DESCRIPTION 2 ROAD PLAN AND PROFILE, STORMDRAIN PROFILES AND DRAINAGE AREA MAP AND TRAFFIC CONTROL PLAN GRADING, SEDIMENT AND EROSION CONTROL PLAN AND DETAILS 4 STORMWATER MANAGEMENT DESIGN AND DETAILS 5 LANDSCAPE PLAN 6 FOREST CONSERVATION PLAN

GENERAL NOTES

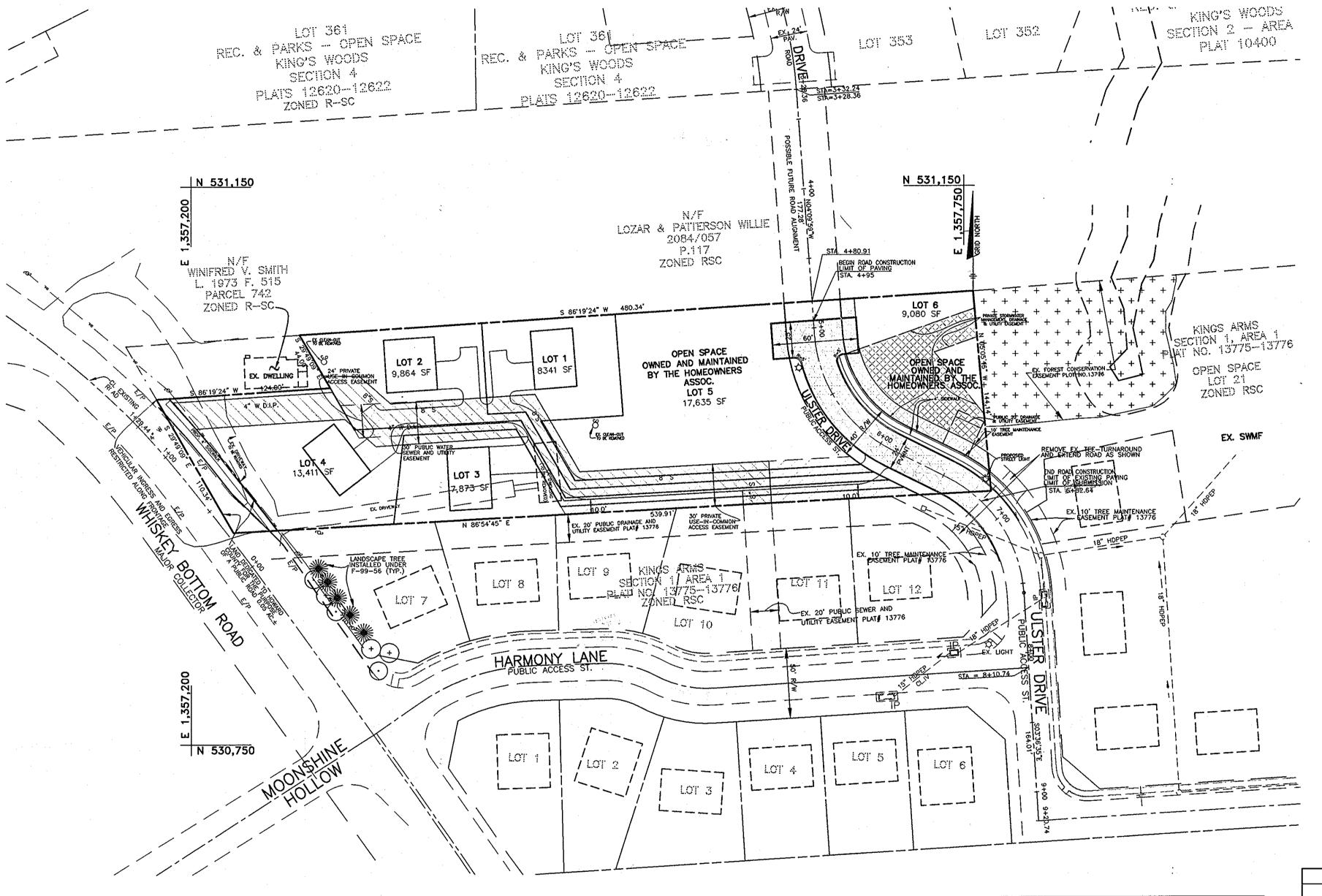
- THE SUBJECT PROPERTY IS ZONED R-SC PER THE 2-2-04 COMPREHENSIVE ZONING PLAN.
 THE EXISTING TOPOGRAPHY IS TAKEN FROM FIELD RUN SURVEY WITH TWO FOOT
- CONTOUR INTERVALS PREPARED BY BENCHMARK ENGINEERING, INC. DATED AUGUST,
- 2001. ALL VERTICAL CONTROLS ARE BASED ON NGVD29. 3. THE COORDINATES SHOWN HEREON ARE BASED UPON THE HOWARD COUNTY
 GEODETIC CONTROL WHICH IS BASED UPON THE MARYLAND STATE COORDINATE SYSTEM.
- HOWARD COUNTY MONUMENT NOS. 50BA AND 50B5 WERE USED FOR THIS PROJECT. WATER IS PUBLIC AND DRAINAGE AREA IS IN THE PATUXENT WATERSHED. CONTRACT NO. 24-4176-D.
- SEWER IS PUBLIC AND DRAINAGE AREA IS IN THE PATUXENT WATERSHED. CONTRACT NO. 24-4176-D. STORMWATER MANAGEMENT QUALITY CONTROL IS BEING PROVIDED BY A POCKET POND AND DRY SWALE AS PART OF THIS SUBMISSION; THESE FACILITIES WILL BE PRIVATELY OWNED AND MAINTAINED BY THE HOMEOWNERS ASSOCIATION.
- THE FACILITY IS TO BE A CLASS 'A' STRUCTURE. EXISTING UTILITIES SHOWN WERE LOCATED BY RECORD DRAWINGS AND FIELD
- THERE IS NO FLOODPLAIN ON THIS SITE. THERE ARE NO WETLANDS ON THIS SITE PER ECO-SCIENCE PROFESSIONALS, INC. 10. AN ADEQUATE PUBLIC FACILITIES ORDINANCE TRAFFIC ANALYSIS WAS PREPARED BY
- WAS APPROVED UNDER SP-03-07. 11. ALL LANDSCAPING REQUIREMENTS SHALL BE IN ACCORDANCE WITH THE HOWARD COUNTY LANDSCAPE MANUAL AND SECTION 16.124(b)(3)(ii) OF THE SUBDIVISION

HE MARS GROUP, INC. DATE: MAY, 2003 AND REVISED AUGUST 2003 AND

- 12. THE GEOTECHNICAL REPORT FOR THIS PROJECT WAS PREPARED BY HILLIS-CARNES
- ENGINEERING ASSOCIATES, INC., DATED JUNE 14, 2002. 13. STREET LIGHTS PLACEMENT AND THE TYPE OF FIXTURE SHALL BE IN ACCORDANCE WITH THE HOWARD COUNTY DESIGN MANUAL VOLUME III (1993), AND AS MODIFIED BY "GUIDELINES FOR STREET LIGHTS IN RESIDENTIAL DEVELOPMENTS (JUNE 1993)." A
- MINIMUM SPACING OF 20' SHALL BE MAINTAINED BETWEEN ANY STREETLIGHT AND ANY TREE 14. UNLESS NOTED AS "PRIVATE", ALL EASEMENTS ARE PUBLIC. 15. BRL INDICATES BUILDING RESTRICTION LINE: 16. TO THE BEST OF OUR KNOWLEDGE, THERE ARE NO CEMETERY LOCATIONS ON SITE.
- 17. DEVELOPER SHALL PROPERLY ABANDON EXISTING WELL AND SEPTIC ON PARCEL 742 PER THE HEALTH DEPARTMENT REQUIREMENT AFTER INSTALLATION AND CONNECTION OF THE PUBLIC SEWER TO THE EXISTING STRUCTURE. WELL ABANDONMENT MUST BE DONE BY A LICENSED WELL DRILLER.
- 18. NO NOISE STUDY IS REQUIRED FOR THIS PROJECT
- 19. MINIMUM BUILDABLE LOT SIZE SHALL BE 6,000 SQUARE FEET. 20. TRACT BOUNDARY ESTABLISHED BY A FIELD RUN SURVEY PERFORMED BY BENCHMARK ENGINEERING, INC. AROUND AUGUST 2001.
- 21. FOR FLAG OR PIPE STEM LOTS, REFUSE COLLECTION, SNOW REMOVAL AND ROAD MAINTENANCE ARE PROVIDED TO THE JUNCTION OF THE FLAG OR PIPE STEM AND ROAD RIGHT OF WAY LINE ONLY AND NOT ONTO THE FLAG OF PIPE STEM LOT DRIVEWAY.
- 22. 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' (14' SERVING MORE THAN ONE RESIDENCE) b) SURFACE - 6" OF COMPACT CRUSHER RUN BASE WITH TAR AND CHIP COATING
 - c) GEOMETRY MAXIMUM 15% GRADE, MAXIMUM 10% GRADE CHANGE AND MINIMUM d) STRUCTURES (CULVERTS/BRIDGES) - CAPABLE OF SUPPORTING 25 GROSS TONS
 - e) DRAINAGE ELEMENTS -- CAPABLE OF SAFELY PASSING 100 YEAR FLOODPAIN WITH NO MORE THAN 1 FOOT DEPTH OVER DRIVEWAY.
- f) STRUCTURE CLEARANCES MINIMUM 12 FEET. g) MAINTENANCE - SUFFICIENT TO INSURE ALL WEATHER USE.
- 23. WAIVER PETITION WP-03-81 WAS CONSIDERED AND DENIED ON FEBRUARY 26, 2003 TO WAIVE SECTION 16.121(e)(i) WHICH REQUIRES OPEN SPACE LOTS
- TO HAVE 40' OF FRONTAGE ON A PUBLIC ROAD. 24. A WAVER PETITION WAS APPROVED ON SEPTEMBER 18, 2003 FOR A WAIVER TO SECTIONS 5 2.4.I. AND 5.2.7.A.2. OF THE HOWARD COUNTY DESIGN MANUAL, VOLUME 1. SECTION 5.2.4.1 PERTAINS TO THE MINIMUM DISTANCE FROM A POND EMBANKMENT TO A PROPERTY LINE
- AND SECTION 5.2.7.A.2 PERTAINS TO THE 12' SAFETY BENCH.
 25. A RAZING INSPECTION REPORT SHALL BE OBTAINED AND SUBMITTED TO HOWARD COUNTY FOR THE BUILDINGS BEING REMOVED ON-SITE PRIOR TO RECORDATION OF THE PLATS.
- 26. Th: FOTAL FOREST CONSERVATION OBLIGATION AMOUNT OF 0.82 ACRES WAS MET BY THE
- FEE- IN-LIEU PAYMENT OF \$26.740.00 27. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST STANDARDS AND SPECIFICATIONS OF HOWARD COUNTY.
- 28. 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.
- 29. THE CONTRACTOR SHALL NOTIFY "MISS UTILITY" AT 1-800-257-7777 AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION WORK BEING DONE. 30. TRAFFIC CONTROL DEVICES, MARKINGS AND SIGNING SHALL BE IN ACCORDANCE WITH THE
- LATEST EDITION OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES. ALL STREET AND REGULATORY SIGNS SHALL BE IN PLACE PRIOR TO THE PLACEMENT OF ANY ASPHALT
- 31. LANDSCAPING FOR THIS SUBDIVISION IS PROVIDED IN ACCORDANCE WITH A CERTIFIED LANDSCAPE PLAN INCLUDED WITH THIS ROAD CONSTRUCTION PLAN SET IN ACCORDANCE WITH SECTION 16.124 OF THE HOWARD COUNTY CODE AND THE LANDSCAPE MANUAL WITH A DPW, DEVELOPER'S AGREEMENT FOR 36 SHADE TREES, 13 EVERGREEN TREES AND 30 EVERGREEN SHRUBS WITH
- 32. FILL WITHIN COUNTY RIGHT OF WAY SHALL BE COMPACTED TO 95% OF MODIFIED PROCTOR (AASHTO T-180). 3. PROPER ABANDONMENT OF THE EXISTING HOLDING TANK, WHICH SUPPORTS THE ADJACENT HOUSE ON PARCEL 742 AND IS LOCATED ON THE SUBJECT PROPERTY SHALL BE PERFORMED IN ACCORDANCE WITH THE HEALTH. CEPARTMENT REQUIREMENTS AFTER INSTALLATION AND CONNECTION OF THE PUBLIC SEWER TO THE EXISTING

FINAL PLAN KING'S ARMS, SECTION 3

6th ELECTION DISTRICT HOWARD COUNTY, MARYLAND



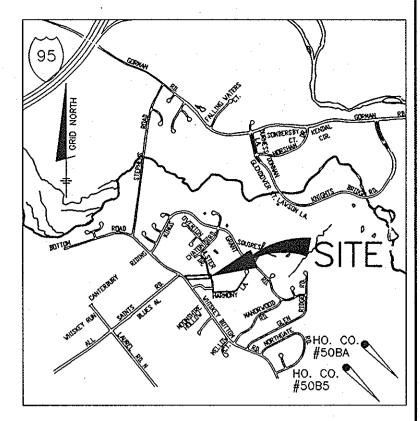
PLAN

SCALE: 1" = 50'

BENCH MARKS-(NAD'83) HO. CO. #50BA EL. 249.380 STANDARD DISC ON CONC. MONUMENT

N 527561.667' E 1359772.6' HO. CO. #50B5 EL. 178.142' STANDARD DISC ON CONC. MONUMENT

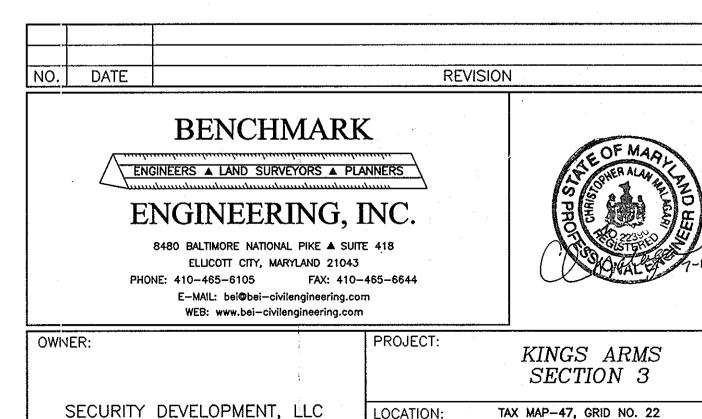
N 524999.355' E 1357925.68'



VICINITY MAP SCALE : 1'=2000' ADC MAP 19, GRID K9 ADC COORDINATES: E 845,000 N 470,250

RIGHT OF	WAY ELEVATION CH	IART NAD 83
R/W PT. NO.	DISCRIPTION	ELEVATION
100	REBAR & CAP	303.99'
112	REBAR É CAP	283.05
113	REBARECAP	280.83
200	REBAR & CAP	301.08
201	REBAR & CAP	301.201
202	REBAR & CAP	301.61'
203	REBAR & CAP	363.38'
204	REBAR & CAP	279.45'
205	MAGNAIL	279.45
206	REBAR & CAP	281.50
207	REBAR & CAP	282.36'
208	MAGNAIL	283.13'
209	MAGNAIL	283.99'
210	REBAR & CAP	281.01





P.O. BOX 417

ELLICOTT CITY, MARYLAND 21041

(410) 465-4244

APPROVED: DEPARTMENT_OF PUBLIC WORKS APPROVED: DEPARTMENT OF PLANNING AND ZONING CHIEF, DIVISION OF LAND DEVELOPMENT (1)

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SURETY IN THE AMOUNT OF \$13,650.00.

a. PRESENT ZONING: R-SC APPLICABLE DPZ FILE REFERENCES: F-03-107, F-03-106, WP-03-81 SP-03-17 c. DEED REFERENCES: L5879 F0592 & L5879 F602 PROPOSED USE OF SITE: 4 SFD HOMES e. PROPOSED WATER AND SEWER SYSTEMS: PUBLIC 2) AREA TABULATION . 1.74 AC. a. TOTAL AREA OF SITE AREA OF 100 YEAR FLOODPLAIN... AREA OF STEEP SLOPES ON SITE .. (25% OR GREATER) NET AREA OF SITE AREA OF THIS PLAN SUBMISSION... f. AREA OF PROPOSED BUILDABLE LOTS.....

AREA OF PROPOSED OPEN SPACE LOTS...... 0.61 AC.

h. AREA OF PROPOSED PUBLIC ROAD R/W...... 0.22 AC.

(INCLUDING WIDENING STRIPS)

1) GENERAL SITE DATA

3) LOT TABULATION g. TOTAL NUMBER OF RESIDENTIAL LOTS PROPOSED ON THIS SUBMISSION.

SITE DATA TABULATION

b. TOTAL NUMBER OF OPEN SPACE LOTS PROPOSED..... 2 4) OPEN SPACE DATA 1.) MINIMUM RESIDENTIAL LOT SIZE...... 6,000 S.F. 0.44 AC. (25% OF 1.74 AC.) 2.) OPEN SPACE REQUIRED.... 3.) TOTAL CREDITED OPEN SPACE PROVIDED...... 0.61 AC.

4.) TOTAL NON-CREDITED OPEN SPACE PROVIDED....... 0.0 AC. 5.) TOTAL OPEN SPACE PROVIDED 6.) AREA OF RECREATIONAL OPEN SPACE REQUIRED...... N/A

1. INSTALL SIGNS ON-1(2) " END OF ROAD MARKER" BEHIND BARRICADE. SIGNS TO BE INSTALLED 12' APART. MINIMUM 2 SIGNS PER LOCATION DEAD END BARRICADE Department of Public Works R-5.11

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TAX MAP-47, GRID NO. 22

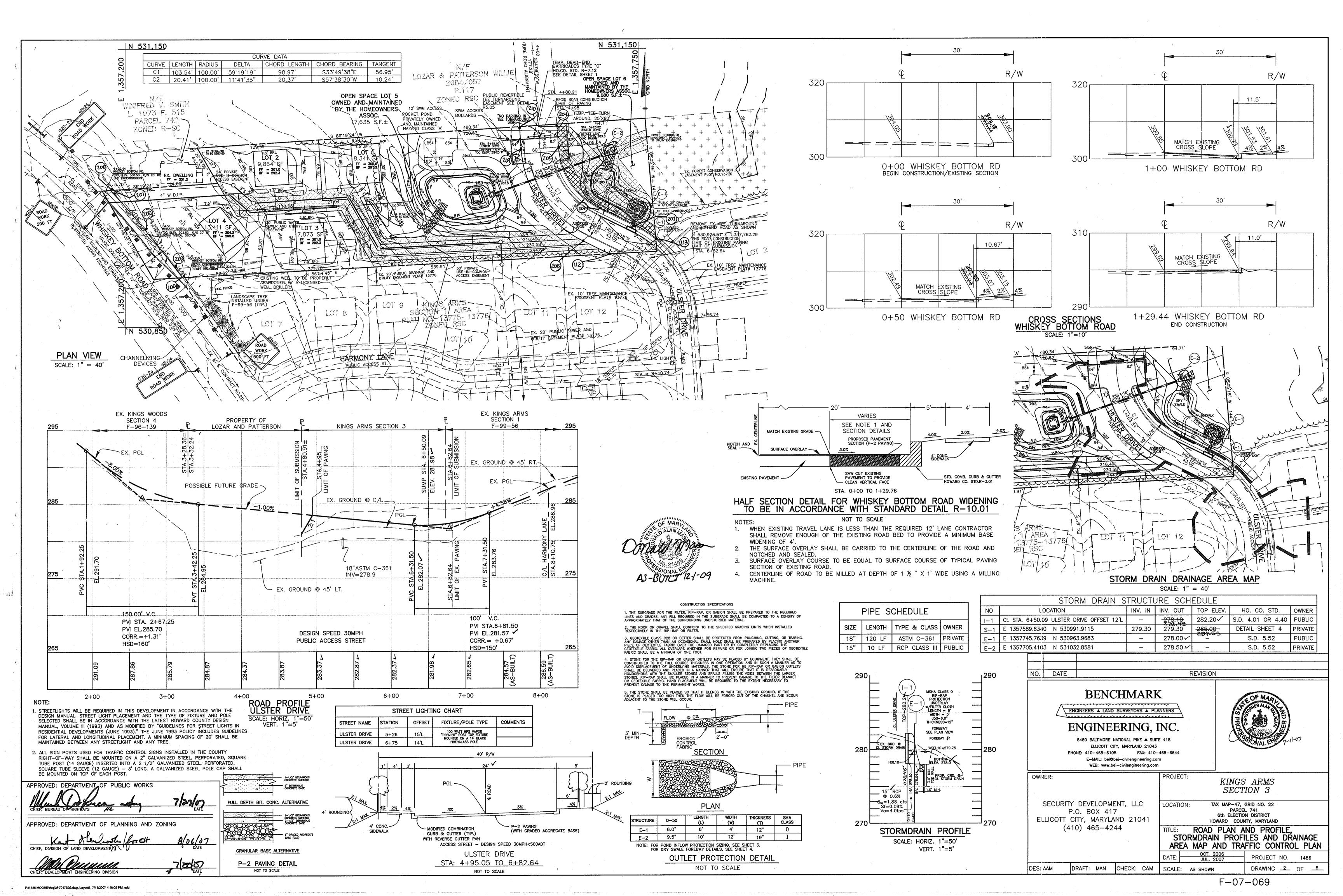
PARCEL 741

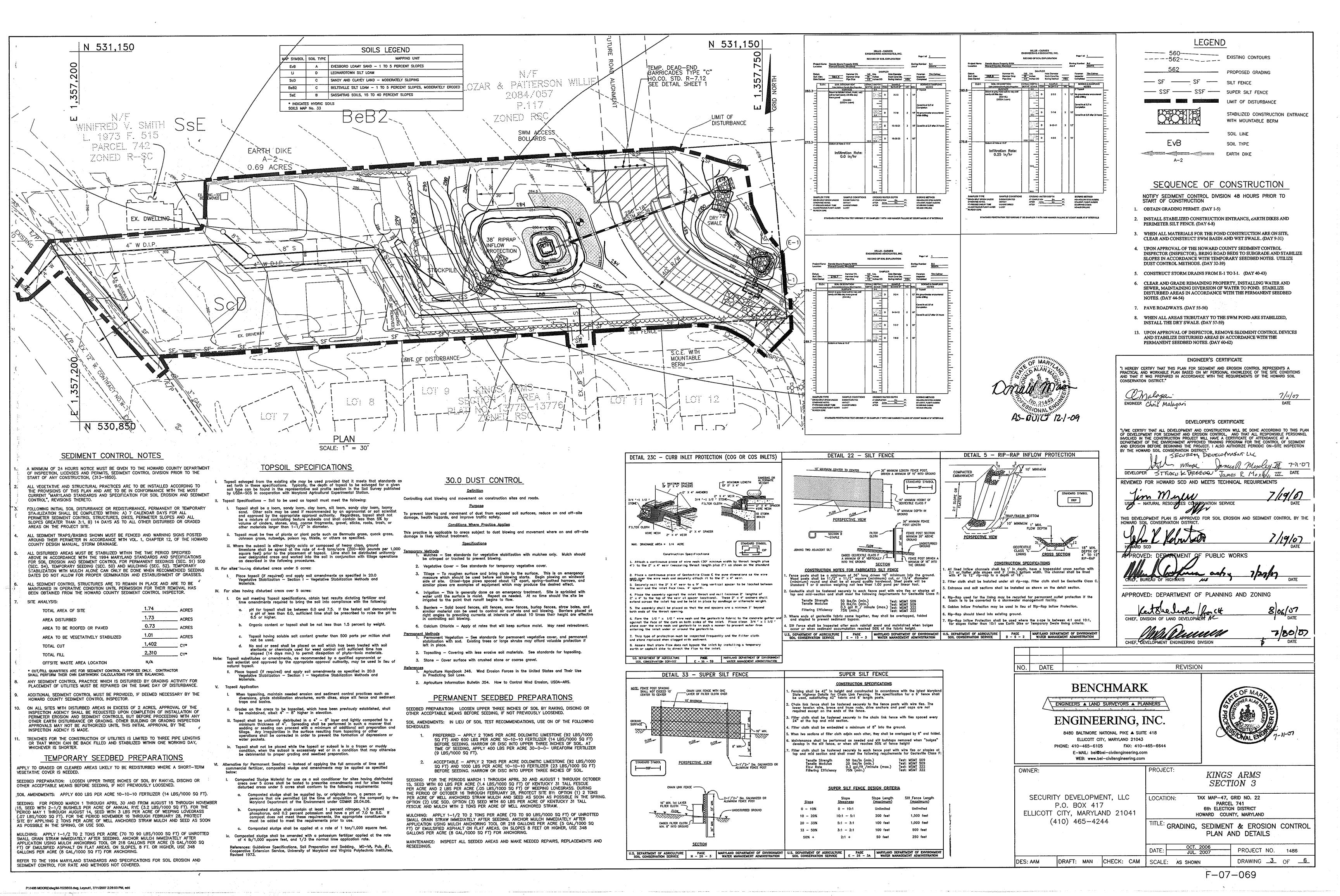
6th ELECTION DISTRICT

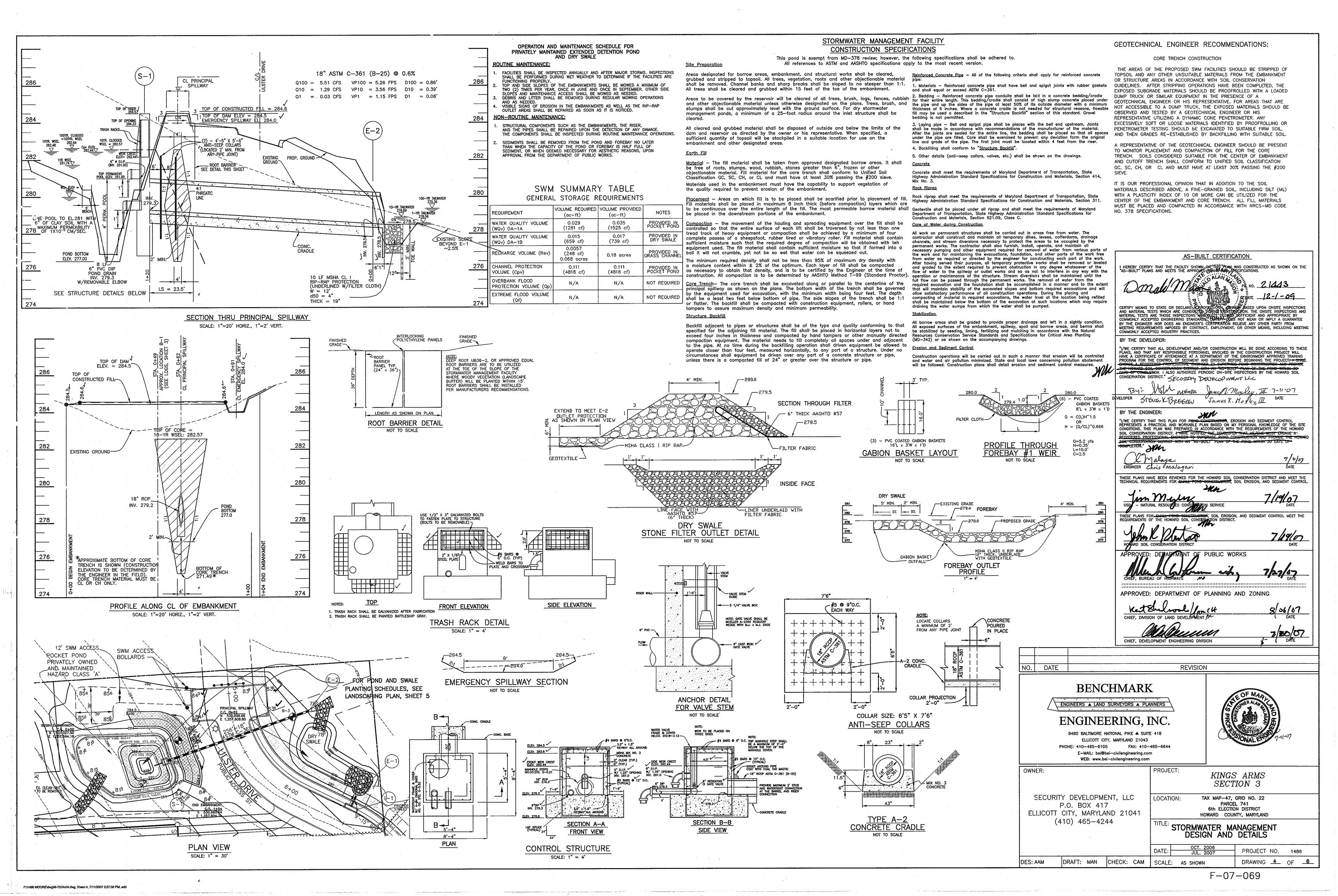
HOWARD COUNTY, MARYLAND

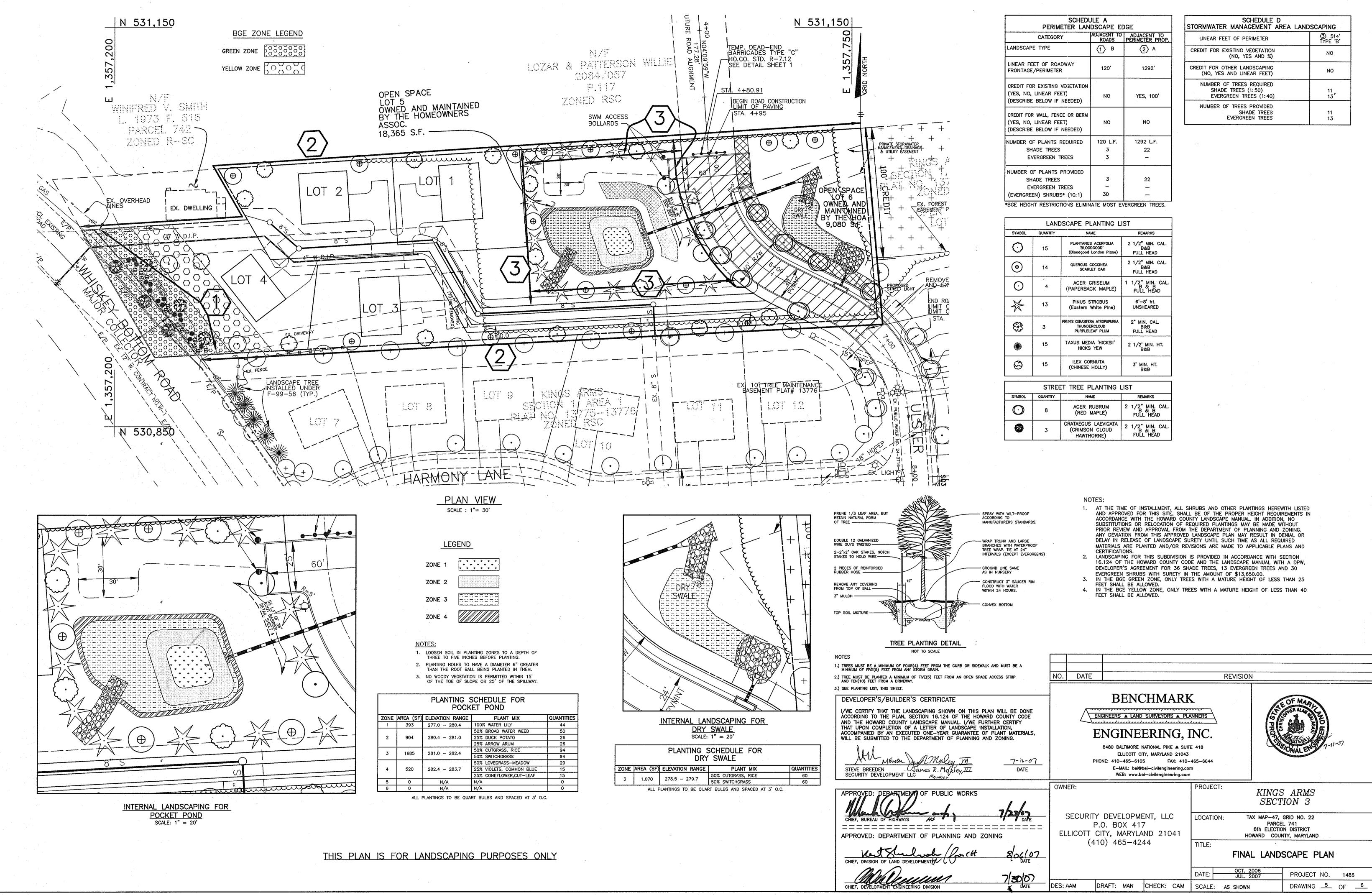
PROJECT NO.

TITLE SHEET



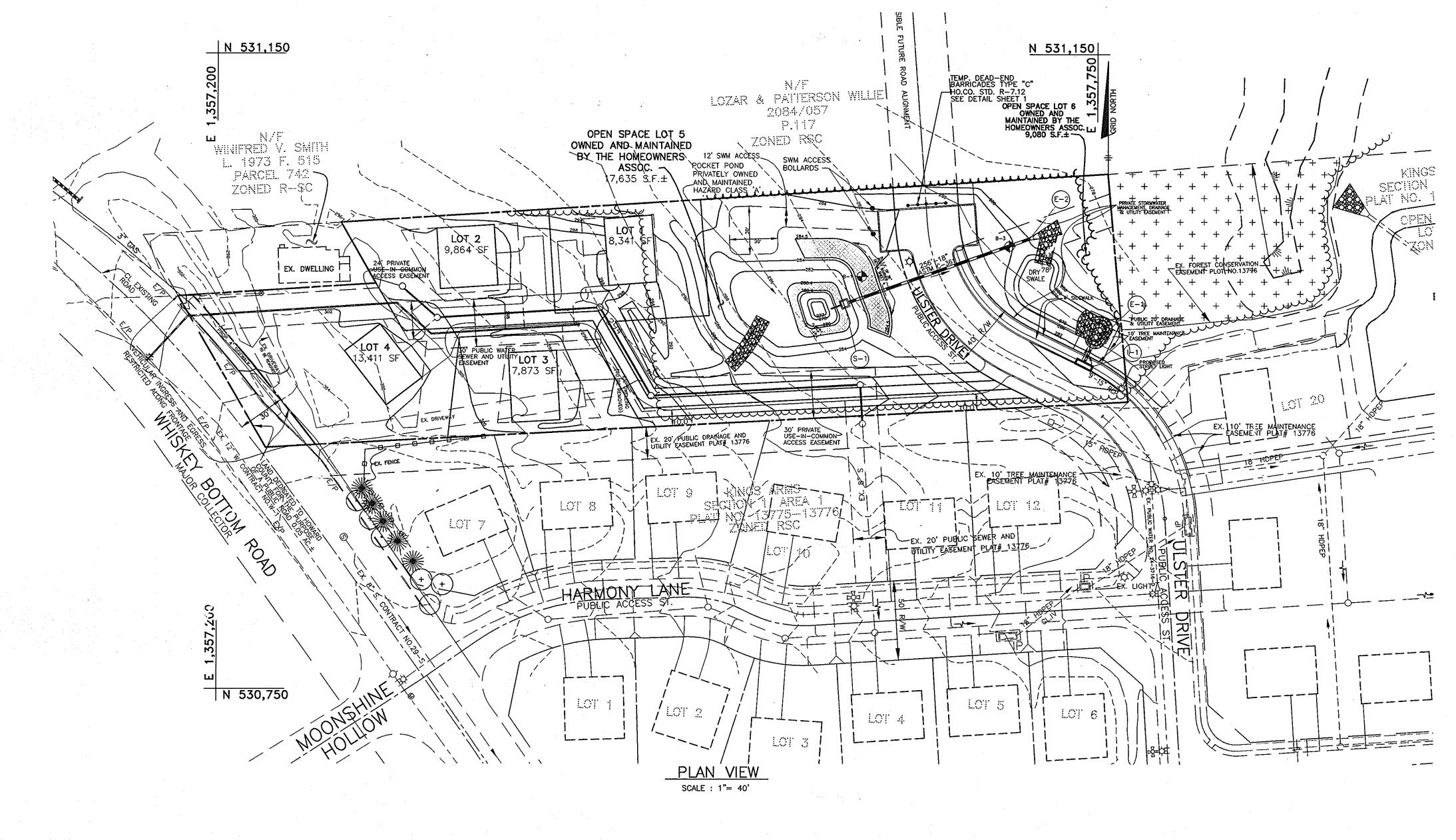






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F-07-069



MAP SYMBOL	SOIL TYPE	MAPPING UNIT
Ev8	A	EVESBORO LOAMY SAND - 1 TO 5 PERCENT SLOPES
Li	D	LEONARDTOWN SILT LOAM
ScD	C	SANDY AND CLAYEY LAND - MODERATELY SLOPING
BeB2	C	BELTSVILLE SILT LOAM - 1 TO 5 PERCENT SLOPES, MODERATELY ERODED
SsE	В	SASSAFRAS SOILS, 15 TO 40 PERCENT SLOPES

Eco-Science Professionals, Inc. Consulting Ecologists P.O. Bez 5006 Glen Arm, Maryland 21057

FOREST DATA

FOREST OBLIGATION WILL BE PROVIDED BY FEE-IN-LIEU IN THE AMOUNT OF \$26,790.00.

GROSS AREA:
FLOODPLA: 1/UNFORESTED PRESERVATION
PARCEL:
NET TRACT AREA (NTA):
EXISTING FOREST (NTA):
AFFORESTATION THRESHOLD:
CONSERVATION THRESHOLD:
RREAK—EVEN POINT:

BREAK-EVEN POINT:

FOREST OBLIGATION:

FOREST TO BE CLEARED (NTA) : FOREST TO BE RETAINED (NTA) :

ACRES

0.9 0.26 0.34 0.45

0.9

0.82

MD DNR Qualified Professional USACOE Wetland Delineator Certification # WDCP93MD0610044B2

FOREST CONSERVATION WORKSHEET' VERSION 1.0 NET TRACT AREA A. TOTAL TRACT AREA. B. AREA WITHIN 100 YEAR FLOOD PLAIN . 0.00 AC.± C. AREA TO REMAIN IN AGRICULTURAL PRODUCTION 0.00 AC.± D. NET TRACT AREA . LAND USE CATEGORY (FROM TABLE 3.2.1, PAGE 40, MANUAL) INPUT THE NUMBER "1" UNDER THE APPROPRIATE LAND USE ZONING, AND LIMIT TO ONLY ONE ENTRY. MPD CIA E. AFFORESTATION THRESHOLD (15% \times D =). .0.26 AC.± F. CONSERVATION THRESHOLD (20% x D =) .0.34 AC.± EXISTING FOREST COVER G. EXISTING FOREST COVER (EXCLUDING FLOODPLAIN). .0.90 AC.± . 0.65 AC.± .0.56 AC.± BREAK EVEN POINT J. FOREST RETENTION ABOVE THRESHOLD WITH NO MITIGATION . ..0.14 AC.± K. CLEARING PERMITTED WITHOUT MITIGATION... ..0.45 AC.± PROPOSED FOREST CLEARING L. TOTAL AREA OF FOREST TO BE CLEARED (CANNOT EXCEED EXIST.) ... 0.90 AC.± M. TOTAL AREA OF FOREST TO BE RETAINED ... PLANTING REQUIREMENTS N. REFORESTATION FOR CLEARING ABOVE CONSERVATION THRESHOLD.... 0.45 AC.± P. REFORESTATION FOR CLEARING BELOW CONSERVATION THRESHOLD.... 0.68 AC.± Q. CREDIT FOR RETENTION ABOVE CONSERVATION THRESHOLD. , . 0.00 AC.± R. TOTAL REFORESTATION REQUIRED. . 0.82 AC.± S. TOTAL AFFORESTATION REQUIRED... . 0.00 AC.± T. TOTAL REFORESTATION AND AFFORESTATION REQUIRED. . 0.82 AC.±

DATE REVISION BENCHMARK ENGINEERS & LAND SURVEYORS & PLANNERS ENGINEERING, INC. 8480 BALTIMORE NATIONAL PIKE ▲ SUITE 418 ELLICOTT CITY, MARYLAND 21043 PHONE: 410-465-6105 FAX: 410-465-6644 E-MAIL: bei@bei-civilengineering.com WEB: www.bei-civilengineering.com

APPROVED: DEPARTMENT OF PLANNING AND ZONING

DES: AAM

PROJECT: KINGS ARMS SECTION 3 SECURITY DEVELOPMENT, LLC TAX MAP-47, GRID NO. 22 PARCEL 741 6th ELECTION DISTRICT P.O. BOX 417 ELLICOTT CITY, MARYLAND 21041 HOWARD COUNTY, MARYLAND (410) 465-4244 FOREST CONSERVATION PLAN

> PROJECT NO. 1486 DRAFT: MAN CHECK: CAM | SCALE: AS SHOWN DRAWING 6 OF 6