

SOILS DESCRIPTION

Md-(B) - MANOR LOAM, 15-25% SLOPES
 UcB-(B/C/D) - URBAN LAND-CHILLUM-BELTSVILLE COMPLEX, 0-5% SLOPES.

LEGEND

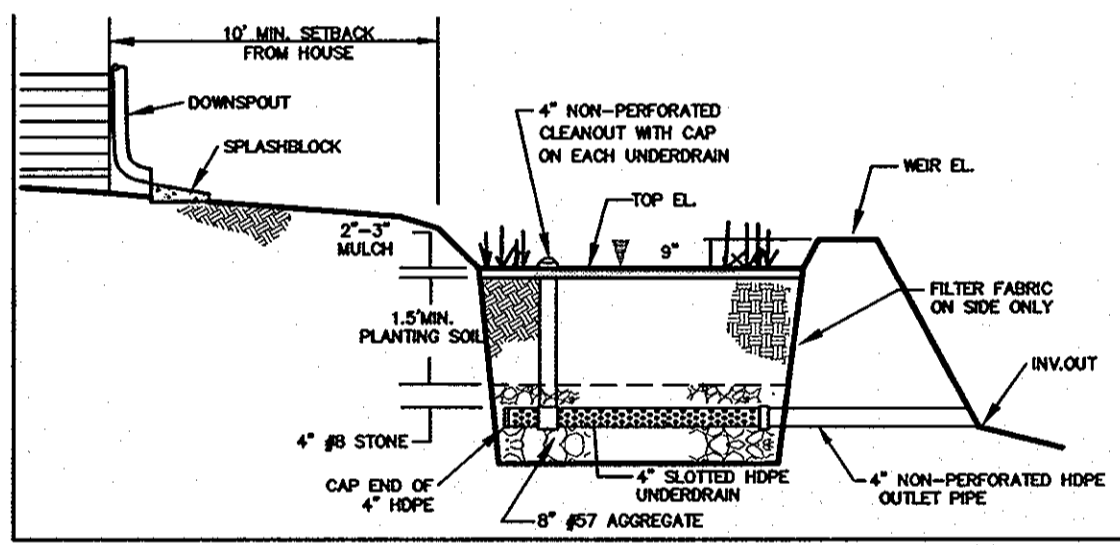
- EX.20' PRIVATE SEWER, WATER & UTILITY EASEMENT (F-03-217) PLAT NO. 18683 AND PRIVATE INGRESS AND EGRESS RIGHT-OF-WAY (L.1699.F.225).
- PROPOSED USE-IN-COMMON ACCESS EASEMENT FOR THE USE AND BENEFIT OF LOTS 1, 2
- PROPOSED DRIVEWAY
- LOD - LIMIT OF DISTURBANCE
- SSF - SUPER SILT FENCE
- SCE - STABILIZED CONSTRUCTION ENTRANCE

PLANT LIST

QUANTITY	SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE
4	○	ILEX GLABRA	INK BERRY	2' - 3' HT.
12	○	LOBELIA SIPHILITICA	GREAT BLUE LOBELIA	1 GAL. CONTAINER
8	○	ONOCLEA SENSIBILIS	SENSITIVE FERN	1 GAL. CONTAINER
6	○	ASTER NOVAE-ANGLIAE	NEW ENGLAND ASTER	1 GAL. CONTAINER

BIO-RETENTION SCHEDULE

NO.	SIZE	TOP EL.	WEIR EL.	INV. IN.	INV. OUT.
1	255 S.F.	397.25	398.00	394.75	394.50
2	255 S.F.	397.25	398.00	394.75	394.50



TYPICAL MICRO-BIORETENTION PROFILE

SWM PRACTICES SCHEDULE

AREA	PROPOSED PRACTICES	REQUIRED ESDv / TARGET ESDv	PROVIDED ESDv
LOT 2	TWO (2) M-6, MICRO BIO-RETENTION FACILITIES	503.2 CF	586.5 CF* * BASED ON 9" OF FLOODING

LANDSCAPE REQUIREMENT PLANTING SCHEDULE

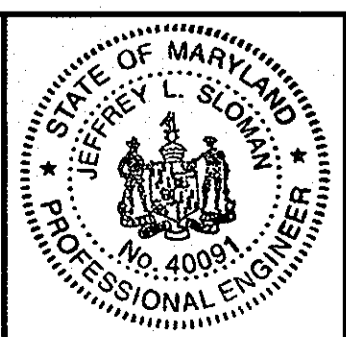
QUANTITY	SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE
5	○	ACER RUBRUM 'RED SUNSET' OR EQUIVALENT AS OUTLINED IN THE HOWARD COUNTY LANDSCAPE MANUAL.	RED SUNSET RED MAPLE	2 1/2" - 3" CAL.
2	○	QUERCUS RUBA 'RED OAK' OR EQUIVALENT AS OUTLINED IN THE HOWARD COUNTY LANDSCAPE MANUAL.	RED OAK	2 1/2" - 3" CAL.
3	○	PYRUS SARGENTII OR EQUIVALENT AS OUTLINED IN THE HOWARD COUNTY LANDSCAPE MANUAL.	SARGENT CHERRY	2 1/2" - 3" CAL.
TOTAL				10 TREES (10 SHADE TREES)

OWNER/DEVELOPER

JAMES & KATHLEEN CHEAK
 10695 HARDING ROAD
 LAUREL, MARYLAND 20723

APPROVED: DEPARTMENT OF PLANNING AND ZONING

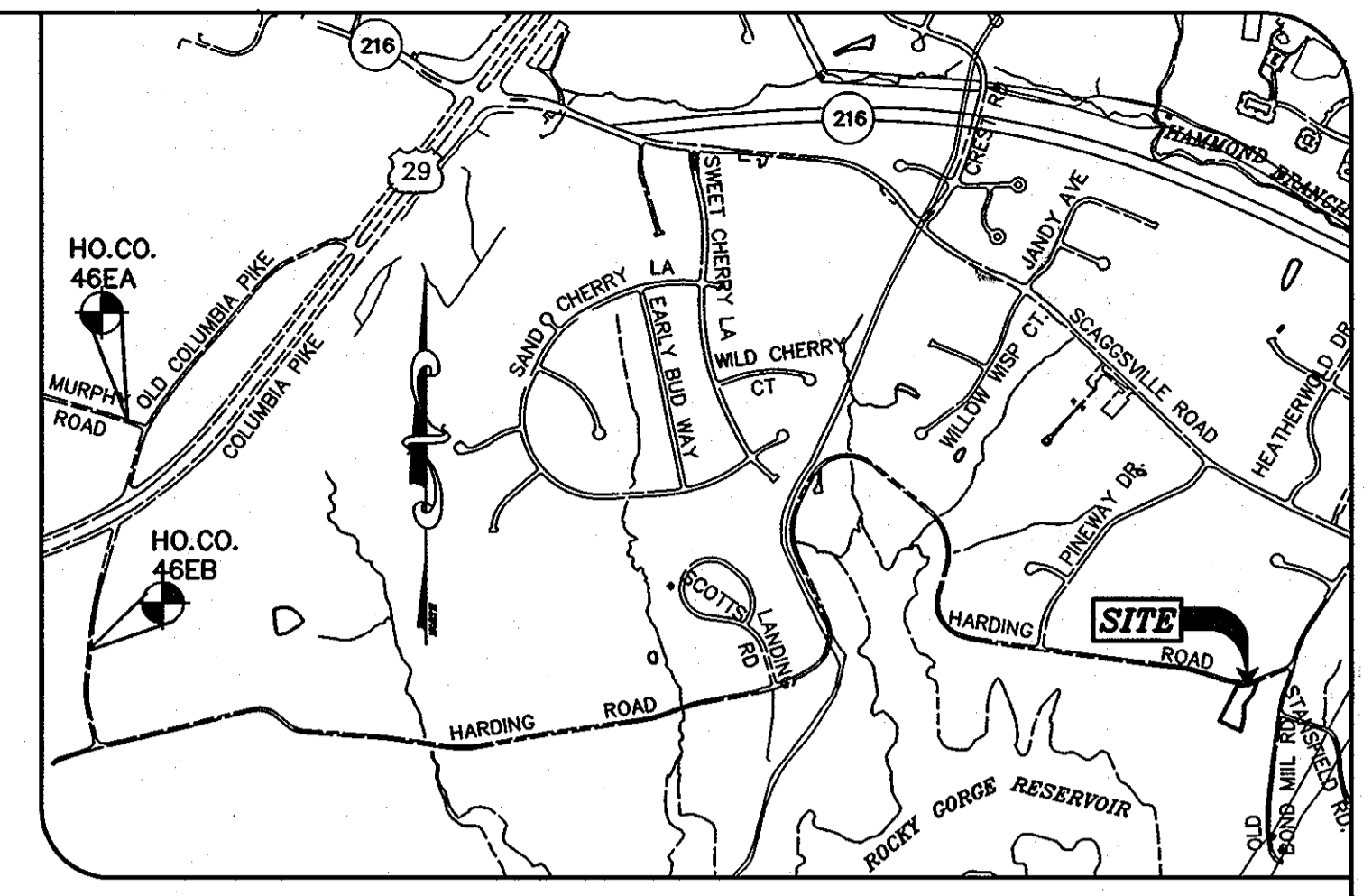
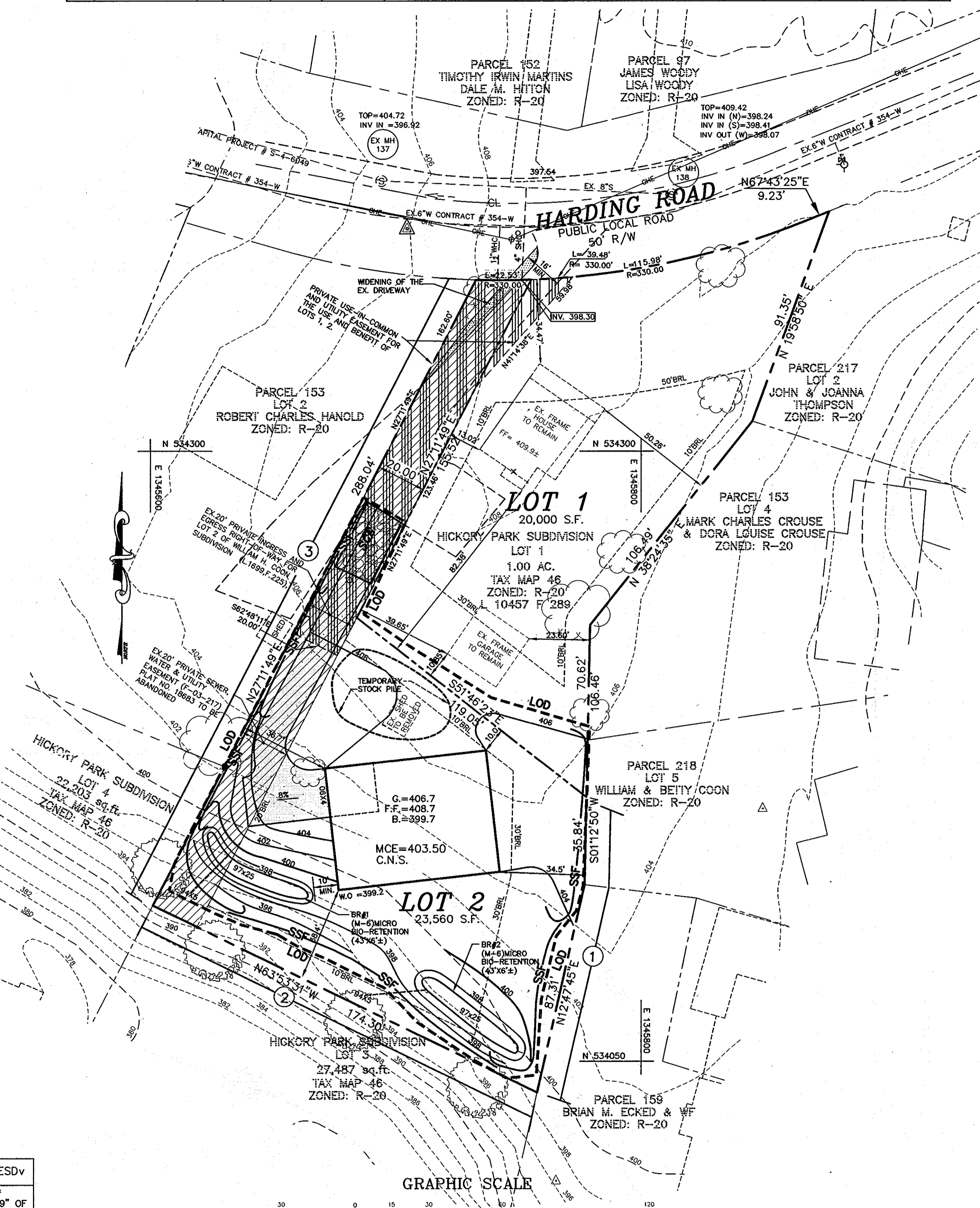
[Signature] 9/20/13
 CHIEF, DEVELOPMENT ENGINEERING DIVISION
[Signature] 9/23/13
 CHIEF, DIVISION OF LAND DEVELOPMENT



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. 40091, EXP DATE 2/13/15

[Signature] 6/8/13
 JEFFREY SLOAN P.E. DATE:

STORMWATER MANAGEMENT PRACTICES																
LOT #	ADDRESS	GREEN ROOF	PERMEABLE PAVEMENTS	REINFORCED TURF	DISCONNECTION OF ROOFTOP RUNOFF	DISCONNECTION OF NON-ROOFTOP RUNOFF	SHEETFLOW TO CONSERVATION AREAS	RAINWATER HARVESTING	SUBMERGED GRAVEL WETLANDS	LANDSCAPE INFILTRATION	INFILTRATION BERMS	DRY WELLS	MICRO-BIORETENTION	RAIN GARDENS	SWALES	ENHANCED FILTERS
2	HARDING ROAD	A-1 (Y/N)	A-2 (Y/N)	A-3 (Y/N)	N-1 (NUMBER)	N-2 (Y/N)	N-3 (Y/N)	M-1 (NUMBER)	M-2 (NUMBER)	M-3 (NUMBER)	M-4 (NUMBER)	M-5 (NUMBER)	M-6 (NUMBER)	M-7 (NUMBER)	M-8 (NUMBER)	M-9 (NUMBER)



VICINITY MAP
 SCALE: 1"=1500'

GENERAL NOTES:

- ALL ASPECTS OF THE PROJECT ARE IN CONFORMANCE WITH THE LATEST HOWARD COUNTY STANDARDS.
- PROJECT BACKGROUND:**
 LOCATION: TAX MAP: 46 PARCEL: 388 LOT 1
 ELECTION DISTRICT: SIXTH
 ZONING: R-20
 PROPOSED USE FOR SITE: RESIDENTIAL
 TYPE OF PROPOSED UNIT: SFD
 DPZ FILE NOS: F-87-048, F-89-160, F-03-217, PLAT# 18682-3, ECP-13-052.
 DEED: L.10457 F.289
- AREA TABULATION**
 A. TOTAL TRACT AREA: 1.00 AC.±
 B. NUMBER OF PROPOSED BUILDBLE LOTS: 2
 C. NUMBER OF OPEN SPACE LOTS: 0
 D. AREA OF PUBLIC RIGHT-OF-WAY: 0 S.F.±
 E. AREA OF BUILDBLE LOTS: 1.00 AC.±
- ON-SITE TOPOGRAPHY SHOWN HEREON IS BASED ON A FIELD RUN SURVEY CONDUCTED BY MILDENBERG, BOENDER AND ASSOCIATES ON OR ABOUT DECEMBER 2012.
- HORIZONTAL AND VERTICAL DATUMS ARE RELATED TO THE MARYLAND STATE PLANE COORDINATE SYSTEM AS PROJECTED FROM HOWARD COUNTY CONTROL STATIONS NO. 46EA AND 46EB.
 STA. No. 46EA: N 536,185.423 E 1,338,091.710 ELEV. 415.10
 STA. No. 46EB: N 534,750.221 E 1,337,742.800 ELEV. 413.24
- THE PROPOSED SUBDIVISION WILL CONSIST OF SINGLE FAMILY DETACHED DWELLINGS.
- STEEP SLOPES OVER 20,000 SQ. FT. IN AREA DO NOT EXIST ONSITE.
- DRIVEWAYS SHALL BE PROVIDED PRIOR TO RESIDENTIAL OCCUPANCY TO ENSURE SAFE ACCESS FOR FIRE AND EMERGENCY VEHICLES PER THE FOLLOWING MINIMUM REQUIREMENTS:
 A) WIDTH - 12 FEET (16 FEET 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 OF 45-FOOT TURNING RADIUS.
 D) STRUCTURES (CULVERTS/BRIDGES) - CAPABLE OF SUPPORTING 25 GROSS TONS (225 LOADING).
 E) DRAINAGE ELEMENTS - CAPABLE OF SAFELY PASSING 100-YEAR FLOOD WITH NO MORE THAN 1 FOOT DEPTH OVER DRIVEWAY SURFACE.
 F) STRUCTURE CLEARANCES - MINIMUM 12 FEET.
 G) MAINTENANCE - SUFFICIENT TO ENSURE ALL WEATHER USE.
- FOREST CONSERVATION OBLIGATIONS FOR THIS RESUBDIVISION IS PROVIDED UNDER F-03-217.
- THIS SUBDIVISION IS IN COMPLIANCE WITH SECTION 16.124 OF HOWARD COUNTY CODE AND THE LANDSCAPE MANUAL.
- LANDSCAPING FOR THIS SUBDIVISION WILL BE DEFERRED UNTIL THE SITE DEVELOPMENT PLAN STAGE. FINANCIAL SURETY IN THE AMOUNT OF \$3,000.00 FOR THE REQUIRED LANDSCAPING WILL BE POSTED WITH THE GRADING PERMIT FOR LOT 2.
- THE OWNER, TENANT, AND/OR THEIR AGENTS SHALL BE RESPONSIBLE FOR MAINTENANCE OF THE REQUIRED LANDSCAPING, INCLUDING BOTH PLANT MATERIALS AND BERMS, FENCES, AND WALLS. ALL PLANT MATERIALS SHALL BE MAINTAINED IN GOOD GROWING CONDITION, AND WHEN NECESSARY, REPLACED WITH NEW MATERIALS TO ENSURE CONTINUED COMPLIANCE WITH APPLICABLE REGULATIONS. ALL OTHER REQUIRED LANDSCAPING SHALL BE PERMANENTLY MAINTAINED IN GOOD CONDITION, AND WHEN NECESSARY, REPAIRED OR REPLACED.
- DRIVEWAY ENTRANCE IS PER HOWARD COUNTY STANDARD DETAIL R-6.06.
- FOR FLAG OR PIPESTEM LOTS, REFUSE COLLECTION, SNOW REMOVAL AND ROAD MAINTENANCE ARE PROVIDED TO THE JUNCTION OF THE FLAG OR PIPESTEM LOT AND ROAD RIGHT-OF-WAY LINE AND NOT TO THE PIPESTEM LOT DRIVEWAY.
- STORMWATER MANAGEMENT IS PROVIDED VIA MICROBIORETENTION FACILITIES.
- A SITE DEVELOPMENT PLAN APPROVAL BY THE DEPARTMENT OF PLANNING AND ZONING IS REQUIRED PRIOR TO BUILDING PERMITS BEING ISSUED FOR THE CONSTRUCTION OF RESIDENTIAL DWELLINGS ON LOT 2.
- THE OPEN SPACE REQUIREMENT FOR THIS RESUBDIVISION IS MET BY A PAYMENT OF FEE-IN-LIEU IN THE AMOUNT OF \$1,500.00.
- THERE IS AN EXISTING STRUCTURE ON LOT 1 TO REMAIN. NO NEW BUILDINGS, EXTENSIONS OR ADDITIONS TO THE EXISTING DWELLING ARE TO BE CONSTRUCTED AT A DISTANCE LESS THAN THE ZONING REGULATION REQUIREMENTS. ALL OTHER STRUCTURES WILL BE REMOVED, UNLESS OTHERWISE NOTED.
- NO WETLAND EXISTS ON SITE AS CERTIFIED BY MILDENBERG, BOENDER ASSOC., INC.
- THIS DEVELOPMENT IS DESIGNED TO BE IN ACCORDANCE WITH SECTION 16.127 RESIDENTIAL INFILL DEVELOPMENT OF SUBDIVISION AND LAND DEVELOPMENT REGULATIONS. THE DEVELOPERS OF THIS PROJECT SHALL CREATE COMPATIBILITY WITH THE EXISTING NEIGHBORHOOD THROUGH THE USE OF ENHANCED PERIMETER LANDSCAPING, BERMS, FENCES, SIMILAR HOUSING UNIT TYPES AND THE DIRECTIONAL ORIENTATION OF THE PROPOSED HOUSES.
- THIS SITE IS NOT LOCATED IN A HISTORIC DISTRICT.
- THIS SUBDIVISION IS IN THE METROPOLITAN DISTRICT.
- NO BURIAL GROUNDS OR CEMETERIES EXIST ON SITE.
- AT THE TIME OF INSTALLMENT, ALL SHRUBS AND OTHER PLANTINGS HEREWITH LISTED AND APPROVED FOR THIS SITE SHALL BE OF THE PROPER HEIGHT REQUIREMENTS IN ACCORDANCE WITH THE HOWARD COUNTY LANDSCAPE MANUAL. IN ADDITION, NO SUBSTITUTIONS OR RELOCATION OF REQUIRED PLANTINGS MAY BE MADE WITHOUT PRIOR REVIEW AND APPROVAL FROM THE DEPARTMENT OF PLANNING AND ZONING. ANY DEVIATION FROM THIS APPROVED LANDSCAPE PLAN MAY RESULT IN DENIAL OR DELAY IN THE RELEASE OF LANDSCAPE SURETY UNTIL SUCH TIME AS ALL REQUIRED MATERIALS ARE PLANTED AND/OR REVISIONS ARE MADE TO APPLICABLE PLANS AND CERTIFICATES.
- NO TRAFFIC STUDY IS REQUIRED FOR THIS PROJECT.
- NO NOISE STUDY IS REQUIRED FOR THIS PROJECT.

SCHEDULE A : PERIMETER LANDSCAPED EDGE

CATEGORY	ADJACENT TO PERIMETER PROPERTIES			TOTAL
	A (PERIMETER 1)	A (PERIMETER 2)	A (PERIMETER 3)	
LANDSCAPE TYPE	123.51 LF	174.30 LF	288.04 LF	
LINEAR FEET OF PERIMETER				
CREDIT FOR EXISTING VEGETATION (YES, NO, LINEAR FEET)	NO	NO	NO	
NUMBER OF PLANTS REQUIRED	2 SHADE TREE 0 EVERGREEN TREES	3 SHADE TREES 0 EVERGREEN TREES	5 SHADE TREES 0 EVERGREEN TREES	10 SHADE TREE 0 EVERGREEN TREES
NUMBER OF PLANTS PROVIDED	2 SHADE TREES 0 EVERGREEN TREES 0 SUBSTITUTION TREES 0 SHRUBS	3 SHADE TREES 0 EVERGREEN TREES 0 SUBSTITUTION TREES 0 SHRUBS	5 SHADE TREES 0 EVERGREEN TREES 0 SUBSTITUTION TREES 0 SHRUBS	10 SHADE TREES 0 EVERGREEN TREES 0 SUBSTITUTION TREES 0 SHRUBS

Project	date	description	revision
12-087	AUG. 2013	Engineering	MM
		scale	MM
		approval	MM
		1"=30'	RH

Project	date	description	revision
12-087	AUG. 2013	Engineering	MM
		scale	MM
		approval	MM
		1"=30'	RH

KNISLEY PROPERTY
 LOTS 1 AND 2
 TAX MAP: 46 PARCEL: 388, LOT 1
 6TH ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND
SUPPLEMENTAL PLAN

MILDENBERG, BOENDER & ASSOC., INC.
 Engineers Planners / Surveyors
 6800 Deepwater Road, Suite 150, Ellicott City, Maryland 21075
 (410) 997-0298 Fax: (410) 997-0298 Fax