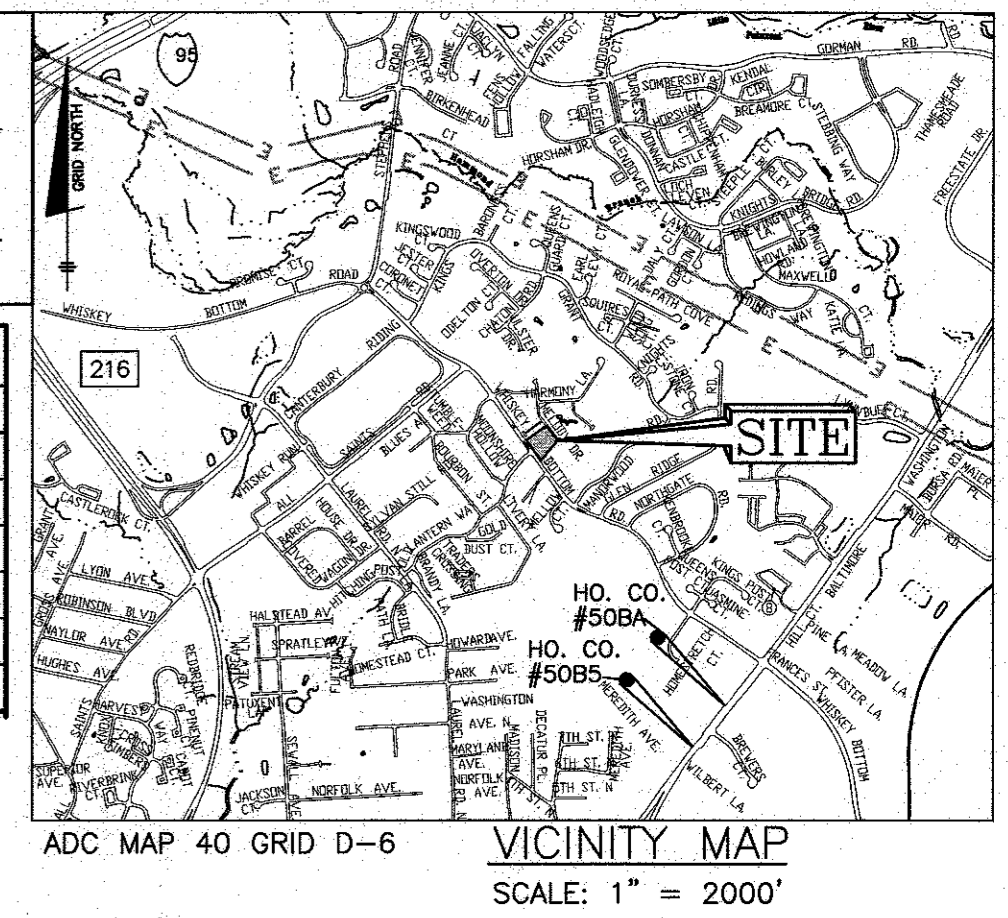


GENERAL NOTES

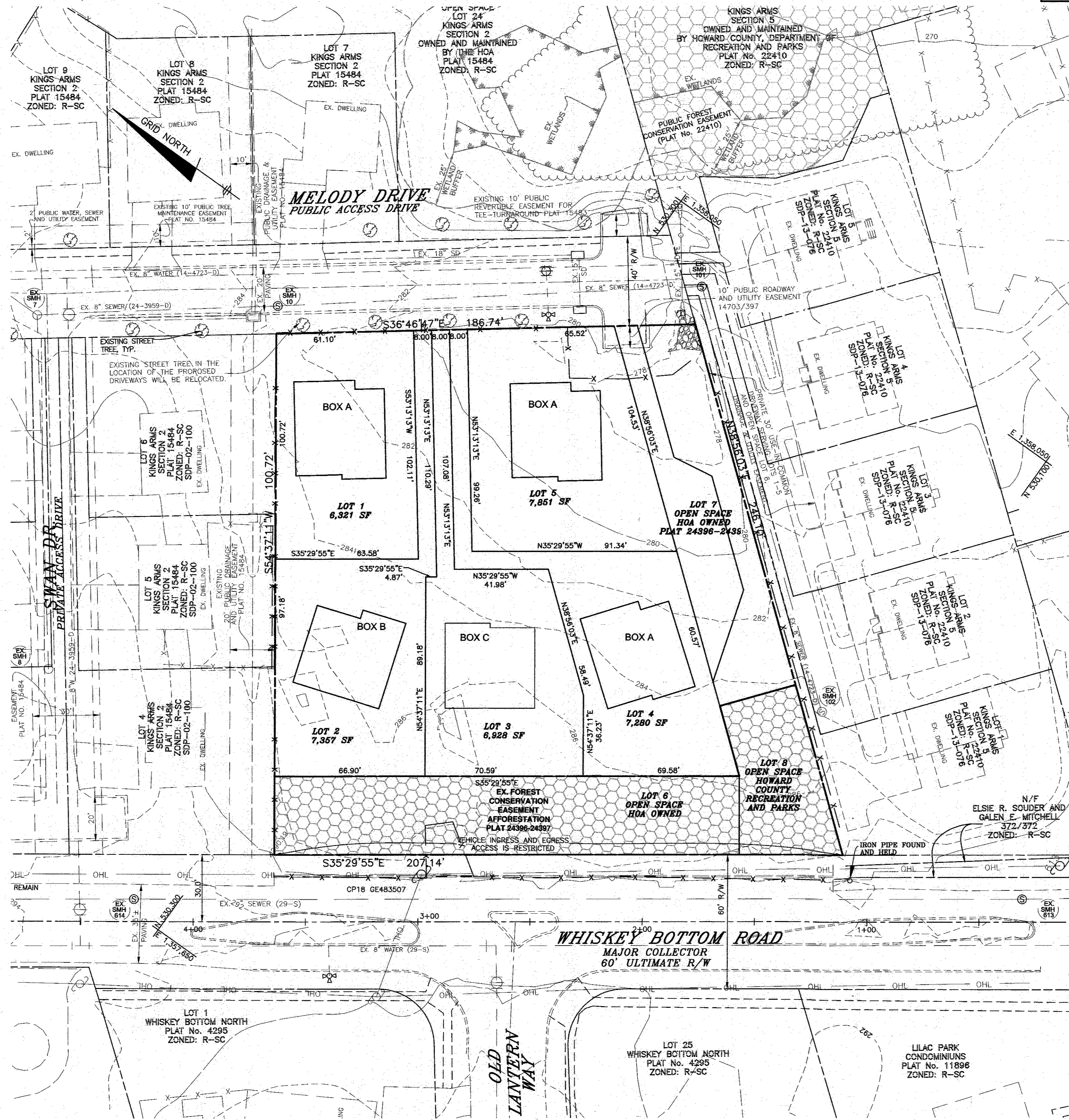
- 1. SUBJECT PROPERTY ZONED R-SC PER THE 10-6-13 COMPREHENSIVE ZONING PLAN.
2. THIS PROJECT IS SUBJECT TO THE AMENDED FIFTH EDITION OF THE SUBDIVISION AND LAND DEVELOPMENT REGULATIONS.
3. TOPOGRAPHY SHOWN HEREON IS BASED ON A FIELD SURVEY PREPARED BY BENCHMARK ENGINEERING, INC. DATED AUGUST 2015 AND HOWARD COUNTY 2008 GIS AND ARE 2' INTERVALS.
4. 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. 508A AND 508B WERE USED FOR THIS PROJECT.
5. NO GRADING, REMOVAL OF VEGETATIVE COVER OR TREES, PAVING AND NEW STRUCTURES SHALL BE PERMITTED WITHIN THE STREAMS, OR THEIR REQUIRED BUFFERS AND FLOODPLAIN AND FOREST CONSERVATION EASEMENT AREAS.
6. THERE ARE NO ONSITE STEEP SLOPES GREATER THAN 25%.
7. FOREST STAND DELINEATION WAS PREPARED BY BENCHMARK ENGINEERING, INC. AUGUST 2015.
8. THERE IS NO FLOODPLAIN, STREAMS, WETLANDS OR THEIR BUFFERS LOCATED ONSITE LOCATED IN THE LIMIT OF DISTURBANCE.
9. TO THE BEST OF OUR KNOWLEDGE THERE ARE NO CEMETERIES LOCATED ON THIS SITE.
10. THIS SITE IS LOCATED WITHIN THE METROPOLITAN DISTRICT.
11. THE FOREST CONSERVATION EASEMENTS HAVE BEEN ESTABLISHED TO FULFILL THE REQUIREMENTS OF SECTION 16.1200 OF THE HOWARD COUNTY CODE AND FOREST CONSERVATION ACT. NO CLEARING, GRADING OR CONSTRUCTION IS PERMITTED WITHIN THE FOREST CONSERVATION EASEMENT; HOWEVER, FOREST MANAGEMENT PRACTICES AS DEFINED IN THE DEED OF FOREST CONSERVATION EASEMENT ARE ALLOWED. THE TOTAL FOREST CONSERVATION OBLIGATIONS HAVE BEEN MET BY THE ON-SITE PLANTING OF 0.23 ACRES UNDER F-16-127.
12. PREVIOUS DPZ FILES: ECP-16-021, S-16-003, WP-16-120, F-16-127
13. WATER WILL BE FROM PUBLIC WATER MAIN CONTRACT NUMBER 24-4984-D.
14. SEWER WILL BE FROM PUBLIC SEWER MAIN CONTRACT 24-4984-D.
15. 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' (16' SERVING MORE THAN ONE RESIDENCE).
b) SURFACE - 6" OF COMPACT CRUSHER RUN BASE WITH TAR AND CHIP COATING (1-1/2" MIN).
c) GEOMETRY - MAXIMUM 15% GRADE, MAXIMUM 10% GRADE CHANGE AND MINIMUM 45' TURNING RADIUS.
d) STRUCTURES (CULVERTS/BRIDGES) - CAPABLE OF SUPPORTING 25 GROSS TONS (H25 LOADING).
e) DRAINAGE ELEMENTS - CAPABLE OF SAFELY PASSING 100 YEAR FLOODPLAIN WITH NO MORE THAN 1 FOOT DEPTH OVER DRIVEWAY.
f) STRUCTURE CLEARANCES - MINIMUM 12 FEET.
g) MAINTENANCE - SUFFICIENT TO INSURE ALL WEATHER USE.
16. THIS PLAN IS SUBJECT TO SECTION 128 OF THE HOWARD COUNTY ZONING REGULATIONS.
17. THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH THE PROVISIONS OF SECTION 16.124 OF THE HOWARD COUNTY CODE AND LANDSCAPE MANUAL. FINANCIAL SURVEY IN THE AMOUNT OF \$6,500.00 HAS BEEN POSTED AS PART OF THE DPW DEVELOPER'S AGREEMENT UNDER F-16-127.
18. A PRE-SUBMISSION COMMUNITY MEETING FOR THIS PROJECT WAS HELD AT 6:00PM ON AUGUST 24, 2015 AT THE NORTH LAUREL COMMUNITY CENTER.
19. 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.
20. THE CONTRACTOR SHALL NOTIFY "MISS UTILITY" AT 1-800-257-7777 AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION WORK BEING DONE.
21. EXISTING UTILITIES SHOWN ARE BASED ON A FIELD SURVEY AND HOWARD COUNTY GIS.
22. ANY DAMAGE TO THE COUNTY'S RIGHT-OF-WAY SHALL BE CORRECTED AT THE DEVELOPER'S EXPENSE.
23. SHC ELEVATIONS SHOWN ARE LOCATED AT THE PUBLIC EASEMENT LINE OR RIGHT-OF-WAY.
24. THIS PLAN IS SUBJECT TO WAIVER PETITION WP-16-120 APPROVED APRIL 26, 2016 TO WAIVE SECTION 16.144(g) WHICH REQUIRED A PRELIMINARY PLAN SUBMISSION AND SECTION 16.1205(g) WHICH REQUIRES RETENTION OF TREES WITH A 30" DIAMETER OR GREATER/SPECIMEN TREES. APPROVAL IS SUBJECT TO THE FOLLOWING CONDITIONS:
1. THE FINAL PLAN MUST BE SUBMITTED FOR ALL OF THE DEVELOPMENT APPROVED ON THE SKETCH PLAN WITHIN 4 MONTHS FROM THE DATE OF THE SKETCH PLAN APPROVAL AS WAS NOTED IN DPZ LETTER DATED MARCH 11, 2016 (ON OR BEFORE JULY 1, 2016). IF THE FINAL PLAN IS NOT RECEIVED BY THAT ESTABLISHED MILESTONE DATE, YOUR PLAN APPROVAL WILL BECOME NULL AND VOID AND YOUR PROJECT WILL LOSE ITS TENTATIVE HOUSING UNIT ALLOCATIONS IN ACCORDANCE WITH SECTION 16.144(g) AND/OR (k) OF THE HOWARD COUNTY SUBDIVISION AND LAND DEVELOPMENT REGULATIONS. IF YOU MISS THE ESTABLISHED MILESTONE DATE, ANY PLANS RESUBMITTED MUST BE PROCESSED AS A NEW SKETCH PLAN OR PRELIMINARY EQUIVALENT SKETCH PLAN. YOU WILL BE REQUIRED TO COMPLY WITH ALL PLAN SUBMISSION REQUIREMENTS AND REGULATIONS IN EFFECT AT THE TIME OF THE RE-SUBMISSION.
2. WITH THE SUBMISSION OF THE FINAL SUBDIVISION PLAN, THE LANDSCAPE PLAN SHOULD BE DESIGNED TO INCLUDE TWO(2) ADDITIONAL SHADE TREES (OR THEIR EQUIVALENT) TO MITIGATE THE REMOVAL OF THE SPECIMEN TREE. THESE REPLACEMENT TREES ARE TO BE IN ADDITION TO THE REQUIRED PERIMETER LANDSCAPE PLANTINGS. THESE TREES SHOULD BE STRATEGICALLY LOCATED WITHIN THE OPEN SPACE LOT FRONTING OF WHISKEY BOTTOM ROAD TO PROVIDE ADDITIONAL SCREENING AND SHOULD NOT BE LOCATED WITHIN THE RESIDENTIAL LOTS. COMPLIANCE WITH THIS REQUIREMENT WILL BE REVIEWED UNDER THE FINAL LANDSCAPE PLAN.
3. THE FINAL PLAN SUBMISSION SHALL BE IN ACCORDANCE WITH THE ADVISORY COMMENTS FROM THE DEVELOPMENT ENGINEERING DIVISION, DATED APRIL 6, 2016, AND WITH DLD SKETCH PLAN COMMENTS #4, 6 & 7 DATED JANUARY 29, 2016.
25. IN ACCORDANCE WITH SECTION 110.0.E OF THE ZONING REGULATIONS AT LEAST 10% OF THE DWELLING UNITS SHALL BE MODERATE INCOME HOUSING UNITS (MIHU). THIS DEVELOPMENT PROJECT REQUIRES 1 UNIT AND IS PROPOSING A FEE-IN-LIEU.
26. FOR FLAG OR PIPESTEM LOTS, REFUSE COLLECTION, SNOW REMOVAL, AND ROAD MAINTENANCE ARE PROVIDED TO THE JUNCTION OF THE FLAG OR PIPESTEM AND RIGHT-OF-WAY AND NOT ONTO THE PIPESTEM LOT DRIVEWAY.
27. DRIVEWAY APRON FOR LOTS 1 AND 5 ARE TO BE PER STANDARD DETAIL R-6.05.
28. A PRIVATE RANGE OF ADDRESS SIGN ASSEMBLY SHALL BE FABRICATED AND INSTALLED BY HOWARD COUNTY BUREAU OF HIGHWAYS AT THE DEVELOPERS/OWNERS EXPENSE. CONTACT HOWARD COUNTY TRAFFIC DIVISION AT 410-313-2430 FOR DETAILS AND COST ESTIMATES.
29. A DESIGN MANUAL WAIVER TO NOT PROVIDE GRAVITY SERVICE TO THE CELLAR OF LOTS 1 THRU 5 WAS APPROVED ON 10/24/16 BY THE DEPARTMENT OF PUBLIC WORKS.
30. STORM WATER MANAGEMENT FOR THE UIC DRIVEWAY IS PROVIDED BY A GRASS SWALE (M-8) AND A MICRO-BIORETENTION FACILITY (M-6). THESE FACILITIES ARE PRIVATELY OWNED AND MAINTAINED BY THE HOA, AND WERE DESIGNED AND APPROVED UNDER F-16-127.

RESIDENTIAL SITE DEVELOPMENT PLAN
KINGS ARMS SECTION 6
LOTS 1 THRU 5
6th ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

BENCH MARKS-(NAD'83)
HO. CO. #508A EL. N/A
STANDARD DISC ON CONC. MONUMENT
N 527561.6702 E 1359772.5936
HO. CO. #508B EL. 178.242
STANDARD DISC ON CONC. MONUMENT
N 524999.3640 E 1357925.6751



SHEET INDEX table with 5 rows and 2 columns: SHEET, TITLE. Row 1: 1 COVER SHEET. Row 2: 2 LAYOUT PLAN. Row 3: 3 GRADING, SEDIMENT & EROSION CONTROL PLAN. Row 4: 4 GRADING, SEDIMENT & EROSION CONTROL NOTES AND DETAILS. Row 5: 5 STORMWATER MANAGEMENT PLAN.



ADDRESS CHART table with 5 rows and 2 columns: LOT NUMBER, ADDRESS. Row 1: 1 9010 MELODY DRIVE. Row 2: 2 9014 MELODY DRIVE. Row 3: 3 9018 MELODY DRIVE. Row 4: 4 9022 MELODY DRIVE. Row 5: 5 9026 MELODY DRIVE.

STORMWATER MANAGEMENT PRACTICES table with 5 columns: LOT NUMBER, ADDRESS, NON-ROOFTOP DISCONNECT M-2 (NUMBER), DRYWELLS M-5 (NUMBER), MICRO-BIO RETENTION M-6 (NUMBER), GRASS SWALE M-8 (NUMBER). Row 1: 1, 9010 MELODY DRIVE, 1, 2, 0, 0. Row 2: 2, 9014 MELODY DRIVE, 0, 2, 1, 1. Row 3: 3, 9018 MELODY DRIVE, 0, 2, 1, 1. Row 4: 4, 9022 MELODY DRIVE, 0, 0, 0, 0. Row 5: 5, 9026 MELODY DRIVE, 1, 0, 0, 1.

PROJECT BACKGROUND INFORMATION

PRESENT ZONING: R-SC
LOCATION: TAX MAP 47 - GRID 22 - P/O PARCEL 174
APPLICABLE DPZ FILE REFERENCES: PLAT-N/A
DEED REFERENCES: L 16044 / F. 00404
DPZ FILE REFERENCES: ECP-16-021, S-16-003, WP-16-120
PROPOSED USE OF SITE: SINGLE FAMILY DETACHED
PROPOSED WATER AND SEWER SYSTEMS: PUBLIC WATER & SEWER

SITE DATA TABULATION(F-16-127)

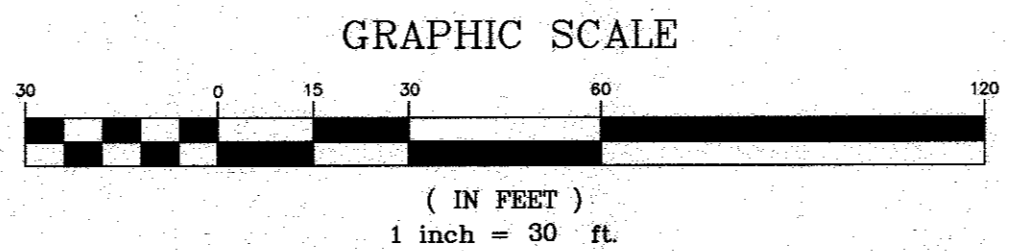
Table with 2 columns: Item, Value. Includes items like 1) TOTAL PROJECT AREA (1.37 AC.), 2) AREA OF 100-YR. FLOODPLAIN (0.00 AC.), 3) AREA OF STEEP SLOPES (0.00 AC.), 4) AREA OF EXISTING FOREST (0.00 AC.), 5) AREA OF ERODIBLE SOILS (0.00 AC.), 6) AREA OF WETLANDS (0.00 AC.), 7) AREA OF STREAM BUFFER (0.00 AC.), 8) NET AREA OF SITE(S) (1.37 AC.), 9) NUMBER OF LOTS ALLOWED (5 (4/AC)), 10) NUMBER OF RESIDENTIAL LOTS PROPOSED (5), 11) AREA OF PLAN SUBMISSION (1.37 AC.), 12) APPROXIMATE LIMIT OF DISTURBANCE (1.35 AC.), 13) PRESENT ZONING DESIGNATION (R-SC), 14) PROPOSED USES FOR THE SITE & STRUCTURES (RESIDENTIAL-SFD), 15) MINIMUM LOT SIZE (6,000 SF), 16) OPEN SPACE REQUIRED (25% OF NET AREA) (0.34 AC.), 17) OPEN SPACE PROVIDED (CREDITED) (0.36 AC. (26.2%)), 18) RECREATIONAL OPEN SPACE REQUIRED (N/A), 19) AREA OF ROAD DEDICATION (0.18 AC.), 20) NUMBER OF PARKING SPACES REQUIRED (N/A), 21) BUILDING COVERAGE AREA (IMPERVIOUS) (N/A), 22) TOTAL IMPERVIOUS AREA (0.38 AC (28%).

LEGEND

- SOILS CLASSIFICATION
SOILS DELINEATION
EXISTING CONTOURS
EXISTING WOODS LINE
EXISTING STREET TREE
LIMITS OF DISTURBANCE
PROPOSED CONTOURS
EX. SANITARY MANHOLE
PROPOSED DRYWELL
EX. PUBLIC WATER, SEWER & UTILITY EASEMENT(F-16-127)
EX. MICRO BIO RETENTION FACILITY(F-16-127)
EX. PRIVATE USE-IN-COMMON ACCESS AND SWM EASEMENT(F-16-127)
EX. FOREST CONSERVATION EASEMENT(F-16-127)
ROOF DRAIN

APPROVED: DEPARTMENT OF PLANNING AND ZONING
P. Aarnhardt for IS
CHIEF, DIVISION OF LAND DEVELOPMENT
3-18
DATE
3-8-18
DATE
3-14-18
DATE

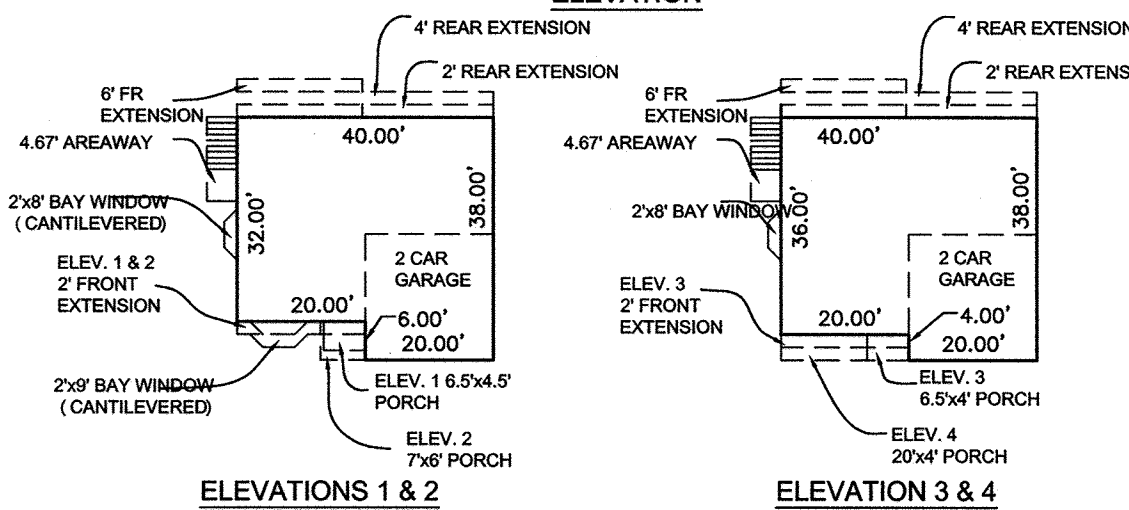
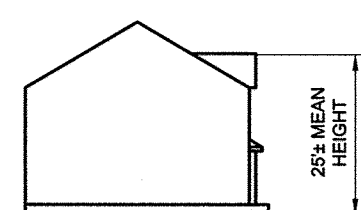
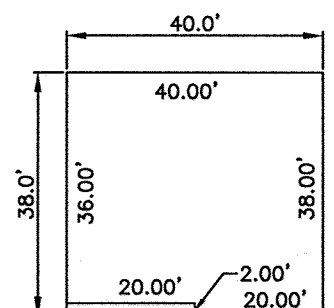
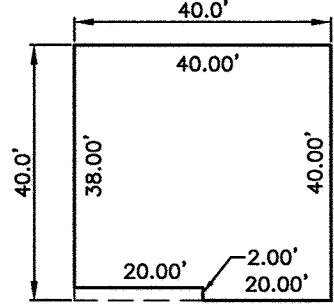
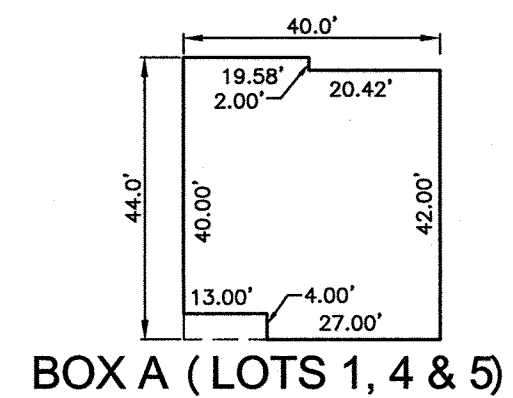
MINIMUM LOT SIZE CHART table with 4 columns: LOT, GROSS AREA, PIPESTEM AREA, MINIMUM LOT SIZE. Row 1: 2, 7,357, 869, 6,488. Row 2: 3, 6,928, 869, 6,059. Row 3: 4, 7,280, 1,130, 6,150. MINIMUM LOT SIZE ALLOWED PER ZONING (SECTION 110.0.D.2): 6,000 SF



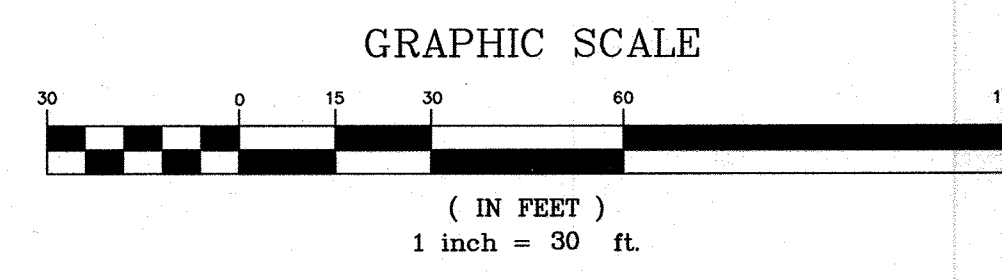
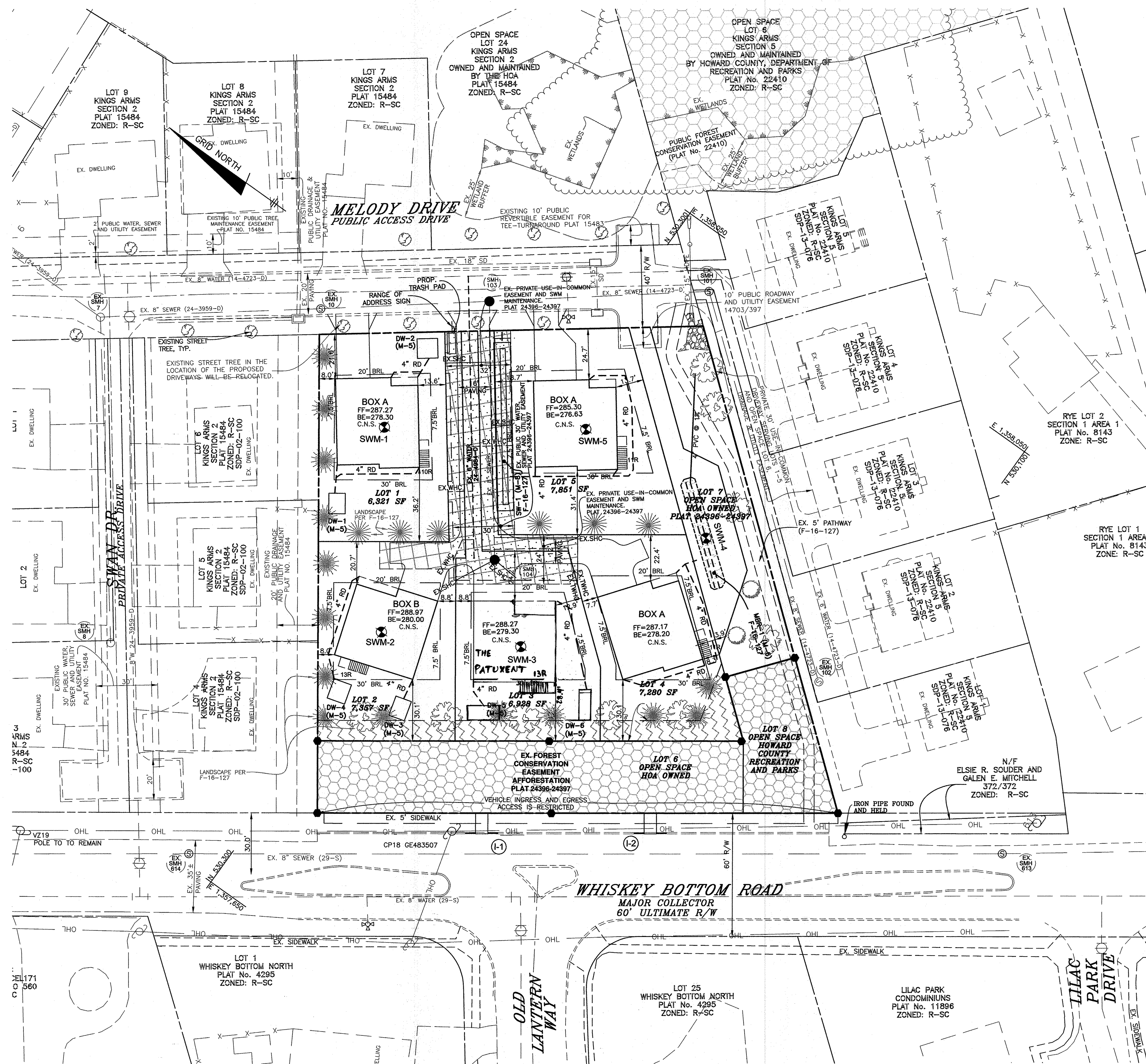
PLEASE NOTE THAT ALL LOTS/RESIDENTIAL UNITS IN THIS SUBDIVISION ARE SUBJECT TO THE MIHU FEE-IN-LIEU REQUIREMENT THAT IS TO BE CALCULATED AND PAID TO THE DEPARTMENT OF INSPECTIONS, LICENSES AND PERMITS AT THE TIME OF BUILDING PERMIT ISSUANCE BY THE PERMIT APPLICANT.

PERMIT INFORMATION CHART table with 5 columns: SUBDIVISION NAME, SECTION/AREA, LOT/PARCEL#, PLAT No., GRID No., ZONE, TAX MAP, ELECTION DISTRICT, CENSUS TRACT. Row 1: KINGS ARMS SECTION 6, N/A, LOTS 1-5, 24396-24397, 22, R-SC, 47, 6TH, 6069.04

Professional seal for BENCHMARK ENGINEERING, INC. and project information including owner/developer (BURKARD HOMES, LLC), address (5850 WATERLOO ROAD), and project details (TAX MAP: 47, GRID: 22, PARCEL: 174).



THE PATUXENT
SCALE: 1/32"



LEGEND

SOILS CLASSIFICATION	
SOILS DELINEATION	
EXISTING CONTOURS	
EXISTING WOODS LINE	
EXISTING STREET TREE	
LIMITS OF DISTURBANCE	
PROPOSED CONTOURS	
EX. SANITARY MANHOLE	
PROPOSED DRYWELL	
EX. PUBLIC WATER, SEWER & UTILITY EASEMENT (F-16-127)	
EX. MICRO BIO-RETENTION FACILITY (F-16-127)	
EX. PRIVATE USE-IN-COMMON ACCESS AND SWM EASEMENT (F-16-127)	
EX. FOREST CONSERVATION EASEMENT (F-16-127)	
ROOF DRAIN	
PROP. LANDSCAPING PER F-16-127	

APPROVED: DEPARTMENT OF PLANNING AND ZONING

J. Mendenhall ENR 3-13-18
CHIEF, DIVISION OF LAND DEVELOPMENT DATE

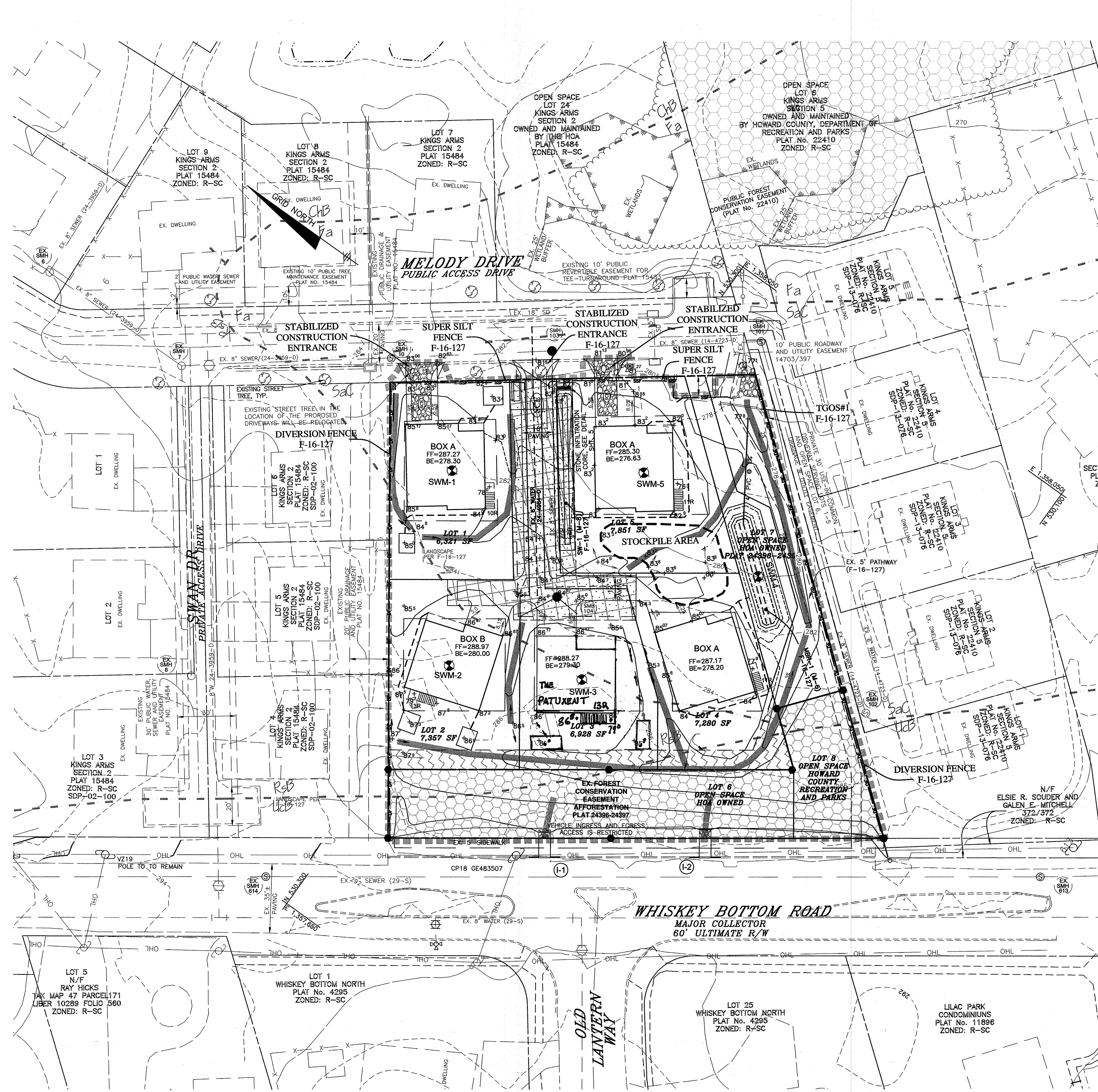
Chris Johnson 3-8-18
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

Valerie Joffe 3-14-18
DIRECTOR DATE

1 7/23/19 REVISE HOUSE MODEL LOT 3 PER BA CASE # 759-D	
NO.	REVISION
BENCHMARK ENGINEERS & LAND SURVEYORS & PLANNERS ENGINEERING, INC. 8480 BALTIMORE NATIONAL PIKE & SUITE 315 ELLICOTT CITY, MARYLAND 21043 (P) 410-465-6105 (F) 410-465-6644 WWW.BEI-CIVILENGINEERING.COM	
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. 28374.	
OWNER/DEVELOPER:	KINGS ARMS SECTION 6 LOTS 1-5
BURKARD HOMES, LLC 5850 WATERLOO ROAD SUITE 140 COLUMBIA, MARYLAND 21045 240-375-1052	TAX MAP: 47, GRID: 22, PARCEL: 174 ELECTION DISTRICT NO. 6 HOWARD COUNTY, MARYLAND DESIGN ZONE: R-SC, PA-18-007, BA-759D DPZ FILE #: ECP-16-021, S-16-003, WP-16-120, F-16-127
RESIDENTIAL SITE DEVELOPMENT PLAN LAYOUT PLAN	
DESIGN: JCO	DRAFT: JCO
DATE: NOVEMBER 2017	BEI PROJECT NO. 2714
SCALE: AS SHOWN	SHEET 2 OF 5

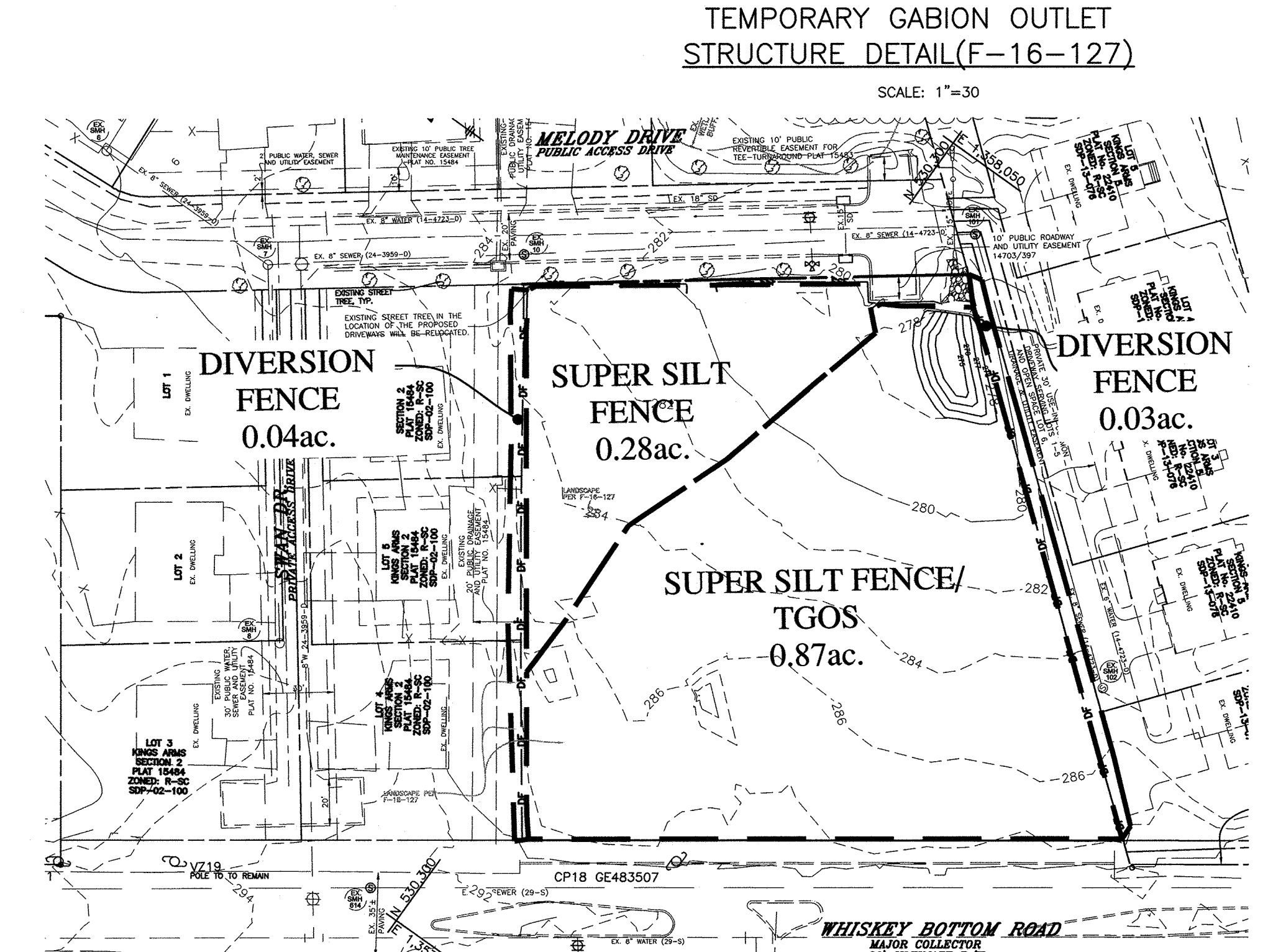
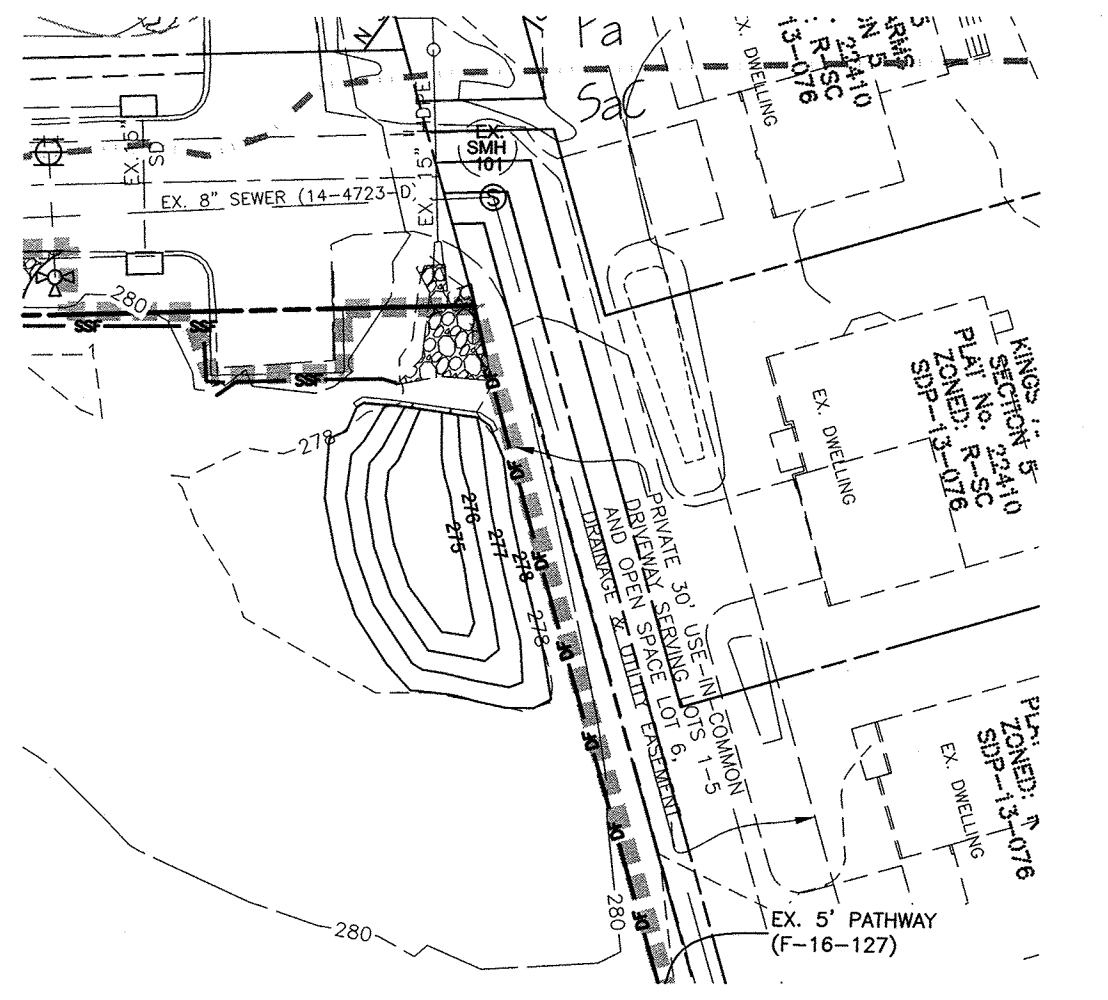
LEGEND

SOILS CLASSIFICATION
 SOILS DELINEATION
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 EXISTING WOODS LINE
 EXISTING STREET TREE
 LIMITS OF DISTURBANCE
 PROPOSED CONTOURS
 EX. SANITARY MANHOLE
 PROPOSED DRYWELL
 EX. GRASS SWALE (F-16-127)
 EX. PUBLIC WATER, SEWER & UTILITY EASEMENT(F-16-127)
 EX. MICRO BIO-RETENTION FACILITY(F-16-127)
 EX. PRIVATE USE-IN-COMMON DRIVEWAY EASEMENT(F-16-127)
 EX. PRIVATE DRAINAGE & UTILITY EASEMENT(F-16-127)
 EXISTING FENCELINE
 SUPER SILT FENCE(F-16-127)
 DIVERSION FENCE(F-16-127)
 STABILIZED CONSTRUCTION ENTRANCE
 EROSION CONTROL MATTING
 ROOF DRAIN



TEMPORARY GABION OUTLET STRUCTURE

DRAINAGE AREA	0.87	ACRES
TOTAL STORAGE REQUIRED	1,566	CF
TOTAL STORAGE PROVIDED	1,620	CF
TOP OF WEIR	278.0	FT
TOP OF DAM	278.5	FT
WEIR LENGTH	6	FT



MASS GRADING FOR THIS SITE IS THE PROPOSED GRADES AS SHOWN ON THIS PLAN.

SEDIMENT CONTROLS INSTALLED UNDER F-16-127 ARE TO BE USED AND MAINTAINED FOR CONTROLS ON THIS PLAN.

ENGINEER'S CERTIFICATE
 I, HEREBY 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.
 [Signature] 1-25-19
 ENGINEER DATE

DEVELOPER'S CERTIFICATE
 I, HEREBY CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT 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.
 [Signature] 4/24/18
 DEVELOPER DATE

REVIEWED FOR HOWARD SCD AND MEETS TECHNICAL REQUIREMENTS

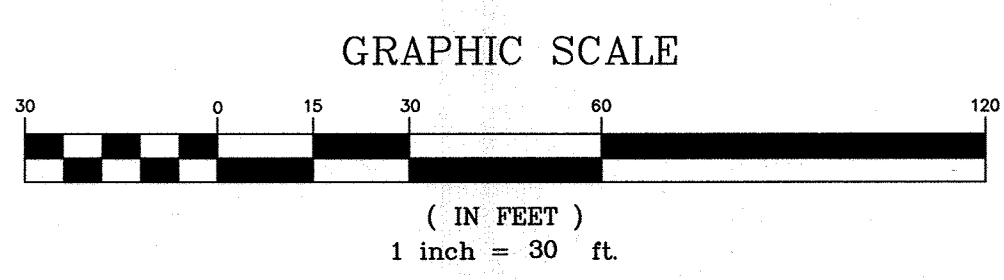
THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
 [Signature] 2/13/18
 HOWARD SCD DATE

APPROVED: DEPARTMENT OF PLANNING AND ZONING

[Signature] 3-13-18
 CHIEF, DIVISION OF LAND DEVELOPMENT DATE

[Signature] 3-8-18
 CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

[Signature] 3-14-18
 DIRECTOR DATE



SOILS LEGEND

MAP SYMBOL	SOIL GROUP	SOIL TYPE	TC FACTOR
SoC	B	SASSAFRAS LOAM, 5 TO 10 PERCENT SLOPES	0.37
RxB	C	RUSSETT FINE SANDY LOAM, 2 TO 5 PERCENT SLOPES	0.24
UcB	D	URBAN LAND-CHILLUM-BELTSVILLE COMPLEX, 5 TO 15 PERCENT SLOPES	0.28

THERE ARE NO HYDRIC SOILS ON-SITE.
 TAKEN FROM NRCS WEBSITE, MAP NO. 28

NO. 1 DATE 7/23/19 REVISION REVISE HOUSE MODEL LOT 3 PER CASE # 759-D

BENCHMARK ENGINEERS, INC.
 ENGINEERS & LAND SURVEYORS & PLANNERS
 8480 BALTIMORE NATIONAL PIKE SUITE 315 ELLICOTT CITY, MARYLAND 21043
 (P) 410-465-8105 (F) 410-465-6644
 WWW.BE-CVLENGINEERING.COM

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. 28376, Expiration Date: 01-31-2019.

STATE OF MARYLAND PROFESSIONAL ENGINEER No. 28376 2-5-19

OWNER/DEVELOPER: **KINGS ARMS SECTION 6 LOTS 1-5**

BURKARD HOMES, LLC
 5850 WATERLOO ROAD SUITE 140
 COLUMBIA, MARYLAND 21045
 240-375-1052

TAX MAP: 47, GRID: 22, PARCEL: 174
 ELECTION DISTRICT NO. 6 HOWARD COUNTY, MARYLAND
 DESIGN ZONE: R-SC, AA-18-007, BA-757D
 DPZ FILE #: ECP-16-021, S-16-003, WP-16-120, F-16-127

RESIDENTIAL SITE DEVELOPMENT PLANGRADING, SEDIMENT & EROSION CONTROL PLAN

DATE: NOVEMBER 2017 BEI PROJECT NO. 2714
 DESIGN: JCO DRAFT: JCO SCALE: 1"=30' SHEET 3 OF 5

B-4 STANDARDS AND SPECIFICATIONS FOR VEGETATION RESTORATION

DEFINITION: Using vegetation as cover to protect exposed soil from erosion.

PURPOSE: To promote the establishment of vegetation on exposed soil.

CONDITIONS WHERE PRACTICE APPLIES: On all disturbed areas not stabilized by other methods. This specification is divided into sections on stabilization, soil preparation, soil amendments and seeding, and seeding and mulching, temporary stabilization, and permanent stabilization.

EFFECTS ON WATER QUALITY AND QUANTITY: Stabilization practices are used to promote the establishment of vegetation on exposed soil. When soil is stabilized with vegetation, the soil is less likely to erode and more likely to allow infiltration of rainfall, reducing sediment loads and runoff to downstream areas. Vegetation also helps to reduce erosion and sedimentation in water bodies, especially on slopes and banks of streams, rivers, and creeks. Vegetation also helps to improve the water holding capacity of the soil and subsequent plant growth. Vegetation will help reduce the movement of sediment, nutrients, and other chemicals carried by runoff to receiving waters. Plants will also help protect groundwater supplies by absorbing excess water from the soil.

STANDARD SEDIMENT CONTROL NOTES:

- A PRE-CONSTRUCTION MEETING MUST OCCUR WITH THE HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS, CONSTRUCTION INSPECTION DIVISION (CID), 410-313-1855 AFTER THE FUTURE LOG AND PROTECTED AREAS ARE MARKED CLEARLY IN THE FIELD. A MINIMUM OF 48 HOUR NOTICE TO CID MUST BE GIVEN AT THE FOLLOWING STAGES:
 - PRIOR TO THE START OF EARTH DISTURBANCE.
 - PRIOR TO THE START OF PERMITTER EROSION AND SEDIMENT CONTROLS, BUT BEFORE PROCEEDING WITH ANY OTHER EARTH DISTURBANCE OR GRADING.
 - PRIOR TO THE START OF ANOTHER PHASE OF CONSTRUCTION OR OPENING OF ANOTHER GRADING UNIT.
- PRIOR TO THE REMOVAL OR MODIFICATION OF SEDIMENT CONTROL PRACTICES.
- ANY SEDIMENT CONTROL PRACTICE WHICH IS DISTURBED BY GRADING ACTIVITY FOR PLACEMENT OF UTILITIES MUST BE REPAIRED ON THE SAME DAY OF DISTURBANCE.
- ADDITIONAL SEDIMENT CONTROL MUST BE PROVIDED, IF DEEMED NECESSARY BY THE CID, THE SITE AND ALL CONTROLS SHALL BE INSPECTED BY THE CONTRACTOR WEEKLY AND THE NEXT DAY AFTER EACH RAIN EVENT. A WRITTEN REPORT BY THE CONTRACTOR, MADE AVAILABLE UPON REQUEST, IS PART OF EVERY INSPECTION AND SHOULD INCLUDE:
 - INSPECTION TYPE (ROUTINE, PRE-CONDITION EVENT, DURING RAIN EVENT)
 - NAME AND TITLE OF INSPECTOR
 - WEATHER INFORMATION (CURRENT STATUS AS WELL AS TIME AND AMOUNT OF LAST RECORDED PRECIPITATION)
 - BRIEF DESCRIPTION OF PROJECT'S STATUS (E.G., PERCENT COMPLETE) AND/OR CURRENT ACTIVITIES
 - IDENTIFICATION OF DEFICIENCIES
 - IDENTIFICATION OF MISSING OR IMPROPERLY INSTALLED SEDIMENT CONTROLS
 - COMPLIANCE STATUS REGARDING THE SEQUENCE OF CONSTRUCTION AND STABILIZATION REQUIREMENTS
 - PHOTOGRAPHS
 - MONITORING/SAMPLING
 - OTHER INSPECTION ITEMS AS REQUIRED BY THE GENERAL PERMIT FOR STORMWATER ASSOCIATED WITH CONSTRUCTION ACTIVITIES (NPDES, MDC)
- CRITERIA FOR THE CONSTRUCTION OF UTILITIES IS LIMITED TO THREE PIPE LENGTHS OR THAT WHICH CAN AND SHALL BE BACK-FILLED AND STABILIZED BY THE END OF EACH WORKDAY, WHICHEVER IS SHORTER.
- ANY MAJOR CHANGES OR REVISIONS TO THE PLAN OR SEQUENCE OF CONSTRUCTION MUST BE REVIEWED AND APPROVED BY THE HCSO PRIOR TO PROCEEDING WITH CONSTRUCTION. MINOR REVISIONS MAY BE ALLOWED BY THE CID PER THE LIST OF MINOR REVISIONS.
- ALL DISTURBED AREAS MUST BE STABILIZED AND APPROVED BY THE HCSO, NO MORE THAN 30 DAYS AFTER THE LAST DAY OF DISTURBANCE.
- ALL MAJOR CHANGES OR REVISIONS TO THE PLAN OR SEQUENCE OF CONSTRUCTION MUST BE REVIEWED AND APPROVED BY THE HCSO PRIOR TO PROCEEDING WITH CONSTRUCTION. MINOR REVISIONS MAY BE ALLOWED BY THE CID PER THE LIST OF MINOR REVISIONS.
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PERMANENT SEEDING SUMMARY

Hardiness Zone (from Table B.3)	ES	ES	Fertilizer Rate (100-20-30)	ES	ES	ES	ES	ES	ES	ES
No. Species	Application Rate (lb/1000 sq ft)	Seeding Rate (lb/1000 sq ft)	Seeding Rate (lb/1000 sq ft)	ES	ES	ES	ES	ES	ES	ES
Forest, Tall	40	1.0	0.5	Mar 15 to May 15	1/4 - 1/2 in	45 gws/nds	90 lbs/ton	90 lbs/ton	2 1/2 in/ft	1000/1
Open, Short	40	1.0	0.5	Mar 15 to May 15	1/4 - 1/2 in	45 gws/nds	90 lbs/ton	90 lbs/ton	2 1/2 in/ft	1000/1
Open, Tall	40	1.0	0.5	Mar 15 to May 15	1/4 - 1/2 in	45 gws/nds	90 lbs/ton	90 lbs/ton	2 1/2 in/ft	1000/1

PERMANENT SEEDING SUMMARY

Hardiness Zone (from Table B.3)	ES	ES	Fertilizer Rate (100-20-30)	ES	ES	ES	ES	ES	ES	ES
No. Species	Application Rate (lb/1000 sq ft)	Seeding Rate (lb/1000 sq ft)	Seeding Rate (lb/1000 sq ft)	ES	ES	ES	ES	ES	ES	ES
Forest, Tall	40	1.0	0.5	Mar 15 to May 15	1/4 - 1/2 in	45 gws/nds	90 lbs/ton	90 lbs/ton	2 1/2 in/ft	1000/1
Open, Short	40	1.0	0.5	Mar 15 to May 15	1/4 - 1/2 in	45 gws/nds	90 lbs/ton	90 lbs/ton	2 1/2 in/ft	1000/1
Open, Tall	40	1.0	0.5	Mar 15 to May 15	1/4 - 1/2 in	45 gws/nds	90 lbs/ton	90 lbs/ton	2 1/2 in/ft	1000/1

GENERAL NOTES:

- Select one or more of the species or mixtures listed in Table B.3 for the appropriate Plant Hardiness Zone (from Table B.3) and based on the site condition or purpose found on Table B.2. Enter selected mixture(s), application rates, and seeding dates in the Permanent Seeding Summary. The Summary is to be placed on the plan.
- Additional planting specifications for exceptional sites such as shrublands, stream banks, and other special purposes such as wildlife habitat are provided in the Planting Manual. For USDA-NRCS Technical Field Office Guide, Section 242 - Off-site Area Planning.
- For sites having disturbed areas or areas, use and show the same recommendations by the 1000 square foot maintenance, apply one form fertilizer (40-0-0) at 3 lbs per 1000 square feet (150 pounds per acre) at the time of seeding or immediately after the seed is applied to the Permanent Seeding Summary.
- Turfgrass Mixtures: Areas where turfgrass may be desired include tennis courts, playgrounds, and commercial sites which will receive a medium to high level of maintenance. Areas where one of the species or mixtures listed below should be used on the site conditions or purposes. Enter selected mixture(s), application rates, and seeding dates in the Permanent Seeding Summary. The Summary is to be placed on the plan.
 - Kentucky Bluegrass: Full sun mixture. For use in areas that receive intensive management, irrigation required in the areas of central Maryland and Eastern Shore. Recommended Certified Kentucky Bluegrass Cultivar Seeding Rate: 1.5 to 2.0 pounds per 1000 square feet. Choose a mixture of three Kentucky Bluegrass Cultivars with each cultivar seeded at 1/3 to 35 percent of the total mixture by weight.
 - Kentucky Bluegrass/Perennial Ryegrass: Full sun mixture. For use in full sun areas where irrigation is necessary and where turf will receive intensive management. Certified Perennial Ryegrass, Kentucky Bluegrass, and Certified Kentucky Bluegrass Cultivars with each ranging from 10 to 35 percent of the total mixture by weight.
 - Tall Fescue/Kentucky Bluegrass: Full sun mixture. For use in drought prone areas and/or in areas receiving low to medium management in full sun to medium shade. Recommended certified Kentucky Bluegrass Cultivars are 10 to 100 percent. Certified Kentucky Bluegrass Cultivars 10 to 5 percent. Seeding Rate: 1.5 to 2.0 pounds per 1000 square feet. One or more cultivars may be blended.
 - Kentucky Bluegrass/Fescue: Shade mixture. For use in areas with shade in Bluegrass lawns. For establishment in high quality, intensively managed turf areas. Mixtures include Certified Kentucky Bluegrass Cultivars 30 to 40 percent and Fescue 60 to 70 percent. Seeding Rate: 1.5 to 2.0 pounds per 1000 square feet. Note: Seeded turfgrass varies from those listed in the "Turfgrass Cultivar Recommendations for Maryland" publication, Agronomy Memo #77, "Turfgrass Cultivar Recommendations for Maryland" certified mixture. Certified mixture is the best guarantee of cultivar purity. The certification program of the Maryland Department of Agriculture, Turf and Seed Section, provides a reliable means of consumer protection and assures a pure genetic line.
 - Ideal Times of Seeding for Turf Grass Mixtures:
 - Wetland MD: March 15 to June 1, August 1 to October 1 (Hardiness Zones: 5b, 6a)
 - Central MD: March 1 to May 15, August 15 to October 15 (Hardiness Zones: 6b)
 - South MD: Eastern Shore: March 15 to May 15, August 15 to October 15 (Hardiness Zones: 7a, 7b)
 - Turf areas to receive seed by drilling or other approved methods to a depth of 2 to 4 inches, level and rake the areas to prepare a proper seedbed. Remove stones and debris over 1/4 inch in diameter. The resulting seedbed must be in such condition that future mowing of grasses will pose no difficulty. If soil moisture is deficient, supply new seedlings with adequate water for plant growth (1/4 to 1 inch every 3 to 4 days depending on soil texture) until they are firmly established. This is not especially true when seedlings are made late in the planting season, in abnormal dry or hot seasons, or in areas where irrigation is required.
 - Soil Preparation:
 - Class of turfgrass must be Maryland State Certified. Seed labels must be made available to the job foreman and inspector.
 - Soil must be machine cut to a uniform soil thickness of 1/4 inch, plus or minus 1/4 inch, at the time of cutting. Measurement for thickness must include top growth and thatch. Bottom pads, lawn rolls, and certain types of sod are not acceptable.
 - Standard size sections of sod must be strong enough to support their own weight and retain their size and shape when suspended vertically with a firm grasp on the upper 10 percent of the section.
 - Sod must not be harvested or transported when moisture content (excessively dry or wet) may adversely affect its survival.
 - Sod must be harvested, delivered, and installed within a period of 30 hours. Sod not transported within this period must be approved by an agronomist or soil scientist prior to its installation.
 - Soil Installation:
 - During periods of excessively high temperature or in areas having dry soil, lightly irrigate the subsoil immediately prior to laying the sod.
 - Lay the first row of sod in a straight line with subsequent rows placed parallel to it and tightly wedged against each other. Stagger lateral joints to provide more uniform growth and strength. Ensure that each row is covered or overlapped and that all joints are butted tight in order to prevent weeds which would cause any drying of the joints.
 - Whenever possible, lay sod with the long edges parallel to the contour and with staggering joints. Roll and tamp, and/or otherwise secure the sod to prevent slippage on slopes. Ensure solid contact exists between sod roots and the underlying soil surface.
 - Water the sod immediately following rolling and tamping until the underside of the new sod and top surface below the top are thoroughly wet. Complete the operations of laying, rolling and tamping for any piece of sod within eight hours.
 - Soil Maintenance:
 - In the absence of adequate rainfall, water daily during the first week or so after sod installation as necessary to maintain moist soil to a depth of 4 inches. Water and during the first week of the day to prevent wilting.
 - In the first week, sod watering is required to maintain adequate moisture content.
 - Do not walk on the sod if possible. No more than 1/3 of the grass leaf must be removed by the initial cutting or subsequent cutting. Maintain a grass height of at least 2 inches unless otherwise specified.

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.

ENGINEER: [Signature] DATE: 7-25-18

DEVELOPER'S CERTIFICATE

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 COURSE OF TRAINING APPROVED BY THE HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS, CONSTRUCTION INSPECTION DIVISION (CID). I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT.

DEVELOPER: [Signature] DATE: 7/24/18

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

HOWARD SOIL CONSERVATION DISTRICT: [Signature] DATE: 2/13/18

APPROVED: DIVISION OF PLANNING AND ZONING

P. Markowski, P.E. DATE: 3-13-18
 CHIEF, DIVISION OF LAND DEVELOPMENT

John E. [Signature] DATE: 3-8-18
 CHIEF, DEVELOPMENT ENGINEERING DIVISION

W. [Signature] DATE: 3-14-18
 DIRECTOR

RESIDENTIAL SITE DEVELOPMENT PLAN
SEDIMENT CONTROL NOTES AND DETAILS

NO. [] DATE [] REVISION []

OWNER/DEVELOPER: BURKARD HOMES, LLC
 5850 WATERLOO ROAD, SUITE 140, COLUMBIA, MARYLAND 21045-2400-375-1052

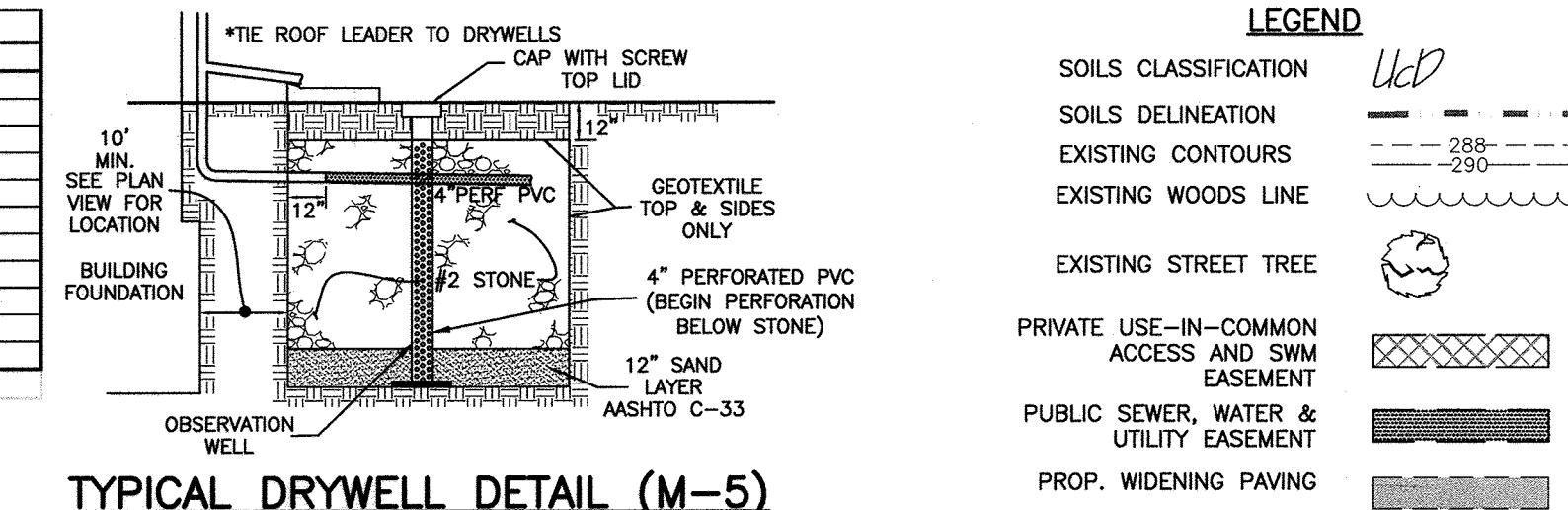
TAX MAP: 47, GRID: 22, PARCEL: 174
 ELECTION DISTRICT NO. 6 HOWARD COUNTY, MARYLAND
 DPZ FILE # ECP-16-021, S-16-003, WP-16-120, F-16-127

DATE: NOVEMBER 2017 SHEET PROJECT NO. 2714
 SCALE: AS SHOWN SHEET 4 OF 5

SDP-18-012

MATERIALS & SPECIFICATIONS FOR DRY WELLS			
MATERIAL	SPECIFICATION	SIZE	NOTES:
GEOTEXTILE (CLASS "C")	N/A		PE TYPE 1 NONWOVEN
GRAVEL	AASHTO M 43	1 1/2" TO 2 1/2"	
UNDERDRAIN PIPING	F758, TYPE PS28 OR AASHTO M-278	4" TO 6" RIGID SCH40 PVC, SDR35 OR HDPE	3/8" PERF. @ 6" O/C, 4 HOLES PER ROW; MINIMUM OF 2" OF GRAVEL OVER PIPES.
SAND	AASHTO M-6 OR ASTM-C-33	.02" TO .04"	SAND SUBSTITUTIONS SUCH AS DIABASE AND GRAYSTONE (AASHTO) #10 ARE NOT ACCEPTABLE. NO CALCIUM CARBONATED OR DOLOMITIC SAND SUBSTITUTIONS ARE ACCEPTABLE. NT ROCK DUST CAN BE USED FOR SAND.

ESD SUMMARY TABLE														
Perf		1.6		inches										
D.A.	MDE Type	Total DA	Impervious Area	Ce	Required	Provided	At	2% DA	Depth	Required	Provided	ESDv	RV	Pe
DW-1	(M-5)	752	752	1.52	NA	NA	NA	NA	NA	95	96	NA	0.95	1.61
DW-2	(M-5)	860	860	1.52	NA	NA	NA	NA	NA	109	114	NA	0.95	1.67
DW-3	(M-5)	752	752	1.52	NA	NA	NA	NA	NA	95	108	NA	0.95	1.61
DW-4	(M-5)	755	755	1.52	NA	NA	NA	NA	NA	96	108	NA	0.95	1.61
DW-5	(M-5)	832	832	1.52	NA	NA	NA	NA	NA	105	107	NA	0.95	1.64
DW-6	(M-5)	860	860	1.52	NA	NA	NA	NA	NA	109	111	NA	0.95	1.64
DR-1	(N-2)	506	205	0.96	205	301	NA	0.0	11	17	PASS	0.41	1.00	
DR-2	(N-2)	766	331	0.70	331	435	NA	0.0	19	28	PASS	0.44	1.00	
Totals		6,003	5,267	1.34						630	669	TOTAL ESDv		



TYPICAL DRYWELL DETAIL (M-5)
NOT TO SCALE

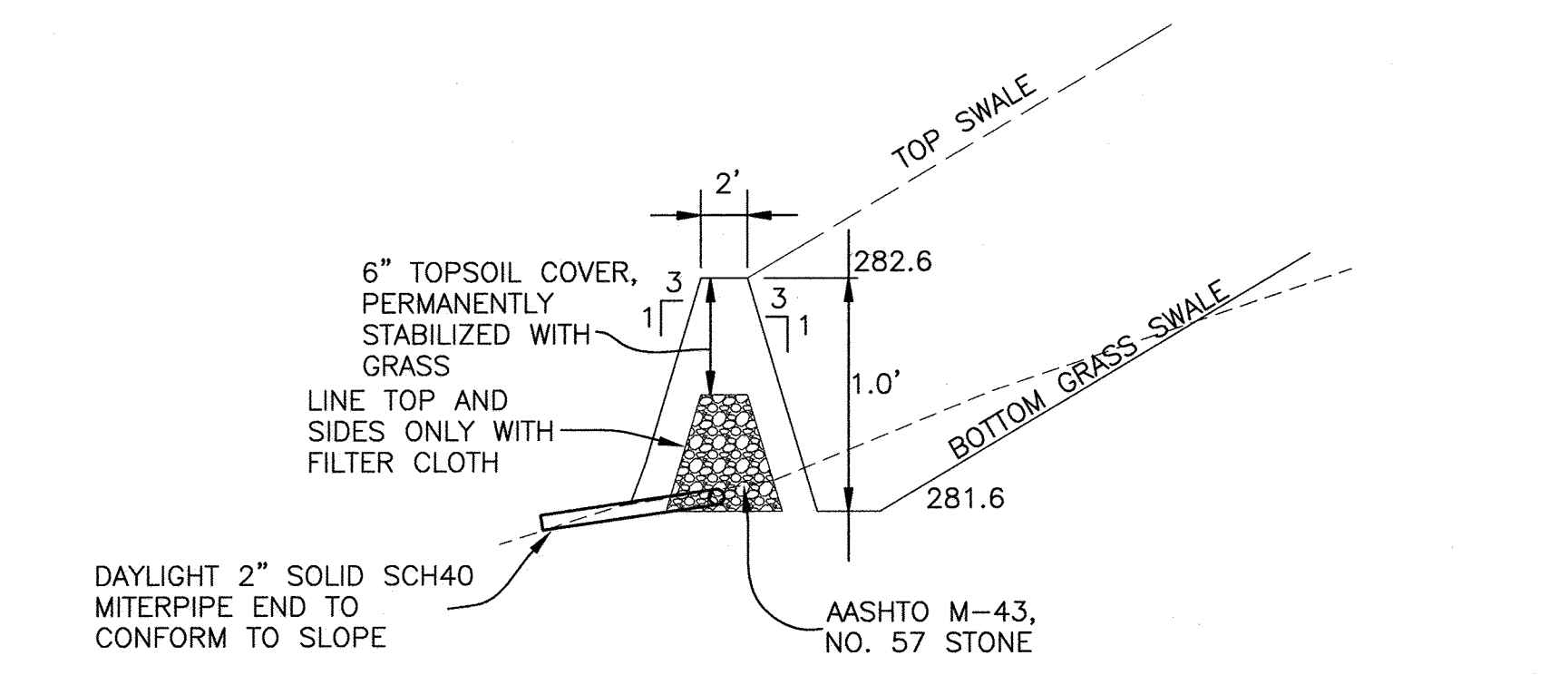
DRYWELL SIZING CHART (M-5)						
Drywell Designation	Length (ft)	Width (ft)	Depth (ft)	Grade	Top of Stone	Bottom of Stone
DW-1	10.00	8.00	3.00	284.7	283.7	280.7
DW-2	10.00	9.50	3.00	283.4	282.4	279.4
DW-3	10.00	8.00	3.00	286.6	285.6	282.6
DW-4	10.00	9.00	3.00	287.3	286.3	283.3
DW-5	15.00	6.00	3.00	286.0	285.0	282.0
DW-6	16.00	6.00	3.00	285.7	284.7	281.7

OPERATION AND MAINTENANCE SCHEDULE FOR PRIVATELY OWNED AND MAINTAINED DRY WELLS (M-5)

- THE MONITORING WELLS AND STRUCTURES SHALL BE INSPECTED ON A QUARTERLY BASIS AND AFTER EVERY LARGE STORM EVENT.
- WATER LEVELS AND SEDIMENT BUILD UP IN THE MONITORING WELLS SHALL BE RECORDED OVER A PERIOD OF SEVERAL DAYS TO INSURE TRENCH DRAINAGE.
- A LOG BOOK SHALL BE MAINTAINED TO DETERMINE THE RATE AT WHICH THE FACILITY DRAINS.
- WHEN THE FACILITY BECOMES CLOGGED SO THAT IT DOES NOT DRAIN DOWN WITHIN THE 72 HOUR TIME 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.

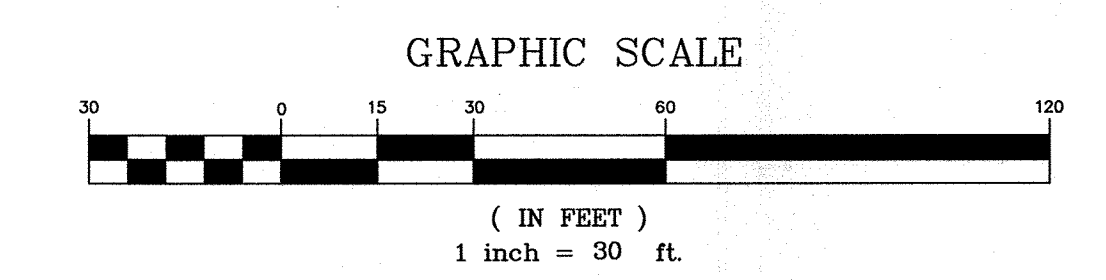
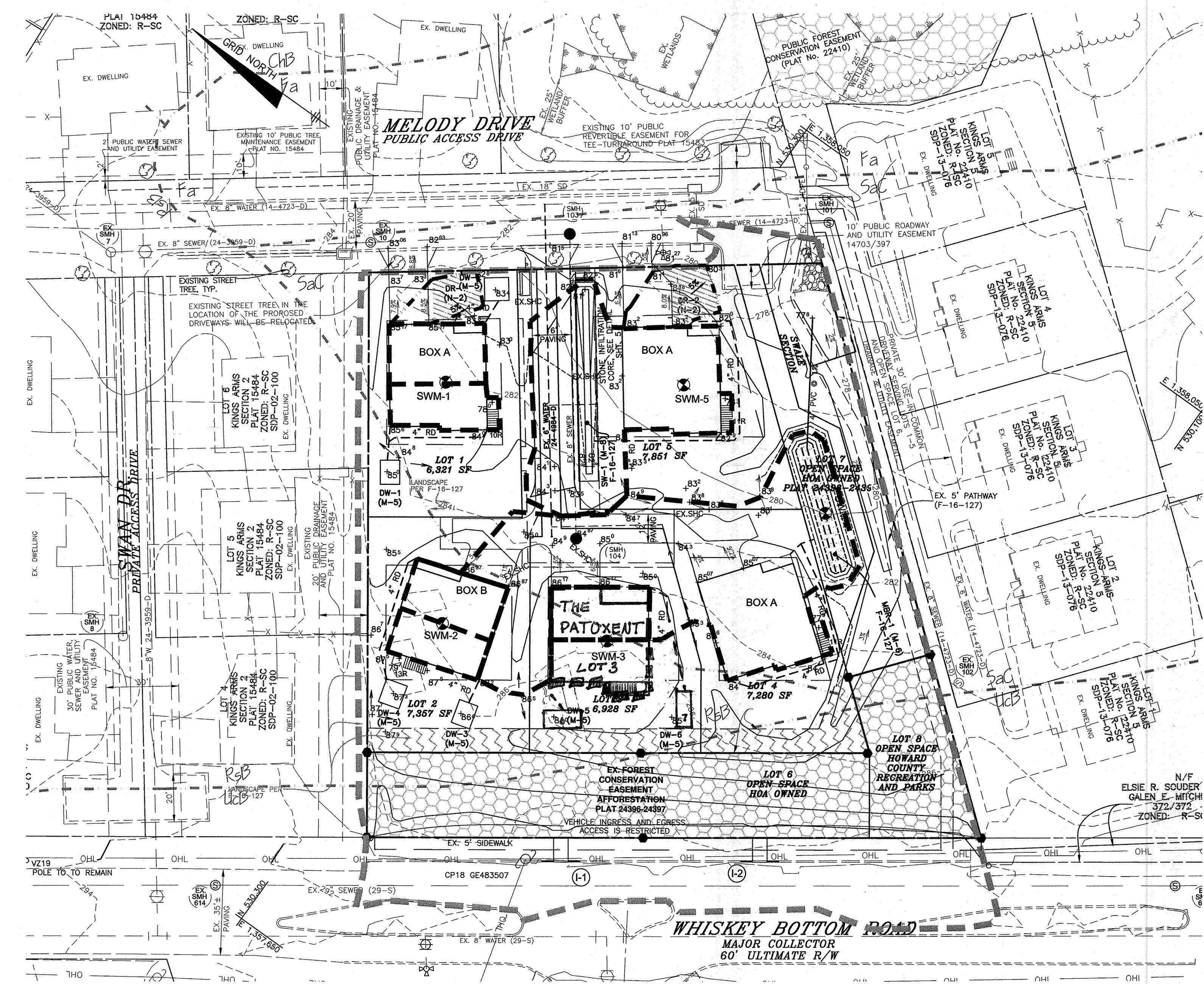
OPERATION AND MAINTENANCE SCHEDULE FOR NON-ROOFTOP DISCONNECTS (N-2)

- MAINTENANCE OF AREAS RECEIVING DISCONNECTED RUNOFF IS GENERALLY NO DIFFERENT THAN THAT REQUIRED FOR OTHER LAWN OR LANDSCAPING. THE OWNER SHALL ENSURE THE AREAS RECEIVING RUNOFF ARE PROTECTED FROM FUTURE COMPACTION OR DEVELOPMENT OF IMPERVIOUS AREA. IN COMMERCIAL AREAS, FOOT TRAFFIC SHOULD BE DISCOURAGED AS WELL.



INFILTRATION STONE CORE SECTION
NOT TO SCALE

- OPERATION AND MAINTENANCE SCHEDULE FOR HOMEOWNER MAINTAINED INFILTRATION BERMS
- FACILITY SHALL BE INSPECTED ANNUALLY AND AFTER MAJOR STORMS TO ENSURE THAT PONDING WATER DOES NOT CREATE NUISANCE CONDITIONS. SIGNS OF CONCENTRATED FLOW AND OTHER SURFACE EROSION SHOULD BE REPAIRED TO PROMOTE SHEETFLOW. A DENSE MAT OF VEGETATION SHOULD BE PRESENT AT ALL TIMES. VEGETATION SHOULD BE REPLACED AS NEEDED.



APPROVED: DEPARTMENT OF PLANNING AND ZONING

S. Mark Gans 3-13-18
CHIEF, DIVISION OF LAND DEVELOPMENT DATE

John Clark 3-2-18
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

William J. Jaffe 3-14-18
DIRECTOR DATE

1 7/23/19 REVISE HOOSE MODEL LOT 3 PER BA CASE # 759-D & UPDATE LOT 3 SWM	
NO.	REVISION
<p align="center">BENCHMARK ENGINEERS & LAND SURVEYORS & PLANNERS ENGINEERING, INC. 8480 BALTIMORE NATIONAL PIKE & SUITE 315 & ELLICOTT CITY, MARYLAND 21043 (P) 410-465-8105 (F) 410-465-8644 WWW.BE-CIVLENGINEERING.COM</p>	
<p>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. 28376, Expiration Date: 01-01-2019.</p>	
OWNER/DEVELOPER:	KINGS ARMS SECTION 6 LOTS 1-5
BURKARD HOMES, LLC 5850 WATERLOO ROAD SUITE 140 COLUMBIA, MARYLAND 21045 240-375-1052	TAX MAP: 47, GRID: 22, PARCEL: 174 ELECTION DISTRICT NO. 6 HOWARD COUNTY, MARYLAND DESIGN ZONE: R-SC, AA-18-007, BA-75-9D DPZ FILE #: ECP-16-021, S-16-003, WP-16-120, F-16-127
RESIDENTIAL SITE DEVELOPMENT PLAN STORMWATER MANAGEMENT PLAN	
DESIGN: JCO	DRAFT: EDD/NAF
DATE: NOVEMBER 2017	BEI PROJECT NO. 2714
SCALE: AS SHOWN	SHEET 5 OF 5