

GENERAL NOTES

- 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 START OF WORK.
- THE CONTRACTOR SHALL NOTIFY "MISS UTILITY" AT 1-800-257-7777 AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION WORK.
- THE PROJECT BOUNDARY AND TOPOGRAPHY IS TAKEN FROM FIELD SURVEY WITH TWO FOOT CONTOUR INTERVALS. PREPARED BY ROBERT H. VOGEL ENGINEERING, INC., JULY 2005 OF PARCEL 46 AND 815.
- THE COORDINATES SHOWN HEREON ARE BASED UPON THE HOWARD COUNTY GEODETIC CONTROL WHICH ARE BASED UPON THE MARYLAND STATE PLANE COORDINATE SYSTEM. HOWARD COUNTY MONUMENT NOS. 380A AND 3805 WERE USED FOR THIS PROJECT.
- STORMWATER MANAGEMENT TO BE PROVIDED FOR THIS DEVELOPMENT. WOV AND REV ARE PROVIDED BY A BIORETENTION FACILITY, RAINGARDENS AND ROOFTOP DISCONNECTS. SEE SHEET 4 FOR DETAILS. THE BIORETENTION FACILITY IS LOCATED ON HOA OPEN SPACE LOT 10 AND ARE TO BE PRIVATELY OWNED AND MAINTAINED BY THE HOME OWNERS ASSOCIATION.
- EXISTING UTILITIES LOCATED FROM ROAD CONSTRUCTION PLANS AND AVAILABLE RECORD DRAWINGS. CONTRACTOR SHALL LOCATE EXISTING UTILITIES WELL IN ADVANCE OF CONSTRUCTION ACTIVITIES AND TAKE ALL NECESSARY PRECAUTIONS TO PROTECT THE EXISTING UTILITIES AND TO MAINTAIN UNINTERRUPTED SERVICE.
- ANY DAMAGE TO PUBLIC RIGHTS-OF-WAY, PAVING, OR EXISTING UTILITIES WILL BE CORRECTED AT THE CONTRACTOR'S EXPENSE.
- SHC ELEVATIONS SHOWN ARE LOCATED AT THE PROPERTY LINE.
- FOR DRIVEWAY ENTRANCE DETAILS REFER TO THE HOWARD COUNTY DESIGN MANUAL, VOLUME IV, STANDARD DETAIL R-6.03.
- THE CONTRACTOR IS TO NOTIFY THE FOLLOWING UTILITIES OR AGENCIES AT LEAST FIVE DAYS BEFORE STARTING WORK ON THESE DRAWINGS:
 MISS UTILITY: 1-800-257-7777
 VERIZON TELEPHONE COMPANY: 1-800-743-0033
 BUREAU OF UTILITIES: 410-313-4900
 AT&T CABLE LOCATION DIVISION: 1-800-252-1133
 B.G.&E. CO. CONTRACTOR SERVICES: 410-637-8713
 B.G.&E. CO. (EMERGENCY): 410-685-0123
 STATE HIGHWAY ADMINISTRATION: 410-531-5533
 COLONIAL PIPELINE CO.: 410-795-1390
- THE SUBJECT PROPERTY IS ZONED "R-12" IN ACCORDANCE WITH THE 2/2/04 COMPREHENSIVE ZONING PLAN AND THE COMP. LITE ZONING REGULATIONS EFFECTIVE ON 7/28/06.
- IN ACCORDANCE WITH SECTION 128 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.
- NO GRADING, REMOVAL OF VEGETATIVE COVER OR TREES, PAVING AND NEW STRUCTURES SHALL BE PERMITTED WITHIN THE REQUIRED WETLANDS, STREAM(S) OR THEIR BUFFERS, FOREST CONSERVATION EASEMENT AREAS AND 100-YEAR FLOODPLAIN.
- DRIVEWAYS SHALL BE PROVIDED PRIOR TO RESIDENTIAL OCCUPANCY TO INSURE SAFE ACCESS FOR FIRE AND EMERGENCY VEHICLES PER THE FOLLOWING MINIMUM REQUIREMENTS:
 A) WIDTH - 12 FEET (16 FEET IF SERVING MORE THAN ONE RESIDENCE)
 B) SURFACE - 6 INCHES OF COMPACTED CRUSHER RUN BASE WITH TAR AND CHIP COATING
 C) GEOMETRY - MAXIMUM 15% GRADE, MAXIMUM 10% GRADE CHANGE, AND MINIMUM 45 FOOT TURNING RADIUS
 D) STRUCTURES (CULVERTS/BRIDGES) - MUST SUPPORT 25 GROSS TON LOADING (H25 LOADING)
 E) DRAINAGE ELEMENTS - CAPABLE OF SAFELY PASSING 100 YEAR FLOOD EVENTS WITH NO MORE THAN 1 FOOT DEPTH OVER DRIVEWAY SURFACE
 F) STRUCTURE CLEARANCES - MINIMUM 12 FEET
 G) MAINTENANCE - SUFFICIENT TO INSURE ALL WEATHER USE
- WATER AND SEWER FOR THIS SITE HAS BEEN PROVIDED BY PUBLIC CONTRACT #14-4639-D.
- THERE ARE NO WETLANDS OR STREAMS LOCATED ON-SITE.
- NO 100-YR FLOODPLAIN IS LOCATED ON-SITE.
- A FOREST STAND DELINEATION PLAN WAS PREPARED BY ROBERT H. VOGEL ENGINEERING, INC DATED OCTOBER 2005 AND APPROVED UNDER F-10-49. THE FOREST CONSERVATION OBLIGATIONS FOR THIS PROJECT REQUIRES 0.48 ACRES OF AFFORESTATION HAS BEEN MET BY PLACEMENT OF 0.35 ACRES OF AFFORESTATION EASEMENT ON SITE AND THE REMAINDER OF 0.13 ACRES PLACED INTO AN OFF-SITE EASEMENT IDENTIFIED AS TRINITY HOMES AT CYPRESS SPRINGS FOREST CONSERVATION RETENTION BANK. (SDP-09-61), MAP 38, BLOCK 3, PARCELS 42, 44, 45 AND 46. SURETY HAS BEEN PROVIDED UNDER F-10-49.
- APFO TRAFFIC STUDY PREPARED BY THE TRAFFIC GROUP, DATED SEPTEMBER 2005 WAS APPROVED UNDER F-10-49.
- TO THE BEST OF THE OWNERS KNOWLEDGE, THERE ARE NO BURIAL/CEMETERY LOCATIONS ON SITE.
- A NOISE STUDY WAS PERFORMED BY ROBERT H. VOGEL ENGINEERING DATED JULY 2009 AND APPROVED UNDER F-10-49. NOISE MITIGATION IS PROVIDED BY TWO 6' HIGH NOISE WALLS.
- THIS SITE IS LOCATED WITHIN THE BVI FOUR MILE HEIGHT RESTRICTION ZONE REQUIRING APPROVAL FROM THE MARYLAND AVIATION ADMINISTRATION FOR NEW HOUSE CONSTRUCTION AND FOR STORMWATER MANAGEMENT DESIGN. AN APPROVAL LETTER FROM THE MAA HAS BEEN PROVIDED UNDER THIS SITE PLAN.
- PERIMETER LANDSCAPING AND TRASH PAD SCREENING HAS BEEN PROVIDED IN ACCORDANCE WITH THE HOWARD COUNTY LANDSCAPE MANUAL. THE SURETY WAS POSTED AS PART OF THE DEVELOPER'S AGREEMENT UNDER F-10-49.
- THERE ARE NO SLOPES IN EXCESS OF 25% ON THE PROPERTY.
- THE GEOTECHNICAL REPORT FOR THIS PROJECT WAS PREPARED BY HILLES-CARNES, DATED APRIL 2009.
- STREET TREES HAVE BEEN PROVIDED IN ACCORDANCE WITH SECTION 16.124(e)(1) OF THE SUBDIVISION REGULATIONS AND THE LANDSCAPE MANUAL APPROVED UNDER F-10-49.
- WP-10-081 A WAIVER PETITION WAS APPROVED JANUARY 21, 2010 TO WAIVE SECTION 16.120(b)(5)(g) REQUIRING NOISE WALLS TO BE LOCATED ON AN OPEN SPACE LOT AND MAINTAINED BY A HOMEOWNERS ASSOCIATION WHEN OPEN SPACE IS BEING CREATED WITHIN A SUBDIVISION. SUBJECT TO THE FOLLOWING:
 A MAINTENANCE AGREEMENT FOR THE NOISE WALL WHICH WILL BE CONSTRUCTED WITHIN THE 20' PRIVATE NOISE WALL MAINTENANCE DRAINAGE AND UTILITY EASEMENT LOCATED ALONG THE WESTERN PROPERTY BOUNDARY OF THIS SITE (LOTS 1 TO 4) SHALL BE RECORDED IN THE LAND RECORDS OF HOWARD COUNTY, MD SIMULTANEOUSLY WITH THE FINAL PLAT, F-10-049/ EAGLE VALLEY.
- THE HOMEOWNERS ASSOCIATION DECLARATION OF COVENANTS HAS BEEN RECORDED AMONG THE LAND RECORDS OF HOWARD COUNTY, MARYLAND AS L12504 F. 341 ON 4/28/2010.
- USE-IN-COMMON MAINTENANCE AGREEMENT HAS BEEN RECORDED WITH AS L12504 F.335 IN THE LAND RECORDS OFFICE OF HOWARD COUNTY, MD.
- MAINTENANCE AGREEMENT FOR NOISE WALL LOCATED ON LOTS 1 TO 4 HAS BEEN RECORDED AS L. 12470 F. 011 IN THE LAND RECORDS OFFICE OF HOWARD COUNTY, MD.
- THE NOISE WALL AND FENCING LOCATED ON OPEN SPACE LOT NO. 10 SHALL BE MAINTAINED BY THE HOMEOWNERS ASSOCIATION IN ACCORDANCE WITH THE HOA DOCUMENTS RECORDED AS L. 12504 F. 341 ON 4/28/2010.
- ALL WATER METERS ARE INSIDE.

SITE DEVELOPMENT PLAN

EAGLE VALLEY

LOTS 1-9

HOWARD COUNTY, MARYLAND

LEGEND

- EXISTING CONTOUR
- PROPOSED CONTOUR
- EXISTING SPOT ELEVATION
- PROPOSED SPOT ELEVATION
- DIRECTION OF FLOW
- EXISTING TREES TO REMAIN
- LIGHT POLES
- SOIL TYPE
- CONCRETE
- PRIVATE SWM, DRAINAGE AND UTILITY EASEMENT
- PROP. FOREST CONSERVATION EASEMENT (AFFORESTATION)
- PROP. FOREST CONSERVATION EASEMENT



VICINITY MAP
SCALE: 1"=2000'
ADC MAP COORDINATE: 4937 C10

BENCHMARKS

HOWARD COUNTY BENCHMARK 380A (CONCRETE MONUMENT)
N 556796.292 E 1390721.486 ELEV. 126.075
HOWARD COUNTY BENCHMARK 3805 (CONCRETE MONUMENT)
N 558378.575 E 1386524.158 ELEV. 192.964

COORDINATE TABLE

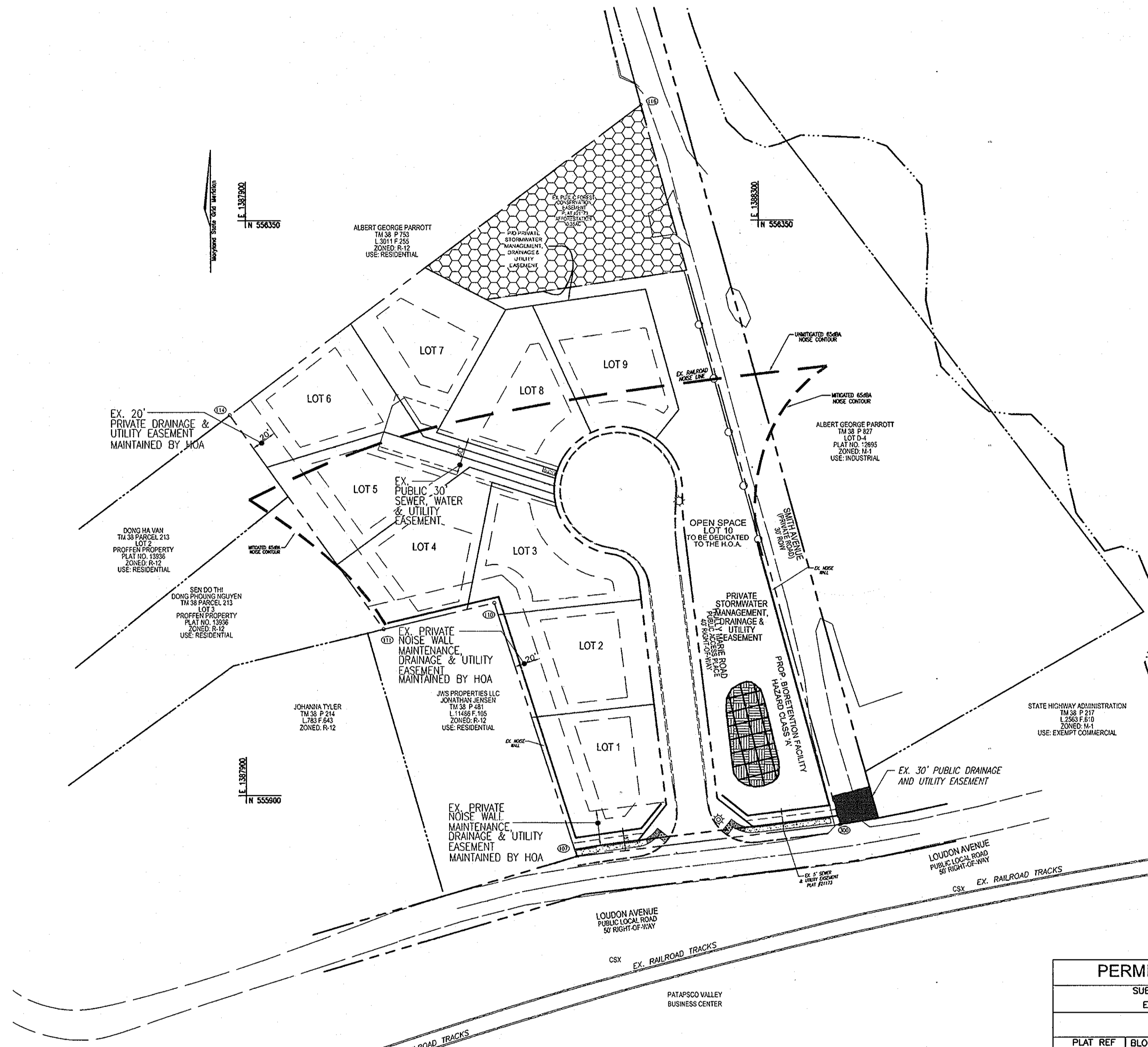
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111	556030.15750	1388007.11370
114	556197.76046	1387887.45207
116	556439.99824	1388208.45019
300	555876.98880	1388362.76996

MINIMUM LOT SIZE CHART

LOT NO.	GROSS AREA	PIPESTEM AREA	MINIMUM LOT SIZE
4	8,953 SF	302 SF	8,651 SF
5	8,824 SF	409 SF	8,415 SF
6	9,136 SF	651 SF	8,485 SF
7	8,993 SF	593 SF	8,400 SF

SHEET INDEX

SHEET NO.	TITLE
1	COVER SHEET
2	LAYOUT AND LANDSCAPING PLAN
3	GRADING, SEDIMENT & EROSION CONTROL PLAN
4	SEDIMENT & EROSION CONTROL DETAILS
5	ASDC/MMA NOTES & DETAILS



LOCATION MAP
SCALE: 1"=60'

SITE DATA

LOCATION: TAX MAP 38, GRID 14, PARCEL 215
 EXISTING ZONING: R-12
 GROSS AREA OF PARCEL: 3.22 AC.
 DEED REFERENCE: L9363/F.299
 DPZ REFERENCE: P-10-02, S-06-05, WP-10-81, F-10-49.
 AREA OF PLAN SUBMISSION: 78,712 SF / 1,807 AC.
 AREA OF PROPOSED RIGHT-OF-WAY (HOLLY MARIE ROAD): 17,968 SF
 AREA OF PROPOSED RIGHT-OF-WAY DEDICATION (LOUDON AVENUE): 1,374 SF
 AREA OF 100-YR FLOODPLAIN: N/A
 AREA OF STEEP SLOPES: N/A
 NET AREA OF PROJECT: 3.22 AC.
 NUMBER OF PROPOSED RESIDENTIAL LOTS: 9
 AREA OF PROPOSED RESIDENTIAL LOTS: 1.81 AC.
 AREA OF SMALLEST BUILDABLE LOT PROPOSED: 8,400 SF - LOT 7
 NUMBER OF PROPOSED OPEN SPACE LOTS: 1 (LOT 10)
 AREA OF OPEN SPACE REQUIRED: 0.97 AC. (3.22 x 30%)
 AREA OF CREDITED OPEN SPACE PROVIDED: 0.97 AC. OR 30% (42,530 SF)
 AREA OF NON-CREDITED OPEN SPACE: 0.00 AC.
 TOTAL AREA OF OPEN SPACE: 0.97 AC.

PERMIT INFORMATION CHART

SUBDIVISION NAME		SECTION/ AREA
EAGLE VALLEY		N/A
LOT/ PARCEL		
LOTS 1-9		
PLAT REF	BLOCK NO	ZONE TAX MAP ELECT DIST CENSUS TR
21173	14	R-12 38 1ST 6012.02

ADDRESS CHART

LOT NO	STREET ADDRESS
1	6403 HOLLY MARIE ROAD
2	6407 HOLLY MARIE ROAD
3	6411 HOLLY MARIE ROAD
4	6415 HOLLY MARIE ROAD
5	6419 HOLLY MARIE ROAD
6	6423 HOLLY MARIE ROAD
7	6427 HOLLY MARIE ROAD
8	6431 HOLLY MARIE ROAD
9	6435 HOLLY MARIE ROAD

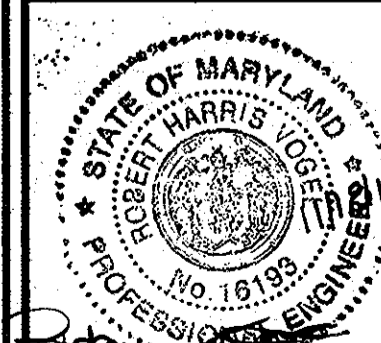
NO.	REVISION	DATE

SITE DEVELOPMENT PLAN

COVER SHEET
EAGLE VALLEY
LOTS 1-9

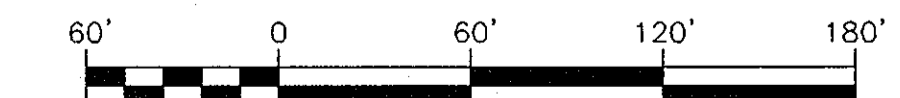
TAX MAP 38 BLOCK 14 PARCEL 215
1ST ELECTION DISTRICT HOWARD COUNTY, MARYLAND

ROBERT H. VOGEL ENGINEERING, INC.
 ENGINEERS • SURVEYORS • PLANNERS
 8407 MAIN STREET TEL: 410.461.7666
 ELLICOTT CITY, MD 21043 FAX: 410.461.8961



DESIGN BY: JCO
 DRAWN BY: HS
 CHECKED BY: RHW
 DATE: OCTOBER, 2010
 SCALE: 1"=60'
 W.O. NO.: 05-61

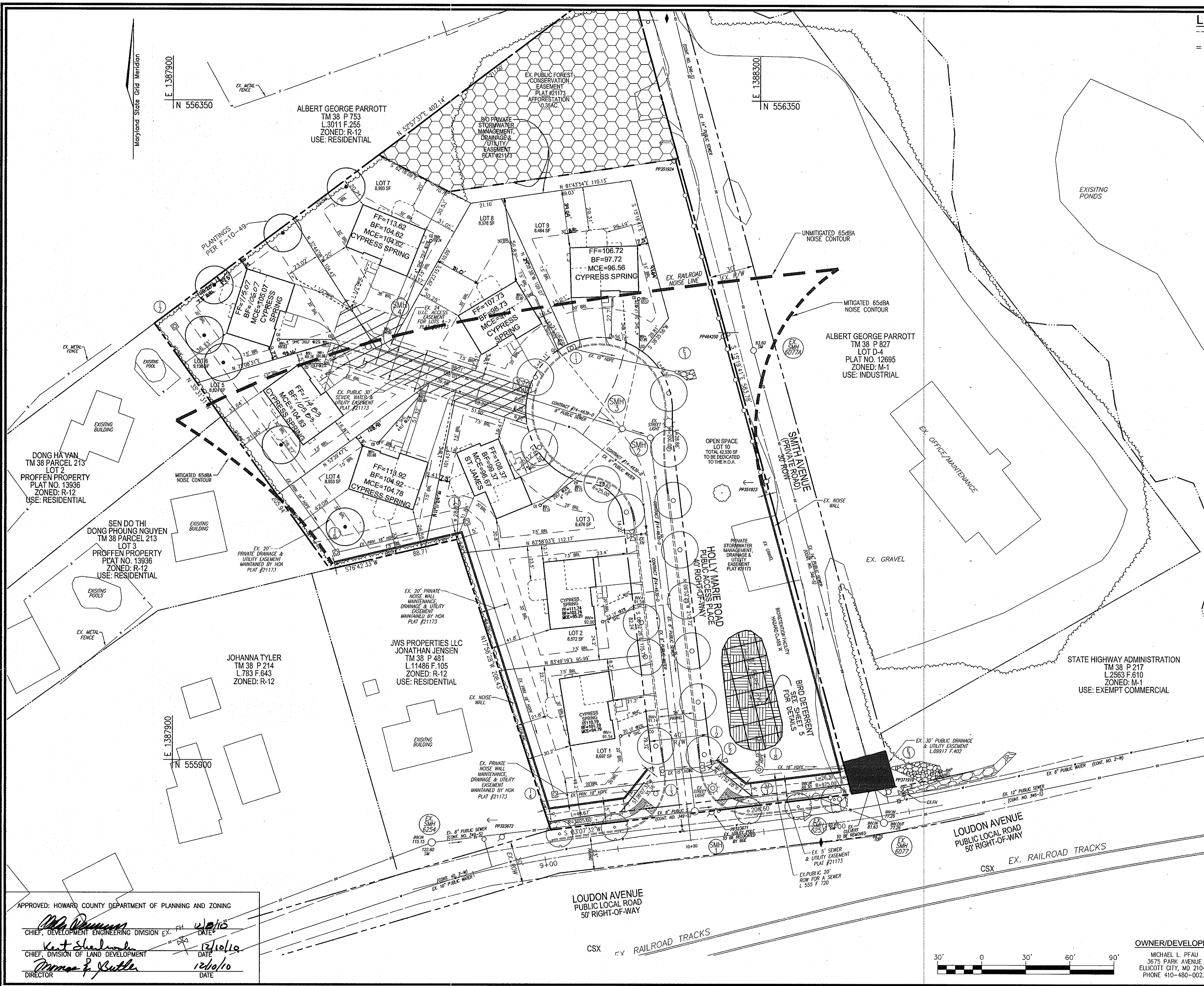
APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
 [Signature] 12/10/10
 CHIEF, DEVELOPMENT ENGINEERING DIVISION
 [Signature] 12/10/10
 CHIEF, DIVISION OF LAND DEVELOPMENT
 [Signature] 12/10/10
 DIRECTOR



OWNER/DEVELOPER
 MICHAEL L. PFAU
 3675 PARK AVENUE
 ELLICOTT CITY, MD 21043
 PHONE 410-480-0023

LEGEND:

	EXISTING CONTOUR		EXISTING WATER LINE
	EXISTING SPOT ELEVATION		EXISTING STORM DRAIN
	EXISTING CURB AND GUTTER		EXISTING TREELINE
	EXISTING UTILITY POLE		EXISTING FENCE
	EXISTING LIGHT POLE		PROPERTY LINE
	EXISTING MAILBOX		RIGHT-OF-WAY LINE
	EXISTING SIGN		SOILS BOUNDARY
	EXISTING SANITARY MANHOLE		EXISTING SIDEWALK
	EXISTING SANITARY LINE		EXISTING STREET TREES
	EXISTING CLEANOUT		
	EXISTING FIRE HYDRANT		



NO.	REVISION	DATE
1	REVISE HOUSE ELEVATIONS LOT 5 & 6	9/20/11

**SITE DEVELOPMENT PLAN
LAYOUT AND LANDSCAPING PLAN
EAGLE VALLEY
LOTS 1-9**

TAX MAP 38 BLOCK 14 PARCEL 215
1ST ELECTION DISTRICT HOWARD COUNTY, MARYLAND

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ENGINEERING, INC.**
ENGINEERS • SURVEYORS • PLANNERS
8407 MAIN STREET ELLICOTT CITY, MD 21043
PHONE 410-481-2666 FAX 410-481-8961

PROFESSIONAL CERTIFICATE
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. 16193, EXPIRATION DATE: 09-27-2012

DESIGN BY: JCO
DRAWN BY: HS
CHECKED BY: RHW
DATE: OCTOBER, 2010
SCALE: 1"=30'
W.O. NO.: 05-61

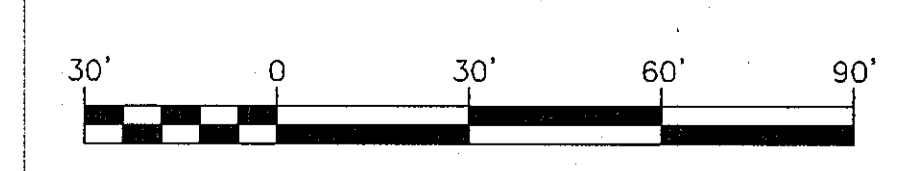
2 SHEET OF 5

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

Howard County Department of Planning and Zoning
CHIEF, DEVELOPMENT ENGINEERING DIVISION EX. DATE: 12/15

Kent Sheehan
CHIEF, DIVISION OF LAND DEVELOPMENT DATE: 12/10/10

Director
DIRECTOR DATE: 12/10/10



OWNER/DEVELOPER
MICHAEL L. PFAU
3675 PARK AVENUE
ELLICOTT CITY, MD 21043
PHONE 410-480-0023



LEGEND:

	EXISTING CONTOUR
	PROPOSED CONTOUR
	EXISTING SPOT ELEVATION
	PROPOSED SPOT ELEVATION
	EXISTING CURB AND GUTTER
	EXISTING UTILITY POLE
	EXISTING LIGHT POLE
	EXISTING MAILBOX
	EXISTING SIGN
	EXISTING SANITARY MANHOLE
	EXISTING SANITARY LINE
	EXISTING CLEANOUT
	EXISTING FIRE HYDRANT
	EXISTING WATER LINE
	EXISTING STORM DRAIN
	EXISTING TREE LINE
	EXISTING FENCE
	PROPERTY LINE
	RIGHT-OF-WAY LINE
	SOILS BOUNDARY
	PROPOSED SIDEWALK
	SILT FENCE
	LIMIT OF DISTURBANCE
	STABILIZED CONSTRUCTION ENTRANCE
	EROSION CONTROL MATTING
	EXISTING STREET TREES
	PROPOSED RAINGARDENS

SOILS LEGEND

SYMBOL	NAME / DESCRIPTION	GROUP
RuC	RUSSETT AND BELTSVILLE SOILS, 5-10 PERCENT SLOPES	C
UdD	URBAN LAND-UDORMENTS COMPLEX, 0-15 PERCENT SLOPES	D

NO.	REVISION	DATE
1	REVISE HOUSE ELEVATION LOTS 5 & 6	9/20/11

**SITE DEVELOPMENT PLAN
GRADING, SEDIMENT & EROSION
CONTROL PLAN
EAGLE VALLEY
LOTS 1-9**

TAX MAP 38 BLOCK 14 PARCEL 215
1ST ELECTION DISTRICT HOWARD COUNTY, MARYLAND

**ROBERT H. VOGEL
ENGINEERING, INC.**
ENGINEERS • SURVEYORS • PLANNERS

8407 MAIN STREET TEL: 410.461.7666
ELICOTT CITY, MD 21043 FAX: 410.461.8961

PROFESSIONAL CERTIFICATE

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DRAWN BY: HS
CHECKED BY: RHY
DATE: OCTOBER, 2010
SCALE: 1"=30'
W.O. NO.: 05-61

3 SHEET OF 5

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

John R. Roberts 12/16/10
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

Kate Sheehan 12/16/10
CHIEF, DIVISION OF LAND DEVELOPMENT DATE

Thomas P. Butler 12/16/10
DIRECTOR DATE

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

John R. Roberts 11/18/10
HOWARD S.C.D. DATE

BY THE DEVELOPER:

I HEREBY 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 INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT.

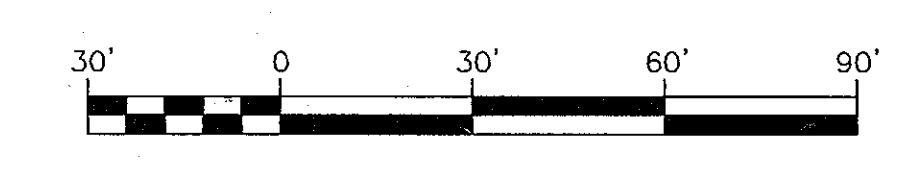
Michael P. Faw 11/18/10
SIGNATURE OF DEVELOPER DATE

BY THE ENGINEER:

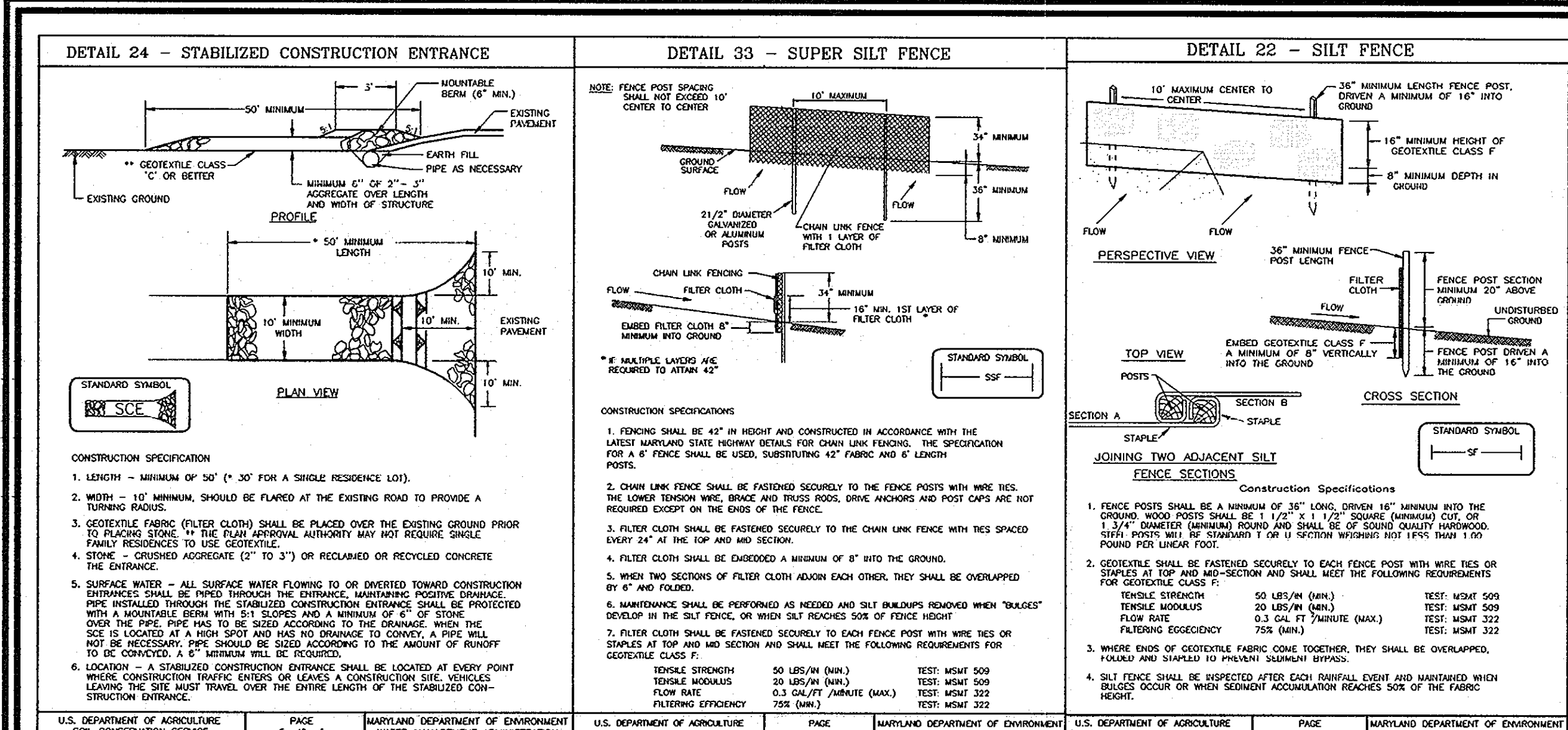
I HEREBY CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS, AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

Michael P. Faw 11/18/10
SIGNATURE OF ENGINEER DATE

NOTE: STOCKPILING WILL BE PERMITTED ON EACH LOT ONLY.



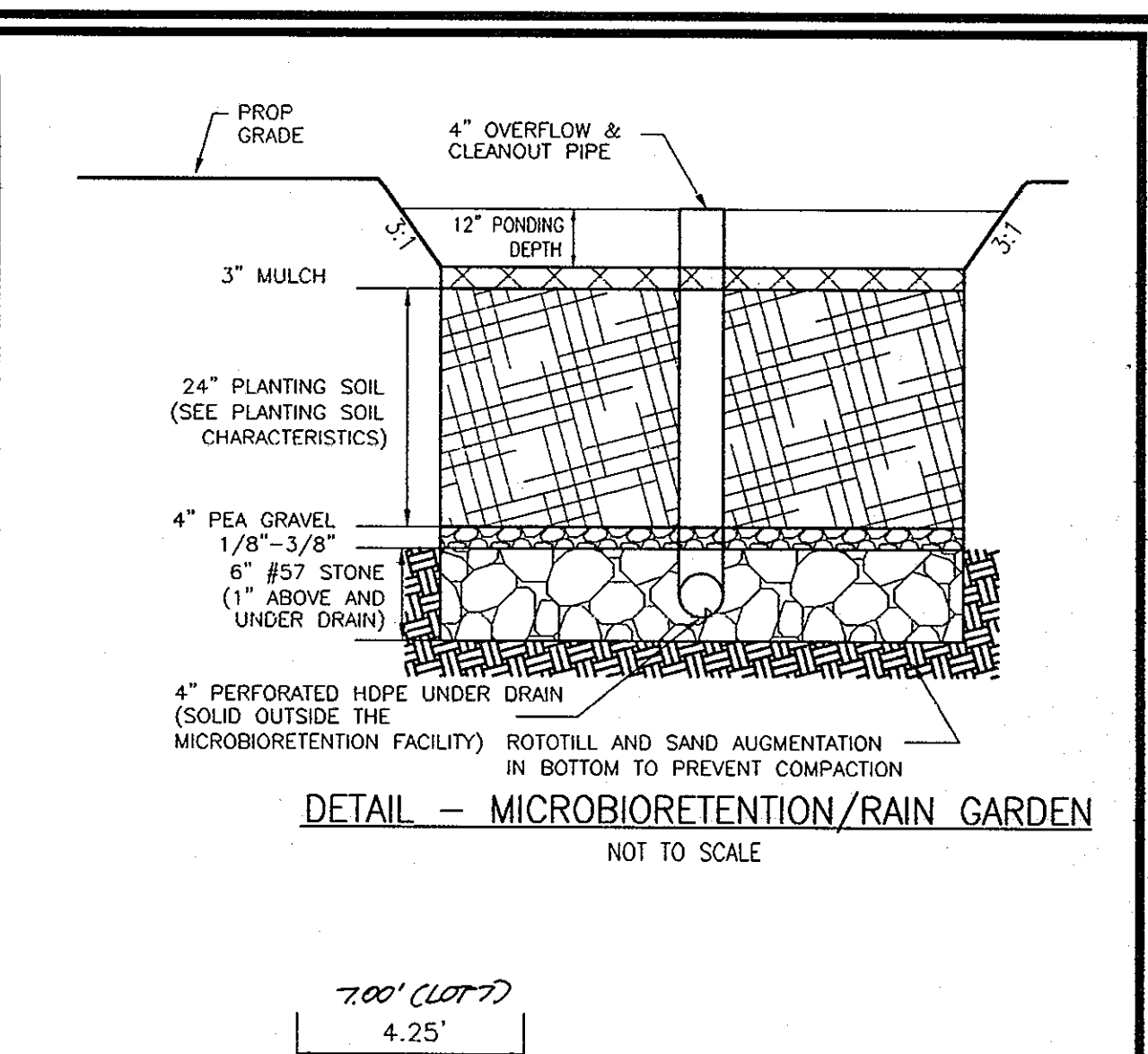
OWNER/DEVELOPER
MICHAEL L. PFAU
3675 PARK AVENUE
ELICOTT CITY, MD 21043
PHONE 410-480-0023



LOT	ROOFTOP DISCONNECT (RD)	RAIN GARDENS
1	0 SF	(2) 42.5 SF
2	0 SF	(2) 42.5 SF
3	690 SF	0 SF
4	0 SF	(2) 42.5 SF
5	690 SF	0 SF
6	0 SF	(1) 42.5 SF
7	0 SF	(1) 42.5 SF
8	0 SF	(2) 42.5 SF
9	280 SF	0 SF
TOTAL	1,660 SF	(10) 476 SF

* SURFACE AREA
TOTAL VOLUME 1' DEEP = 1099 CF

MATERIAL	SPECIFICATION	SIZE	NOTES
PLANTINGS	N/A	N/A	PLANTINGS ARE SITE-SPECIFIC
PLANTING SOIL (2.5' TO 4' DEEP)	SAND 35-60% SILT 30-50% CLAY 0-5%	N/A	USDA SOIL TYPES LOAMY SAND, SANDY LOAM OR LOAM
MULCH	SHRUBBED HARDWOOD		ADD 6 MONTHS, MINIMUM
PEA GRAVEL (UNDER DRAIN AND CURTAIN DRAIN)	PEA GRAVEL: ASTM-D-418 ORNAMENTAL STONE: WASHED COBBLES	PEA GRAVEL NO. 6 STONE: 2" TO 5"	
GEOTEXTILE	CLASS "C" - APPARENT OPENING SIZE (ASTM-D-4753), ONE TENSILE STRENGTH (ASTM-D-4632), PUNCTURE RESISTANCE (ASTM-D-4633)	N/A	FOR USE AS NECESSARY BENEATH UNDERDRAINS ONLY
UNDERDRAIN GRAVEL	ASTM-D-418	0.375" TO 0.75"	
UNDERDRAIN PIPING	7.75" PIPE PS 28 OOR ASTM-D-278	4" TO 6" RIGID SCHEDULE 40 PVC OR 304SS	3/8" HOLES @ 8" O.C., 4 HOLES PER ROW MIN. OF 3" OF COBBLES OVER PIPES; NOT NECESSARY UNDERDRAIN PIPES
POURED IN PLACE CONCRETE (IF REQUIRED)	USHA MIX NO. 3, 6-3500 PSI @ 28 DAYS, NORMAL WEIGHT, AIR-ENHANCED, RAINFORTHING TO MEET ASTM-415-10	N/A	ON-SITE TESTING OF POURED-IN-PLACE CONCRETE REQUIRED: 28 DAY STRENGTH AND SLUMP TEST; ALL CONCRETE DESIGN (CAST-IN-PLACE OR PRE-CAST) NOT BEING PREVIOUSLY APPROVED STATE OR LOCAL STANDARDS REQUIRES DESIGN DRAWINGS SEALED AND APPROVED BY A PROFESSIONAL STRUCTURAL ENGINEER LICENSED IN THE STATE OF MARYLAND - DESIGN TO INCLUDE MEETING ACI CODE 308.9R-03; VERTICAL LOADING (H-10 OR H-20), ALLOWABLE HORIZONTAL LOADING (BASED ON SOIL PRESSURES), AND ANALYSIS OF POTENTIAL CRACKING
SAND (1' DEEP)	ASTM-D-6 OR ASTM-C-33	0.075" TO 0.04"	SAND SUBSTITUTIONS SUCH AS DUNESAND AND GRANSTONE #10 ARE NOT ACCEPTABLE. NO CALCIUM CHLORIDE OR ORGANIC SAND STABILIZERS ARE ACCEPTABLE. NO "ROCK DUST" CAN BE USED FOR SAND



U.S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

PERMANENT SEEDING NOTES
APPLY TO GRADED OR CLEARED AREAS NOT SUBJECT TO IMMEDIATE FURTHER DISTURBANCE WHERE A PERMANENT LONG-LIVED VEGETATIVE COVER IS NEEDED.
SEEDBED PREPARATION: LOOSEN UPPER THREE INCHES OF SOIL BY RAKING, DISKING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING, IF NOT PREVIOUSLY LOOSENED.
SOIL AMENDMENTS: IN LIEU OF SOIL TEST RECOMMENDATIONS, USE ONE OF THE FOLLOWING SCHEDULES:
1. PREFERRED: APPLY 2 TONS/ACRE DOLOMITIC LIMESTONE (92 IBS/1000 SQ. FT.) AND 600 IBS/ACRE 10-10-10 FERTILIZER (14 IBS/1000 SQ. FT.) BEFORE SEEDING. HARROW OR DISK INTO UPPER THREE INCHES OF SOIL. AT TIME OF SEEDING, APPLY 400 IBS/ACRE 30-0-0 UREAFORM FERTILIZER (9 IBS/1000 SQ. FT.)
2. ACCEPTABLE: APPLY 2 TONS/ACRE DOLOMITIC LIMESTONE (92 IBS/1000 SQ. FT.) AND 1000 IBS/ACRE 10-10-10 FERTILIZER (23 IBS/1000 SQ. FT.) BEFORE SEEDING. HARROW OR DISK INTO UPPER THREE INCHES OF SOIL.
SEEDING: FOR PERIODS MARCH 1 THRU APRIL 30, AND AUGUST 1 THRU OCTOBER 15, SEED WITH 60 IBS/ACRE (14 IBS/1000 SQ. FT.) OF KENTUCKY 31 TALL FESCUE. FOR THE PERIOD MAY 1 THRU JULY 31, SEED WITH 60 IBS/ACRE KENTUCKY 31 TALL FESCUE PER ACRE AND 2 IBS/ACRE (0.5 IBS/1000 SQ. FT.) OF WEEPING LOVEGRASS. DURING THE PERIOD OF OCTOBER 16 THRU FEBRUARY 28, PROTECT SITE BY:
OPTION 1: TWO 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 30 TALL FESCUE AND MULCH WITH 2 TONS/ACRE WELL ANCHORED STRAW.
MULCHING: APPLY 1-1/2 TO 2 TONS/ACRE (70 TO 90 IBS/1000 SQ. FT.) OF UNWETTED SMALL GRASS 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 SLOPE 8 FEET OR HIGHER, USE 348 GALLONS PER ACRE (8 GAL/1000 SQ. FT.) FOR ANCHORING.
MAINTENANCE: INSPECT ALL SEEDING AREAS AND MAKE NEEDED REPAIRS, REPLACEMENTS AND RESEEDINGS.
TEMPORARY SEEDING NOTES
APPLY TO GRADED OR CLEARED AREAS LIKELY TO BE RE-DISTURBED WHERE A SHORT-TERM VEGETATIVE COVER IS NEEDED.
SEEDBED PREPARATION: LOOSEN UPPER THREE INCHES OF SOIL BY RAKING, DISKING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING, IF NOT PREVIOUSLY LOOSENED.
SOIL AMENDMENTS: APPLY 600 IBS/ACRE 10-10-10 FERTILIZER (14 IBS/1000 SQ. FT.).
SEEDING: FOR PERIODS MARCH 1 THRU APRIL 30 AND FROM AUGUST 15 THRU OCTOBER 15, SEED WITH 2-1/2 BUSHEL PER ACRE OF ANNUAL RYE (3.2 IBS/1000 SQ. FT.). FOR THE PERIOD MAY 1 - AUGUST 14, SEED WITH 3 IBS/ACRE OF WEEPING LOVEGRASS (0.7 IBS/1000 SQ. FT.) FOR THE PERIOD NOVEMBER 16 - FEBRUARY 28, PROTECT SITE BY APPLYING 2 TONS/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/ACRE (70 TO 90 IBS/1000 SQ. FT.) OF UNWETTED WEED-FREE, SMALL GRASS 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 SLOPE 8 FT. OR HIGHER, USE 348 GAL PER ACRE (8 GAL/1000 SQ. FT.) FOR ANCHORING.
REFER TO THE 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR ADDITIONAL RATES METHODS NOT COVERED.

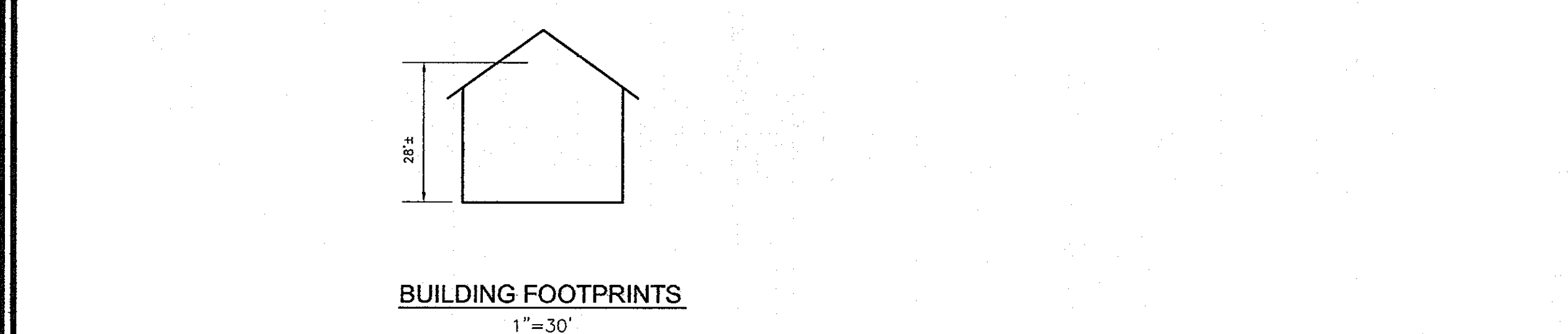
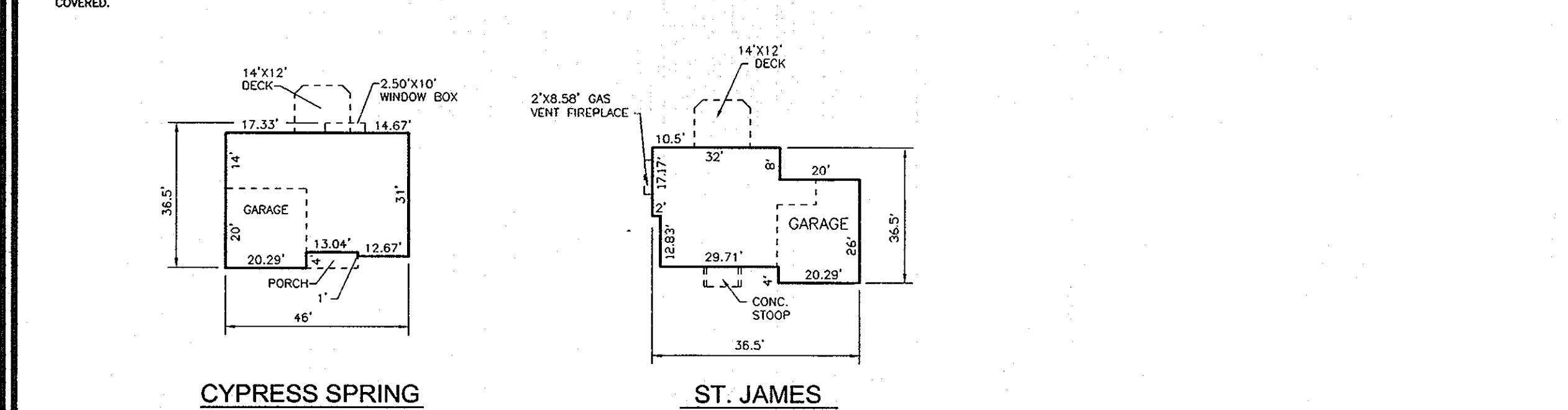
21.0 STANDARDS AND SPECIFICATIONS FOR TOPSOIL
DEFINITION
PLACEMENT OF TOPSOIL OVER A PREPARED SUBSOIL PRIOR TO ESTABLISHMENT OF PERMANENT VEGETATION.
PURPOSE
TO PROVIDE A SUITABLE SOIL MEDIUM FOR VEGETATIVE GROWTH. SOILS OF CONCERN HAVE LOW MOISTURE CONTENT, LOW NUTRIENT LEVELS, LOW PH, MATERIALS TOXIC TO PLANTS, AND/OR UNACCEPTABLE SOIL GRADATION.
CONSTRUCTION WHEREAS APPLICABLE
I. THIS SPECIFICATION IS LIMITED TO AREAS HAVING 2:1 OR FLATTER SLOPES.
A. THE TEXTURE OF THE EXPOSED SUBSOIL/PARENT MATERIAL IS NOT TO BE HEAVIER THAN SANDY SILT.
B. THE SOIL MATERIAL IS TO BE SO SHALLOW THAT THE ROOTING ZONE IS NOT KEPT EXPOSED TO SUPPORT PLANTS OR FURNISH CONTINUING SUPPLIES OF MOISTURE AND PLANT NUTRIENTS.
C. THE EXPOSED SUBSOIL IS TO BE VEGETATED WITH NATIVE PLANTS TOXIC TO PLANT GROWTH.
D. THE PURPOSE OF THIS STANDARD AND SPECIFICATIONS IS NOT TO BE TO PROTECT 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 SET FORTH IN THESE SPECIFICATIONS. TYPICALLY, THE DEPTH OF TOPSOIL TO BE SALVAGED FOR A GIVEN SOIL TYPE CAN BE FOUND IN THE REPRESENTATIVE SOIL PROFILE SECTION IN THE SOIL SURVEY PUBLISHED BY USDA-SCS IN COOPERATION WITH MARYLAND AGRICULTURAL EXPERIMENTAL STATION.
II. TOPSOIL SPECIFICATIONS - SOIL TO BE USED AS TOPSOIL OR SUBSOIL:
A. TOPSOIL SHALL BE A LOAM, SANDY LOAM, CLAY LOAM, SILT LOAM, SANDY CLAY LOAM, LOAMY SAND, OTHER SOILS MAY BE USED IF RECOMMENDED BY AN AGRICULTURIST OR A SOIL SCIENTIST AND APPROVED BY THE APPROPRIATE APPROVAL AUTHORITY. REGARDLESS, TOPSOIL SHALL NOT BE A MIXTURE OF CONTRASTING TEXTURES, GRADES, COLORES AND SHALL CONTAIN LESS THAN 5% VOLUME OF CONCRETES, STONES, SLAG, COALS, FRAGMENTS, TRAILS, ROOTS, OR OTHER MATERIALS LARGER THAN 1/4" IN DIAMETER.
B. TOPSOIL MUST BE FREE OF PLANTS OR PLANT PARTS SUCH AS BERMUDA GRASS, QUICKGRASS, JOHNSONGRASS, NUTCRACK, POISON IVY, THISTLE, OR OTHERS AS SPECIFIED.
C. WHERE THE SUBSOIL IS EITHER HIGHLY ACIDIC OR COMPOSED OF HEAVY QUARTZ, GROUND LIMESTONE SHALL BE SPREAD AT THE RATE OF 4-8 TONS/ACRE (200-400 POUNDS PER 1,000 SQUARE FEET) PRIOR TO THE PLACEMENT OF TOPSOIL. LIME SHALL BE DISTRIBUTED UNIFORMLY OVER DESIGNATED AREAS AND WORKED INTO THE SOIL IN CONJUNCTION WITH TILLAGE OPERATIONS AS DESCRIBED IN THE FOLLOWING PROCEDURES:
III. FOR SITES HAVING DISTURBED AREAS UNDER 5 ACRES:
A. PLACE TOPSOIL (IF REQUIRED) AND APPLY SOIL AMENDMENTS AS SPECIFIED IN 20.0 VEGETATIVE STABILIZATION - SECTION I - VEGETATIVE STABILIZATION METHODS AND MATERIALS.
NOTE: TOPSOIL SUBSTITUTES OR AMENDMENTS, AS RECOMMENDED BY A QUALIFIED AGRICULTURIST OR SOIL SCIENTIST AND BY THE APPROPRIATE APPROVAL AUTHORITY, MAY BE USED IN LIEU OF NATURAL TOPSOIL.
B. PLACE TOPSOIL (IF REQUIRED) AND APPLY SOIL AMENDMENTS AS SPECIFIED IN 20.0 VEGETATIVE STABILIZATION - SECTION I - VEGETATIVE STABILIZATION METHODS AND MATERIALS.
C. COMPOSTED SLUDGE SHALL BE APPLIED AT A RATE OF 1 TON/1,000 SQUARE FEET.
D. COMPOSTED SLUDGE SHALL BE AMENDED WITH A POTASSIUM FERTILIZER APPLIED AT THE RATE OF 4 LB/1,000 SQUARE FEET, AND 1/3 THE NORMAL LIME APPLICATION RATE.

CONSTRUCTION SPECIFICATIONS
1. FENCING SHALL BE 42" IN HEIGHT AND CONSTRUCTED IN ACCORDANCE WITH THE LATEST MARYLAND STATE HIGHWAY DETAILS FOR OPEN LINK FENCING. THE SPECIFICATION FOR A 4" FENCE SHALL BE USED, SUBSTITUTING 42" FABRIC AND 8" LENGTH POSTS.
2. OPEN LINK FENCE SHALL BE FASTENED SECURELY TO THE FENCE POSTS WITH WIRE TIES. THE CORNER TENSION WIRE BRACE AND BRACE RODS, OVER ARCHES AND POST CAPS ARE NOT REQUIRED EXCEPT ON THE ENDS OF THE FENCE.
3. FILTER CLOTH SHALL BE FASTENED SECURELY TO THE OPEN LINK FENCE WITH THIS SPACING EVERY 24" AT THE TOP AND MID SECTION.
4. FILTER CLOTH SHALL BE EXTENDED A MINIMUM OF 8" INTO THE GROUND.
5. WHEN TWO SECTIONS OF FILTER CLOTH ADJACENT EACH OTHER, THEY SHALL BE OVERLAPPED BY 6" AND PAVED.
6. MAINTENANCE SHALL BE PERFORMED AT NEEDS AND SIFT PANS/PODS SHOULD BE "BROAST" DEVELOP IN THE SIFT PANES OR WHICH NOT BEING REMOVED.
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 50 LBS/IN (MAX) TEST WHAT 509
TENSILE MODULUS 20 LBS/IN (MAX) TEST WHAT 509
TENSILE ELONGATION 20% (MAX) TEST WHAT 509
FILLING EFFICIENCY 75% (MIN) TEST WHAT 512
8. WHERE ENDS OF GEOTEXTILE FABRIC COME TOGETHER, THEY SHALL BE OVERLAPPED, TUCKED AND SHOWN TO REMAIN HARMLESS PERMANENT.
9. SIFT FENCE SHALL BE INSPECTED AFTER EACH RAINFALL EVENT AND MAINTAINED WHEN BRUSH OCCURS OR WHEN SEDIMENT ACCUMULATION REACHES SIZE OF THE FABRIC HEIGHT.
CONSTRUCTION SPECIFICATIONS
FENCE SECTIONS
1. FENCE POSTS SHALL BE A MINIMUM OF 3" DIA., 16" MINIMUM INTO THE GROUND AND SPACED AT 10' ON CENTER. ALL 1/2" SQUARE MINIMUM DIA. STEEL POSTS NOT BE STAPLED OR UP SECTION WIDENED FOR 1 FOOT FROM 10' POINT FOR LINKS.
2. GEOTEXTILE SHALL BE FASTENED SECURELY TO EACH FENCE POST WITH WIRE TIES OR STAPLES. FENCING SHALL MEET THE FOLLOWING REQUIREMENTS FOR GEOTEXTILE CLASS F:
TENSILE STRENGTH 50 LBS/IN (MAX) TEST WHAT 509
TENSILE MODULUS 20 LBS/IN (MAX) TEST WHAT 509
TENSILE ELONGATION 20% (MAX) TEST WHAT 509
FILLING EFFICIENCY 75% (MIN) TEST WHAT 512
3. WHERE ENDS OF GEOTEXTILE FABRIC COME TOGETHER, THEY SHALL BE OVERLAPPED, TUCKED AND SHOWN TO REMAIN HARMLESS PERMANENT.
4. SIFT FENCE SHALL BE INSPECTED AFTER EACH RAINFALL EVENT AND MAINTAINED WHEN BRUSH OCCURS OR WHEN SEDIMENT ACCUMULATION REACHES SIZE OF THE FABRIC HEIGHT.

SEDIMENT CONTROL NOTES
1. A MINIMUM OF 48 HOURS NOTICE MUST BE GIVEN TO THE HOWARD COUNTY DEPARTMENT OF INSPECTION, LICENSE AND PERMITS SEDIMENT CONTROL DIVISION PRIOR TO THE START OF ANY CONSTRUCTION (410-313-1855).
2. ALL VEGETATION 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 EROSION AND SEDIMENT CONTROL AND REVISIONS THEREOF.
3. FOLLOWING INITIAL SOIL DISTURBANCE OR RESTORATION, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN: (A) 7 CALENDAR DAYS FOR ALL PERIMETER SEDIMENT CONTROL STRUCTURES, DIKES, PERMETER SLOPES, AND ALL SLOPES GREATER THAN 3:1, (B) 14 DAYS AS TO ALL OTHER DISTURBED OR GRADED 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 7, HOWARD COUNTY DESIGN MANUAL, STORM DRAINAGE.
5. ALL DISTURBED AREAS MUST BE STABILIZED WITHIN THE TIME PERIOD SPECIFIED ABOVE IN ACCORDANCE WITH THE 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL. FOR PERMANENT SEEDING, SOIL TEMPORARY SEEDING, AND MULCHING (SEE G). TEMPORARY STABILIZATION WITH MULCH ALONE SHALL 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:
TOTAL AREA 3.92 ACRES
AREA DISTURBED 1.75 ACRES
AREA TO BE ROOFED OR PAVED DRIVEWAY-BUILDING 0.57 ACRES
AREA TO BE VEGETATIVELY STABILIZED 1.16 ACRES
TOTAL CUT 3500 CY
TOTAL FILL 3500 CY
WASTE/BORROW LOCATION N/A
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 CONTROLS MUST BE PROVIDED, IF DEEMED NECESSARY BY THE HOWARD COUNTY 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 THREE PIPE LENGTHS OR THAT WHICH SHALL BE BACK-FILLED AND STABILIZED WITHIN ONE WORKING DAY, WHICHEVER IS SHORTER.
* TO BE DETERMINED BY CONTRACTOR, WITH PRE-APPROVAL OF THE SEDIMENT CONTROL INSPECTOR WITH AN APPROVED AND ACTIVE GRADING PERMIT

SEQUENCE OF CONSTRUCTION
1. OBTAIN GRADING PERMIT.
2. NOTIFY HOWARD COUNTY BUREAU OF INSPECTIONS AND PERMITS (410-313-1880) AT LEAST 24 HOURS BEFORE STARTING ANY WORK.
3. INSTALL SEDIMENT CONTROL MEASURES AS SHOWN ON PLAN AND IN ACCORDANCE WITH DETAILS. MAINTAIN EXISTING SEDIMENT CONTROL MEASURES THROUGH F-10-49. (5 DAYS)
4. AFTER OBTAINING PERMISSION FROM THE SEDIMENT CONTROL INSPECTOR TO PROCEED, ROUGH GRADE SITE. (2 WEEKS)
5. CONSTRUCT HOUSES, THE FIRST FLOOR ELEVATIONS CANNOT BE MORE THAN 1" HIGHER OR 0.2' LOWER THAN THE ELEVATIONS SHOWN ON THIS PLAN. (6 MONTHS)
6. UPON STABILIZATION OF ALL DISTURBED AREAS AND WITH THE APPROVAL OF THE SEDIMENT CONTROL INSPECTOR, REMOVE ALL SEDIMENT CONTROL DEVICES. (2 DAYS)

NOTES
DURING GRADING AND AFTER EACH RAINFALL, THE CONTRACTOR SHALL INSPECT AND PROVIDE THE NECESSARY MAINTENANCE ON THE SEDIMENT AND EROSION CONTROL MEASURES SHOWN HEREON.
FOLLOWING INITIAL SOIL DISTURBANCE OR RESTORATION, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITH:
A. 7 CALENDAR DAYS FOR ALL PERIMETER SEDIMENT CONTROL STRUCTURES, DIKES, SWALES, DITCH PERIMETER SLOPES AND ALL SLOPES GREATER THAN 3:1.
B. 14 CALENDAR DAYS FOR ALL OTHER DISTURBED AREAS.



APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
CHIEF, DEVELOPMENT ENGINEERING DIVISION
DATE: 12/10/10
CHIEF, DIVISION OF LAND DEVELOPMENT
DATE: 12/10/10
DIRECTOR
DATE: 12/10/10

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
DATE: 12/10/10

BY THE DEVELOPER:
"I 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 INTEREST IN THE ENVIRONMENT. I HAVE RECEIVED AN 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."
DATE: 11/18/10

BY THE ENGINEER:
"I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE CONDITIONS AND THAT THIS PLAN WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT."
DATE: 11/18/10

REVISION TABLE:

NO.	REVISION	DATE
1	REVISE ON-LOT STORMWATER TREATMENT TABLE TO REFLECT ACTUAL SIZE OF RAIN GARDEN DEVICES	4/22/11

SITE DEVELOPMENT PLAN
SEDIMENT & EROSION CONTROL DETAILS
EAGLE VALLEY
LOTS 1-9

TAX MAP 38 BLOCK 14 1ST ELECTION DISTRICT
PARCEL 215 HOWARD COUNTY, MARYLAND

ROBERT H. VOGEL ENGINEERING, INC.
ENGINEERS • SURVEYORS • PLANNERS
8407 MAIN STREET
ELLCOTT CITY, MD 21043
TEL: 410.461.7666
FAX: 410.461.8961

DESIGN BY: JCO
DRAWN BY: HS
CHECKED BY: RHW
DATE: OCTOBER, 2010
SCALE: AS SHOWN
W.O. NO.: 05-61

OWNER/DEVELOPER
MICHAEL L. PFAU
3675 PARK AVENUE
ELLCOTT CITY, MD 21043
PHONE 410-480-0023

PROFESSIONAL CERTIFICATE
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. 16193, EXPIRATION DATE: 09-27-2012.

4 SHEET OF 5
SDP-10-100

