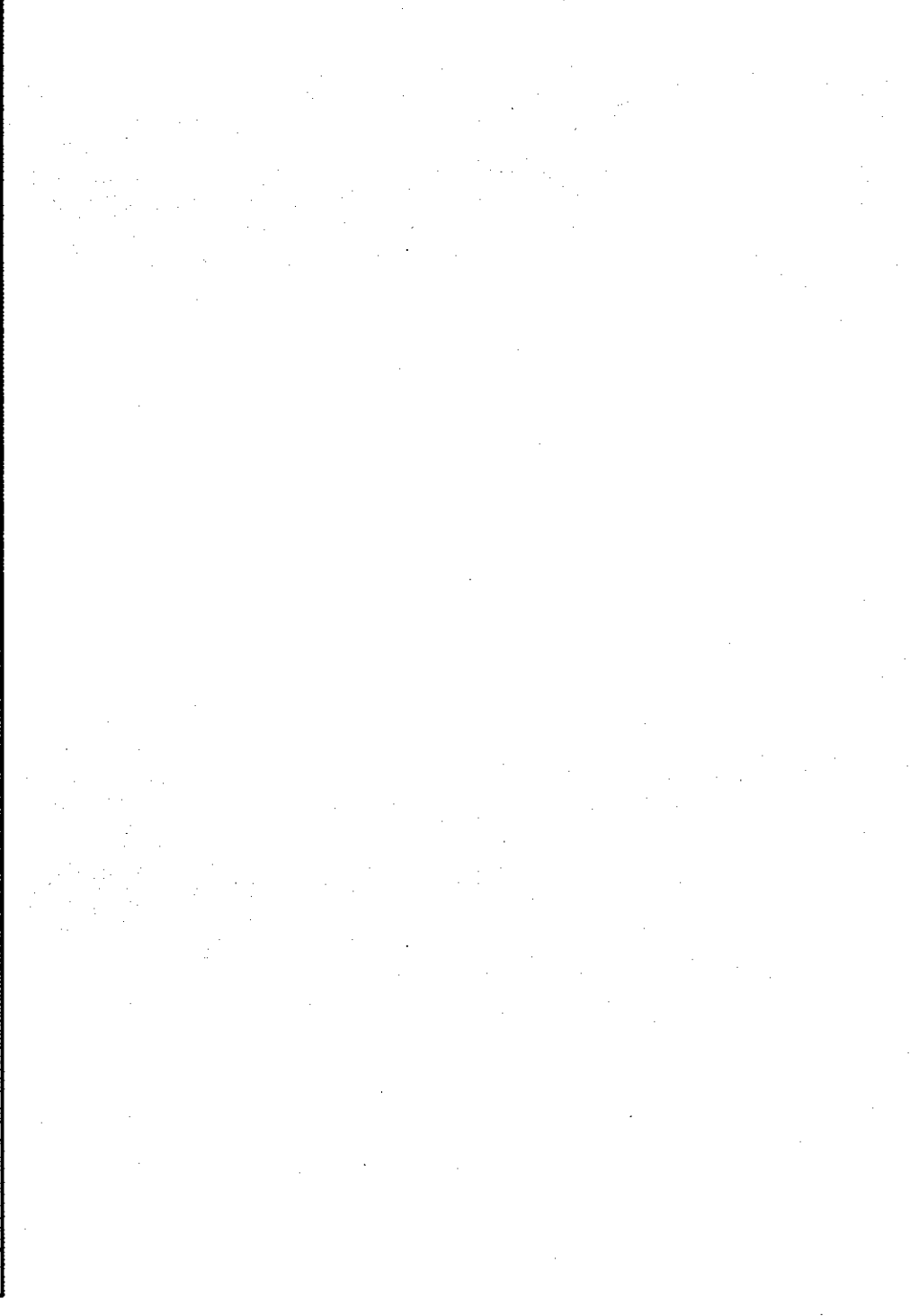
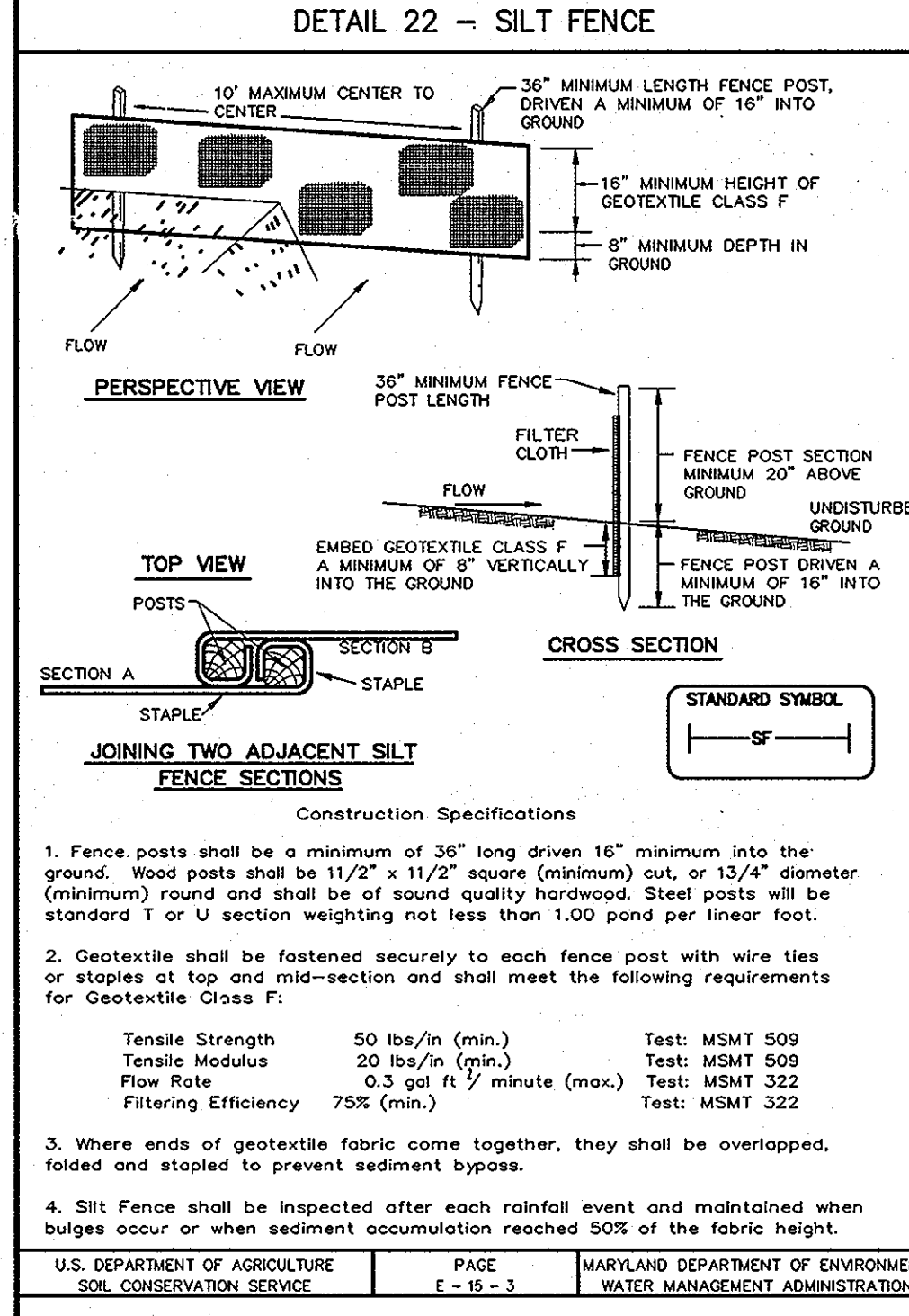
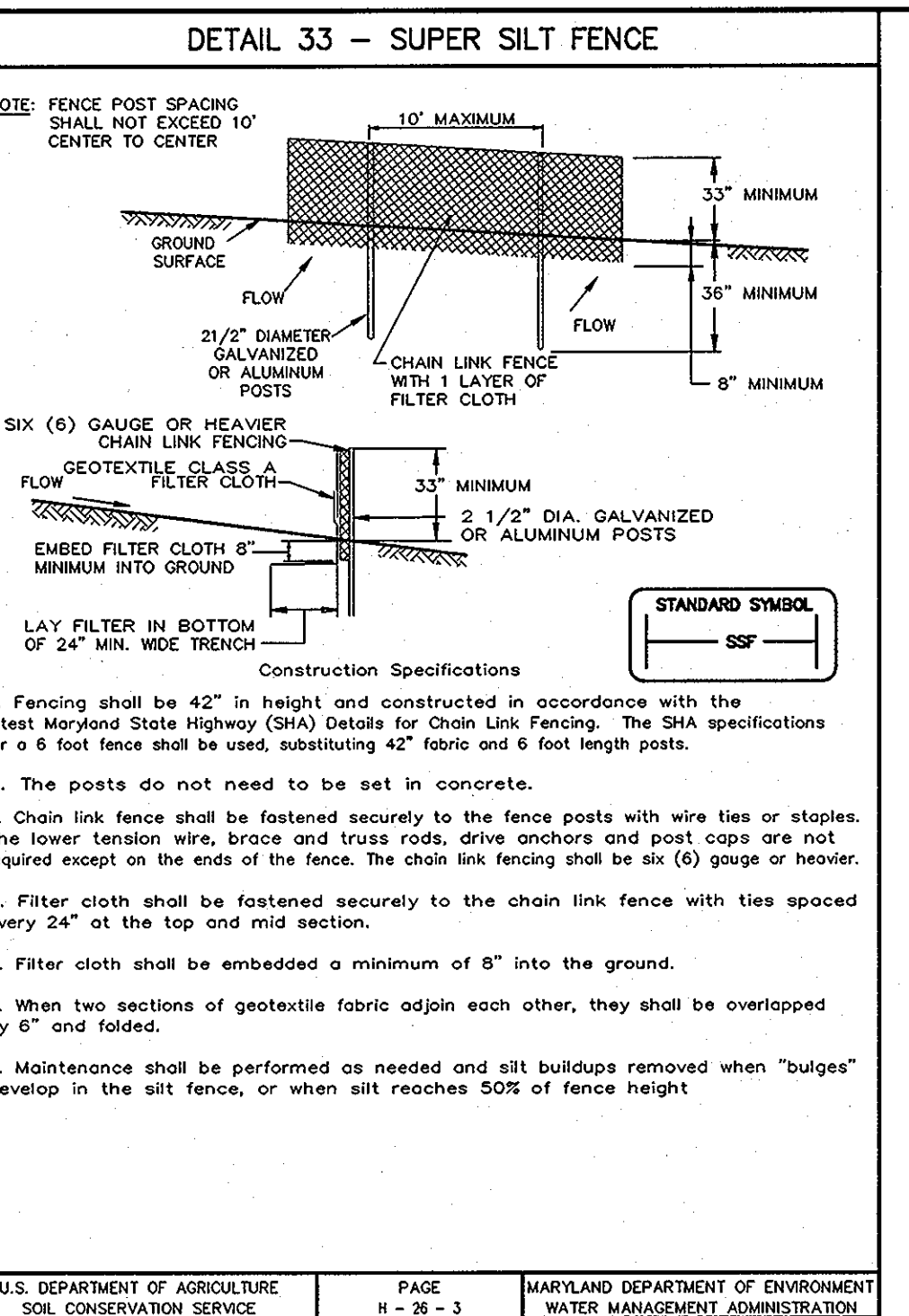
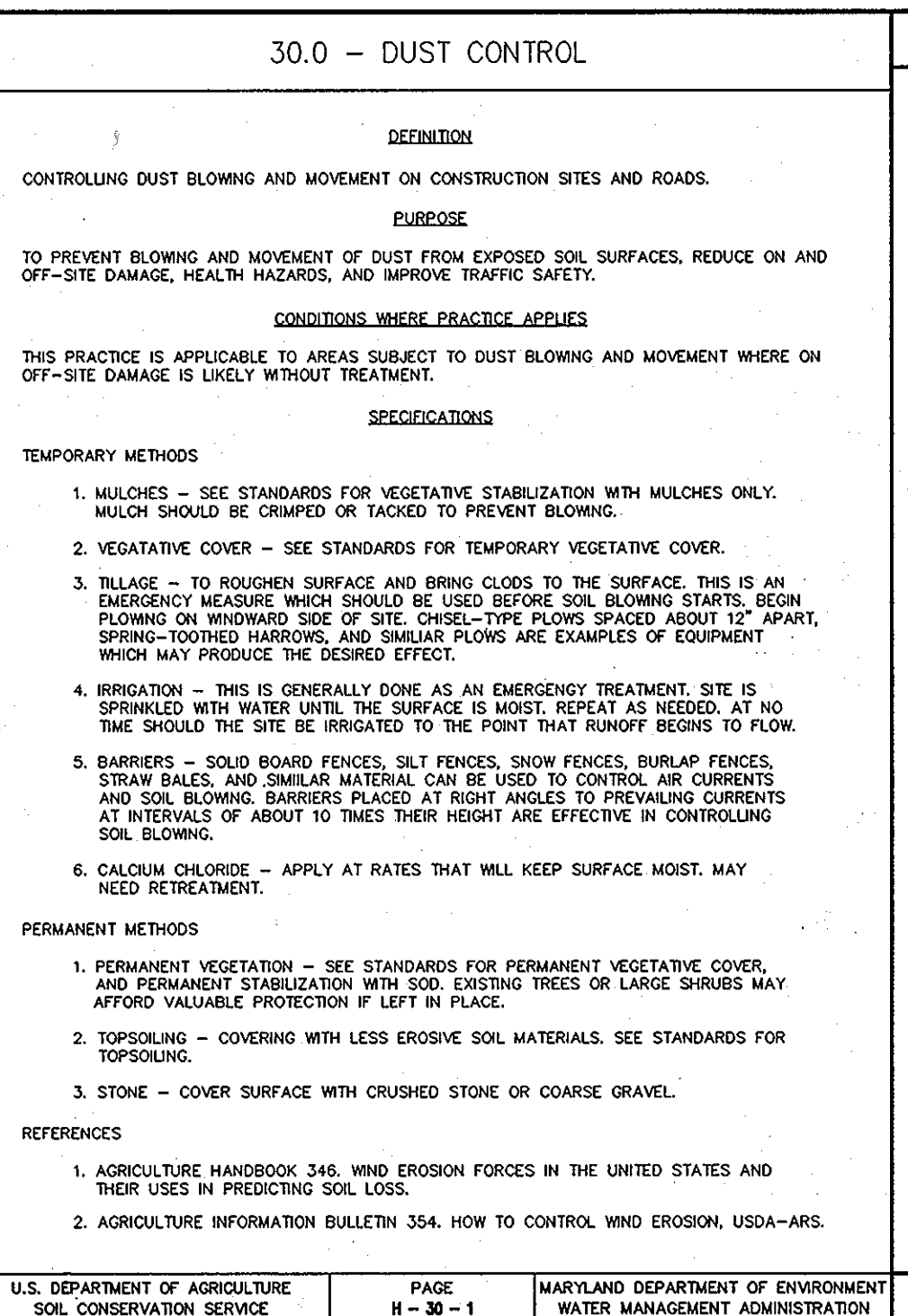
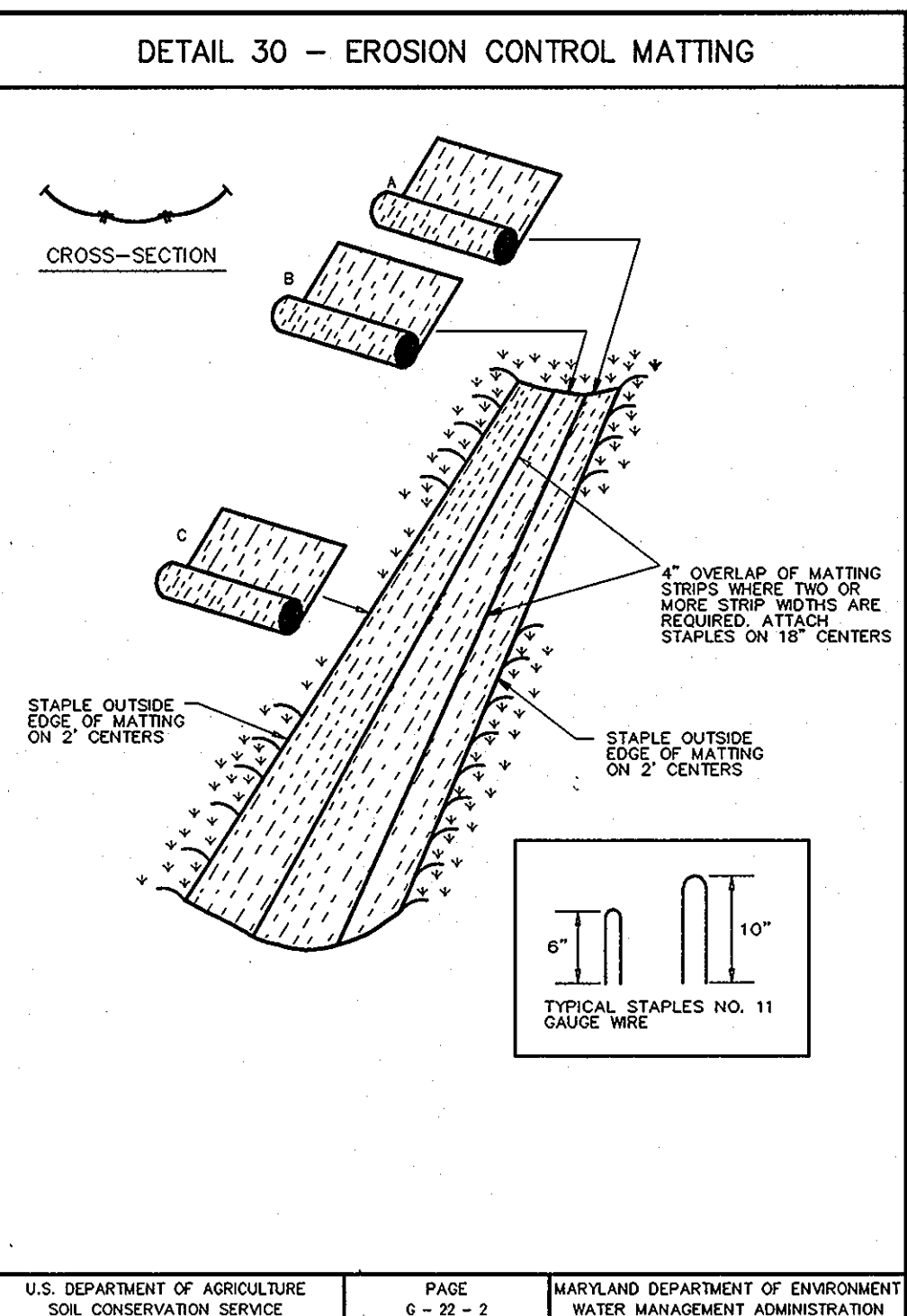
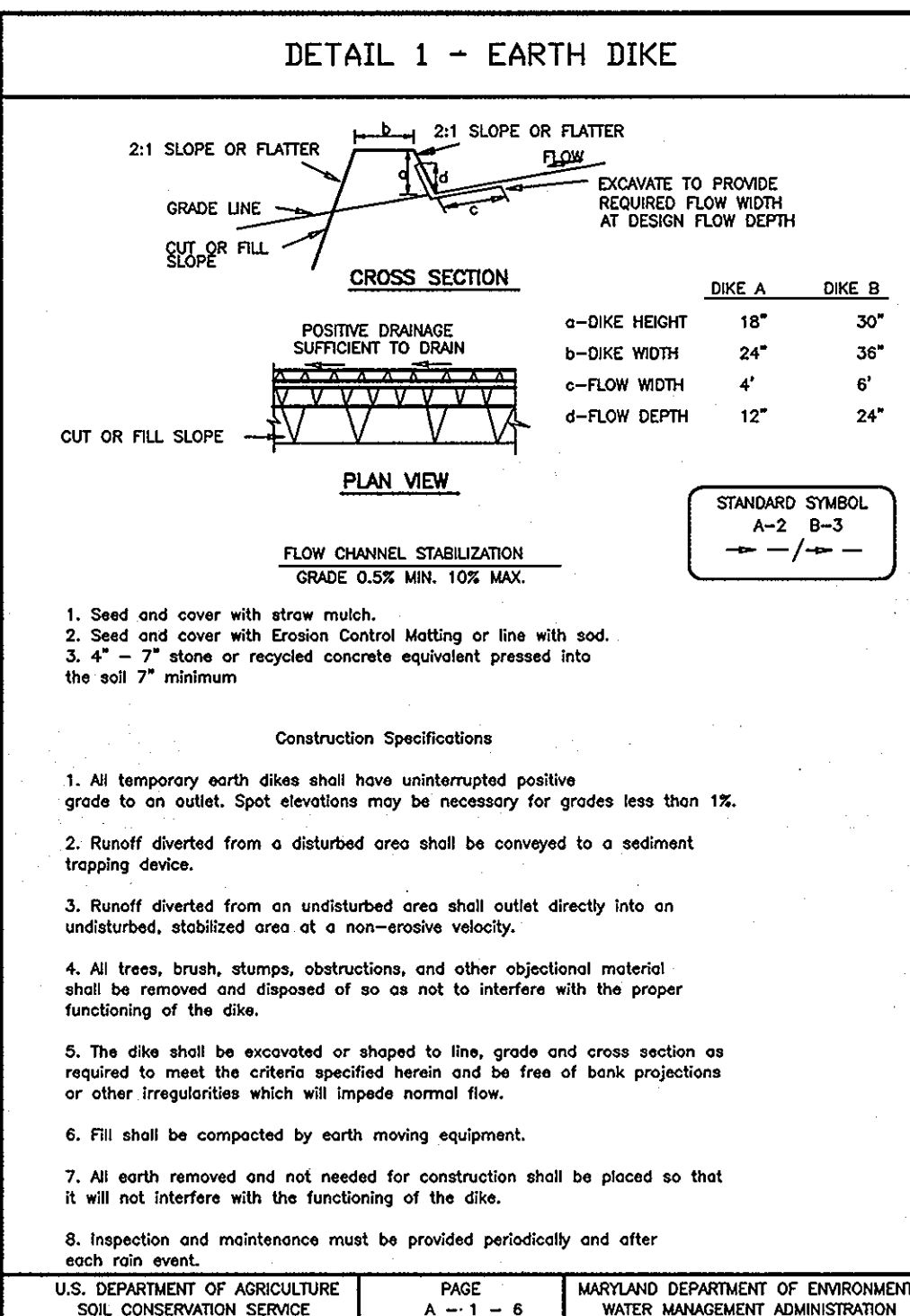
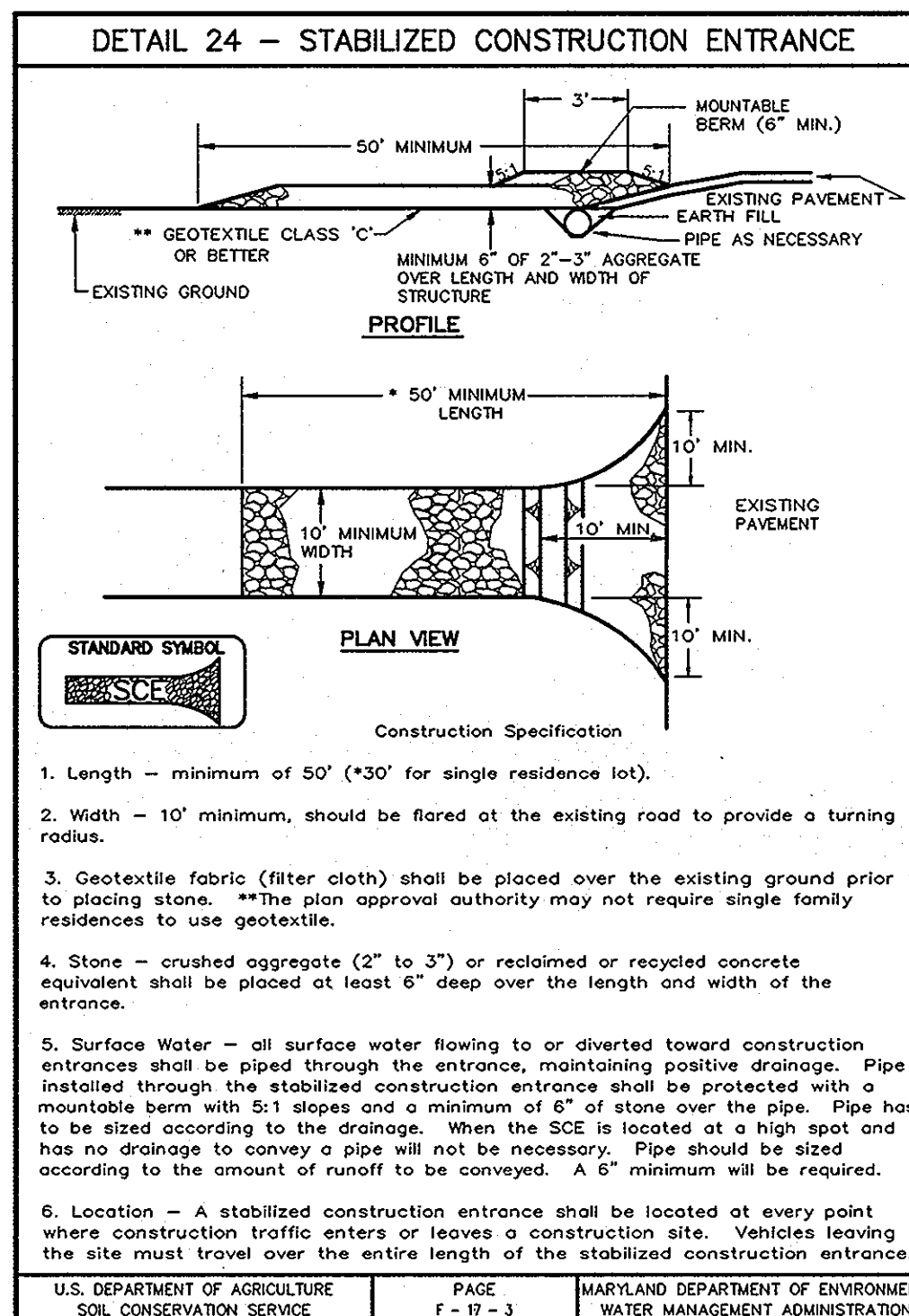
Backfill adjacent to pipes or structures shall be of the type and quality conforming to that specified for the adjoining fill material. The fill shall be placed in horizontal layers not to exceed four feet in thickness.

Structure backfill may be flowable fill meeting the requirements of Maryland Department of Transportation, State Highway Administration Standard Specifications for Construction and Materials, Section 318 as modified.

- 3. Laying pipe - Bell and spigot pipe shall be placed with the bell end upstream. Joints shall be made in accordance with recommendations of the manufacturer of the material.

Plastic Pipe - The following criteria shall apply for pipe:

- 1. Materials - PVC pipe shall be PVC-1120 or PVC-1220 conforming to ASTM D-1785 or ASTM D-2241. Corrugated High Density Polyethylene (HDPE) pipe, couplings and fittings shall conform to the following: 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, 26, 28, 30, 32, 34, 36, 38, 40, 42, 44, 46, 48, 50, 52, 54, 56, 58, 60, 62, 64, 66, 68, 70, 72, 74, 76, 78, 80, 82, 84, 86, 88, 90, 92, 94, 96, 98, 100, 102, 104, 106, 108, 110, 112, 114, 116, 118, 120, 122, 124, 126, 128, 130, 132, 134, 136, 138, 140, 142, 144, 146, 148, 150, 152, 154, 156, 158, 160, 162, 164, 166, 168, 170, 172, 174, 176, 178, 180, 182, 184, 186, 188, 190, 192, 194, 196, 198, 200, 202, 204, 206, 208, 210, 212, 214, 216, 218, 220, 222, 224, 226, 228, 230, 232, 234, 236, 238, 240, 242, 244, 246, 248, 250, 252, 254, 256, 258, 260, 262, 264, 266, 268, 270, 272, 274, 276, 278, 280, 282, 284, 286, 288, 290, 292, 294, 296, 298, 300, 302, 304, 306, 308, 310, 312, 314, 316, 318, 320, 322, 324, 326, 328, 330, 332, 334, 336, 338, 340, 342, 344, 346, 348, 350, 352, 354, 356, 358, 360, 362, 364, 366, 368, 370, 372, 374, 376, 378, 380, 382, 384, 386, 388, 390, 392, 394, 396, 398, 400, 402, 404, 406, 408, 410, 412, 414, 416, 418, 420, 422, 424, 426, 428, 430, 432, 434, 436, 438, 440, 442, 444, 446, 448, 450, 452, 454, 456, 458, 460, 462, 464, 466, 468, 470, 472, 474, 476, 478, 480, 482, 484, 486, 488, 490, 492, 494, 496, 498, 500, 502, 504, 506, 508, 510, 512, 514, 516, 518, 520, 522, 524, 526, 528, 530, 532, 534, 536, 538, 540, 542, 544, 546, 548, 550, 552, 554, 556, 558, 560, 562, 564, 566, 568, 570, 572, 574, 576, 578, 580, 582, 584, 586, 588, 590, 592, 594, 596, 598, 600, 602, 604, 606, 608, 610, 612, 614, 616, 618, 620, 622, 624, 626, 628, 630, 632, 634, 636, 638, 640, 642, 644, 646, 648, 650, 652, 654, 656, 658, 660, 662, 664, 666, 668, 670, 672, 674, 676, 678, 680, 682, 684, 686, 688, 690, 692, 694, 696, 698, 700, 702, 704, 706, 708, 710, 712, 714, 716, 718, 720, 722, 724, 726, 728, 730, 732, 734, 736, 738, 740, 742, 744, 746, 748, 750, 752, 754, 756, 758, 760, 762, 764, 766, 768, 770, 772, 774, 776, 778, 780, 782, 784, 786, 788, 790, 792, 794, 796, 798, 800, 802, 804, 806, 808, 810, 812, 814, 816, 818, 820, 822, 824, 826, 828, 830, 832, 834, 836, 838, 840, 842, 844, 846, 848, 850, 852, 854, 856, 858, 860, 862, 864, 866, 868, 870, 872, 874, 876, 878, 880, 882, 884, 886, 888, 890, 892, 894, 896, 898, 900, 902, 904, 906, 908, 910, 912, 914, 916, 918, 920, 922, 924, 926, 928, 930, 932, 934, 936, 938, 940, 942, 944, 946, 948, 950, 952, 954, 956, 958, 960, 962, 964, 966, 968, 970, 972, 974, 976, 978, 980, 982, 984, 986, 988, 990, 992, 994, 996, 998, 1000, 1002, 1004, 1006, 1008, 1010, 1012, 1014, 1016, 1018, 1020, 1022, 1024, 1026, 1028, 1030, 1032, 1034, 1036, 1038, 1040, 1042, 1044, 1046, 1048, 1050, 1052, 1054, 1056, 1058, 1060, 1062, 1064, 1066, 1068, 1070, 1072, 1074, 1076, 1078, 1080, 1082, 1084, 1086, 1088, 1090, 1092, 1094, 1096, 1098, 1100, 1102, 1104, 1106, 1108, 1110, 1112, 1114, 1116, 1118, 1120, 1122, 1124, 1126, 1128, 1130, 1132, 1134, 1136, 1138, 1140, 1142, 1144, 1146, 1148, 1150, 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2812, 2814, 2816, 2818, 2820, 2822, 2824, 2826, 2828, 2830, 2832, 2834, 2836, 2838, 2840, 2842, 2844, 2846, 2848, 2850, 2852, 2854, 2856, 2858, 2860, 2862, 2864, 2866, 2868, 2870, 2872, 2874, 2876, 2878, 2880, 2882, 2884, 2886, 2888, 2890, 2892, 2894, 2896, 2898, 2900, 2902, 2904, 2906, 2908, 2910, 2912, 2914, 2916, 2918, 2920, 2922, 2924, 2926, 2928, 2930, 2932, 2934, 2936, 2938, 2940, 2942, 2944, 2946, 2948, 2950, 2952, 2954, 2956, 2958, 2960, 2962, 2964, 2966, 2968, 2970, 2972, 2974, 2976, 2978, 2980, 2982, 2984, 2986, 2988, 2990, 2992, 2994, 2996, 2998, 3000, 3002, 3004, 3006, 3008, 3010, 3012, 3014, 3016, 3018, 3020, 3022, 3024, 3026, 3028, 3030, 3032, 3034, 3036, 3038, 3040, 3042, 3044, 3046, 3048, 3050, 3052, 3054, 3056, 3058, 3060, 3062, 3064, 3066, 3068, 3070, 3072, 3074, 3076, 3078, 3080, 3082, 3084, 3086, 3088, 3090, 3092, 3094, 3096, 3098, 3100, 3102, 3104, 3106, 3108, 3110, 3112, 3114, 3116, 3118, 3120, 3122, 3124, 3126, 3128, 3130, 3132, 3134, 3136, 3138, 3140, 3142, 3144, 3146, 3148, 3150, 3152, 3154, 3156, 3158, 3160, 3162, 3164, 3166, 3168, 3170, 3172, 3174, 3176, 3178, 3180, 3182, 3184, 3186, 3188, 3190, 3192, 3194, 3196, 3198, 3200, 3202, 3204, 3206, 3208, 3210, 3212, 3214, 3216, 3218, 3220, 3222, 3224, 3226, 3228, 3230, 3232, 3234, 3236, 3238, 3240, 3242, 3244, 3246, 3248, 3250, 3252, 3254, 3256, 3258, 3260, 3262, 3264, 3266, 3268, 3270, 3272, 3274, 3276, 3278, 3280, 3282, 3284, 3286, 3288, 3290, 3292, 3294, 3296, 3298, 3300, 3302, 3304, 3306, 3308, 3310, 3312, 3314, 3316, 3318, 3320, 3322, 3324, 3326, 3328, 3330, 3332, 3334, 3336, 3338, 3340, 3342, 3344, 3346, 3348, 3350, 3352, 3354, 3356, 3358, 3360, 3362, 3364, 3366, 3368, 3370, 3372, 3374, 3376, 3378, 3380, 3382, 3384, 3386, 3388, 3390, 3392, 3394, 3396, 3398, 3400, 3402, 3404, 3406, 3408, 3410, 3412, 3414, 3416, 3418, 3420, 3422, 3424, 3426, 3428, 3430, 3432, 3434, 3436, 3438, 3440, 3442, 3444, 3446, 3448, 3450, 3452, 3454, 3456, 3458, 3460, 3462, 3464, 3466, 3468, 3470, 3472, 3474, 3476, 3478, 3480, 3482, 3484, 3486, 3488, 3490, 3492, 3494, 3496, 3498, 3500, 3502, 3504, 3506, 3508, 3510, 3512, 3514, 3516, 3518, 3520, 3522, 3524, 3526, 3528, 3530, 3532, 3534, 3536, 3538, 3540, 3542, 3544, 3546, 3548, 3550, 3552, 3554, 3556, 3558, 3560, 3562, 3564, 3566, 3568, 3570, 3572, 3574, 3576, 3578, 3580, 3582, 3584, 3586, 3588, 3590, 3592, 3594, 3596, 3598, 3600, 3602, 3604, 3606, 3608, 3610, 3612, 3614, 3616, 3618, 3620, 3622, 3624, 3626, 3628, 3630, 3632, 3634, 3636, 3638, 3640, 3642, 3644, 3646, 3648, 3650, 3652, 3654, 3656, 3658, 3660, 3662, 3664, 3666, 3668, 3670, 3672, 3674, 3676, 3678, 3680, 3682, 3684, 3686, 3688, 3690, 3692, 3694, 3696, 3698, 3700, 3702, 3704, 3706, 3708, 3710, 3712, 3714, 3716, 3718, 3720, 3722, 3724, 3726, 3728, 3730, 3732, 3734, 3736, 3738, 3740, 3742, 3744, 3746, 3748, 3750, 3752, 3754, 3756, 3758, 3760, 3762, 3764, 3766, 3768, 3770, 3772, 3774, 3776, 3778, 3780, 3782, 3784, 3786, 3788, 3790, 3792, 3794, 3796, 3798, 3800, 3802, 3804, 3806, 3808, 3810, 3812, 3814, 3816, 3818, 3820, 3822, 3824, 3826, 3828, 3830, 3832, 3834, 3836, 3838, 3840, 3842, 3844, 3846, 3848, 3850, 3852, 3854, 3856, 3858, 3860, 3862, 3864, 3866, 3868, 3870, 3872, 3874, 3876, 3878, 3880, 3882, 3884, 3886, 3888, 3890, 3892, 3894, 3896, 3898, 3900, 390



ENGINEER'S CERTIFICATE
I CERTIFY THAT THIS PLAN FOR SEDIMENT AND EROSION 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.

Sherry C. Mitchell 4-10-09
SIGNATURE OF ENGINEER (PRINT NAME BELOW SIGNATURE) DATE

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 ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTIONS BY THE HOWARD SOIL CONSERVATION DISTRICT.

B. D. By 4/14/09
SIGNATURE OF DEVELOPER (PRINT NAME BELOW SIGNATURE) DATE

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

John K. Robertson 5/5/09
HOWARD SOIL CONSERVATION DISTRICT DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.

John Dammann 5/7/09
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

Cindy Hunt 5/12/09
CHIEF, DIVISION OF LAND DEVELOPMENT DATE

Thomas E. Butler 5/14/09
DIRECTOR, DEIR DATE

DATE	NO.	REVISION
OWNER/DEVELOPER TROTTER CROSSING, LLC ATTN: BRIAN BOYD 9695 NORFOLK AVENUE LAUREL, MD 20723 (410) 792-2565		
PROJECT TROTTER CROSSING LOTS 1 THRU 5, 7 THRU 10 & OPEN SPACE LOTS 11, 12, AND 13 A RESUBDIVISION OF FOREST HILLS LOT 32		
AREA TAX MAP 35 GRID 2 PARCEL 6 ZONING R-20 5TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND		
TITLE SEDIMENT CONTROL DETAILS		
Patton Harris Rust & Associates, pc Engineers, Surveyors, Planners, Landscape Architects. 8818 Centre Park Drive Columbia, MD 21045 T 410.997.8900 F 410.997.9282		
SEAL	DESIGNED BY: PJS	
DRAWN BY: PHRA		
PROJECT NO. 118851-0-ENGR PLANS FINAL(S) SDP/CA005D08		
DATE: APRIL 28, 2009		
SCALE: AS SHOWN		
DRAWING NO. 8 OF 8		