



Building Permit Application

Howard County Maryland
Department of Inspections, Licenses and Permits
3430 Court House Drive
Permits: 410-313-2455
www.howardcountymd.gov

Date Received: 4/17/19

Permit No.: 19121590

Building Address: 1100 CREEPY LANE
 City: ROCKVILLE State: MD Zip Code: 21165
 Suite/Apt. #: _____ SDP/WP/BA #: _____
 Subdivision: _____
 Lot: _____ Tax Map: 11 Parcel: 39

Existing Use: VACANT
 Proposed Use: SFD
 Estimated Construction Cost: \$ 250,000
 Description of Work: 4 Bed 3.5 Bath 2 story Colonial. Finished laundry & bath in Basement

Occupant/Tenant Name: _____
 Was tenant space previously occupied? Yes No
 Contact Name: _____
 Address: _____
 City: _____ State: _____ Zip Code: _____
 Phone: _____ Fax: _____
 Email: _____

Property Owner's Name: _____
 Address: _____
 City: _____ State: _____ Zip Code: _____
 Phone: _____ Fax: _____
 Email: _____

Applicant's Name & Mailing Address, (if other than stated herein)
 Applicant's Name: _____
 Address: _____
 City: _____ State: _____ Zip Code: _____
 Phone: _____ Fax: _____
 Email: _____

Contractor Company: _____
 Contact Person: _____
 Address: _____
 City: _____ State: _____ Zip Code: _____
 License No.: _____
 Phone: _____ Fax: _____
 Email: _____

Engineer/Architect Company: _____
 Responsible Design Prof.: _____
 Address: _____
 City: _____ State: _____ Zip Code: _____
 Phone: _____ Fax: _____
 Email: _____

Commercial Building Characteristics	Residential Building Characteristics	
Height:	<input checked="" type="checkbox"/> SF Dwelling <input type="checkbox"/> SF Townhouse	
No. of stories:	Depth	Width
Gross area, sq. ft./floor:	1 st floor: <u>290'</u>	<u>48.4'</u>
Area of construction (sq. ft.):	2 nd floor: <u>38'</u>	<u>48.4'</u>
Use group:	Basement: <u>35'</u>	<u>48.6'</u>
Construction type:	<input checked="" type="checkbox"/> Finished Basement	
<input type="checkbox"/> Reinforced Concrete	<input type="checkbox"/> Unfinished Basement	
<input type="checkbox"/> Structural Steel	<input type="checkbox"/> Crawl Space	
<input checked="" type="checkbox"/> Masonry	<input type="checkbox"/> Slab on Grade	
<input checked="" type="checkbox"/> Wood Frame	No. of Bedrooms: <u>4</u>	
<input checked="" type="checkbox"/> State Certified Modular	Multi-family Dwelling	
	No. of efficiency units:	
	No. of 1 BR units:	
	No. of 2 BR units:	
	No. of 3 BR units:	
	Other Structure:	
	Dimensions:	
	Footings:	
	Roof:	
	<input type="checkbox"/> State Certified Modular	
	<input type="checkbox"/> Manufactured Home	

Utilities	
Electric:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Gas:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Water Supply	
<input type="checkbox"/> Public	
<input checked="" type="checkbox"/> Private	
Sewage Disposal	
<input type="checkbox"/> Public	
<input checked="" type="checkbox"/> Private	
Heating System	
<input checked="" type="checkbox"/> Electric <input type="checkbox"/> Oil	
<input type="checkbox"/> Natural Gas <input checked="" type="checkbox"/> Propane Gas	
<input type="checkbox"/> Other:	
Sprinkler System:	
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Grading Permit Number: _____	
Building Shell Permit Number: _____	

THE UNDERSIGNED HEREBY CERTIFIES AND AGREES AS FOLLOWS: (1) THAT HE/SHE IS AUTHORIZED TO MAKE THIS APPLICATION; (2) THAT THE INFORMATION IS CORRECT; (3) THAT HE/SHE WILL COMPLY WITH ALL REGULATIONS OF HOWARD COUNTY WHICH ARE APPLICABLE THERETO; (4) THAT HE/SHE WILL PERFORM NO WORK ON THE ABOVE REFERENCED PROPERTY NOT SPECIFICALLY DESCRIBED IN THIS APPLICATION; (5) THAT HE/SHE GRANTS COUNTY OFFICIALS THE RIGHT TO ENTER ONTO THIS PROPERTY FOR THE PURPOSE OF INSPECTING THE WORK PERMITTED AND POSTING NOTICES.

Applicant's Signature: [Signature] Print Name: _____
 Email Address: _____ Date: 3/23/2019
 Title/Company: _____

Checks Payable to: DIRECTOR OF FINANCE OF HOWARD COUNTY
 PLEASE WRITE NEATLY & LEGIBLY
 -FOR OFFICE USE ONLY-

AGENCY	DATE	SIGNATURE OF APPROVAL
State Highways		
Building Officials		
PSZA (Zoning)		
PSZA (Engineering)		
Health	<u>3/15/19</u>	<u>H. Oswald</u>

Is Sediment Control approval required for issuance? Yes No
 CONTINGENCY CONSTRUCTION START

DPZ SETBACK INFORMATION	
Front:	
Rear:	
Side:	
Side St.:	
All minimum setbacks met?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Is Entrance Permit Required?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Historic District?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Lot Coverage for New Town Zone:	
SDP/Red-line approval date:	

Filing Fee	\$
Permit Fee	\$
Tech Fee	\$
Excise Tax	\$
PSFS	\$
Guaranty Fund	\$
Add'l per Fee	\$
Total Fees	\$
Sub- Total Paid	\$
Balance Due	\$
Check	#

HEADER SPAN CHART[®]

PER SECTION 6002 OF IRC 2009

GROUDED SPANS AND HEADER SPANS [®] FOR EXTERIOR BEARING WALLS													
GROUND SNOW LOAD (PSF) ²													
HEADERS & GIRDERS SUPPORTING	SIZE	BUILDING WIDTH ¹ (feet)											
		20						30					
		SPAN	N ³	SPAN	N ³	SPAN	N ³	SPAN	N ³	SPAN	N ³	SPAN	N ³
RAUF CEILING AND ONE CENTER BEARING FLOOR	12' x 6"	6.0	2	6.0	2	6.0	2	6.0	2	6.0	2	6.0	2
	12' x 8"	8.0	2	8.0	2	8.0	2	8.0	2	8.0	2	8.0	2
	12' x 10"	10.0	2	10.0	2	10.0	2	10.0	2	10.0	2	10.0	2
	12' x 12"	12.0	2	12.0	2	12.0	2	12.0	2	12.0	2	12.0	2
	12' x 14"	14.0	2	14.0	2	14.0	2	14.0	2	14.0	2	14.0	2
RAUF CEILING AND TWO CENTER BEARING FLOORS	12' x 6"	5.0	2	5.0	2	5.0	2	5.0	2	5.0	2	5.0	2
	12' x 8"	6.0	2	6.0	2	6.0	2	6.0	2	6.0	2	6.0	2
	12' x 10"	7.0	2	7.0	2	7.0	2	7.0	2	7.0	2	7.0	2
	12' x 12"	8.0	2	8.0	2	8.0	2	8.0	2	8.0	2	8.0	2
	12' x 14"	9.0	2	9.0	2	9.0	2	9.0	2	9.0	2	9.0	2
RAUF CEILING AND ONE CLEAR SPAN FLOOR	12' x 6"	6.0	2	6.0	2	6.0	2	6.0	2	6.0	2	6.0	2
	12' x 8"	8.0	2	8.0	2	8.0	2	8.0	2	8.0	2	8.0	2
	12' x 10"	10.0	2	10.0	2	10.0	2	10.0	2	10.0	2	10.0	2
	12' x 12"	12.0	2	12.0	2	12.0	2	12.0	2	12.0	2	12.0	2
	12' x 14"	14.0	2	14.0	2	14.0	2	14.0	2	14.0	2	14.0	2
RAUF CEILING AND TWO CLEAR SPAN FLOORS	12' x 6"	5.0	2	5.0	2	5.0	2	5.0	2	5.0	2	5.0	2
	12' x 8"	6.0	2	6.0	2	6.0	2	6.0	2	6.0	2	6.0	2
	12' x 10"	7.0	2	7.0	2	7.0	2	7.0	2	7.0	2	7.0	2
	12' x 12"	8.0	2	8.0	2	8.0	2	8.0	2	8.0	2	8.0	2
	12' x 14"	9.0	2	9.0	2	9.0	2	9.0	2	9.0	2	9.0	2

NOTES:
 1. SPANS ARE GIVEN IN FEET AND INCHES.
 2. TABULATED VALUES ASSUME #2 GRADE 60 REINFORCING BARS PERMITTED TO BE INTERPOLATED.
 3. BUILDING WIDTH IS MEASURED PERPENDICULAR TO THE RIDGE RUN WIDTH.
 4. BETWEEN THOSE SHOWN SPANS ARE PERMITTED TO BE INTERPOLATED.
 5. NUMBER OF JOISTS REQUIRED TO BE SUPPORTED BY THE HEADER IS DETERMINED BY DIVIDING THE NUMBER OF JOISTS BY THE NUMBER OF SPANS.
 6. THE NUMBER OF JOISTS REQUIRED TO BE SUPPORTED BY THE HEADER IS DETERMINED BY DIVIDING THE NUMBER OF JOISTS BY THE NUMBER OF SPANS.
 7. THE NUMBER OF JOISTS REQUIRED TO BE SUPPORTED BY THE HEADER IS DETERMINED BY DIVIDING THE NUMBER OF JOISTS BY THE NUMBER OF SPANS.
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 10. THE NUMBER OF JOISTS REQUIRED TO BE SUPPORTED BY THE HEADER IS DETERMINED BY DIVIDING THE NUMBER OF JOISTS BY THE NUMBER OF SPANS.

HEADER SPAN CHART[®]

PER SECTION 6002 OF IRC 2009

GROUDED SPANS AND HEADER SPANS [®] FOR INTERIOR BEARING WALLS							
HEADERS & GIRDERS SUPPORTING	SIZE	BUILDING WIDTH ¹ (feet)					
		20		30		36	
		SPAN	N ³	SPAN	N ³	SPAN	N ³
MID-LEVEL	12' x 6"	4.0	2	4.0	2	4.0	2
	12' x 8"	5.0	2	5.0	2	5.0	2
	12' x 10"	6.0	2	6.0	2	6.0	2
	12' x 12"	7.0	2	7.0	2	7.0	2
	12' x 14"	8.0	2	8.0	2	8.0	2
1 ST FLOOR	12' x 6"	3.2	2	3.2	2	3.2	2
	12' x 8"	4.0	2	4.0	2	4.0	2
	12' x 10"	4.8	2	4.8	2	4.8	2
	12' x 12"	5.6	2	5.6	2	5.6	2
	12' x 14"	6.4	2	6.4	2	6.4	2

NOTES:
 1. SPANS ARE GIVEN IN FEET AND INCHES.
 2. TABULATED VALUES ASSUME #2 GRADE 60 REINFORCING BARS PERMITTED TO BE INTERPOLATED.
 3. BUILDING WIDTH IS MEASURED PERPENDICULAR TO THE RIDGE RUN WIDTH.
 4. BETWEEN THOSE SHOWN SPANS ARE PERMITTED TO BE INTERPOLATED.
 5. NUMBER OF JOISTS REQUIRED TO BE SUPPORTED BY THE HEADER IS DETERMINED BY DIVIDING THE NUMBER OF JOISTS BY THE NUMBER OF SPANS.
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FOUNDATION CHART[®]

PER SECTION 6002 OF IRC 2009

MINIMUM VERTICAL REINFORCEMENT FOR 8-, 8-, 10-INCH & 12-INCH NOMINAL FLAT BASEMENT WALLS

MAXIMUM WALL HEIGHT (feet)	MAXIMUM UNBALANCED BACKFILL HEIGHT ³ (feet)	MINIMUM VERTICAL REINFORCEMENT - BAR SIZE AND SPACINGS (INCHES)											
		SOIL CLASSIFICATION AND DESIGN LATERAL SOIL PRESSURE PER FOOT OF DEPTH											
		TYPE OF SOIL ¹				TYPE OF SOIL ¹				TYPE OF SOIL ¹			
0	0	MINIMUM NOMINAL WALL THICKNESS (IN INCHES)											
		6	7	8	9	10	11	12	13	14	15	16	17
1	0	4	5	6	7	8	9	10	11	12	13	14	15
		5	6	7	8	9	10	11	12	13	14	15	
2	0	4	5	6	7	8	9	10	11	12	13	14	15
		5	6	7	8	9	10	11	12	13	14	15	
3	0	4	5	6	7	8	9	10	11	12	13	14	15
		5	6	7	8	9	10	11	12	13	14	15	
4	0	4	5	6	7	8	9	10	11	12	13	14	15
		5	6	7	8	9	10	11	12	13	14	15	
5	0	4	5	6	7	8	9	10	11	12	13	14	15
		5	6	7	8	9	10	11	12	13	14	15	
6	0	4	5	6	7	8	9	10	11	12	13	14	15
		5	6	7	8	9	10	11	12	13	14	15	
7	0	4	5	6	7	8	9	10	11	12	13	14	15
		5	6	7	8	9	10	11	12	13	14	15	
8	0	4	5	6	7	8	9	10	11	12	13	14	15
		5	6	7	8	9	10	11	12	13	14	15	
9	0	4	5	6	7	8	9	10	11	12	13	14	15
		5	6	7	8	9	10	11	12	13	14	15	
10	0	4	5	6	7	8	9	10	11	12	13	14	15
		5	6	7	8	9	10	11	12	13	14	15	

NOTES:
 1. SOIL CLASSIFICATION AND UNBALANCED BACKFILL HEIGHTS REFER TO TABLE 6002.1 OF IRC 2009.
 2. TABLE VALUES ARE BASED ON REINFORCING BARS WITH A MINIMUM YIELD STRENGTH OF 60,000 PSI.
 3. VERTICAL REINFORCEMENT WITH A YIELD STRENGTH OF LESS THAN 60,000 PSI AND/OR BARS OF A DIFFERENT SIZE THAN SPECIFIED IN THE TABLE ARE PERMITTED IN ACCORDANCE WITH SECTION 6002.1.3.3.8 AND TABLE 6002.1.3.3.8 OF IRC 2009.
 4. "N" INDICATES NO VERTICAL REINFORCEMENT IS REQUIRED EXCEPT FOR 8- AND 10-INCH WALLS FORMED WITH CAST-IN-PLACE FORMING SYSTEMS IN WHICH CASE VERTICAL REINFORCEMENT SHALL BE #4 @ 40" ON CENTER.
 5. UNBALANCED BACKFILL HEIGHT IS THE UNBALANCED HEIGHT OF THE BASEMENT WALL IN FEET.
 6. INTERPOLATION IS NOT PERMITTED.
 7. EXTERIOR WALLS SHALL RETAIN A MINIMUM OF UNBALANCED BACKFILL. THEY SHALL BE LATERALLY SUPPORTED AT THE TOP AND BOTTOM BY EXTERIOR BACKFILL. NO VERTICAL REINFORCEMENT SHALL BE REQUIRED TO PROVIDE A COVER OF 3/4 INCHES HEADWARD FROM THE INSIDE FACE OF THE WALL. THE CENTER OF THE STEEL SHALL NOT VARY FROM THE SURFACE OF THE WALL BY MORE THAN THE GREATER OF 1/4 INCHES OF THE WALL THICKNESS OR 3/8 INCH.
 8. VERTICAL REINFORCEMENT SHALL BE PROVIDED THROUGH THE INSIDE FACE OF THE WALL. WALLS SHALL NOT BE LESS THAN 3/4 INCH THICK. LAYERS FOR REINFORCEMENT PLACEMENT SHALL BE THE OUTSIDE FACE OF THE WALL. SPACING SHALL NOT BE LESS THAN 12 INCHES FOR 10 BARS AND SMALLER AND NOT LESS THAN 2 REBAR FULLY SQUARED BARS.
 9. MEANS OF CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE APPLICABLE BUILDING CODE OR WHERE THERE IS NO CODE IN ACCORDANCE WITH ACI 308.3.
 10. JOIST STEEL SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 65,000 PSI. FOR JOISTS WITH 20,000 PSI AT 20 DAYS, A HIGHER STRENGTH IS REQUIRED BY THE JOIST MANUFACTURER.
 11. THE MINIMUM WALL THICKNESS IS MINIMUM SHALL BE DETERMINED BY THE MINIMUM SPECIFIED COMPRESSIVE STRENGTH OF JOIST BARS. IT IS 10,000 PSI.
 12. A 1/2 INCH CLEARANCE SHALL BE MAINTAINED BETWEEN THE MINIMUM SPECIFIED COMPRESSIVE STRENGTH OF JOIST BARS AND THE WALL.
 13. SEE TABLE 6002.1 OF IRC 2009 FOR TOLERANCE FROM NOMINAL THICKNESS PRINTED FOR FULL WALLS.
 14. THE USE OF THIS TABLE SHALL BE PROHIBITED FOR SOIL CLASSIFICATION NOT SHOWN.

WOODWORKS INC.
 RESIDENTIAL DESIGN
 332 WEST PATRICK STREET / RIVERBROOK MO / 20701
 (417) 301-6697 (F) DESIGN@WOODWORKS.NET
 (314) 301-6698 (M) WWW.WOODWORKS.NET

SUBMITTALS		DATE	REVISION
1	REVISION		
2	REVISION		
3	REVISION		
4	REVISION		
5	REVISION		

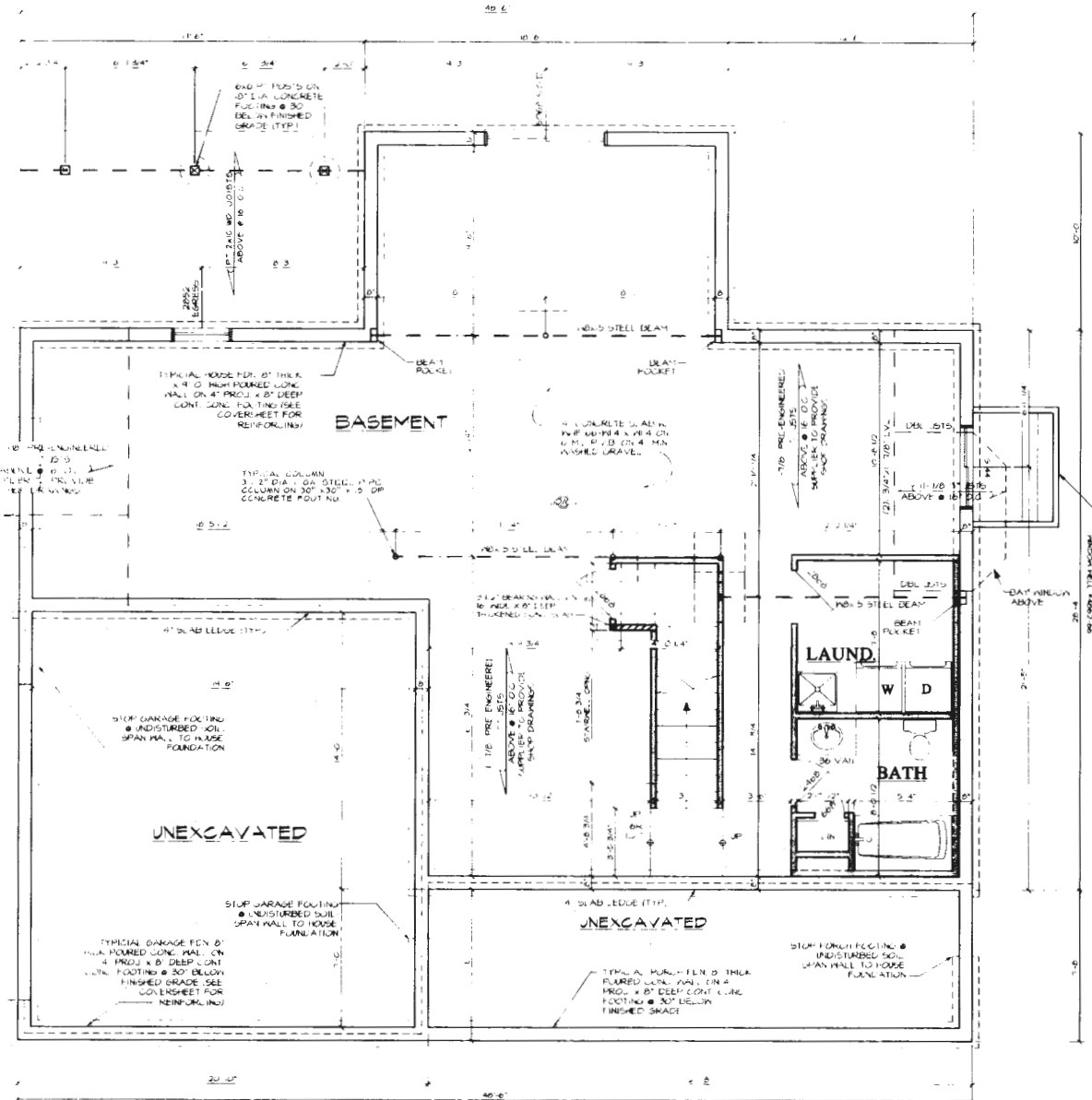
VIKING CUSTOM HOMES
 THE KANE RESIDENCE
 SHEET NO. **G2**

PER. NO. 82 / 54



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 RESIDENTIAL DESIGN
 332 WEST PATRICK STREET / REEBECK, MD / 21701
 (M) 301.495.9791 (B) DESIGN@CADDWORKS.NET
 (F) 301.495.4668 (W) WWW.CADDWORKS.NET

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FOUNDATION PLAN

SCALE: 1/4" = 1'-0"

SUBMITTALS

NO.	DATE	REVISION
1		ISSUED FOR PERMITS
2		FOR REVIEW
3		FOR REVIEW
4		FOR REVIEW
5		FOR REVIEW
6		FOR REVIEW
7		FOR REVIEW
8		FOR REVIEW
9		FOR REVIEW
10		FOR REVIEW

FOUNDATION PLAN

VIKING CUSTOM HOMES
THE KANE RESIDENCE

SHEET NO.
A-1
 PROJ. NO. 821-54



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 (F) 301.695.4868 (W) WWW.CADDWORKS.NET

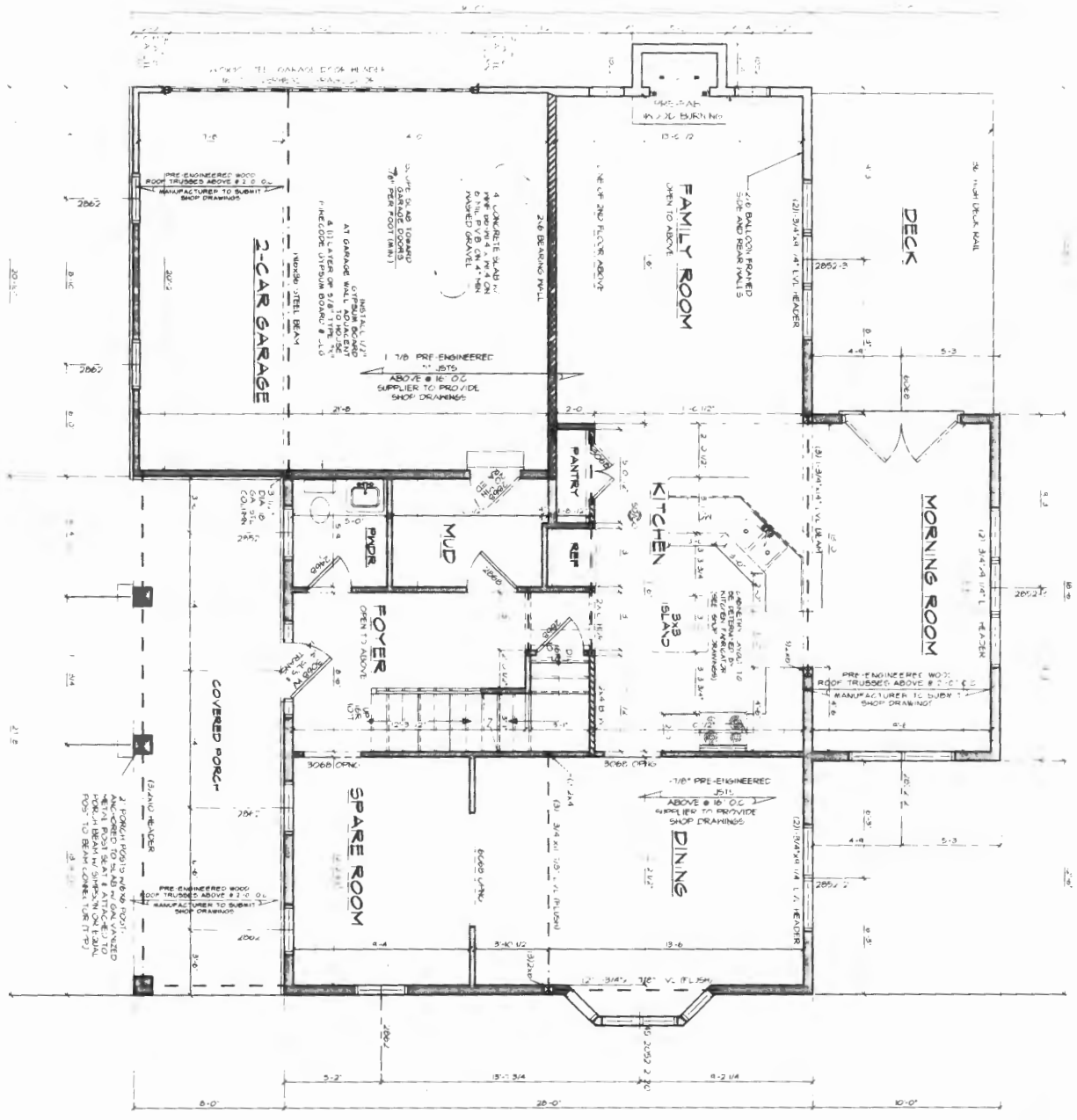
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SUBMITTALS		REMARKS
DATE	DRAWN BY	
4-11-09	DWB	PRELIMINARY
4-11-09	DWB	REVISED PRELIMINARY
4-21-09	DWB	REVISED PRELIMINARY
5-09-09	DWB	PERMIT SET

FIRST FLOOR PLAN

VIKING CUSTOM HOMES
 THE KANE RESIDENCE

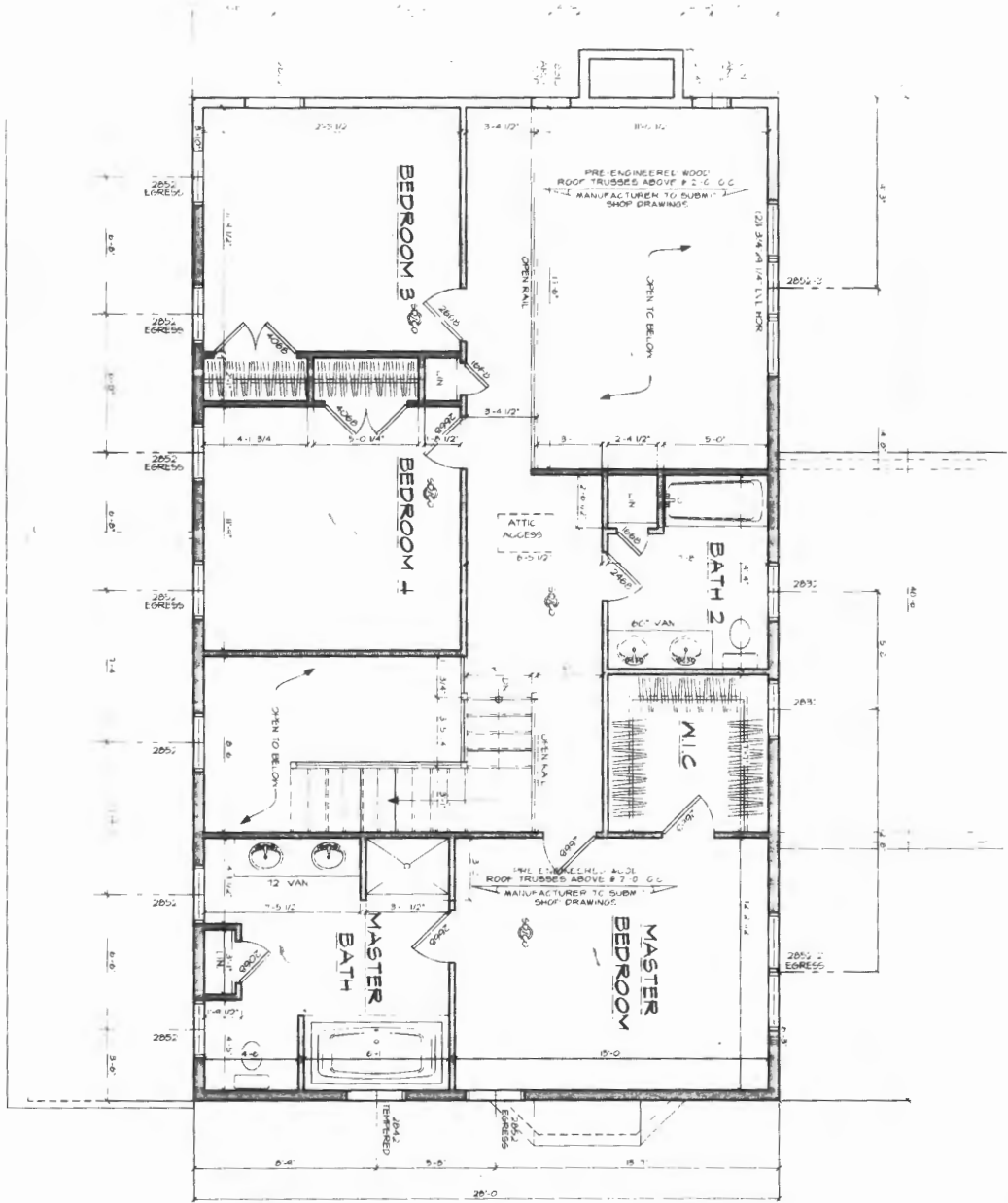
SHEET NO.
A-2



FIRST FLOOR PLAN
 1250 SQ. FT. FIRST FLOOR AREA
 SCALE: 1/4" = 1'-0"

SECOND FLOOR PLAN

1020 SQ. FT. SECOND FLOOR AREA
SCALE: 1/4" = 1'-0"



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VIKING CUSTOM HOMES
THE KANE RESIDENCE

SECOND FLOOR PLAN

SUBMITTALS

NO.	DATE	DRAWN BY	REMARKS
1-0-0		DWR	PRELIMINARY
2-0-0		DWR	REVISED PRELIMINARY
3-0-0		DWR	REVISED PRELIMINARY
4-0-0		DWR	PERMIT SET

SHEET NO
A-3

PROJ. NO. 021-54

Storm Drain Calculations

Hydrology

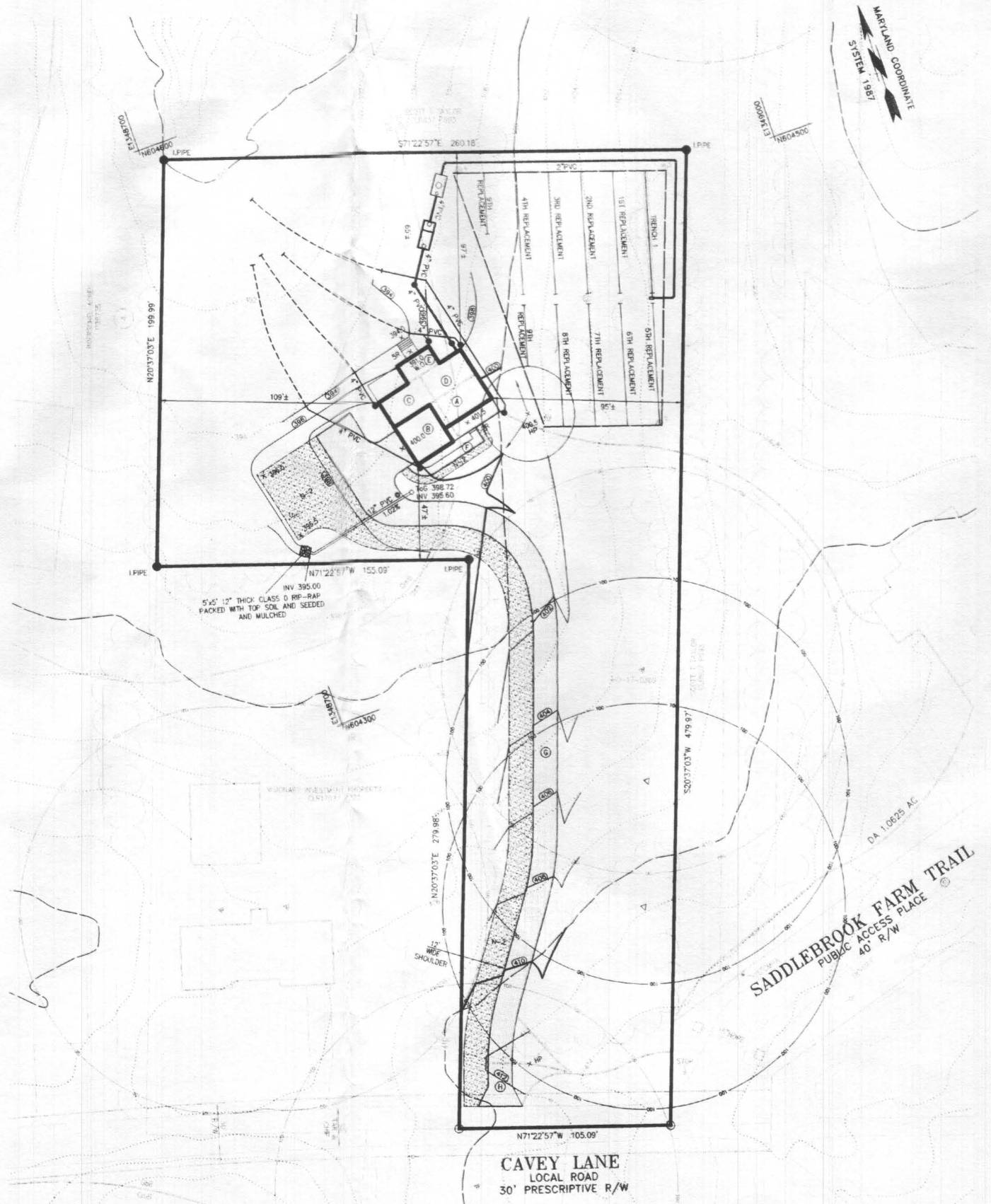
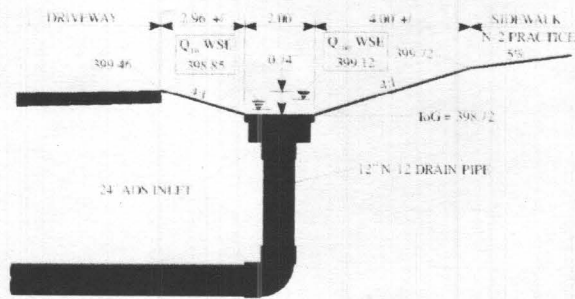
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Pipe Calculations

1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000
 1.9300 3.4300 3.4300 3.4300 3.4300 3.4300 3.4300 3.4300 3.4300 3.4300

Inlet Capture

1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000
 1.9300 3.4300 3.4300 3.4300 3.4300 3.4300 3.4300 3.4300 3.4300 3.4300



DEVELOPER'S / LANDOWNER'S CERTIFICATION
 I/We hereby certify that all proposed work shown in these construction drawings will be conducted in strict accordance with these plans. I/We also understand that it is my/our responsibility to have the construction supervised and certified, including the submission of "As-Built" plans certified by a registered Professional Engineer with in thirty (30) days of completion of work on the stormwater management facility/facilities. I/We also certify that this/these stormwater management facility/facilities will be inspected during construction by a Registered Professional Engineer in accordance with Howard County Code.
 Signed: _____ Date: _____

ENGINEER'S DESIGN CERTIFICATION
 I hereby certify that these plans have been designed according to Howard County Code and I hereby certify that these documents were prepared or approved by me, and I am a duly licensed professional engineer under the laws of the State of Maryland.
 Signed: _____ Date: _____
 License No. _____
 Expiration Date: _____

ENGINEER'S "AS-BUILT" CERTIFICATION
 I/We hereby certify that the facility shown on these plans was constructed as shown on the "As-Built" plans and meets the approved plans and specifications. I also certify that this/these facilities were inspected in accordance with Howard County Code and I hereby certify that these documents were prepared or approved by me, and I am a duly licensed professional engineer under the laws of the State of Maryland.
 Signed: _____ Date: _____
 License No. _____
 Expiration Date: _____

STORMWATER MANAGEMENT CALCULATIONS

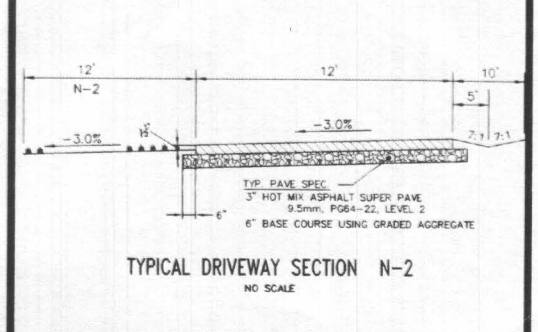
Site Area: 81,407 sf (1.8666 Acres)
 Impervious Area: 10,845 sf
 Driveway: 5,572 sf
 Sidewalks: 181 sf
 Cavity Lane: 1,141 sf
 No SWM Provided: 8,825 sf

Percent Impervious: 8,825 / 81,407 = 10.84 %
 PE: H & C soils with 10.84% Impervious = 1.00 in (Table 5.3)

Required Site (ESD) Stormwater Treatment
 Impervious Surface: AREA IMP x TREATMENT = Req. SWM
 7,684 sf x (1.0"/12") = 640.33 cf

Provided Site (ESD) Stormwater Management

A	Impervious Rooftop Runoff to N-1 Practice (A1)	529.5 sf	Drainage Area: 529.5 sf / Disc. Path: 75 ft / PE: 1.0 in	Volume Provided: A1 x (PE / 12") = 44.13 cf
B	Impervious Rooftop Runoff to N-1 Practice (A1)	529.5 sf	Drainage Area: 529.5 sf / Disc. Path: 75 ft / PE: 1.0 in	Volume Provided: A1 x (PE / 12") = 44.13 cf
C	Impervious Rooftop Runoff to N-1 Practice (A1)	343.5 sf	Drainage Area: 343.5 sf / Disc. Path: 75 ft / PE: 1.0 in	Volume Provided: A1 x (PE / 12") = 28.63 cf
D	Impervious Rooftop Runoff to N-1 Practice (A1)	343.5 sf	Drainage Area: 343.5 sf / Disc. Path: 75 ft / PE: 1.0 in	Volume Provided: A1 x (PE / 12") = 28.63 cf
E	Impervious Rooftop Runoff to N-1 Practice (A1)	185 sf	Drainage Area: 185 sf / Disc. Path: 75 ft / PE: 1.0 in	Volume Provided: A1 x (PE / 12") = 15.42 cf
F	Imperv. Non-Rooftop Runoff to N-2 Practice (A1)	181 sf	Drainage Area: 293 sf / Disc. Path: 4 ft / PE: 1.0 in	Volume Provided: A1 x (PE / 12") = 15.08 cf
G	Imperv. Non-Rooftop Runoff to N-2 Practice (A1)	5,262 sf	Drainage Area: 5,262 sf / Disc. Path: 12-35 ft / PE: 1.0 in	Volume Provided: A1 x (PE / 12") = 438.50 cf
H	Imperv. Non-Rooftop Runoff to N-2 Practice (A1)	310 sf	Drainage Area: 526 sf / Disc. Path: 12 ft / PE: 1.0 in	Volume Provided: A1 x (PE / 12") = 25.83 cf
Total Provided:		640.35 cf		



SIMPLIFIED ENVIRONMENTAL CONCEPT PLAN
STORMWATER MANAGEMENT PLAN
KANE PROPERTY
 10380 CAVEY LANE WOODSTOCK
 HOWARD COUNTY, MARYLAND 21163
BUILDER Viking Custom Homes
 815 Windsor Drive
 Spikesville, MD 21157
 410-977-2188
OWNER Brian Kane
 355 Whitfield Road
 Cotonsville, MD 21228

MAP 11 BLOCK 13 PARCEL 39
 Account Number: 288137
 3RD ELECTION DISTRICT
 ZONED RC-DEO COUNTY LAND RECORD 18253 Page 145

D.R.S. & ASSOCIATES
LAND DESIGN CONSULTANTS
 52 WINTERS STREET WESTMINSTER, MARYLAND 21157
 410-848-4060 410-876-6040 F. 410-848-8818

REV. NO.	DATE	BY	DESCRIPTION	DATE: 2018-12-03
1	2019-02-28	DRS/ebp	PER HCDED 2019-02-05	SCALE: 1"=30'
2	2019-03-20	DRS/ebp	PER HCDED 2019-03-13	SHT. NO. : 2 OF 4
				DWG: ST01-02

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David J. Smith

SEDIMENT AND EROSION CONTROL NOTES

- All erosion/sediment control measures shall comply with the Maryland Standards and Specifications for Soil Erosion and Sediment Control by the Maryland Department of the Environment, Water Management Administration in association with the National Resources Conservation Service and the Maryland Association of Soil Conservation Districts (referenced as the 2011 Standards and Specs).
- Areas that have been cleared and/or graded, but will not be constructed or permanently vegetated for more than 7 days (3 days for sediment control measures and for steep slopes) must be stabilized with mulch or temporary stabilization. Any areas that are in temporary stabilization for over 6 months will need to be permanently vegetated.
- For specifications on permanent or temporary stabilization, see B-4-4 and E-4-5.
- Mulching only is restricted to use on disturbed areas as a temporary cover where vegetation is not feasible or practical. Permanent stabilization cannot be completed because of weather conditions. For specifications see B-4-3, A.1.B.
- For specifications on the stabilization of cut and fill slopes steeper than 3 horizontal to 1 vertical, see Incremental Stabilization B-4-1.
- The existing topsoil from all off-site that is used must meet the minimum specification in B-4-2.
- The required sequence of construction must be followed during site development. Any changes in the sequence of construction must be approved by the Soil Conservation District.
- Any revision to the sediment control plan, not covered under the list of plan modifications that can be approved by the sediment control inspector, need to be submitted to the Soil Conservation District for approval.
- No proposed slope that is required to be seeded and/or mulched shall be steeper than 2:1. Slopes steeper than 2:1 shall require an engineered design for stabilization.
- All sediment control structures will be inspected once a week and after each rainfall and will be repaired, as needed, so that the structure meets the minimum specifications as shown in the 2011 Standards and Specs.
- The contractor is responsible for maintaining all sediment and erosion control measures until the disturbed areas are permanently stabilized.
- The district approval for this sediment control plan is good for 3 years. At the end of 3 years, if construction of the plan has not started, the plan will need to be resubmitted to the Soil Conservation District for review and re-approval. Any plans that are currently under construction after 3 years may be required to be resubmitted to the Soil Conservation District by the sediment control inspector.

TEMPORARY SEEDING NOTES

Scope: Planting short term (no more than 6 months) vegetation to temporarily stabilize any areas where soil disturbance has occurred until the area can be permanently stabilized with vegetative or non-vegetative practices.

Standards: The following notes shall conform to Section B-4 of the 2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL published jointly by the Maryland Department of Environment - Water Management Administration, the National Resources Conservation Service and the Maryland Association of Soil Conservation Districts.

The seed bed shall be prepared by loosening the soil to a depth of 3 to 5 inches and incorporating the lime and fertilizer into this loosened layer of soil. See section B-4-2.

For temporary stabilization, fertilizer shall consist of a mixture of 10-20-20 and be applied at a rate of 45 lb. per acre (10 lb. per 1000 sq ft.) and will meet the requirements in section B-4-2. Lime shall be applied at a rate of 2 tons per acre (90 lb. per sq. ft.) and shall meet the requirements in section B-4-2 and B-4-4.

Seed type and application shall meet the requirements in section B-4-3. Seed tags shall be made available to the inspector to verify the type and rate of seed used.

Mulch type and its application will meet the requirements in section B-4-3 a, b, and c, and will be applied along with the seed or immediately after seeding.

Seeding mixtures shall be selected from or will be equal to those on Table B.1 (page B.20).

Temporary Seeding Summary:
The seeding chart below will need to be placed on and filed in on the sediment control plan.

TEMPORARY SEEDING SUMMARY

Seed Mixture	Hardness Zone	Application Rate (lb./ac)	Seeding Dates	Seeding Depth
1	6B (G-20 Figure 5)			
2	Species	Rate (lb./ac)	Dates	Depth
	Barley or Rye & Foxtail Millet	150lbs/acre	3/1-11/15	1"

PERMANENT SEEDING NOTES

Scope: Planting permanent, long lived vegetative cover on graded and/or cleared areas and areas that have been in temporary vegetation for more than 6 months.

Standards: The following notes shall conform to Section B-4 of the 2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL published jointly by the Maryland Department of Environment - Water Management Administration, the National Resources Conservation Service and the Maryland Association of Soil Conservation Districts.

The seed bed shall be prepared by loosening the soil to a depth of 3 to 5 inches and incorporating the lime and fertilizer into this loosened layer of soil. See section B-4-2.

For sites over 5 ac, soil tests will be performed. Soil tests will be conducted by the University of Maryland or a recognized commercial laboratory. Minimum soil conditions shall meet the requirements of section B-4-2-A-2-c, otherwise soil amendments or topsoil will need to be applied. Topsoiling may occur when soil conditions meet the minimum requirements as stated in section B-4-2-B. Soil amendments must meet the requirements as set forth in section B-4-2-C and must be applied as indicated by the soil tests.

For sites of 5 ac. or less if disturbance, the following fertilizer and lime rates shall apply:
Fertilizer shall consist of a mixture of 10-20-20 and be applied at the following rates:
N = 45 lb. per acre (1 lb. per 1000 sq ft.) P205 = 50 lb. per acre (2 lb. per 1000 sq ft.) K2O = 90 lb. per acre (2 lb. per 1000 sq ft.)
Lime shall be applied at a rate of 2 tons per acre (90 lb. per 1000 sq ft.)

Seed type, turfgrass or sod application shall meet the requirements in section B-4-5. Seed tags shall be made available to the inspector to verify the type and application rate of seed used.

Mulch type and its application will meet the requirements in section B-4-3 a, b, and c, and will be applied along with seed or immediately after seeding.

Seeding mixtures shall be selected from or will be equal to those on Table B-3. The seeding chart below will need to be placed on and filed in on the sediment control plan.

PERMANENT SEEDING SUMMARY

Fertilizer mixture and application rates: To be determined by soil test.	Lime Application Rate: To be determined by soil test.	Seed Mixture	Hardness Zone	Application Rate (lb./ac)	Seeding Dates	Seeding Depth
N	P205					
	K2O					
1		Species	Rate (lb./ac)	Seeding Dates	Seeding Depth	
		Tall Fescue(75%)	150 lbs/acre	3/1 - 5/15	1/4" - 1/2"	
		Canada Bluegrass(10%)		8/15 - 10/15		
		Kentucky Bluegrass(10%)				
		Redtop(5%)				
3		Tall Fescue(65%)	125 lbs/acre	3/1 - 5/15	1/4" - 1/2"	
		Perennial Ryegrass(10%)	15 lbs/acre	8/15 - 10/15		
		Kentucky Bluegrass(5%)	10 lbs/acre			

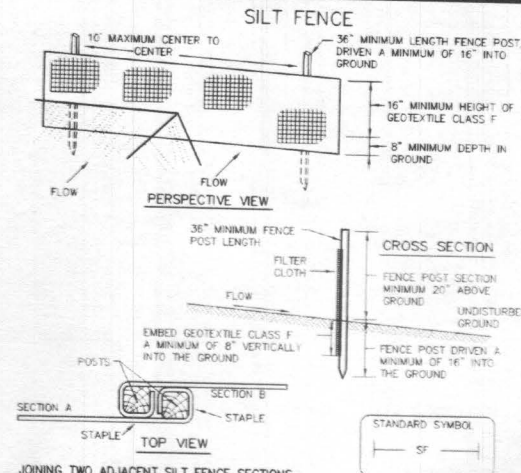
REMARKS: Use mix No. 1 on steep slopes greater than 3:1.
Use mix No. 3 on areas less than 3:1 slope.

TOPSOIL SPECIFICATIONS

Soil to be used on topsoil must meet the following:
Topsoil shall be a loam, sandy loam, clay loam, all loam, sandy clay loam or 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, trash or other materials larger than 1 1/2" in diameter.

Topsoil must be free of plants or plant parts such as bermuda grass, quackgrass, johnsongrass, nutgrass, poison ivy, thistle or others as specified.

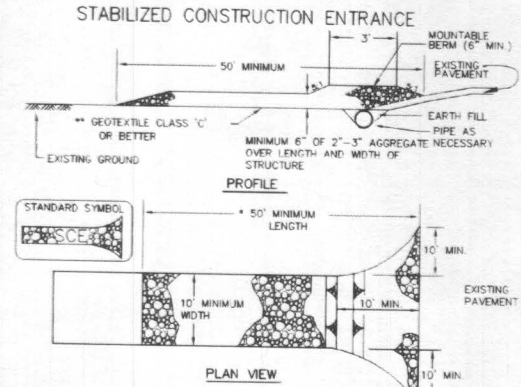
Where the topsoil is either highly acidic or composed of heavy clays, ground limestone shall be spread at the rate of 4-8 tons/acre (200-400 lbs/1000 sq ft.) prior to the placement of topsoil. Lime shall be distributed uniformly over designated areas and worked into the soil in conjunction with slope operations.



JOINING TWO ADJACENT SILT FENCE SECTIONS

Construction Specifications:
1. Fence posts shall be a minimum of 36" long driven 16" minimum into the ground. Wood posts shall be 1 1/2" x 1 1/2" square (minimum) cut, or 3/4" diameter (minimum) round and shall be of sound quality hardwood. Steel posts will be standard T or U section weighting not less than 1.00 pound per linear foot.
2. Geotextile 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. (min) Test: MSMT 509
Tensile Modulus 20 lbs./in. (min) Test: MSMT 509
Flow Rate 0.3 gpd./ft. (max) Test: MSMT 322
Filtering Efficiency 75% (min) Test: MSMT 322
3. Where ends of geotextile fabric come together, they shall be overlapped.
4. Silt Fence shall be inspected after each rainfall event and maintained when bulges occur or when sediment accumulation reached 50% of the fabric height.

E153 - 5/14/96



Construction Specification

- Length - minimum of 50' (30' for single residence lot)
- Width - 10' minimum, should be flared at the existing road to provide a turning radius
- Geotextile fabric (filter cloth) shall be placed over the existing ground prior to placing stone. The plan approval authority may not require single family residences to use geotextile.
- Stone - crushed aggregate (3" to 3 1/2") or reclaimed or recycled concrete
- Surface Water - all surface water flowing to or diverted toward construction entrances shall be piped through the entrance, maintaining positive drainage. Pipe entrances shall be placed at least 6" deep over the length and width of the entrance. A mounatable berm with 5:1 slopes and a minimum of 6" of stone over the pipe. Pipe has to be sized according to the drainage. When the SCE is located at a high spot and has no drainage to convey a pipe will not be necessary. Pipe should be sized according to the amount of runoff to be conveyed. A 6" minimum will be required.
- Location - A stabilized construction entrance shall be located at every point where construction traffic enters or leaves a construction site. Vehicles leaving the site must travel over the entire length of the stabilized construction entrance.

F173 - 5/14/96

SEDIMENT CONTROL NOTES

- A pre-construction meeting must occur with the Howard County Department of Public Works, Construction Inspection Division (CD), 410-313-1850 after the future LDD and protected areas are marked clearly in the field. A minimum of 48 hour notice to CD must be given at the following stages:
 - Prior to the start of earth disturbance.
 - Upon completion of the installation of perimeter 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.
 Other building or grading inspection approvals may not be authorized until this initial approval by the inspection agency is made. Other related state and federal permits shall be referenced, to ensure coordination and to avoid conflicts with this plan.
- All vegetative and structural practices are to be installed according to the provisions of this plan and are to be in conformance with the 2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL, and revisions thereto.
- Following initial soil disturbance or re-disturbance, permanent or temporary stabilization is required within three (3) calendar days as to the surface of all perimeter controls, dikes, swales, ditches, culverts, calendar days as to all other disturbed areas on the project site except for those areas under active grading.
- All disturbed areas must be stabilized within the time period specified above in accordance with the 2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL for topsoil (Sec. B-4-2), permanent seeding (Sec. B-4-5), temporary seeding (Sec. B-4-4), and mulching (Sec. B-4-3). Temporary stabilization with mulch alone can only be applied between the specifications shall be enforced in areas with 3:5 of cut and/or fill. Staples (Sec. B-4-5) in excess of 20 ft. must be banded with staple outlet. All concentrated flow, steep slopes, and highly erodible areas shall receive soil stabilization matting (Sec. B-4-5).
- 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 CD.
- Site Analysis:
Total Area of Site: 1.8885 Acres
Area Disturbed: 0.6501 Acres
Area to be roofed or paved: 0.19612 Acres
Area to be vegetatively stabilized: 0.45389 Acres
Total Cut: 233 Cu. Yds.
Total Fill: 233 Cu. Yds.
- 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 CD. 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, a part of every inspection and should include:
Inspection date
Inspection type (routine, pre-storm event, during rain event)
Name and title of inspector
Weather information (current conditions as well as time and amount of last recorded precipitation)
Brief description of project's status (e.g., percent complete) and/or current activities
Evidence of sediment discharges
Identification of plan deficiencies
Identification of sediment controls that require maintenance
Identification of missing or improperly installed sediment controls
Compliance status regarding the sequence of construction and stabilization requirements
Photographs
Monitoring/inspecting
Maintenance and/or corrective action performed
Other inspection items as required by the General Permit for Stormwater Associated with Construction Activities (NPDES, MDC).
- Trenches 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 HSCD prior to proceeding with construction. Minor revisions may be allowed by the CD per the list of HSCD-approved field changes.
- Disturbance shall not occur outside the LDD. A project is to be sequenced so that grading in the preceding grading unit has been stabilized and approved by the CD. Unless otherwise specified and approved by the HSCD, no more than 30 acres cumulatively may be disturbed at a given time.
- Wash water from any equipment, vehicles, wheels, pavement, and other sources must be treated in a sediment basin or other approved washout structure.
- Topsoil shall be stockpiled and preserved on-site for redistribution until final grade. For specifications refer to section B-4-6 from the 2011 MD Standards and Specifications for Soil Erosion and Sediment Control.
- All Silt Fence and Super Silt Fence shall be placed on-the-contour, and be inactivated at 25' minimum intervals, with lower ends curved uphill by 2' in elevation.
- Stream channels must not be disturbed during the following restricted time periods (inclusive):
Use I and II March 1 - June 15
Use III and IV October 1 - April 30
Use V March 1 - May 31
- A copy of this plan, the 2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL, and associated permits shall be on-site and available when the site is active.

SIMPLIFIED ENVIRONMENTAL CONCEPT PLAN DETAILS

KANE PROPERTY
10380 CAVEY LANE, WOODSTOCK
HOWARD COUNTY, MARYLAND 21163

BUILDER
Viking Custom Homes
815 Windsor Drive
Sykesville, MD 21157
410-977-2188

OWNER
Brian Kane
355 Whitfield Road
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MAP 11 BLOCK 13 PARCEL 39
Account Number 288137
3RD ELECTION DISTRICT
ZONED RC-DEO COUNTY LAND RECORD 18253 Page 145

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REV. No.	DATE	BY	DESCRIPTION	DATE: 2018-12-03
1	2019-02-28	DRS/ebp	PER HOED 2019-02-05	SCALE: N/A
2	2019-03-20	DRS/ebp	PER DRS	SHT. No. : 3 OF 4
				DWG.: ST01-03

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