SHEET INDEX DESCRIPTION TITLE SHEET GRADING, SEDIMENT AND EROSION CONTROL AND LANDSCAPE PLAN HOUSE MODELS, GENERIC BOXES AND SEDIMENT AND EROSION CONTROL NOTES AND DETAILS

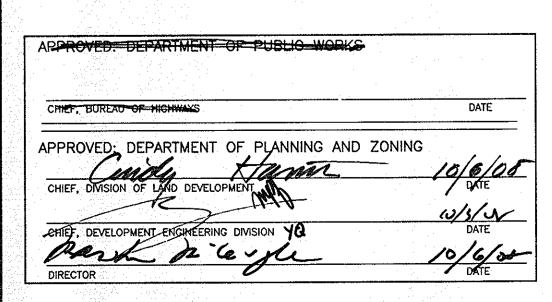
SITE DEVELOPMENT PLAN KINGS ARMS

SECTION 4 LOTS 1-9

GENERAL NOTES

- 1.) THE SUBJECT PROPERTY IS ZONED R-SC PER THE 2-2-04 COMPREHENSIVE ZONING PLAN AND THE COMP LITE ZONING AMENDMENT EFFECTIVE 7-28-06.
- 2.) THE COMPRACTOR SHALL NOTIFY THE DEPARTMENT OF PUBLIC WORKS CONSTRUCTION INSPECTION DIVISION AT (410)313-1880 AT LEAST FIVE(5) WORKING DAYS PRIOR TO THE START OF WORK. 3.) THE CONTRACTOR SHALL NOTIFY "MISS UTILITY" AT 1-800-257-7777 AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION WORK.
- 4.) EXISTING TOPOGRAPHY SHOWN HEREON WAS TAKEN FROM THE GRADING PLAN UNDER F-07-068 CONTOUR INTERVAL IS 2 FEET.
- 5.) THE COORDINATES BASED ON NAD '83 MARYLAND COORDINATE SYSTEM AS PROJECTED BY HOWARD COUNTY GEODETIC CONTROL STATIONS 50BA AND 50B5.
- 6.) EXISTING UTILITIES SHOWN HAVE BEEN TAKEN FROM CONTRACT DRAWINGS #24-4434-D AND ROAD CONSTRUCTION PLANS F-07-068. IF NECESSARY, CONTRACTOR SHALL ADJUST ANY OR ALL
- 7.) STORM WATER MANAGEMENT PROVIDED BY POCKET POND AND GRASSED SWALE. THE FACILITY IS HAZARD
- CLASSIFICATION 'A' UNDER APPROVED FINAL PLAN F-07-068. 8.) ANY DAMAGE TO THE COUNTY'S RIGHT-OF-WAY SHALL BE CORRECTED AT THE BUILDER'S AND/OR
- DEVELOPER'S EXPENSE.
- 9.) SHC ELEVATION SHOWN ARE LOCATED AT THE PROPERTY LINE. 10.) 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
- 11.) DRIVEWAYS SHALL BE PROVIDED PRIOR TO ISSUANCE OF A USE AND OCCUPANCY PERMIT FOR ANY NEW DWELLINGS 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. C) GEOMETRY - MAX. :5% GRADE, MAX. 10% GRADE CHANGE & MIN. 45' TURNING RADIUS.
 - D) STRUCTURES(CULVERTS/BRIDGES) CAPABLE OF SUPPORTING 25 GROSS TONS (H25 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
- 12.) THERE ARE NO STREAMS, STREAM BUFFERS OR 100-YEAR FLOODPLAIN LOCATED ON THESE LOTS.
- 13.) 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
- 14.) WOB INDICATES WALKOUT BASEMENT.
- 15.) THE STAKING OF FOUNDATIONS PRIOR TO CONSTRUCTION TO ENSURE COMPLIANCE WITH REGULATORY BUILDING RESTRICTION LINES IS RECOMMENDED.
- 16.) "BRL" INDICATES BUILDING RESTRICTION LINE.
- 17.) FOR DRIVEWAY ENTRANCE DETAIL SEE FOWARD COUNTY STANDARD DETAILS R-6.03.
- 18.) HOUSES/GARAGES WILL BE SITED ON LOTS SO THAT A SECOND CAR, IF PARKED IN THE DRIVEWAY, WILL NOT OVERHANG INTO THE SHARED DRIVEWAY (18' MINIMUM CLEARANCE). 19.) DRIVEWAY SLOPES SHOWN ARE AVERAGE. THE SLOPE AT THE OUTSIDE EDGES COULD BE FLATTER OR
- STEEPER DEPENDING ON GRADE OF POADWAY. 20.) THIS PLAN CONFORMS WITH THE AMENDED 5th EDITION OF THE HOWARD COUNTY SUBDIVISION AND LAND
- DEVELOPMENT REGULATIONS. THE DEVELOPER SHALL APPLY FOR BUILDING PERMITS FOR ALL LOTS AS SHOWN ON THIS SITE DEVELOPMENT PLAN WITHIN FIVE YEARS OF SIGNATURE APPROVAL OF THIS PLAN.
- 21.) STREET TREES HAVE BEEN PROVIDED IN ACCORDANCE WITH THE APPROVED ROAD CONSTRUCTION DRAWINGS (F-07-068). SURETY HAS BEEN POSTED WITH THE DEVELOPER'S AGREEMENT.
- 22.) PERIMETER AND STORM WATER MANAGEMENT LANDSCAPING IN ACCORDANCE WITH SECTION 16.124 OF THE HOWARD COUNTY CODE AND LANDSCAPE MANUAL WAS PROVIDED AS SHOWN ON THE LANDSCAPE PLAN SHEETS OF THE ROAD CONSTRUCTION DRAWINGS FOR THIS PROJECT. SURETY FOR THE REQUIRED LANDSCAPING HAS BEEN POSTED AS PART OF THE DPW
- DEVELOPER'S AGREEMENT UNDER THE FINAL PLAN (F-07-068) IN THE AMOUNT OF \$10,050 (\$7,500 FOR 25 SHADE TREES,
- 23.) THIS SITE DEVELOPMENT PLAN HAS BEEN PREPARED TO BE IN ACCORDANCE WITH THE PROVISIONS OF SECTION 16.124 OF THE HOWARD COUNTY CODE AND THE LANDSCAPE MANUAL. SURETY IN THE AMOUNT OF \$900.00 (\$600.00 FOR 2 SHADE TREES AND \$300.00 FOR 2 EVERGREEN TREES) SHALL BE POSTED WITH THE BUILDER'S GRADING PERMIT FOR LOT 9.
- 24.) THE TOTAL FOREST CONSERVATION OBLIGATION AMOUNT FOR THIS PROJECT OF 1.39 AC WAS ADDRESSED BY THE ON-SITE RETENTION OF 1.63 AC UNDER THE FINAL PLAN (F-07-068).
- 25.) 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
- 26.) ALL WATER METERS SHALL BE LOCATED INSIDE.
- 27.) A DRIVEWAY MAINTENANCE AGREEMENT FOR THE USE-IN-COMMON DRIVEWAY SHARED BY LOTS 4, 5 & 6 WAS RECORDED AMONG THE LAND RECORDS OF HOWARD COUNTY, MARYLAND IN LIBER 11341/FOLIO 340, DATED MAY 12,
- 28.) THE FOREST CONSERVATION EASEMENT WITHIN THE OPEN SPACE AREA FOR THIS DEVELOPMENT HAS BEEN ESTABLISHED TO FULLFILL THE REQUIREMENTS OF SECTION 16.1200 OF THE HOWARD COUNTY CODE AND THE FOREST CONSERVATION MANUAL. NO CLEARING, GRADING OR CONSTRUCTION IS PERMITTED WITHIN THE FOREST CONSERVATION EASEMENT. HOWEVER, FOREST MANAGEMENT PRACTICES AS DEFINED IN THE DED OF FOREST CONSERVATION

and the second second			
	MINIMUM LO	OT SIZE CHA	ART
LOT NO	O. GROSS AREA	PIPESTEM AREA	MIN. LOT SIZE
2	10,743 S.F.	2,191 S.F.	8,552 S.F.
4	7,934 S.F.	714 S.F.	7,220 S.F.
5	8,689 S.F.	659 S.F.	8,030 S.F.
6	6,653 S.F.	91 S.F.	6,562 S.F.





BENCH MARKS-(NAD'83) STANDARD DISC ON CONC. MONUMENT N 527561.6702 E 1359772.5936 HO. CO. #50B5 EL.178.242 STANDARD DISC ON CONC. MONUMENT N 524999.3640 E 1357925.6751

ADC MAP 19 GRID K-10

VICINITY MAP SCALE: 1" = 2000

SITE ANALYSIS DATA CHART

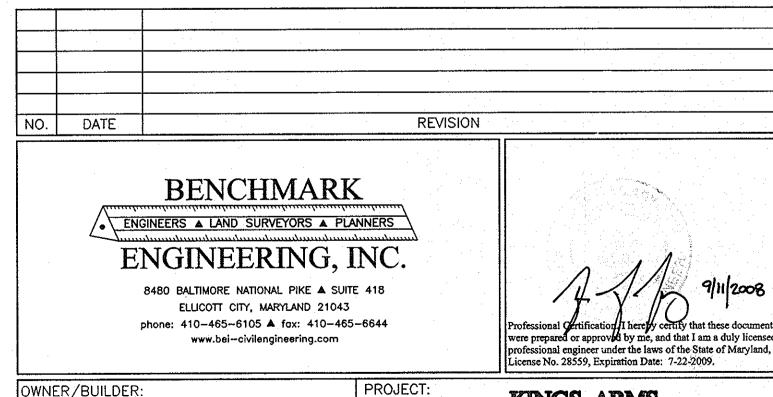
GENERAL SITE DATA	
1.) PRESENT ZONING:	R-SC
2.) APPLICABLE DPZ FILE REFERENCES:	F-07-68, F-89-75, WP-89-42, SP-05-10
3.) PROPOSED USE OF SITE:	RESIDENTIAL
4.) PROPOSED WATER AND SEWER SYSTEMS:	(SFD) PUBLIC
AREA TABULATION	
1.) GROSS TRACT AREA	. 1.59 AC.±
2.) AREA WITHIN 100-YEAR FLOODPLAIN	. 0.00 AC.±
3.) TOTAL AREA OF 25% OR GREATER STEEP SLOPES AREA NOT IN FLOODPLAIN (FOR NTA CALC)	0.00 AC.± 0.00 AC.±
4.) TOTAL NUMBER OF RESIDENTIAL UNITS/LOTS PROPOSED ON THIS SUBMISSION	9
5.) AREA OF ROAD RIGHT-OF-WAY	_ 0.00 AC.±

6.) AREA OF RECREATIONAL OPEN SPACE REQUIRED ____NA

ADDRESS CHART				
LOT	STREET ADDRESS			
1	9303 HOLLY BROTHERS COURT			
2	9307 HOLLY BROTHERS COURT			
3	9311 HOLLY BROTHERS COURT			
4	9315 HOLLY BROTHERS COURT			
- 5	9319 HOLLY BROTHERS COURT			
6	9323 HOLLY BROTHERS COURT			
7	9327 HOLLY BROTHERS COURT			
8	9326 HOLLY BROTHERS COURT			
9	9310 HOLLY BROTHERS COURT			

SHC TABLE			
LOT NO.	MIN. CELLAR	SHC INV.	
1	272.52	268.70	
2	275.71	269.84	
3	274.20	269.85	
4	279.23	275.29	
5	279.34	275.32	
6	277.79	273.69	
7	276.60	272.50	
8	275.89	272.04	
9	273.56	269.62	

CONTRACTOR TO CHECK SEWER HOUSE CONNECTION ELEVATION AT PROPERTY/EASEMENT LINE PRIOR TO CONSTRUCTION OF HOUSE TO ENSURE PROPER SHC SLOPES CAN BE MAINTAINED.



RYAN HOMES 6085 MARSHALEE DRIVE ELKRIDGE, MD 21075 410.796.0980

DESIGN: BFC DRAFT: BFC CHECK: JC

ELECTION DISTRICT

SIXTH

6069.02

TAX MAP

GRID No. ZONE

22

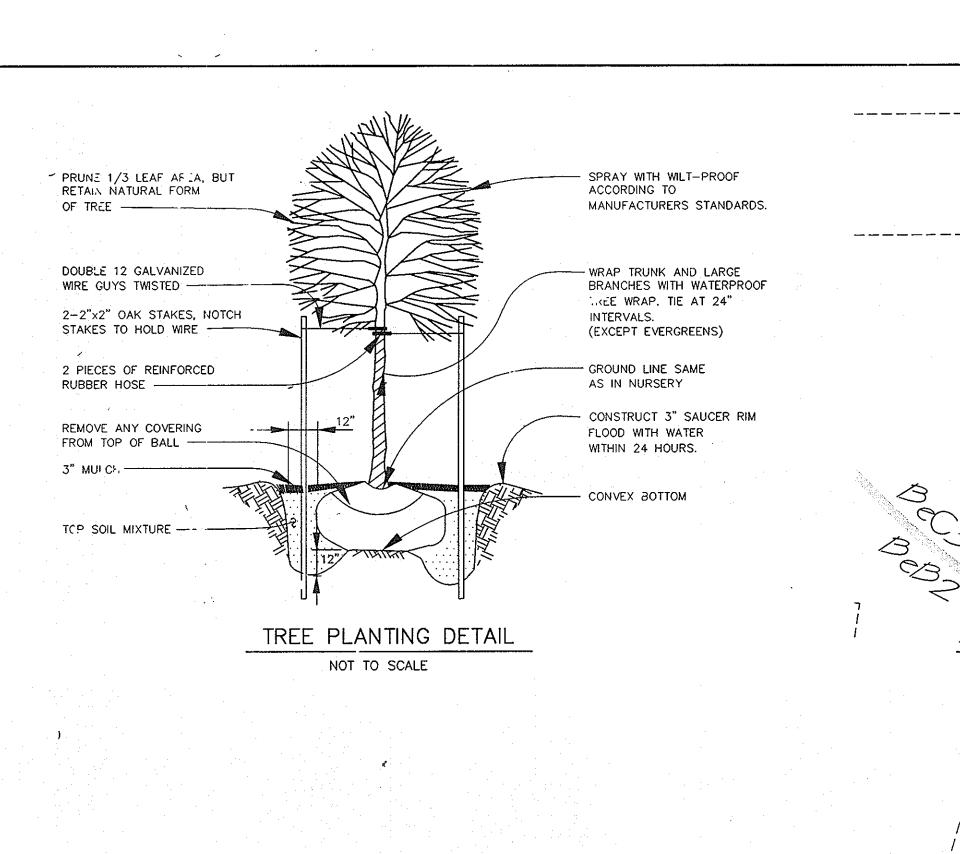
WATER CODE

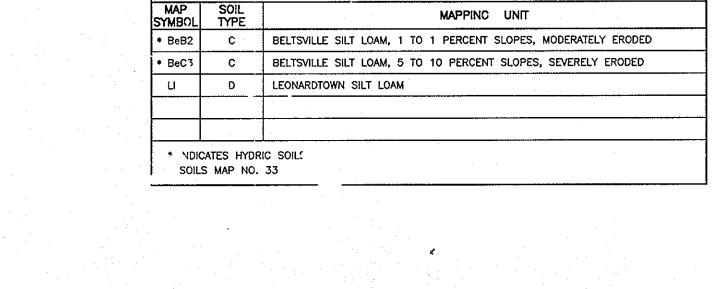
KINGS ARMS SECTION 4 LOTS 1-9

PARCELS: 176 ZONED: R-SC ELECTION DISTRICT NO. 6 HOWARD COUNTY, MARYLAND TITLE: SITE DEVELOPMENT PLAN TITLE SHEET PROJECT NO. 2129

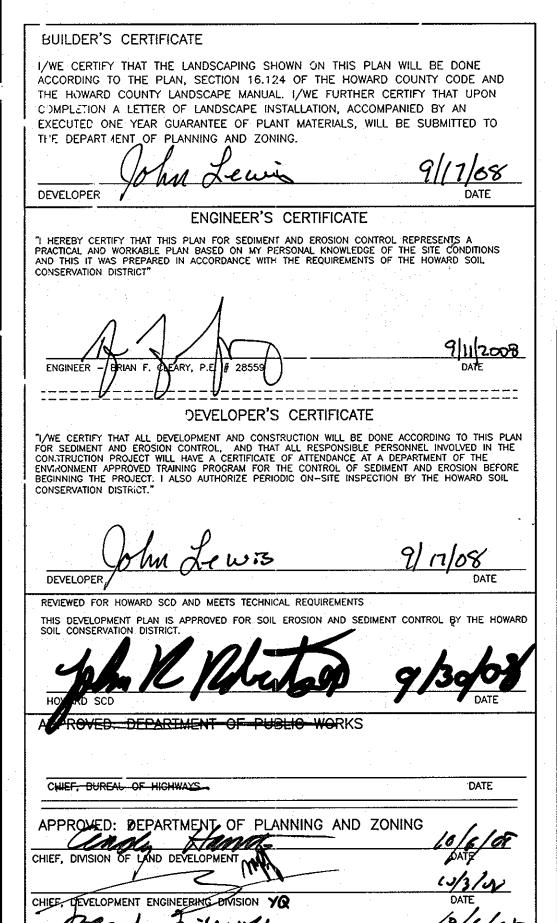
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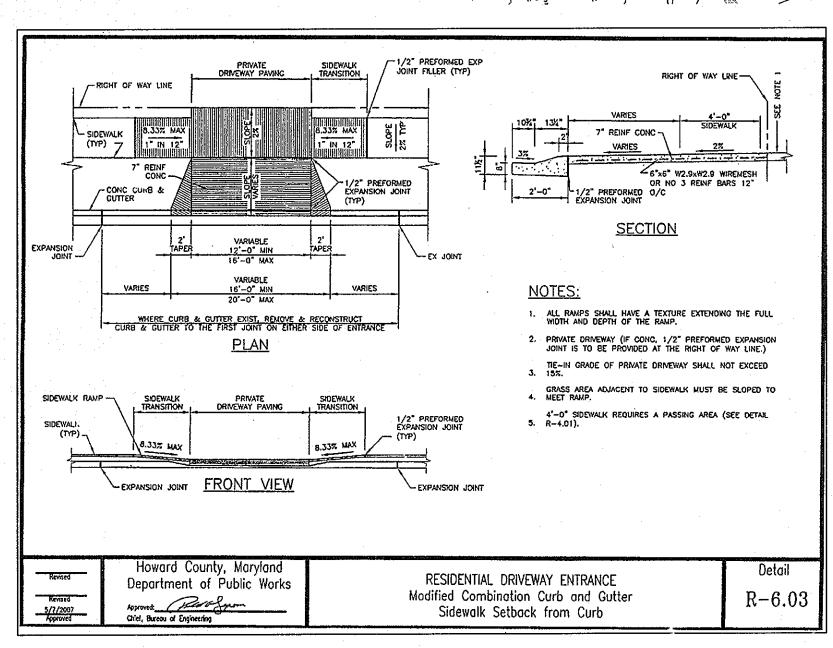




SOILS LEGEND



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		SCHEDULE LANDSCAF			
CATEGORY		ADJ. TO ROADWAYS	TOTAL		
			(1)		
LANDSCAPE	TYPE		В		
LINEAR FEET OF ROADWAY FRONTAGE/PERIMETER			80*	80'	
CREDIT FOR EXISTING VEGETATION (YES, NO, LINEAR FEET) (DESCRIBE BELOW IF NEEDED)		NO			
CREDIT FOR WALL, FENCE OR BERM (YES, NO, LINEAR FEET) (DESCRIBE BELOW IF NEEDED)		NO			
NUMBER OF PLANTS REQUIRED		80'	80°		
SHADE TREES EVERGREEN TREES			2 2	2 2	
OTHER TREES (2:1 SUBSTITUTE) SHRUBS			- 		
	LANDS	CAPE PLA	ANTING LI	<u>SI - </u>	
SYMBOL	QUANTITY	NAME		REM	ARKS
-N//-	ĺ	PINUS S	TRABILE		

SECTION 1, AREA LOT 1

PLAT NO. \$143

<u>6,0</u>80, S.f. FF=288.51

BF≈279.90

ZONED: R-SC

KITCHEN/DINETTE

EXISTING CONCRETE DRIVE

LOT

6,991 S.F. FF=287.21 BF = 278.60

MCE = 272.52

-EXTENSION

FAMILY ROOM

BF=282.40 MCE=279.7

AJIMATANRAREJĖ

EXTENSION

LANDSCAPE PLANTING LIST			
SYMBOL	QUANTITY	NAME	REMARKS
**	2	PINUS STROBUS (Eastern White Pine)	6' - 8' ht.
	2	TILIA CORDATA 'GREENSPIRE' (Greenspire Litteleof Linden)	2-1/2" - 3"cal.

SCALE: 1" = 30'3 10-9-09 REVISE GRADES & SPOT ELEV. ON LOT 5 TO REFLECT AS-BUILT CONDITIONS 2 9-1-09 REVISE GRADES & SPOT ELEV. ON LOT 7 TO REFLECT AS-BUILT CONDITIONS 6-3-09 REVISE LOT 5 TO SHOW A SAVOY AND REVISE GRADES 1. THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH THE PROVISIONS OF SECTION 16.124 OF THE HOWARD COUNTY CODE AND THE LANDSCAPE MANUAL NO. DATE 2. TREES MUST BE PLANTED A MINIMUM OF 4 FEET FROM THE EDGE OF PAVING, 10' FROM A DRIVEWAY AND MUST BE A MINIMUM OF 5 FEET FROM ANY STORM DRAIN. 3. ALL PLANTINGS ARE THE RESPONSIBILITY OF THE BUILDER. **BENCHMARK** 4. FINANCIAL SURETY FOR PERIMETER LANDSCAPING, INTERNAL PARKING AND STORM WATER MANAGEMENT FOR 2 SHADE TREES AND 2 EVERGREENS SHALL BE PO\$TED WITH THE GRADING PERMIT FOR THIS PROJECT IN THE AMOUNT OF \$900.00 (\$600 FOR 2 SHADE TREES AND \$300

CURRY PROYER

-- PAT-674

ZONED R\$C

RYE LO

SECTION 1, AREA LOT

I PLAT NO. 18143

PMEOWNERS KSSOC. OPEN SPACE

-FEW-872

ZONED RSÖ

ZONED: RISC

TURN

AROUND

EXISTING DIRT DRIVE

BF=278.40

MCE = 275.89

EX. 20' PUBLIC STORM

DRAIN AND UTLITY EASEMENT (PER PLAT #

KINGS ARMS SECTION 4 LOT 11 DEDICATED TO HOWARD COUNTY, MARYLAND AND MAINININED BY THE

DEPARIMENT OF RECREATION AND

COUNTY! MARYLAND AND

5. MATURE TREE HEIGHTS OF PLANTED TREES SHALL NOT EXCEED THE EQUIVALENT DISTANCE AS MEASURED FROM THE BASE OF THE TREE TO THE CENTER LINE OF ANY STEEL TOWER

6. THE OWNER, TENANT AND/OR THEIR AGENTS SHALL BE RESPONSIBLE FOR MAINTENANCE OF THE

NEW MATERIALS TO ENSURE CONTINUED COMPLIANCE WITH APPLICABLE REGULATIONS. ALL

7. NO CLEARING OF EXISTING VEGETATION IS PERMITTED WITHIN THE LANDSCAPE EDGE FOR WHICH

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

8. AT THE TIME OF INSTALLMENT, ALL SHRUBS AND OTHER PLANTINGS HEREWITH LISTED AND

WITH THE HOWARD COUNTY LANDSCAPE MANUAL. IN ADDITION, NO SUBSTITUTIONS OR

CREDIT IS BEING TAKEN; HOWEVER, LANDSCAPE MAINTENANCE IS AUTHORIZED.

REQUIRED LANDSCAPING, PLANT MATERIALS, BERMS, FENCES AND WALLS. ALL PLANT MATERIALS

SHALL BE MAINTAINED IN GOOD GROWING CONDITION AND WHEN NECE\$SARY, REPLACED WITH

REQUIRED LANDSCAPING SHALL BE PERMANENTLY MAINTAINED IN GOOD CONDITION, AND WHEN

APPROVED FOR THIS SITE SHALL BE OF THE PROPER HEIGHT REQUIREMENTS IN ACCORDANCE

SITE PLAN

NECESSARY, REPAIRED OR REPLACED.

APPLICABLE PLANS AND CERTIFICATES.

STRUCTURE.

/ PARKS (PLAT #20126)

ENGINEERS A LAND SURVEYORS A PLANNERS ENGINEERING, INC.

ZONED RSC

EASEMENI #X

(RETENTION 1.63 AC)

(PER RLAT # 20126)

PETER B. W

LEGEND

المساملة المراجع فيم فيوالمدالية الأ

 \mathcal{C}

PER F-03-134

PROPOSED CONTOURS

EXISTING TREELINE

INDICATES A WALKOUT PASEMENT

STABILIZED CONSTRUCTION ENTRANCE

EROSION CONTROL MATTING

SOILS TYPE

SOILS DELINEATION LINE

EXISTING LANDSCAPING

EXISTING FOREST CONSERVATION

EXISTING SIDEWALK PER F-07-068

EXISTING FOREST CONSERVATION SIGNAGE

EXISTING STRE T LICEN PROVIDED PER F-07--00

8480 BALTIMORE NATIONAL PIKE A SUITE 418 ELLICOTT CITY, MARYLAND 21043 phone: 410-465-6105 ▲ fax: 410-465-5644 www.bei--civilengineering.com

DESIGN: RFC DRAFT: BFC CHECK: JC

were prepared or approved by me, and that I am a duly licens: professional engineer under the laws of the State of Maryland, License No. 28559, Expiration Date: 7-22-2009.

OWNER/BUILDER: RYAN HOMES 6085 MARSHALEE DRIVE SUITE 140 ELKRIDGE, MD 21075 410.796.0980

SECTION 4 LOTS 1-9 PARCELS: 176 ZONED: R-SC ELECTION DISTRICT NO. 6 HOWARD COUNTY, MARYLAND GRADING, SEDIMENT AND EROSION CONTROL AND LANDSCAPE PLAN PROJECT NO. 2129

SCALE: AS SHOWN

KINGS ARMS

SDP-08-124

SHEET <u>2</u> 5- 3

1592 cy TOTAL CUT ____2666____c_Y * OFFSITE WASTE/BORROW AREA LOCATION *IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO IDENTIFY THE SPOIL/BORROW SITE AND NOTIFY AND GAIN APPROVAL FROM THE SEDIMENT CONTROL INSPECTOR OF THE SITE AND ITS GRADING PERMIT NUMBER AT THE TIME OD CONSTRUCTION. ** THE ARE DISTURBED INCLUDES PORTIONS OF OPEN SPACE LOT 10 FOR GRADING 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. 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 PERMETER 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 TRENCHES FOR THE CONSTRUCTION OF UTILITIES IS LIMITED TO THREE PIPE LENGTHS OR THAT WHICH CAN BE BACK FILLED AND STABILIZED WITHIN ONE WORKING DAY, WHICHEVER IS SHORTER. 12. AT THE DIRECTION OF THE SEDIMENT CONTPOL INSPECTOR, AN ADDITIONAL ROW OF "SUPER" SILT FENCE IS TO BE PLACED AT THE EASTERN LO.D. PERMANENT SEEDBED PREPARATIONS SCHEDULES: SCHEDULES: SEEDBED PREPARATION: LOOSEN UPPER THREE INCHES OF SOIL BY RAKING, DISCING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING, IF NOT PREVIOUSLY LOOSENED. SOIL AMENDMENTS: IN LIEU OF SOIL TEST RECOMMENDATIONS, USE ON OF THE FOLLOWING PREFERRED - APPLY 2 TONS PER ACRE DOLOMITIC LIMESTONE (92 LBS/1000 SQ FT) AND 600 LBS PER ACRE 10-10-10 FERTILIZER (14 LBS/1000 SQ FT) BEFORE SEEDING. HARROW OR DISC INTO UPPER THREE INCHES OF SOIL. AT TIME OF SEEDING, APPLY 400 LBS PER ACRE 30-0-0- UREAFORM FERTILIZER ACCEPTABLE - APPLY 2 TONS PER ACRE DOLOMITIC LIMESTONE (92 LBS/1000 SQ FT) AND 1000 LBS PER ACRE 10-10-10 FERTILIZER (23 LBS/1000 SQ FT) BEFORE SEEDING, HARROW OR DISC INTO UPPER THREE INCHES OF SOIL. 15, SEED WITH 60 LBS PER ACRE (1.4 LES/1000 SQ FT) OF KENTUCKY 31 TALL FESCUE PER ACRE AND 2 LBS PER ACRE (.05 LBS/1000 SQ FT) OF WEEPING LOVEGRASS. DURING THE PEPIND OF GCTOBER 16 THROUGH FEBRUARY 28, PROTECT SITE BY: OPTION (1) 2 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 LBS PER ACRE OF KENTUCKY 31 TALL FESCUE AND MULCH WITH 2 TONS PER ACRE OF WELL ANCHORED STRAW. MULCHING: APPLY 1-1/2 TO 2 TONS PER ACRE (70 TO 90 LBS/1000 SQ FT) OF UNROTTED SMALL GRAIN STRAW IMMEDIATELY AFTER SEEDING, ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORING TOOL OR 218 GALLONS PER ACRE (5 GAL/1000 SQ LOSE). FT) OF EMULSIFIED ASPHALT ON FLAT AREAS. ON SLOPES 8 FEET OR HIGHER, USE 348 GALLONS PER ACRE (8 GAL/1000 SQ FT) FOR ANCHORING. MAINTENANCE: INSPECT ALL SEEDED AREA. NO MAKE NEEDED REPAIRS, REPLACEMENTS AND 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 THIS IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL 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 INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT." DEPARTMENT OF PUBLIC WORKS CHIEF BUREAU OF HIGHWAYS APPROVED: DEPARTMENT OF PLANNING AND ZONING DATE CHIEF, DEVELOPMENT ENGINEERING DIVISION YO 10/6/17 DATE P:\2129-Kings Arm-4\dwg\802326.dwg, 9/17/2008 8:33:33 AM, Oos TDS600 HDT-36-ORIG.pc3

SEDIMENT CONTROL NOTES

A MINIMUM OF 24 HOURS NOTICE MUST BE GIVEN TO THE HOWARD COUNTY DEPARTMENT OF INSPECTION, LICENSES AND PERMITS, SEDIMENT CONTROL DIVISION PRIOR TO THE START OF ANY CONSTRUCTION, (313-1850).

ALL VEGETATIVE AND STRUCTURAL PRACTICES ARE TO BE INSTALLED ACCORDING TO THE PROVISIONS OF THIS PLAN AND ARE TO BE IN CONFORMANCE WITH THE MOST CURRENT "MARYLAND STANDARDS AND SPECIFICATION FOR SOIL EROSION AND SEDIMENT

FOLLOWING INITIAL SOIL DISTURBANCE OR REDISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN: A) 7 CALENDAR DAYS FOR ALL PERIMETER SEDIMENT CONTROL STRUCTURES, DIKES, PERIMETER SLOPES AND ALL SLOPES GREATER THAN 3:1, B) 14 DAYS AS TO ALL OTHER DISTURBED OR GRADED

ALL SEDIMENT TRAPS/BASINS SHOWN MUST BE FENCED AND WARNING SIGNS POSTED AROUND THEIR PERIMETER IN ACCORDANCE WITH VOL. 1, CHAPTER 12, OF THE HOWARD

ABOVE IN ACCORDANCE WITH THE 1994 MARYLAND STANDARDS AND SPECIFICATIONS

FOR SOIL EROSION AND SEDIMENT CONTROL FOR PERMANENT SEEDINGS (SEC. 51) SOD

(SEC. 54), TEMPORARY SEEDING (SEC. 50) AND MULCHING (SEC. 52), TEMPORARY STABILIZATION WITH MULCH ALONE CAN ONLY BE DONE WHEN RECOMMENDED SEEDING

1.59

1.61**

0.60 ACRES

______O.99_____ACRES

_ ACRES

___ ACRES

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.

TOTAL AREA OF SITE (THIS SUBMISSION)

AREA TO BE VEGETATIVELY STABILIZED

AREA TO BE ROOFED OR PAVED

ALL DISTURBED AREAS MUST BE STABILIZED WITHIN THE TIME PERIOD SPECIFIED

AREAS ON THE PROJECT SITE.

AREA DISTURBED

30.0 DUST CONTROL

Controlling dust blowing and movement on construction sites and roads.

To prevent blowing and movement of dust from exposed soil surfaces, reduce on and off-site lamage, health hazards, and improve traffic safety.

Conditions Where Practice Applies

This practice is applicable to areas subject to dust blowing and movement where on and off-site damage is likely without treatment.

Temporary Methods

1. Mulches - See standards for vegetative stabilization with mulches only. Mulch should be crimped or tracked to prevent blowing.

2. Vegetative Cover - See standards for temporary vegetative cover. 3. Tillage — To roughen surface and bring clods to the surface. This is an emergency measure which should be used before soil blowing starts. Begin plowing on windward side of site. Chisel—type plows spaced about 12" apart, spring—toothed harrows, and similar plows are examples of equipment which may produce the desired effect.

Irrigation — This is generally done as an emergency treatment. Site is sprinkled with water until the surface is moist. Repeat as needed. At no time should the site be irrigated to the point that runoff begins to flow.

Barriers - Solid board fences, silt fences, snow fences, burlap fences, straw bales, and similar material can be used to control air currents and soil blowing. Barriers placed at right angles to prevailing currents at intervals of about 10 times their height are effective in controlling soil blowing.

6. Calcium Chloride — Apply at rates that will keep surface moist. May need retreatment. Permanent Methods

1. Permanent Vegetation — See standards for permanent vegetative cover, and permanent

stabilization with sod. Existing trees or large shrubs may afford valuable protection if left in place. 2. Topsoiling - Covering with less erosive soil materials. See standards for topsoiling.

References Agriculture Handbook 346. Wind Erosion Forces in the United States and Their Use in Predicting Soil Loss. 2. Agriculture Information Bulletin 354. How to Control Wind Erosion, USDA-ARS.

3. Stone - Cover surface with crushed stone or coarse gravel.

Topsoil salvaged from the existing site may be used provided that it meets that standards as 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 must meet the following: 1. 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 agronomist or soil scientist and approved by the appropriate approval authority. Regardless, topsoil shall not be a mixture of contrasting texture subsoils and shall contain less than 5% by volume of cinders, stones, slag, coarse fragments, gravel, sticks, roots, trass. or other materials larger than 1-1/2" in diameter.

 Topsoil must be free of plants or plant parts such as Bermuda grass, quack grass, Johnson grass, nutsedge, poison ivy, thistle, or others as specified. iii. Where the subsoil is either highly acidic or composed of heavy clays, 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:

Place topsoil (if required) and apply soil amendments as specified in 20.0 Vegetative Stabilization — Section I — Vegetative Stabilization Methods and Materials.

IV. For sites having disturbed areas over 5 acres:

On soil meeting Topsoil specifications, obtain test results dictating fertilizer and lime amendments required to bring the soil into compliance with the following:

pH for topsoil shall be between 6.0 and 7.5. If the tested soil demonstrates a pH of less than 6.0, sufficient lime shall be prescribed to ruise the pH to 6.5 or higher.

b. Organic content or topsoil shall be not less than 1.5 percent by v ight.

c. Topsoil having soluble salt content greater than 500 parts per million shall

d. No sod or seed shall be placed on soil which has been treated with soil sterilants or chemicals used for weed control until sufficient time has

Note: Topsoil substitutes or amendments, as recommended by a qualified agronomist or soil scientist and approved by the appropriate approval authority, may be used in lieu of

Place topsoil (if required) and apply soil amendments as specified in 20.0 Vegetative Stabilization — Section I — Vegetative Stabilization Methods and Materials.

V. Topsoil Application

When topsoiling, maintain needed erosion and sediment control practices such as diversions, grade stabilization structures, earth dikes, slope silt fence and sediment traps and basins.

ii. Grades on the areas to be topsoiled, which have been previously established, shall be maintained, albeit 4" — 8" higher in elevation.

iii. Topsoil shall be uniformly distributed in a 4" — 8" layer and lightly compacted to a minimum thickness of 4". Spreading shall be performed in such a manner that sodding or seeding can proceed with a minimum of additional soil preparation and tillage. Any irregularities in the surface resulting from topsoiling or other operations shall be corrected in order to prevent the formation of depressions or water possible.

iv. Topsoil shall not be placed while the topsoil or subsoil is in a frozen or muddy condition, when the subsoil is excessively wet or in a condition that may otherwise be detrimental to proper grading and seedbed preparation.

VI. Alternative for Permanent Seeding — Instead of applying the full amounts of lime and commercial fertilizer, composted sludge and amendments may be applied as specified below:

Composted Sludge Material for use as a soil conditioner for sites having distributed areas over 5 acres shall be tested to prescribe amendments and for sites having disturbed areas under 5 acres shall conform to the following requirements:

a. Composted sludge shall be supplied by, or originate from, a person or persons that are permitted (at the time of acquisition of the compost) by the Maryland Department of the Environment under COMAR 26.04.06.

b. Composted sludge shall contain at least 1 percent nitrogen, 1.5 percent phosphorus, and 0.2 percent potassium and have a pH of 7.0 to 8.0. If compost does not meet these requirements, the appropriate constituents must be added to meet the requirements prior to use.

c. Composted studge shall be applied at a rate of 1 ton/1,000 square feet.

References: Guidelines Specifications, Soil Preparation and Sodding. MD-VA, Pub. #1. Cooperative Extension Service, University of Maryland and Virginia Polytechnic Institutes.

SEQUENCE OF CONSTRUCTION NOTIFY SEDIMENT CONTROL DIVISION 48 HOURS PRIOR TO START OF CONSTRUCTION

1.) OBTAIN GRADING PERMIT.

Revised 1973.

2.) INSTALL SEDIMENT CONTROLS THAT ARE NOTED TO BE INSTALLED UNDER THIS SDP. THE EXISTING CONTROLS THAT WERE INSTALLED UNDER F-07-068 THAT ARE TO REMAIN SHALL BE INSPECTED AND/OR MODIFIED AS SHOWN ON THESE PLANS TO ENSURE THEY MEET COMPLIANCE WITH SPECIFICATIONS. ANY REMAINING CONTROLS INSTALLED UNDER F-07-068 THAT WILL NOT BE UTILIZED UNDER THIS SDP SHALL BE REMOVED BY THE DEVELOPER.

DAY 9-12 3.) EXCAVATE FOR FOUNDATIONS, ROUGH GRADE AND STABILIZE IN ACCORDANCE WITH

DAY 13-60 4.) CONSTRUCT HOUSES, BACKFILL AND CONSTRUCT DRIVEWAYS

DAY 61-64 5.) FINAL GRADE AND STABILIZE IN ACCORDANCE WITH PERMANENT SEEDBED NOTES AND

DAY 65-68 6.) WITH THE APPROVAL OF THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR, REMOVE SEDIMENT CONTROL DEVICES AND STABILIZE ANY REMAINING DITURBED AREAS.

NOTE: 1. SEDIMENT CONTROL LOCATION AND IMPLEMENTATION SHOWN ON THESE PLANS IS SUBJECT TO REVISION IN THE FIELD AT THE DISCRETION OF THE SEDIMENT CONTROL INSPECTOR.

EROSION CONTROL MATTING SHALL BE PLACED IN SWALES WHERE DEEMED NECESSARY UNTIL VEGETATION IS ESTABLISHED OR SOLID SOD SHOULD BE USED.

NOTE: EROSION CONTROL MATTING SHALL BE PLACED IN SWALES WHERE DEEMED NECESSARY UNTIL VEGETATION IS ESTABLISHED OR SOLID SOD SHOULD BE USED.

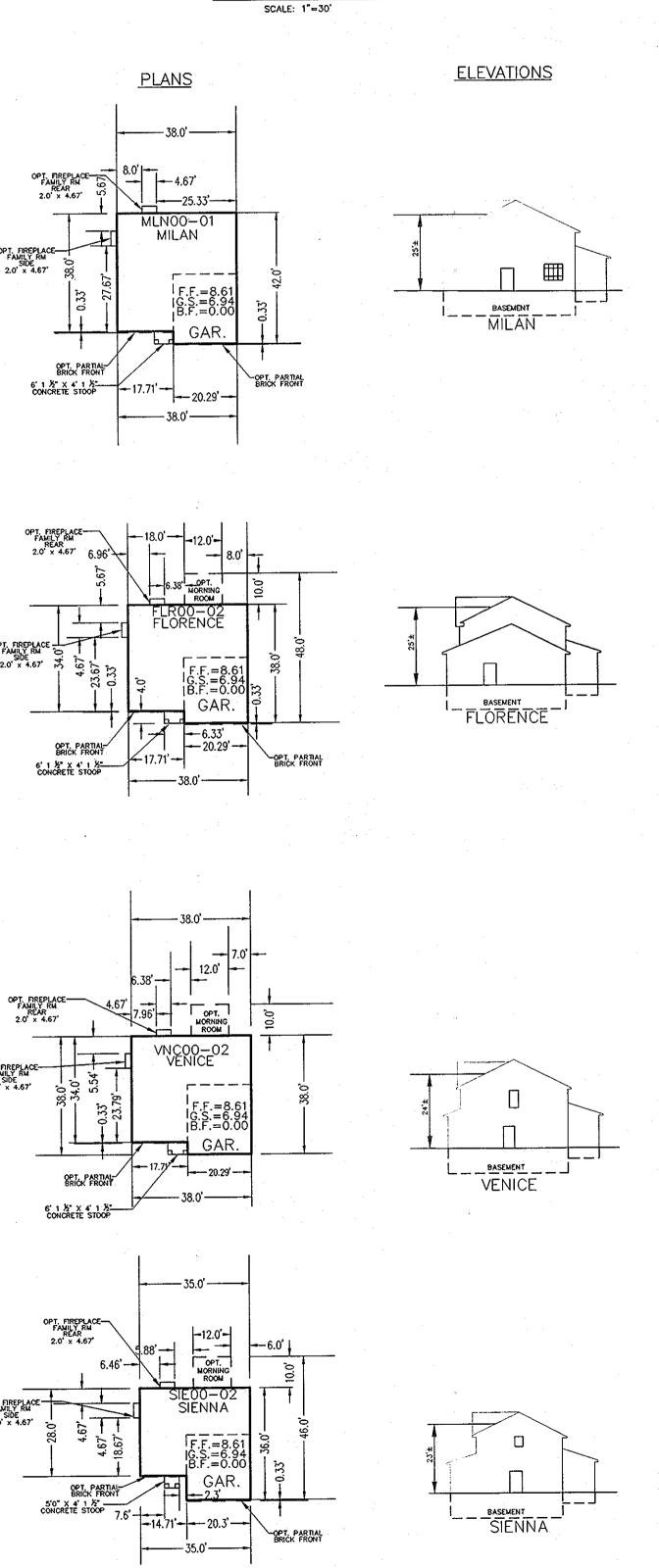
TEMPORARY SEEDBED PREPARATIONS

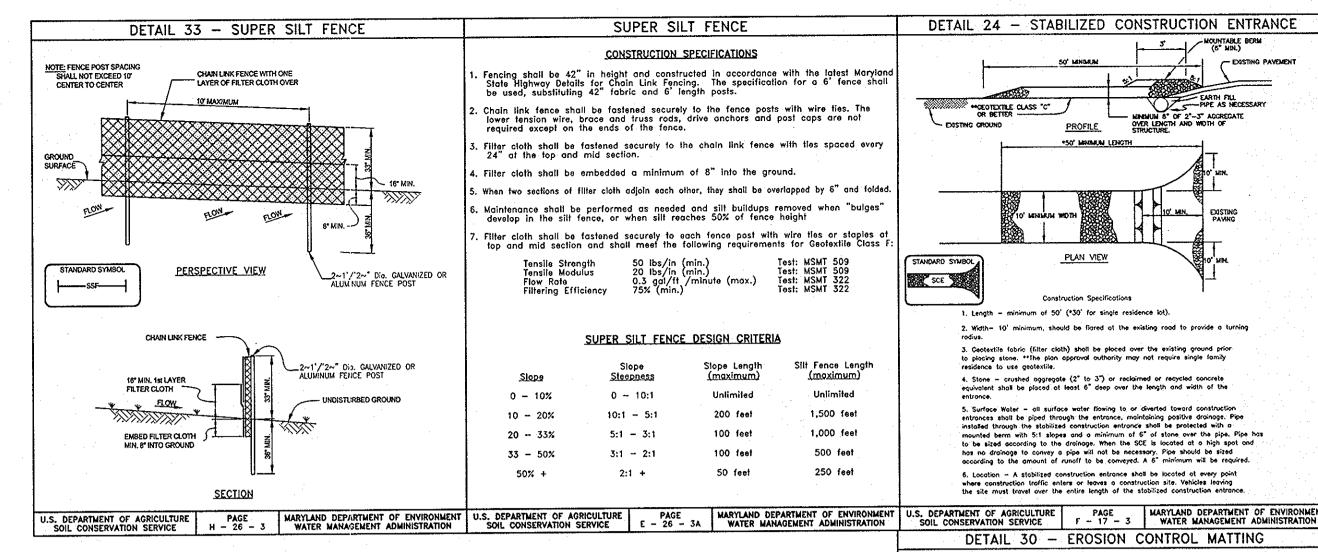
APPLY TO GRADED OR CLEARED AREAS LIKELY TO BE REDISTURBED WHERE A SHORT-TERM VEGETATIVE COVER IS NEEDED. SEEDBED PREPARATION: LOOSEN UPPER THREE INCHES OF SOIL BY RAKING, DISCING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING, IF NOT PREVIOUSLY LOOSENED. SOIL AMENDMENTS: APPLY 600 LBS PER ACRE 10-10-10 FERTILIZER (14 LBS/1000 SQ FT). EEDING: FOR PERIOD MARCH 1 THROUGH APRIL 30 AND FROM AUGUST 15 THROUGH NOVEMBER 15, SEED WITH 2-1/2 BUSHELS PER ACRE OF ANNUAL RYE (3.2 LBS/1000 SQ FT). FOR THE PERIOD MAY 1 THROUGH AUGUST 14, SEED WITH 3 LBS PER ACRE OF WEEPING LOVEGRASS (.07 LBS/1000 SQ FT). FOR THE PERIOD NOVEMBER 16 THROUGH FEBRUARY 28, PROTECT SITE BY APPLYING 2 TONS PER ACRE OF WELL ANCHORED STRAW MULCH AND SEED AS SOON MULCHING: APPLY 1-1/2 TO 2 TONS PER ACRE (70 TO 90 LBS/1000 SQ FT) OF UNROTTED MULCHING: AFFER AFFER AFFER SEEDING. ANCHOR MULCH IMMEDIATELY AFFER APPLICATION USING MULCH ANCHORING TOOL OR 218 GALLONS PER ACRE (5 GAL/1000 SQ FT) OF EMULSIFIED ASPHALT ON FLAT AREAS. ON SLOPES, 8 FT. OR HIGHER, USE 348

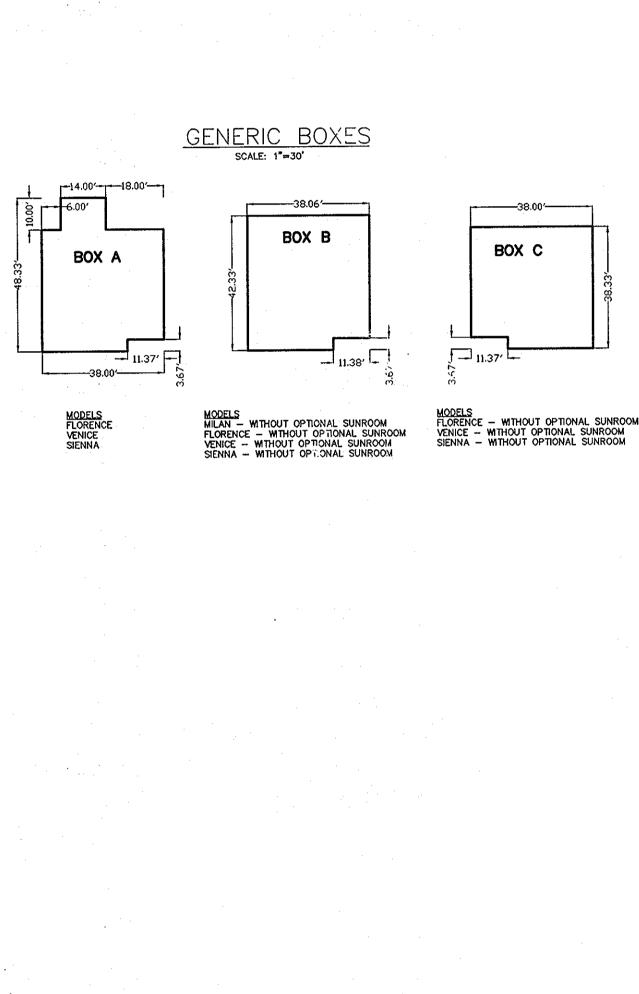
REFER TO THE 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND

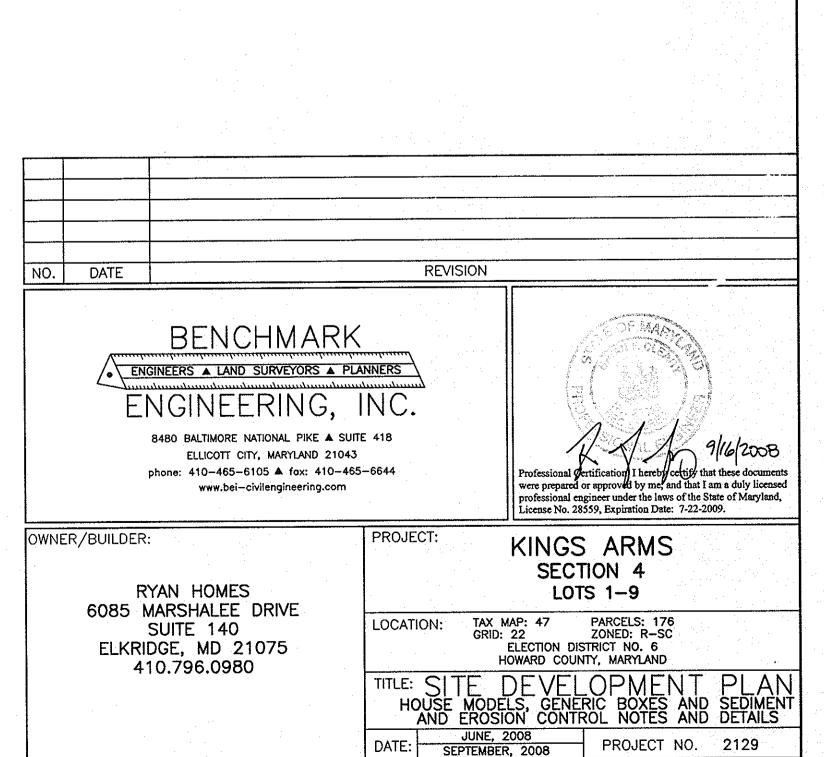
SEDIMENT CONTROL FOR RATE AND METHODS NOT COVERED.

HOUSE MODELS









SCALE: AS SHOWN

CHECK: JC

DESIGN: BFC | DRAFT: BFC

SDP-08-124

SHEET <u>3</u> OF <u>3</u>

TYP. STAPLES NO.

CONSTRUCTION SPECIFICATIONS

KEY-IN THE MATTING BY PLACING THE TOP ENDS OF THE MATTING IN A NARROW TRENCH, 6" IN DEPTH. BACKFILL THE TRENCH AND TAMP FRAILY TO CONFORM TO THE CHANNEL CROSS-SECTION. SECURE WITH A ROW OF STAPLES ABL... 4". DOWN SLOPE FROM THE TRENCH. SPACING BETWEEN STAPLES IS 6".

3. BEFORE STAPLING THE OUTER EDGES OF THE MATTING, MAKE SURE THE MATTING IS SMOOTH AND IN FIRM CONTACT WITH THE SOIL.

5. WHERE ONE ROLL OF MATTING ENDS AND ANOTHER BEGINS, THE END OF THE TOP STRIP SHALL OVERLAP THE UPPER END OF THE LOWER STRIP BY 4", SHIPLAP FASHION. REPRORCE THE OVERLAP WITH A DOUBLE ROW OF STAPLE. ("PACED 6" APART IN A STAGGERED PATTERN ON EITHER SIDE.

6. THE DISCHARGE END OF THE MATTING UNER SHOULD BE SIMILARLY SECURED WITH WITH 2 DOUBLE ROWS OF STAPLES.

U.S. DEPARTMENT OF AGRICULTURE PAGE WARYLAND DEPARTMENT OF ENVIRONMEN SOIL CONSERVATION SERVICE G - 22 - 2 WATER MANAGEMENT ADMINISTRATION

NOTE: IF FLOW WILL ENTER FROM THE EDGE OF THE MATTING THEN THE AREA EFFECTED BY THE FLOW MUST BE KEYED-IN.

2. STAPLE THE 4° OVERLAP IN THE CHANNEL CENTER USING AN 18° SPACING BETWEEN STAPLES.