



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

7/5/19
 Permit No.: B19002185

EC/OK
 ALH 7/9/19

Building Address: 4898 Castlebridge Road
 City: Ellicott City State: MD Zip Code: 21042
 Suite/Apt. # - SDP/WP/BA #: -
 Subdivision: Carroll-Ziegler Property
 Lot: 3 Tax Map: 23:27 Parcel: 29

Existing Use: Vacant Lot
 Proposed Use: Construct new Single Family Home
 Estimated Construction Cost: \$ 250,000

Description of Work: Construct New Single Family Home with 19 Rooms, In-law Suite, 6 Bedrooms, 7 Full Baths, 2 Half Baths, fireplace and 5 car garage.

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

Property Owner's Name: Randy & Kay Harkness
 Address: 3148 Pine Valley Chase
 City: West Friendship State: MD Zip Code: 21794
 Phone: 443-324-4725 Fax: -
 Email: RTash@ColumbiaBuildingsinc.com

Applicant's Name & Mailing Address, (If other than stated herein)
 Applicant's Name: Ron Tash
 Address: P.O. Box 999
 City: Columbia State: MD Zip Code: 21044
 Phone: 443-324-4725 Fax: -
 Email: RTash@ColumbiaBuildingsinc.com

Contractor Company: Greenfield Family Homes, LLC
 Contact Person: Ron Tash
 Address: P.O. Box 999
 City: Columbia State: MD Zip Code: 21044
 License No.: C2201
 Phone: 443-324-4725 Fax: -
 Email: RTash@ColumbiaBuildingsinc.com

Engineer/Architect Company: D.W. Taylor Assoc. Inc.
 Responsible Design Prof.: Dave Taylor
 Address: 5024 Doosey Hall Drive
 City: Ellicott City State: MD Zip Code: 21042
 Phone: 410-964-1131 Fax: 410-977-2324
 Email: info@DwTaylor.com

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>74' x 154'-8"</u>	
Area of construction (sq. ft.):	2 nd floor: <u>54' x 80'-8"</u>	
Use group:	Basement: <u>74' x 121'</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 type="checkbox"/> Masonry	<input type="checkbox"/> Slab on Grade	
<input checked="" type="checkbox"/> Wood Frame	No. of Bedrooms:	
<input 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:	
<input checked="" type="checkbox"/> Roadside Tree Project Permit	Footings:	
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Roof:	
Roadside Tree Project Permit #	<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 type="checkbox"/> Electric <input type="checkbox"/> Oil	
<input checked="" type="checkbox"/> Natural Gas <input type="checkbox"/> Propane Gas	
<input type="checkbox"/> Other:	
Sprinkler System:	
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Grading Permit Number:	<u>19000187</u>
Building Shell Permit Number:	<u>N/A.</u>

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: Ron Tash
 Print Name: Ron Tash
 Date: 7/5/19

Email Address: RTash@ColumbiaBuildingsinc.com
 Title/Company: Columbia Buildings, Inc.

RECEIVED
 JUL 05 2019
 LICENSES & PERMITS DIVISION

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>8/20/19</u>	<u>[Signature]</u>

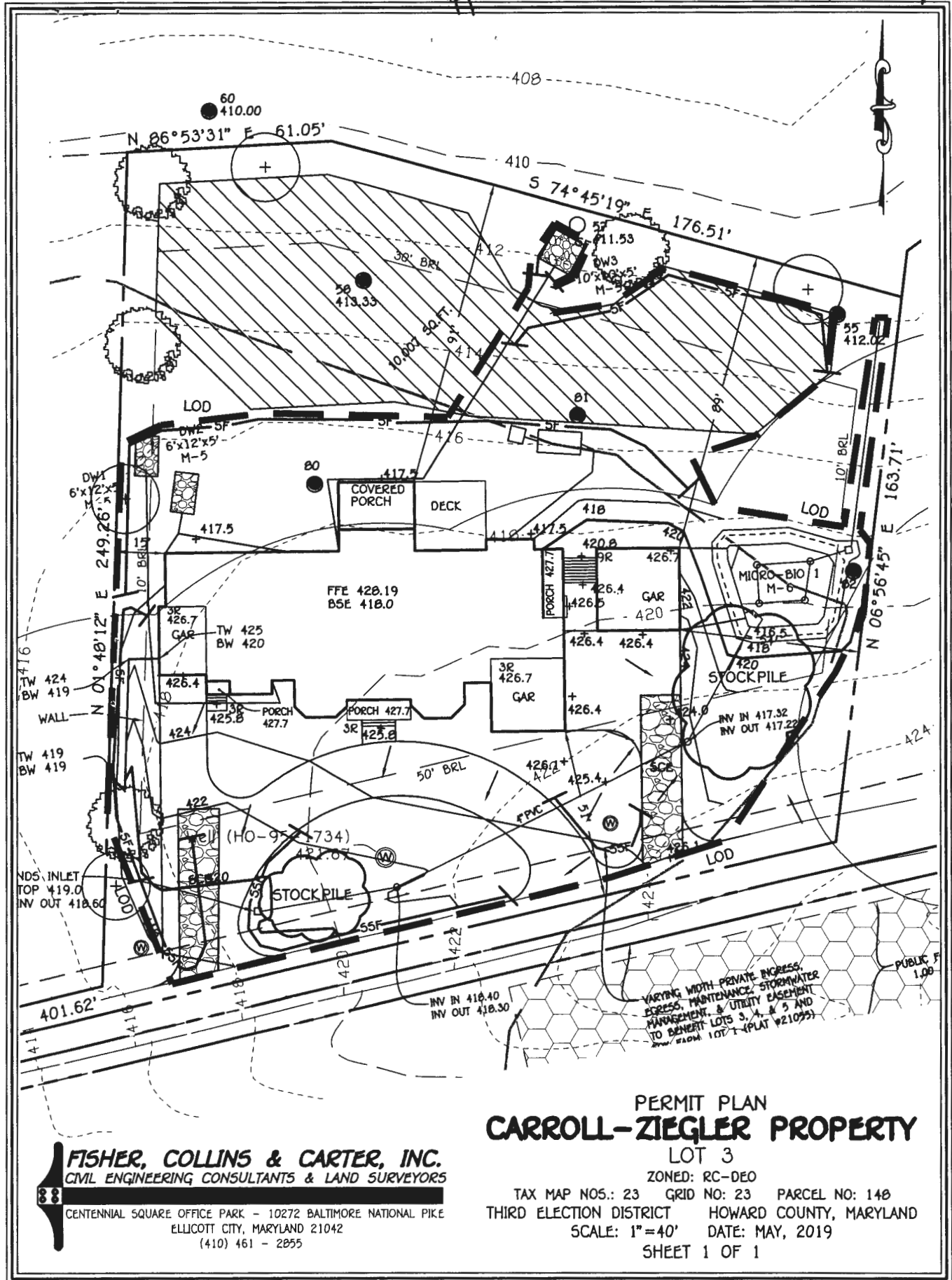
Is Sediment Control approval required for issuance? Yes No
 CONTINGENCY CONSTRUCTION START

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	\$ <u>100</u>
Permit Fee	\$
Tech Fee	\$
Excise Tax	\$
PSFS	\$
Guaranty Fund	\$ <u>50</u>
Add'l per Fee	\$
Total Fees	\$
Sub- Total Paid	\$ <u>150</u>
Balance Due	\$ <u>500</u>
Check #	<u>5106</u>

Distribution of Copies: White: Building Officials Green: PSZA,Zoning Yellow: PSZA,Engineering Pink: Health Gold: SHA

Approved B19002185 R12 8/22/09



FISHER, COLLINS & CARTER, INC.
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
 CENTENNIAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE
 ELLICOTT CITY, MARYLAND 21042
 (410) 461 - 2855

PERMIT PLAN
CARROLL-ZIEGLER PROPERTY
 LOT 3
 ZONED: RC-DEO
 TAX MAP NOS.: 23 GRID NO: 23 PARCEL NO: 148
 THIRD ELECTION DISTRICT HOWARD COUNTY, MARYLAND
 SCALE: 1"=40' DATE: MAY, 2019
 SHEET 1 OF 1

HEALTH DEPT

B19002185

Approved
for 7 BRs
R/E 8/22/2019

	GRATED SQ. FT.	FRIESED SQ. FT.	COMMENTS
IN-LIN GARAGE	300	-	
RAISE GARAGE	504	-	
DETACHED GARAGE	576	-	
BATH	400	300	
1st FLOOR	5000	5000	
2nd FLOOR	3000	2000	
TOTALS	8570	5300	



FRONT ELEVATION



REAR ELEVATION



dw taylor
ASSOCIATES, INC.
ARCHITECT

1000 BERRY HALL DR. SUITE 200 ELICHTY CITY, MD 21043
P: (410) 884-1181 F: (410) 887-2824 www.dwtaylor.com

BID SET ONLY

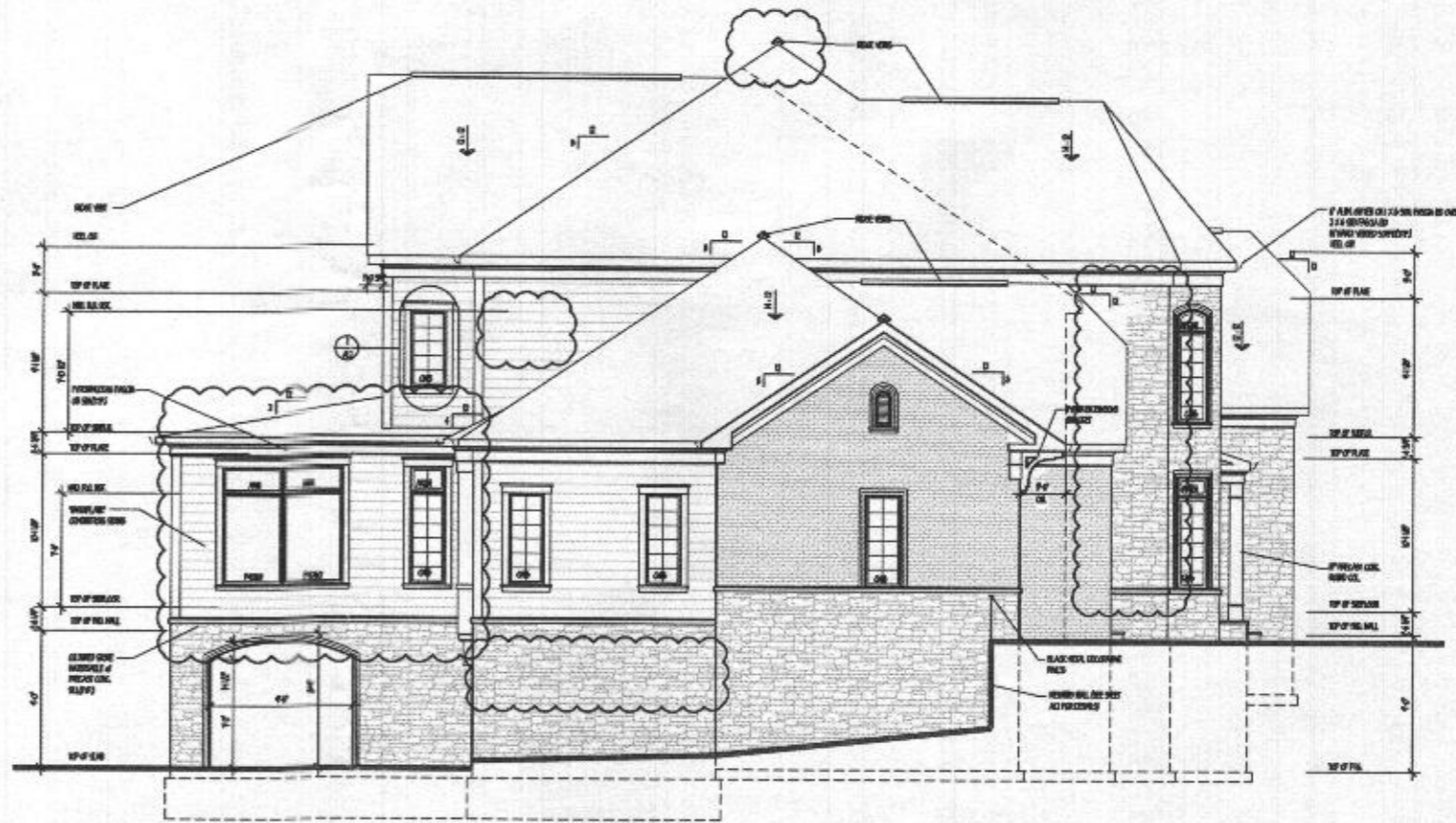
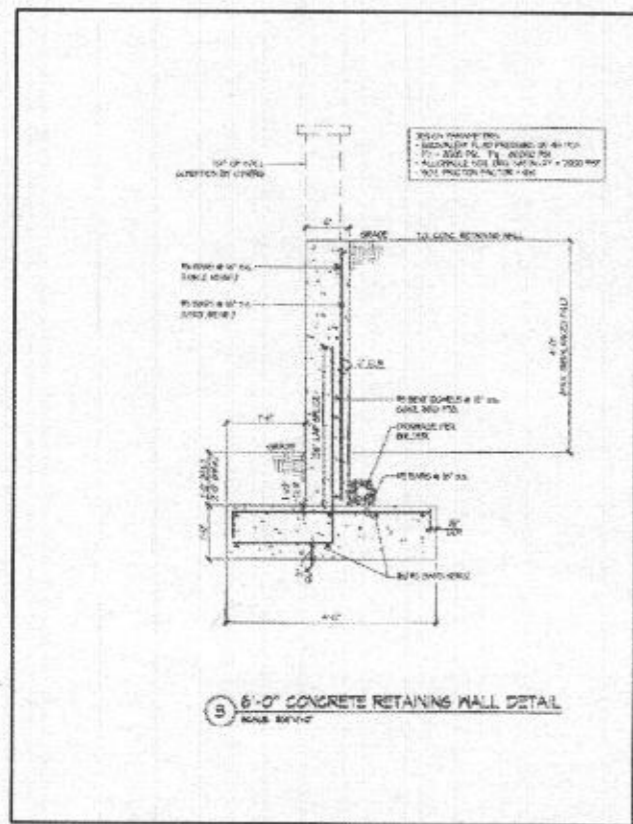
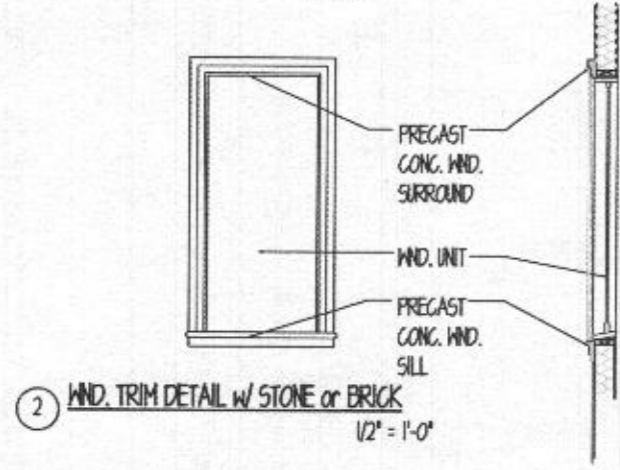
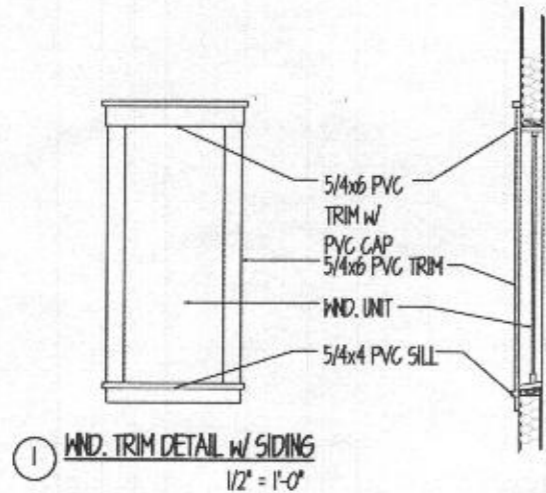
REVISIONS	
No.	Description

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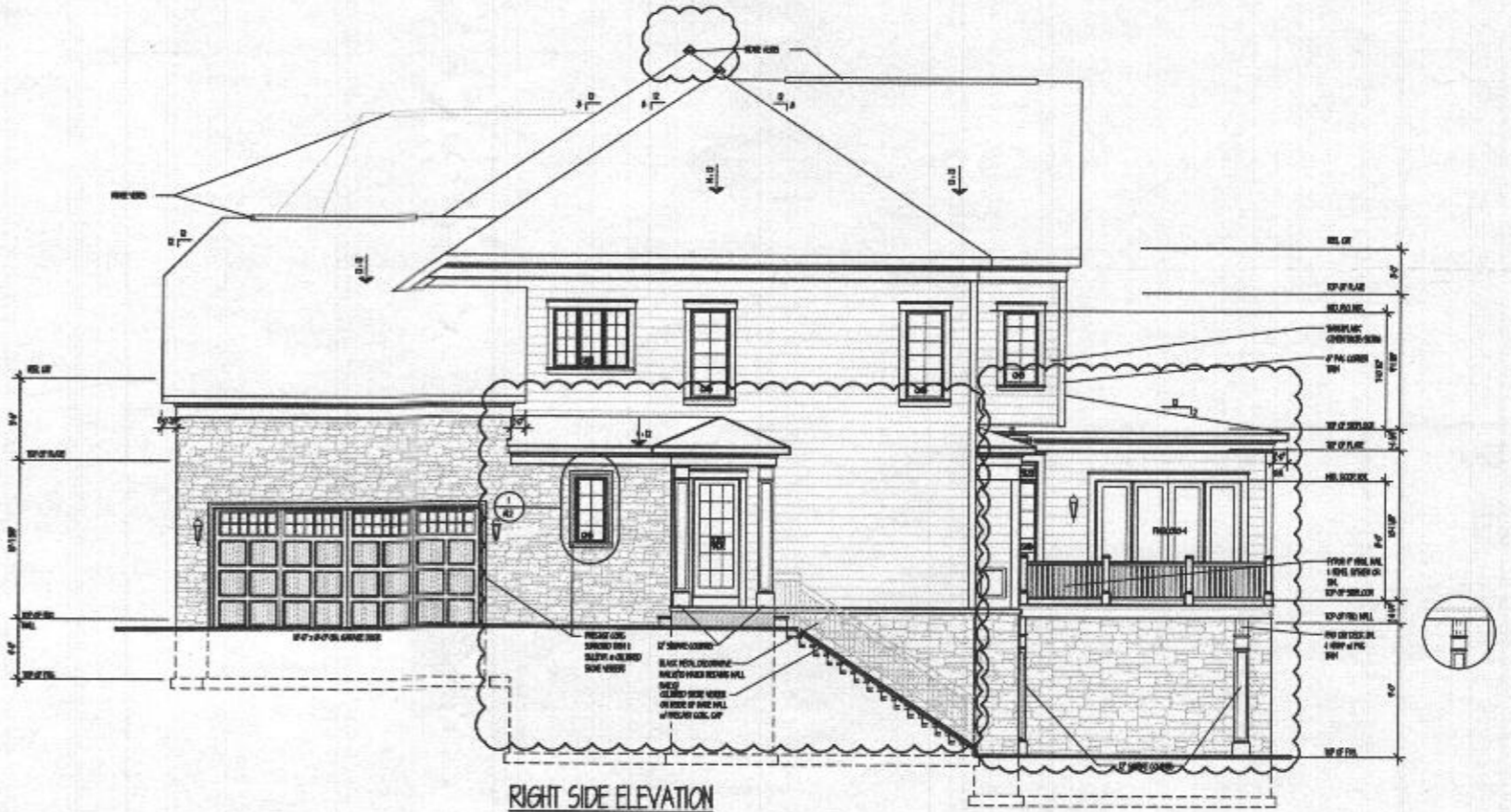
PROJECT TITLE
**COLUMBIA BUILDER'S
MORELAND RESIDENCE**

CONTENT
**FRONT & REAR
ELEVATIONS**

PROJECT NUMBER 2730	DRAWING NUMBER A1.1
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LEFT SIDE ELEVATION
*ALL TRANSOM WINDOWS STATIONARY



RIGHT SIDE ELEVATION
*ALL TRANSOM WINDOWS STATIONARY

PROFESSIONAL DESIGNER'S I CERTIFY THAT THESE DRAWINGS WERE PREPARED OR APPROVED BY ME AND THAT I AM A SELF-EMPLOYED ARCHITECT UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE # 2287-A, EXPIRES 06/30/19.

dw taylor
ASSOCIATES, INC.
ARCHITECT

2024 GORDON HALL DR. SUITE 203 COLLETT CITY, MD 21042
PLANNING AREA: 410-326-7242 FAX: 410-326-7201 www.dwtaylor.com

**** BID SET ONLY ****

REVISIONS	
Date	Describe

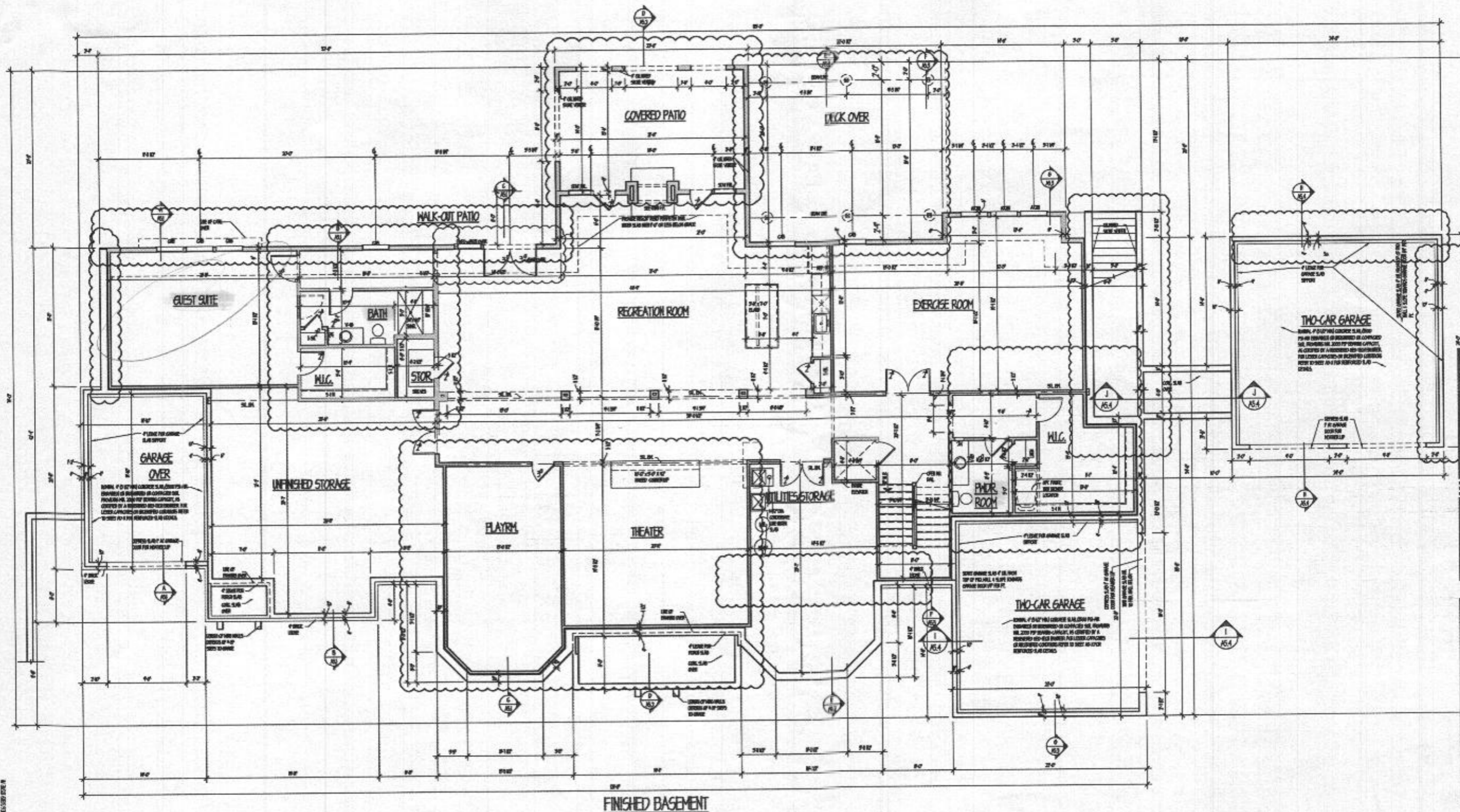
Drawn by: **ESB** Prepared by: Date: **05-21-2014**

Scale: **3/8" = 1'-0"**

PROJECT TITLE
COLUMBIA BUILDER'S MORELAND RESIDENCE

CONTENT
LEFT & RIGHT SIDE ELEVATIONS

PROJECT NUMBER 2730	DRAWING NUMBER A1.2
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PROFESSIONAL CERTIFICATION: I CERTIFY THAT THESE DRAWINGS WERE PREPARED OR APPROVED BY ME AND THAT I AM A DULY LICENSED ARCHITECT UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE # 2001-4, EXPIRES DATE 06/30/18

dw taylor
 ASSOCIATES INC
 ARCHITECT

8004 ROCKY HILL DR. SUITE 200 BLOOMING GATE, MD 21117
 410.486.1300 F. 410.486.2004 www.dwtaylor.com

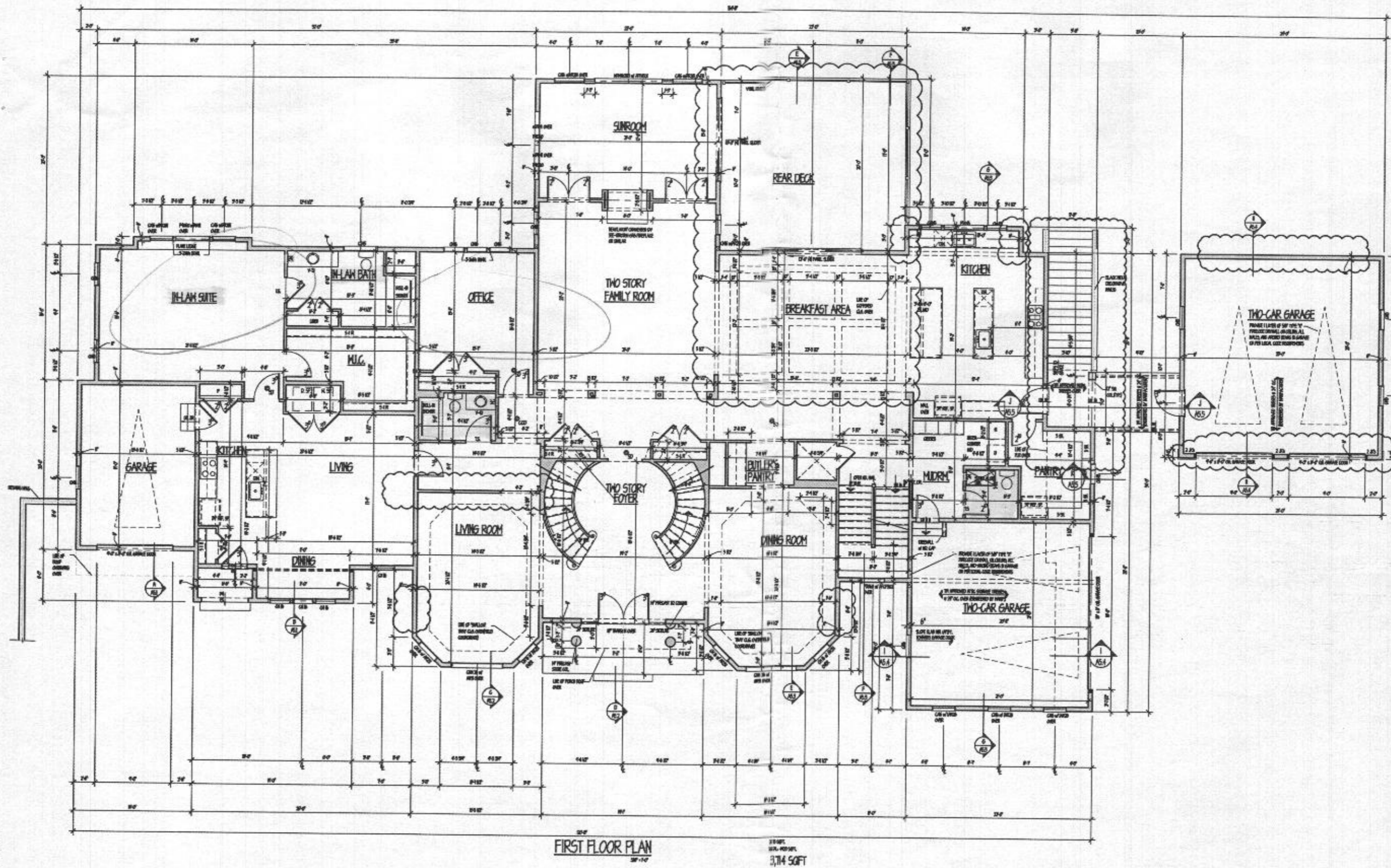
BID SET ONLY

REVISIONS	
DATE	REVISION

DATE	05-21-2018
SCALE	3/8" = 1'-0"
PROJECT TITLE	COLUMBIA BUILDER'S MORELAND RESIDENCE
PROJECT NUMBER	2130
DRAWING NUMBER	A2.1

PROJECT TITLE	COLUMBIA BUILDER'S MORELAND RESIDENCE
CONTENT	BASEMENT PLAN
PROJECT NUMBER	2130
DRAWING NUMBER	A2.1

DATE: 05-21-2018 10:00 AM



FIRST FLOOR PLAN
3/8" = 1'-0"

3,714 SQ FT

PROFESSIONAL ARCHITECTS I CERTIFY THAT THESE DRAWINGS WERE PREPARED BY ME OR UNDER MY CLOSE PERSONAL SUPERVISION AND THAT I AM A DULY LICENSED ARCHITECT UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE # 2007-01, EXPIRES DATE 12/31/12

dw taylor
ASSOCIATES, P.C.
ARCHITECT

2008 HENRY HALL DR. SUITE 200 ELLETTT CITY, MD 21042
P: 410-326-1100 F: 410-326-8004 www.dwtaylor.com

BID SET ONLY

REVISIONS	
DATE	REVISION

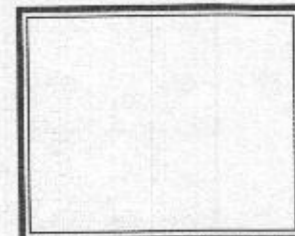
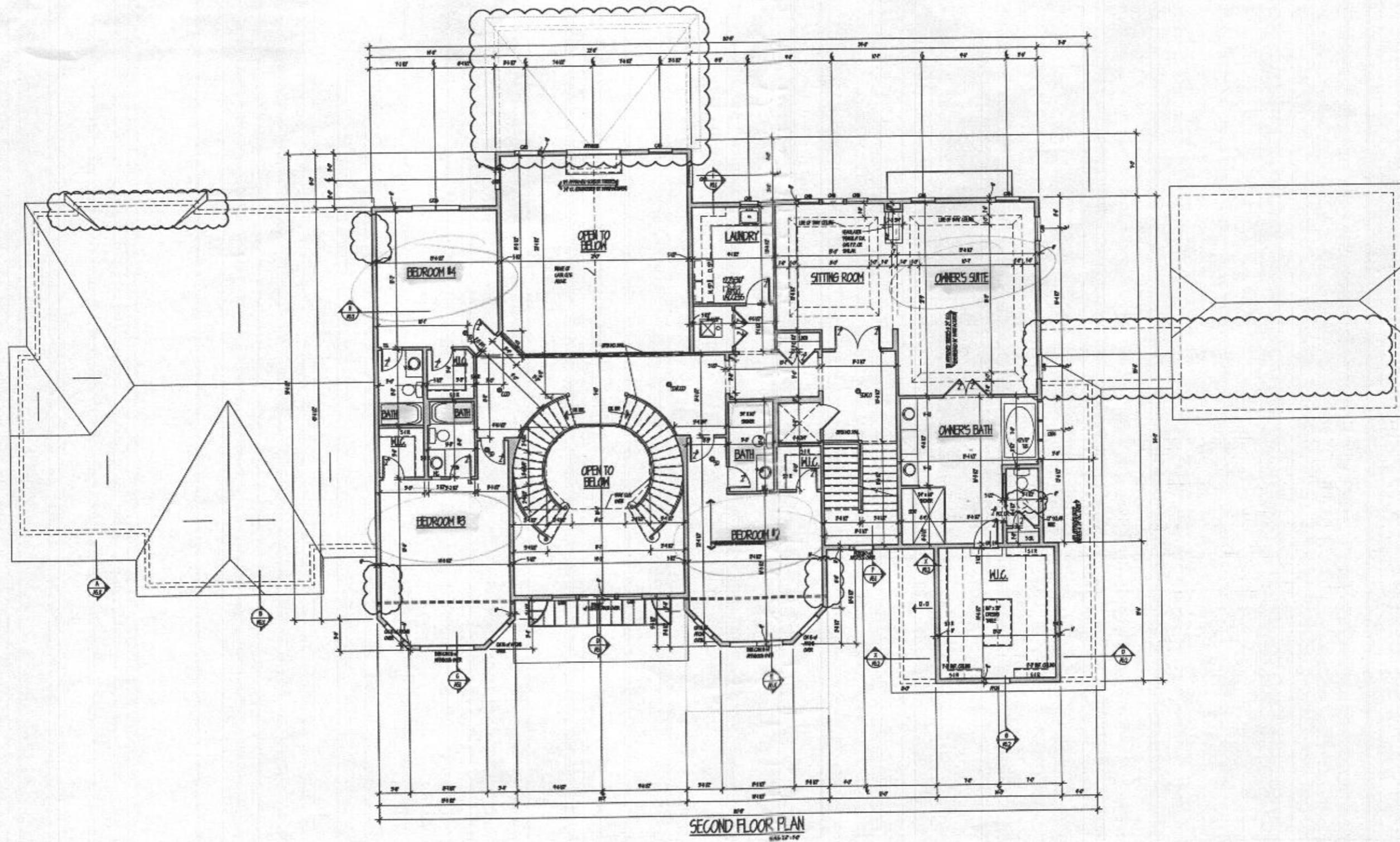
Drawn by: ECAB	Checked by:
Scale: 3/8" = 1'-0"	Date: 05-21-2011

PROJECT TITLE
COLUMBIA BUILDER'S MORELAND RESIDENCE

CONTENT
FIRST FLOOR PLAN

PROJECT NUMBER 2730	DRAWING NUMBER A3.1
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NOT TO SCALE. REFER TO ALL OTHER DRAWINGS FOR DIMENSIONS AND NOTES.



PROFESSIONAL CORPORATION. I CERTIFY THAT THESE DOCUMENTS WERE PREPARED BY ME AND THAT I AM A DULY LICENSED ARCHITECT UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE # 2001-4, EXPIRES DATE 02/27/10

dw taylor
ASSOCIATES, INC.
ARCHITECT

1424 GREENE HALL, SUITE 200, BELLEFONTAINE CITY, OH 43113
P: (614) 884-1181 F: (614) 887-2204 www.dwtaylor.com

== BID SET ONLY ==

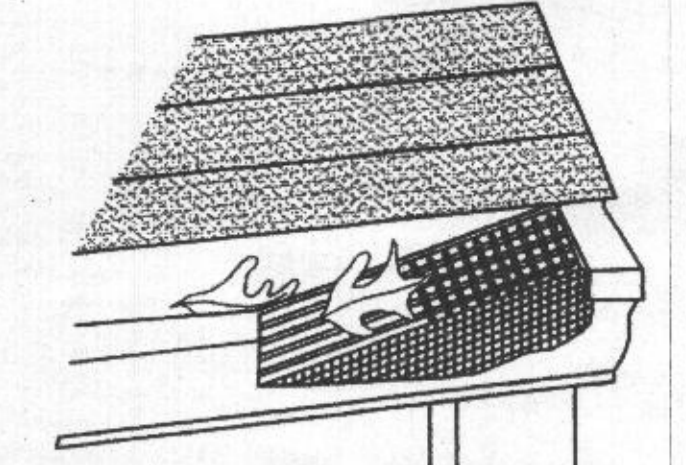
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Scale: **3/8" = 1'-0"** Date: **05-21-2008**

PROJECT TITLE
**COLUMBIA BUILDER'S
MORELAND RESIDENCE**

CONTENT
**SECOND FLOOR
PLAN**

PROJECT NUMBER 2130	DRAWING NUMBER A4.1
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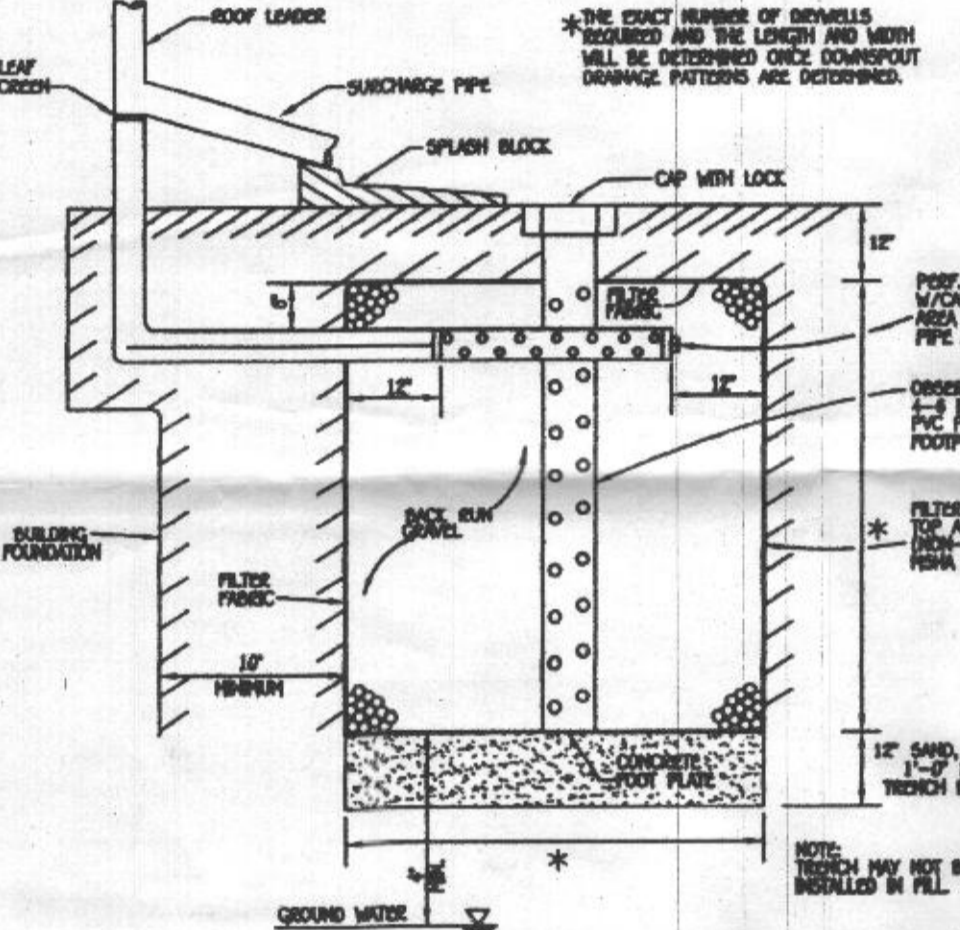
GUTTER DRAIN FILTER DETAIL
NOT TO SCALE

STORMWATER MANAGEMENT NOTES

1. STORMWATER MANAGEMENT IS PROVIDED IN ACCORDANCE WITH CHAPTER 5, "ENVIRONMENTAL SITE DESIGN" OF THE 2007 MARYLAND STORMWATER MANAGEMENT DESIGN MANUAL, EFFECTIVE MAY 4, 2010.
2. MAXIMUM CONTRIBUTING ROOF TOP AREA TO EACH DOWNSPOUT SHALL BE 1,000 SQ. FT. OR LESS.
3. DOWNSPOUTS SHALL BE PROVIDED AT LOCATIONS WHERE THE LENGTH OF DISCONNECTION IS LESS THAN 75' AT 5% THE SIZE AND CONSTRUCTION OF THE DOWNSPOUT SHALL BE IN ACCORDANCE WITH THE DETAIL SHOWN ON THIS SHEET.
4. FINAL GRADING IS SHOWN ON THIS PLAN.

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

- A. THE OWNER SHALL INSPECT THE MONITORING WELLS AND STRUCTURES ON A QUARTERLY BASIS AND AFTER EVERY HEAVY STORM EVENT.
- B. THE OWNER SHALL RECORD THE WATER LEVELS AND SEDIMENT BUILD UP IN THE MONITORING WELLS OVER A PERIOD OF SEVERAL DAYS TO ENSURE TRENCH DRAINAGE.
- C. THE OWNER SHALL MAINTAIN A LOG BOOK TO DETERMINE THE RATE AT WHICH THE FACILITY DRAINS.
- D. WHEN THE FACILITY BECOMES CLOGGED SO THAT IT DOES NOT DRAIN DOWN WITHIN A SEVENTY-TWO (72) HOUR TIME PERIOD, CORRECTIVE ACTION SHALL BE TAKEN.
- E. THE MAINTENANCE LOG BOOK SHALL BE AVAILABLE TO HOWARD COUNTY FOR INSPECTION TO INSURE COMPLIANCE WITH OPERATION AND MAINTENANCE CRITERIA.
- F. 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.



DRY WELL DETAIL (M-5)
NOT TO SCALE

OPERATION & MAINTENANCE SCHEDULE FOR PRIVATELY OWNED AND MAINTAINED, DISCONNECTION OF ROOFTOP RUNOFF (N-1) DISCONNECTION OF NONROOFTOP RUNOFF (N-2)

1. MAINTENANCE OF AREAS RECEIVING DISCONNECTION RUNOFF IS GENERALLY NO DIFFERENT THAN THAT REQUIRED FOR OTHER LAWN OR LANDSCAPED AREAS. THE AREAS RECEIVING RUNOFF SHOULD BE PROTECTED FROM FUTURE CONSTRUCTION OR DEVELOPMENT OF IMPERVIOUS AREA IN COMMERCIAL AREAS FOOT TRAFFIC SHOULD BE DISCOURAGED AS WELL.

OWNER'S / DEVELOPER'S CERTIFICATE

"I/We certify that any clearing, grading, construction, or development will be done pursuant to this approved erosion and sediment control plan, including inspecting and maintaining controls, and that the responsible personnel involved in the construction project will have a Certificate of Training at a Maryland Department of the Environment (MDE) approved training program for the control on erosion and sediment prior to beginning the project. I shall engage a Maryland registered professional engineer to supervise pond construction, and provide the Howard Soil Conservation District with an "As-Built" plan of the pond within 30 days of completion. I certify right-of-entry for periodic on-site evaluation by Howard County, Howard Soil Conservation District and/or MDE.

Signature of Developer: *Stephan Suite* Date: 5/16/19

ENGINEER'S CERTIFICATE

"I certify that this has been designed in accordance with current Maryland erosion and sediment control laws, regulations, and standards, that it represents a practical and workable plan based on my personal knowledge of the site, and that it was prepared in accordance with the requirements of the Howard Soil Conservation District. I have notified the developer that he/she must engage a registered professional engineer to supervise pond construction and provide the Howard County Soil Conservation District with an "As-Built" plan of the pond within 30 days of completion."

Signature: *Stephan Suite* Date: 5/16/19
 P.E., R.L.S., or R.L.A. (circle one)
 M.D. Registration No. 38386
 Signature of Professional Engineer: *Stephan Suite* Date: 5/16/19

LEGEND

- PERIMETER LANDSCAPING PER F-08-140
- 65' SUPER SILT FENCE
- 5' SILT FENCE
- STABILIZED CONSTRUCTION ENTRANCE
- LOD LIMITS OF DISTURBANCE
- P55MC PERMANENT SOIL STABILIZATION MATTING

LANDSCAPE PLANT LIST

SYMBOL	QUANTITY	SPECIES	SIZE	REMARKS
(Symbol)	4	QUERCUS SUBERA (RED OAK)	2.5'-3' CAL.	B&B
(Symbol)	4	TILIA CORDATA 'GREENSPRICE' (GREENSPRICE LITTLELEAF LINDEN)	2.5'-3' CAL.	B&B

STORMWATER MANAGEMENT NOTES

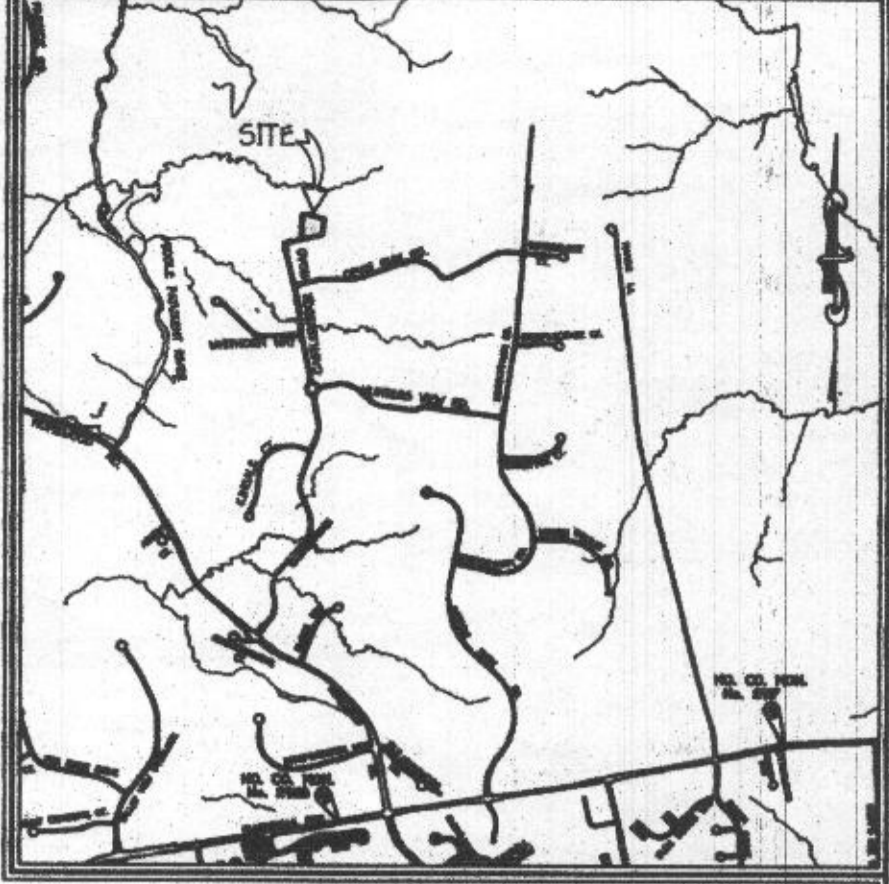
1. STORMWATER MANAGEMENT IS PROVIDED IN ACCORDANCE WITH CHAPTER 5, "ENVIRONMENTAL SITE DESIGN" OF THE 2007 MARYLAND STORMWATER MANAGEMENT DESIGN MANUAL, EFFECTIVE MAY 4, 2010.
2. MAXIMUM CONTRIBUTING ROOF TOP AREA TO EACH DOWNSPOUT SHALL BE 1,000 SQ. FT. OR LESS.
3. DOWNSPOUTS SHALL BE PROVIDED AT LOCATIONS WHERE THE LENGTH OF DISCONNECTION IS LESS THAN 75' AT 5% THE SIZE AND CONSTRUCTION OF THE DOWNSPOUT SHALL BE IN ACCORDANCE WITH THE DETAIL SHOWN ON THIS SHEET.
4. FINAL GRADING IS SHOWN ON THE SITE DEVELOPMENT PLAN.



GUTTER DRAIN FILTER DETAIL
NOT TO SCALE

OPERATION AND MAINTENANCE SCHEDULE FOR BIO-RETENTION AREAS (M-6)

1. THE OWNER SHALL MAINTAIN THE PLANT MATERIAL, MULCH LAYER AND SOIL LAYER ANNUALLY. MAINTENANCE OF MULCH AND SOIL IS LIMITED TO CORRECTING AREAS OF EROSION OR WASH OUT. ANY MULCH REPLACEMENT SHALL BE DONE IN THE SPRING. PLANT MATERIAL SHALL BE CHECKED FOR DISEASE AND INSECT INFESTATION AND MAINTENANCE WILL ADDRESS DEAD MATERIAL AND PRUNING. ACCEPTABLE REPLACEMENT PLANT MATERIAL IS LISTED IN THE FOLLOWING 2008 MARYLAND STORMWATER DESIGN MANUAL VOLUME II, TABLE A.4.1 AND 2.
2. THE OWNER SHALL PERFORM A PLANT IN THE SPRING AND IN THE FALL EACH YEAR. DURING THE INSPECTION, THE OWNER SHALL REMOVE DEAD AND DISEASED VEGETATION CONSIDERED BEYOND TREATMENT, REPLACE DEAD PLANT MATERIAL WITH ACCEPTABLE REPLACEMENT PLANT MATERIAL, TRIM DISEASED TWIGS AND BRANCHES AND REPLACE ALL DEFICIENT AREAS AND GAPS.
3. THE OWNER SHALL INSPECT THE MULCH EACH SPRING. THE MULCH SHALL BE REPLACED EVERY TWO TO THREE YEARS. THE PREVIOUS MULCH LAYER SHALL BE REMOVED BEFORE THE NEW LAYER IS APPLIED.
4. THE OWNER SHALL CORRECT SOIL EROSION ON AN AS NEEDED BASIS, WITH A MINIMUM OF ONCE PER MONTH AND AFTER EACH HEAVY STORM.



VICINITY MAP
SCALE: 1" = 200'

GENERAL NOTES:

1. THIS AREA DESIGNATES A PRIVATE SEWERAGE EASEMENT OF AT LEAST 10,000 SQ. FEET AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT FOR BIOMASS DISPOSAL. PROVISIONS OF ANY NATURE IN THIS AREA ARE RESTRICTED UNTIL PUBLIC SEWERAGE IS AVAILABLE. THESE EASEMENTS SHALL BECOME NULL AND VOID UPON CONNECTION TO A PUBLIC SEWERAGE SYSTEM. THE COUNTY HEALTH OFFICES SHALL HAVE THE AUTHORITY TO GRANT ADJUSTMENTS TO THE PRIVATE SEWERAGE EASEMENT. RECORDATION OF A MODIFIED SEWERAGE EASEMENT SHALL NOT BE NECESSARY.
2. ADJUSTMENTS TO SEWERAGE EASEMENT AREA IS NOT PERMITTED WITHOUT ADDITIONAL TESTING.
3. THE LOT SHOWN HEREON COMPLIES WITH THE MINIMUM OWNERSHIP WIDTH AND LOT AREA AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT. EXISTING WELLS AND/OR SEWERAGE EASEMENTS WITHIN 100 FEET OF THE PROPERTY HAVE BEEN SHOWN FROM THE BEST AVAILABLE INFORMATION.
4. TOPOGRAPHY SHOWN IN THE AREA OF THE LOT BEING DISTURBED IS BASED ON A TOPOGRAPHIC SURVEY BY PERDUE, COLLINS & CARTER, INC. IN APRIL, 2017 AND SUPPLEMENTED WITH HOWARD COUNTY GIS TOPOGRAPHY AT 2' CONTOUR INTERVAL.
5. BOUNDARY OF LOT BASED ON PLAT #21095-21096.
6. ANY CHANGES TO A PRIVATE SEWERAGE EASEMENT SHALL REQUIRE A REVISED PERC CERTIFICATION PLAN.
7. DEED REFERENCE: LINES 1848 FOLD 485.
8. LIFT OF DISTURBANCE: 34,018 SQ.FT. OR 0.78 ACRES.
9. SUBJECT PROPERTY ZONED: RC-DEO.
10. TOTAL AREA OF PROPERTY: 50,780 SQ.FT. OR 1.17 AC.
11. WETLANDS, STREAMS, TREE BUFFERS, FLOODPLAIN, FOREST, AND STEEP SLOPES DO NOT EXIST ON THIS LOT.
12. SOILS SHOWN HEREON ARE BASED ON NRCS WEB SOIL SURVEY AND HOWARD COUNTY SOILS MAP 17.
13. THIS PLAN COMPLIES WITH THE REQUIREMENTS OF SECTION 16.1200 OF THE HOWARD COUNTY CODE FOR FOREST CONSERVATION UNDER F-08-140 (PLAT #21095-21096). LANDSCAPE SURETY FOR THE 6 SHADE TREES IN THE AMOUNT OF \$1,800 IS TO BE POSTED AS PART OF GRADING PERMIT.
14. \$3,300
15. \$3,300

SCHEDULE A - PERIMETER LANDSCAPE EDGE

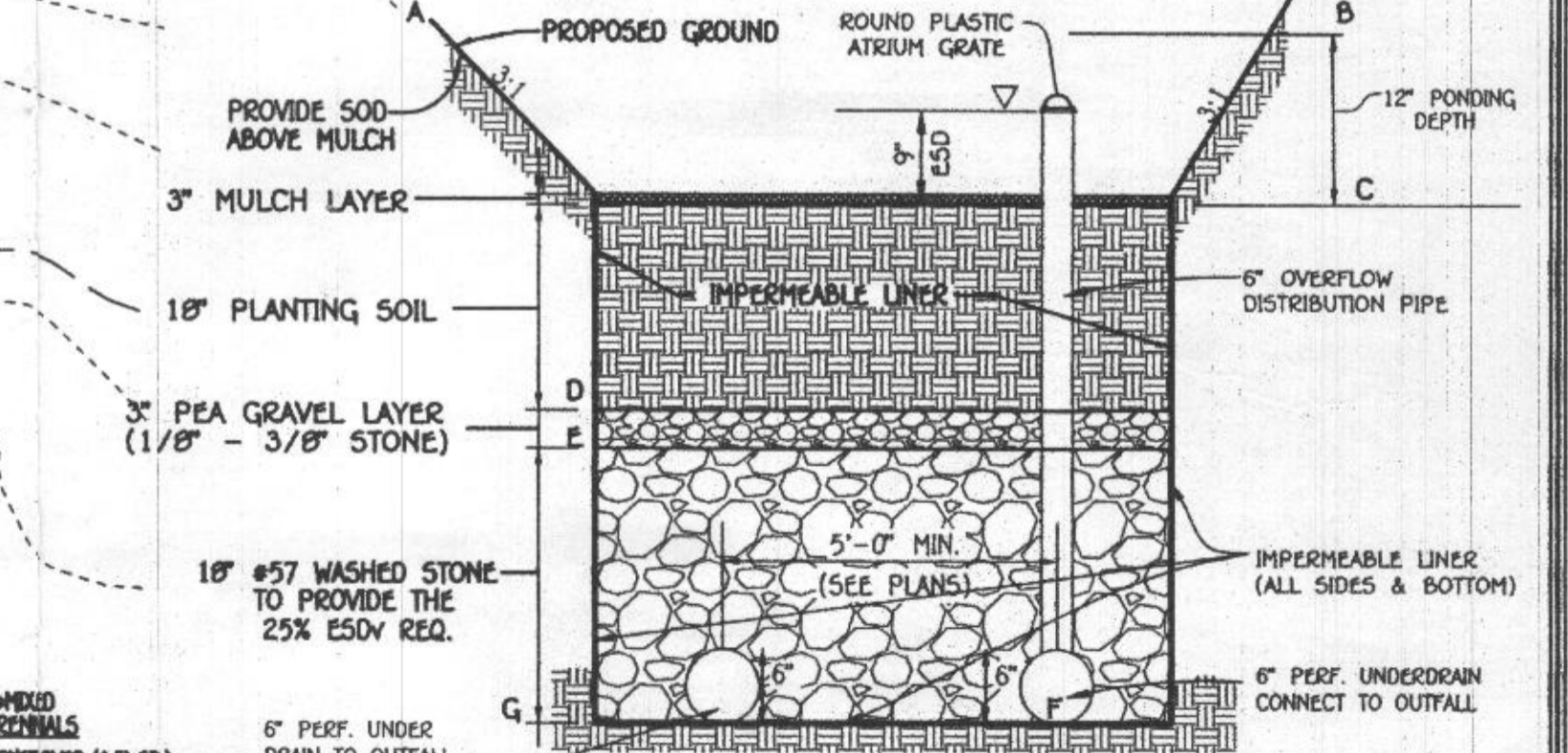
CATEGORY	ADJACENT TO		TOTAL
	1	2	
LANDSCAPE TYPE	A	A	
LINEAR FEET OF PERIMETER	249.25 LF	237.56 LF	
CREDIT FOR EXISTING TREES (TYPE & LENGTH)	NO	NO	
NUMBER OF PLANTS REQUIRED (SHADE TREES/EVERGREENS)	0	0	0
CREDIT FOR EXISTING VEGETATION (SHADE TREES/EVERGREENS)	4	4	8
NUMBER OF PLANTS PROVIDED (SHADE TREES/EVERGREENS)	4	4	8
NUMBER OF PLANTS PROVIDED (SMALL/MEDIUM OCCASIONAL TREES/EVERGREENS)	0	0	0

MICRO-BIORETENTION PLANT MATERIAL

MICRO-BIO QUANTITY	NAME	MINIMUM SPACING (FT.)
37	PERC PERENNIALS	1.5 TO 3.0 FT.
1	SILKY DOGWOOD	PLANT AWAY FROM INFLU LOCATOR

MICRO-BIORETENTIONS

MICRO-BIO FILTER	A	B	C	D	E	F	G	H
#1	417.50	417.50	418.50	418.50	414.75	413.17	413.17	412.00



MICRO BIO-RETENTION SECTION WITH 6" OVERFLOW DISTRIBUTION PIPE
NO SCALE

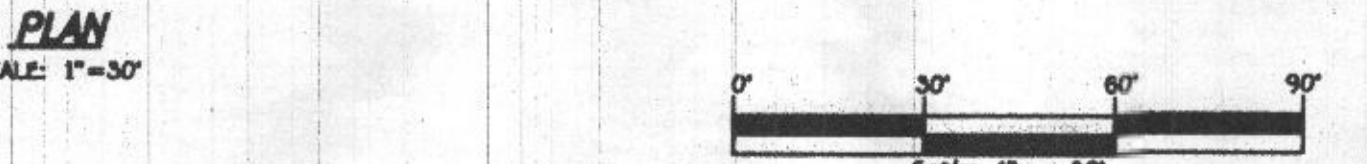
GRADING AND SEDIMENT & EROSION CONTROL PLAN CARROLL-ZIEGLER PROPERTY

LOT 3
 ZONED: RC-DEO
 TAX MAP NOS.: 23 & 29 GRID NOS.: 21, 22 & 3, 4 PARCEL NO: 29
 THIRD ELECTION DISTRICT HOWARD COUNTY, MARYLAND
 SCALE: AS SHOWN DATE: NOVEMBER, 2018
 SHEET 1 OF 2 **CP-19-050**

FISHER, COLLINS & CARTER, INC.
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
 CENTRAL SQUARE OFFICE BLDG. - 1875 BALTIMORE INDUSTRIAL PARK
 ELICOTT CITY, MARYLAND 21042
 (410) 441-2295

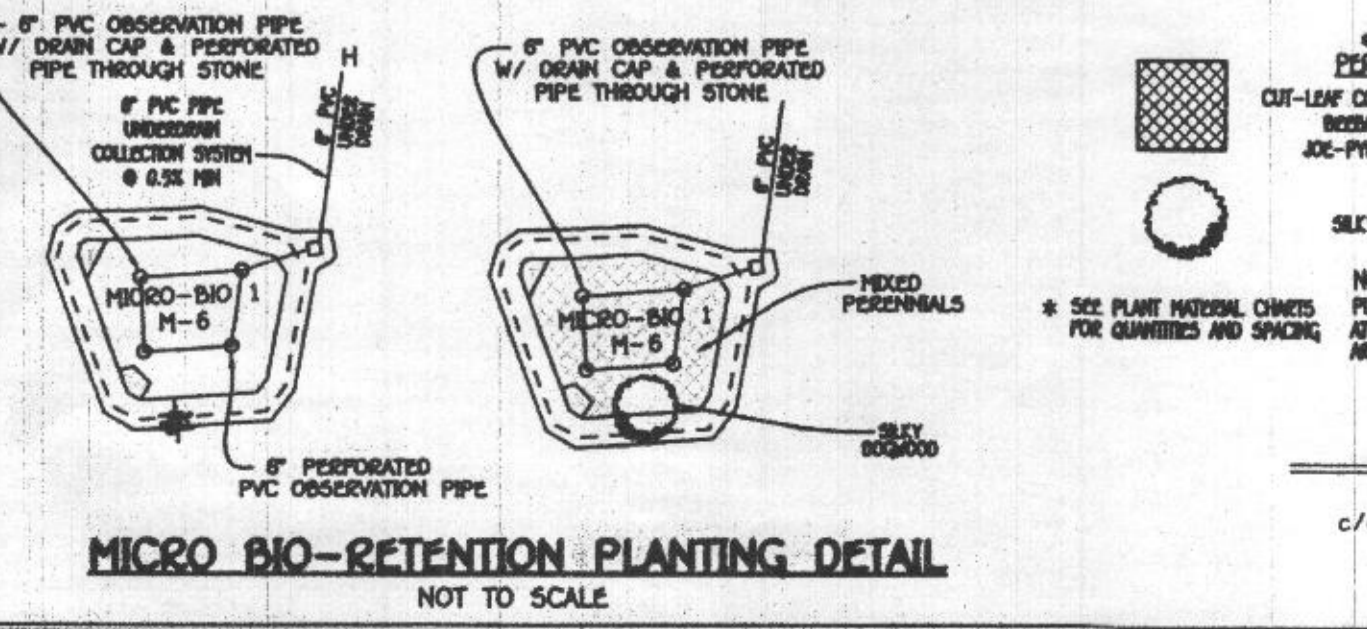
PROFESSIONAL CERTIFICATION
 I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM A DAILY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 38386, EXPIRATION DATE: 01/12/2023.

Signature: *Stephan Suite* Date: 5/16/19
 PROFESSIONAL ENGINEER



SOILS LEGEND

SOIL	NAME	CLASS	K FACTOR
GbB	Gladstone loam, 3 to 8 percent slopes	B	0.20
GbC	Gladstone loam, 8 to 15 percent slopes	B	0.20
GmB	Glenville silt loam, 3 to 8 percent slopes	C	0.37
GnB	Glenville-silt loam, 0 to 8 percent slopes	C	0.37



MICRO BIO-RETENTION PLANTING DETAIL
NOT TO SCALE

OWNER/DEVELOPER
 KEN MORLAND
 c/o GREENFIELD FAMILY HOMES, LLC
 6420 AUTUMN SKY WAY
 COLUMBIA, MARYLAND 21044
 410-324-4732

Approved B19002185 R1E 8/22/2019

