

GENERAL NOTES

- 1. SUBJECT PROPERTY ZONED R-12 PER THE 2-2-04 COMPREHENSIVE ZONING PLAN AND THE COMP-28, 2004...
2. THE EXISTING TOPOGRAPHY IS TAKEN FROM AERIAL SURVEY PREPARED BY WINGS AERIAL MAPPING CO., INC. IN 1993...
3. THE COORDINATES SHOWN HEREON ARE BASED UPON THE HOWARD COUNTY GEODETIC CONTROL WHICH IS BASED UPON THE MARYLAND STATE COORDINATE SYSTEM...
4. WATER AND SEWER ARE PUBLIC AND EXISTING UTILITIES ARE BASED ON CONTRACT 14-4285-D...
5. STORMWATER MANAGEMENT WILL BE PROVIDED IN ACCORDANCE WITH F-06-008, USING A MICROPOOL EXTENDED DETENTION POND HAZARD CLASS 'A'...
6. EXISTING UTILITIES SHOWN WERE LOCATED BY RECORD DRAWINGS AND FIELD LOCATIONS AND PER F-06-008...
7. 100 YEAR FLOODPLAIN STUDY PREPARED BY FSH ASSOCIATES AND APPROVED UNDER P-05-00 DATED JUNE 30, 2005...
8. WETLAND DELINEATION REPORT AND FOREST STAND DELINEATION REPORT PREPARED BY EXPLORATION RESEARCH, INC. AND APPROVED UNDER SP-03-14 DATED JUNE 12, 2003...
9. NO GRADING, REMOVAL OF VEGETATIVE COVER OR TREES, PAVING AND NEW STRUCTURES SHALL BE PERMITTED WITHIN THE REQUIRED WETLANDS, STREAM(S) OR THEIR BUFFERS...
10. A TRAFFIC STUDY FOR THIS PROJECT WAS PREPARED BY THE MARS GROUP DATED MAY 2, 2003 AND WAS APPROVED UNDER S-03-14...
11. THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH THE PROVISIONS OF SECTION 16.124 OF THE HOWARD COUNTY CODE AND THE LANDSCAPE MANUAL...
12. FINANCIAL SURETY FOR THE REQUIRED WORK POSTED AS PART OF THE OPW DEVELOPER'S AGREEMENT UNDER F-06-008, EXCEPTION OF LOT 34, LOT 34 LANDSCAPING WAS PROVIDED IN THE AMOUNT OF \$1,050.00 FOR 2 SHADE TREES AND 3 EVERGREEN TREES, PER SDP-08-027...
13. THIS PROJECT COMPLIED WITH THE REQUIREMENTS OF SECTION 16.1200 OF THE HOWARD COUNTY CODE FOR FOREST CONSERVATION BY PAYMENT OF A FEE-IN-LIEU OF \$62,944.30 FOR THE TOTAL FOREST CONSERVATION OBLIGATION AMOUNT OF 2.43 AC. REMAINING OBLIGATION IS \$2,613.50...
14. UNLESS NOTED AS "PRIVATE", ALL EASEMENTS ARE PUBLIC...
15. BRL INDICATES ZONING BUILDING RESTRICTION LINE, OTHER RESTRICTIONS MAY APPLY...
16. 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 10 FEET INTO THE FRONT OR REAR YARD SETBACK...
17. ANY DAMAGE TO THE COUNTY'S RIGHT-OF-WAY SHALL BE CORRECTED AT THE BUILDERS EXPENSE...
18. NO NOISE STUDY IS REQUIRED FOR THIS PROJECT...
19. THERE ARE NO HISTORIC STRUCTURES OR CEMETERIES ON-SITE...
20. 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...
21. DRIVEWAYS SHALL BE PROVIDED TO EASELANCE OF A USE AND OCCUPANCY PERMIT FOR ANY NEW DWELLINGS TO INSURE SAFE ACCESS FOR FIRE AND EMERGENCY VEHICLES PER THE FOLLOWING MINIMUM REQUIREMENTS:
a) WIDTH - 12' (16' SERVING MORE THAN ONE RESIDENCE)
b) SURFACE - 6" OF COMPACT CRUSHER RUN BASE WITH TAR AND CHIP COATING (1-1/2" MIN.)
c) GEOMETRY - MAXIMUM 14% GRADE, MAXIMUM 10% GRADE CHANGE AND MINIMUM 45' TURNING RADIUS.
d) STRUCTURES (CULVERTS/BRIDGES) - CAPABLE OF SUPPORTING 25 GROSS TONS (H25 LOADING)
e) DRAINAGE ELEMENTS - CAPABLE OF SAFELY PASSING 100 YEAR FLOODPLAIN WITH NO MORE THAN 1 FOOT DEPTH OVER DRIVEWAY.
f) STRUCTURE CLEARANCES - MINIMUM 12 FEET.
g) MAINTENANCE - SUFFICIENT TO INSURE ALL WEATHER USE.
22. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST STANDARDS AND SPECIFICATIONS OF HOWARD COUNTY...
23. ALL WATER METERS SHALL BE SET INSIDE...
24. 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...
25. THE CONTRACTOR SHALL NOTIFY "MISS UTILITY" AT 1-800-257-7777 AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION WORK BEING DONE...
26. FOR DRIVEWAY ENTRANCE DETAIL SEE HOWARD COUNTY STANDARD DETAILS R-6.03 & R-6.05...
27. SHC ELEVATIONS SHOWN ARE AT THE PROPERTY LINE OR EASEMENT LINE...
28. THE PRIVATE USE-IN-COMMON MAINTENANCE AGREEMENTS FOR LOTS 7-11 (L. 10561, F. 691), 16-23 (L. 10561, F. 686) AND 25-33 (L. 10561, F. 681) HAVE BEEN RECORDED IN THE LAND RECORDS OF HOWARD COUNTY, MARYLAND...
29. THE STAKING OF FOUNDATIONS PRIOR TO CONSTRUCTION TO ENSURE COMPLIANCE WITH REGULATORY BUILDING RESTRICTIONS IS RECOMMENDED...
30. DRIVEWAY SLOPES SHOWN ARE AVERAGE, THE SLOPE AT THE OUTSIDE EDGES COULD BE FLATTER OR STEEPER DEPENDING ON GRADE OF ROADWAY...
31. THIS PLAN CONFORMS WITH THE AMENDED 5th EDITION OF THE HOWARD COUNTY SUBDIVISION AND LAND DEVELOPMENT REGULATIONS. THE BUILDER SHALL APPLY FOR BUILDING PERMITS FOR ALL LOTS AS SHOWN ON THIS SITE DEVELOPMENT PLAN WITHIN FIVE YEARS OF SIGNATURE APPROVAL OF THIS PLAN...
32. ADDITIONAL OPEN SPACE WAS PROVIDED WITH THE PROVISION OF REDUCED MINIMUM LOT SIZE AS APPROVED ON F-06-008...
33. PREVIOUS HOWARD COUNTY FILE NUMBERS: S-03-014, F-06-008, SDP-08-027, F-02-163, F-03-83, P-05-09, WP-06-02, F-11-019, WP-11-140...
34. ALL EXISTING WELLS AND SEPTIC SYSTEMS HAVE BEEN ABANDONED UNDER F-06-008...
35. THE LOTS SHOWN HEREON COMPLY WITH THE MINIMUM OWNERSHIP WIDTH AND LOT AREA AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT...
36. AN EXISTING 5'x20' CONCRETE REFUSE AND RECYCLING COLLECTION PAD IS TO BE UTILIZED BY RESIDENTS LIVING ON MARY THERESA COURT AND AUTUMN HAVEN COURT. MAINTENANCE OBLIGATIONS ARE SET IN THE PRIVATE ACCESS PLACE MAINTENANCE AGREEMENT RECORDED AMONG THE LAND RECORDS OF HOWARD COUNTY...
37. A PRIVATE RANGE OF ADDRESS SIGN ASSEMBLY SHALL BE FABRICATED AND INSTALLED AT EVERY FLAG LOT DRIVEWAY BY HOWARD COUNTY BUREAU OF HIGHWAYS AT THE DEVELOPERS/OWNERS EXPENSE, CONTACT HOWARD COUNTY TRAFFIC DIVISION AT 410-313-5752 FOR DETAILS AND COST ESTIMATES.

SITE ANALYSIS DATA CHART

Table with 2 columns: Item and Value. Includes total project area (5.19 ac), area of this plan submission (5.19 ac), approximate limit of disturbance (5.19 ac), present zoning (R-12 residential single family detached units), proposed use of site (residential single family detached units), floor space per lot (N/A), total number of units allowed (2.8), total number of units proposed (2.8), maximum number of employees per use (N/A), number of parking spaces required (N/A), number of parking spaces provided (N/A), open space on-site (5.74ac), area of recreational open space required (6,600 SF), building coverage of site (N/A), applicable DPZ file references (SDP-08-027, F-06-008, F-02-163, F-03-83, S-03-14, P-05-09, WP-06-02, CONTRACT 14-4285-D, F-11-019, WP-11-140), proposed water and sewer systems (X PUBLIC, PRIVATE WP-11-140).

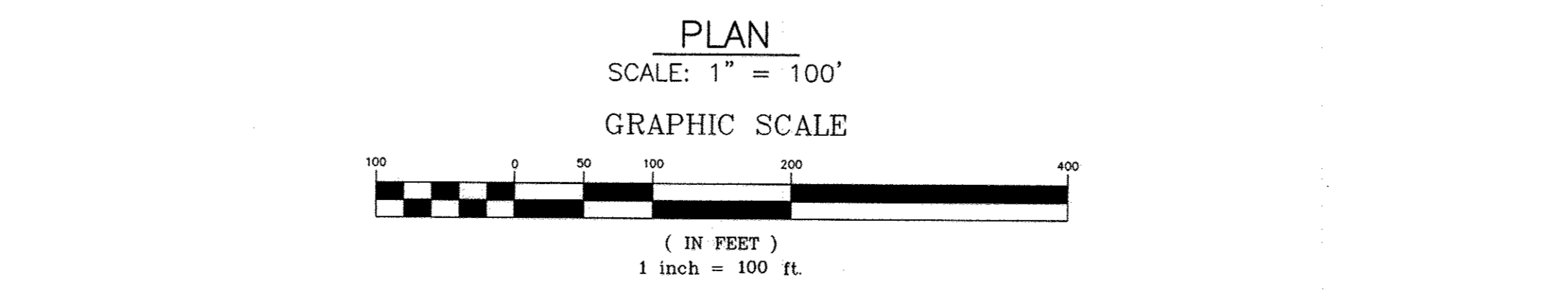
41. WAIVER PETITION WP-11-140 WAS APPROVED BY A LETTER DATED MARCH 23, 2011 TO WAIVER ARTICLE II, SECTION 16.121 (a)(4)(ii) REQUIRING OPEN SPACE TO BE REGULAR IN SHAPE...
42. WP-17-131, A REQUEST FOR AN ALTERNATIVE COMPLIANCE TO SECTION 16.156 (b)(1)(i) AND SECTION 16.156 (b)(1)(ii) OF THE SUBDIVISION AND LAND DEVELOPMENT REGULATIONS WAS APPROVED ON JULY 24, 2017 SUBJECT TO THE FOLLOWING CONDITIONS:
1) THE DEADLINE TO APPLY FOR A BUILDING PERMIT FOR LOT 24 SHALL BE EXTENDED TO 1 YEAR FROM THE DATE OF APPROVAL OF THIS ALTERNATIVE COMPLIANCE (JULY 24, 2018).

43. AA-10-19 FOR LOT 6 APPROVED ON 1-11-2011 REQUESTED A 20% REDUCTION TO THE REAR SETBACK FROM 30' TO 24'.
AA-10-20 FOR LOT 10 APPROVED ON 1-11-2011 REQUESTED A 20% REDUCTION TO THE REAR SETBACK FROM 30' TO 24'.
AA-10-22 FOR LOT 25 APPROVED ON 1-11-2011 REQUESTED A 20% REDUCTION TO THE REAR SETBACK FROM 30' TO 24'.
AA-10-21 FOR LOT 25 APPROVED ON 1-11-2011 REQUESTED A 20% REDUCTION TO THE SETBACK FROM A PUBLIC SIDEWALK 20' TO 10'.
THE CONDITIONS OF THE ABOVE AA'S ARE:
A) THE PETITIONER SHALL COMPLY WITH ALL APPLICABLE FEDERAL, STATE AND CITY LAWS AND REGULATIONS.
B) A PERMIT FOR SFD SHALL BE OBTAINED WITHIN 2 YRS AND SUBSTANTIAL CONSTRUCTION WITHIN 3 YRS.
C) THE AA SHALL APPLY SOLELY TO THE PROPOSED SFD STRUCTURE, ADDITION, BUILDING OR USE.
D) THE L/O SHALL BE MAINTAINED IN THE OWNER'S PROPERTY RECORDS AND SHALL BE TRANSFERRED TO ANY SUCCESSOR OWNER OF THE PROPERTY.

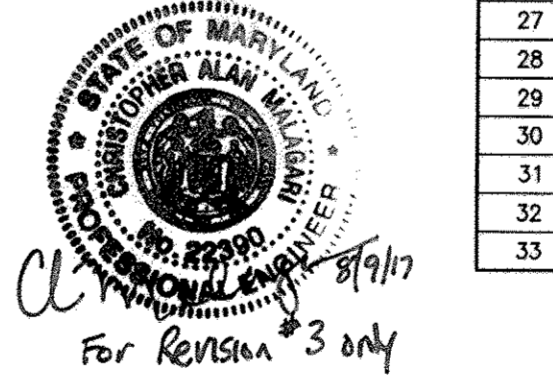
SEWER HOUSE CONNECTION ELEVATION DATA table with columns: LOT NO., MIN. CELLAR, SHC. INV., LOT NO., MIN. CELLAR, SHC. INV.

SITE DEVELOPMENT PLAN SUMMER HAVEN LOTS 4-12, 16-33 AND 35

1st ELECTION DISTRICT HOWARD COUNTY, MARYLAND



SHEET INDEX table with columns: NO., DESCRIPTION. Includes title sheet, site development, grading and sediment control plan, landscaping and erosion control notes and details, HCS/CD/MAA sediment and erosion control notes and details.



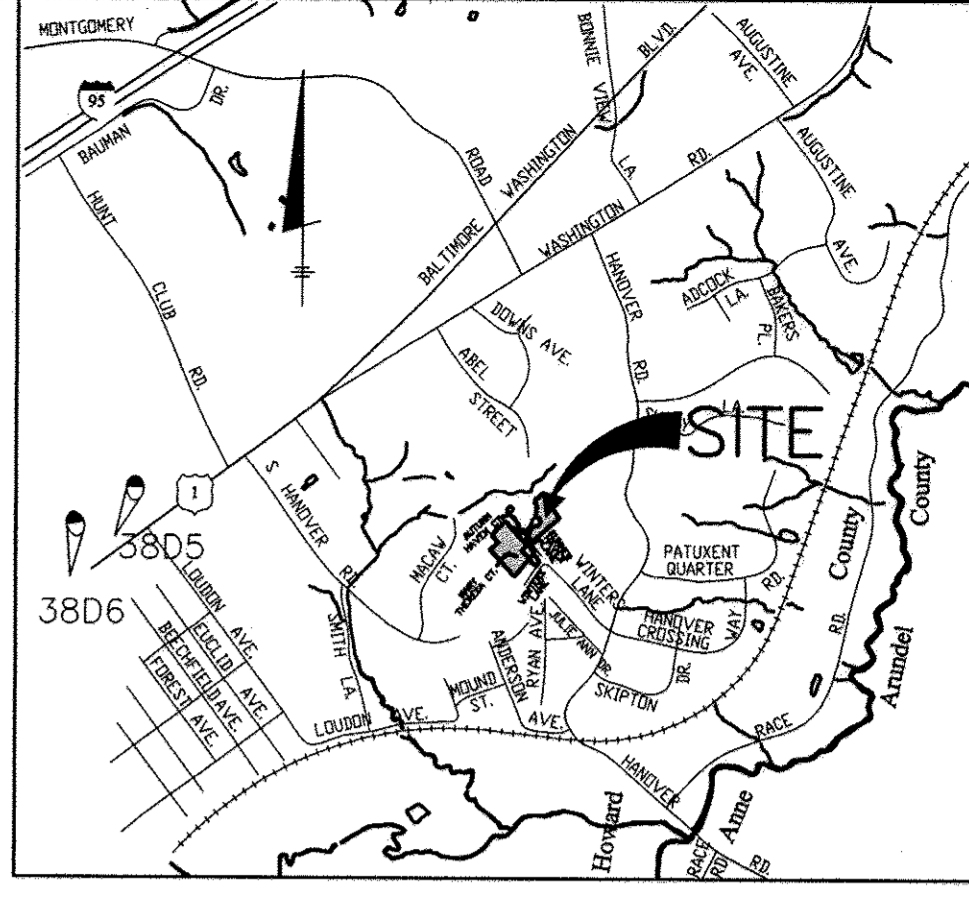
Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland. License No. 22390, Expiration Date: 6-30-19.

OWNER (LOTS 16, 33 AND 35) BUFFALO GAP, LLC 5570 STERRETT PLACE, SUITE 201 COLUMBIA, MARYLAND 21044 410-997-3815. OWNER (LOTS 4-12) NEWBUREN INVESTMENTS II, LLC 5570 STERRETT PLACE, SUITE 201 COLUMBIA, MARYLAND 21044 410-997-3815.

PERMIT INFORMATION CHART table with columns: SUBDIVISION NAME, SECTION/AREA, LOT/PARCEL #. Includes Summer Haven, Sections I and II, Lots 4-12, 16-33 & 35.

BENCH MARKS NAD'83 table with columns: HO. CO. #, ELEV., STAMPED (BRASS OR ALUMINUM) DISC SET ON TOP OF A CONCRETE COLUMN. Includes benchmarks for HO. CO. #3805 and HO. CO. #3806.

LEGEND table with symbols and descriptions: EXISTING CONTOURS, PROPOSED CONTOURS, LIMIT OF WETLANDS, EXISTING WOODS LINE, EXISTING STRUCTURE, PROPOSED STRUCTURE, FOREST CONSERVATION EASEMENT, PUBLIC SEWER, WATER AND UTILITY EASEMENT, PRIVATE STORMDRAIN AND UTILITY EASEMENT, PUBLIC TREE MAINTENANCE AND UTILITY EASEMENT, PUBLIC SIDEWALK EASEMENT, RIP-RAP, EROSION CONTROL MATTING, RECREATIONAL OPEN SPACE, STABILIZED CONSTRUCTION ENTRANCE, SUPER SILT FENCE, SILT FENCE, EXISTING LANDSCAPE TREES PER F-06-008, PROPOSED LANDSCAPING.



VICINITY MAP SCALE: 1"=2000' ADC MAP 17, GRID G9

MINIMUM LOT SIZE CHART table with columns: LOT, GROSS AREA (sq ft), PIPESTEM AREA (sq ft), MINIMUM LOT SIZE (sq ft).

ADDRESS CHART table with columns: LOT, STREET ADDRESS. Lists addresses from 6219 Summer Haven Lane to 6238 Winters Lane.

REVISION table with columns: NO., DATE, REVISION. Includes revisions for adding general note 42 and AA notes.

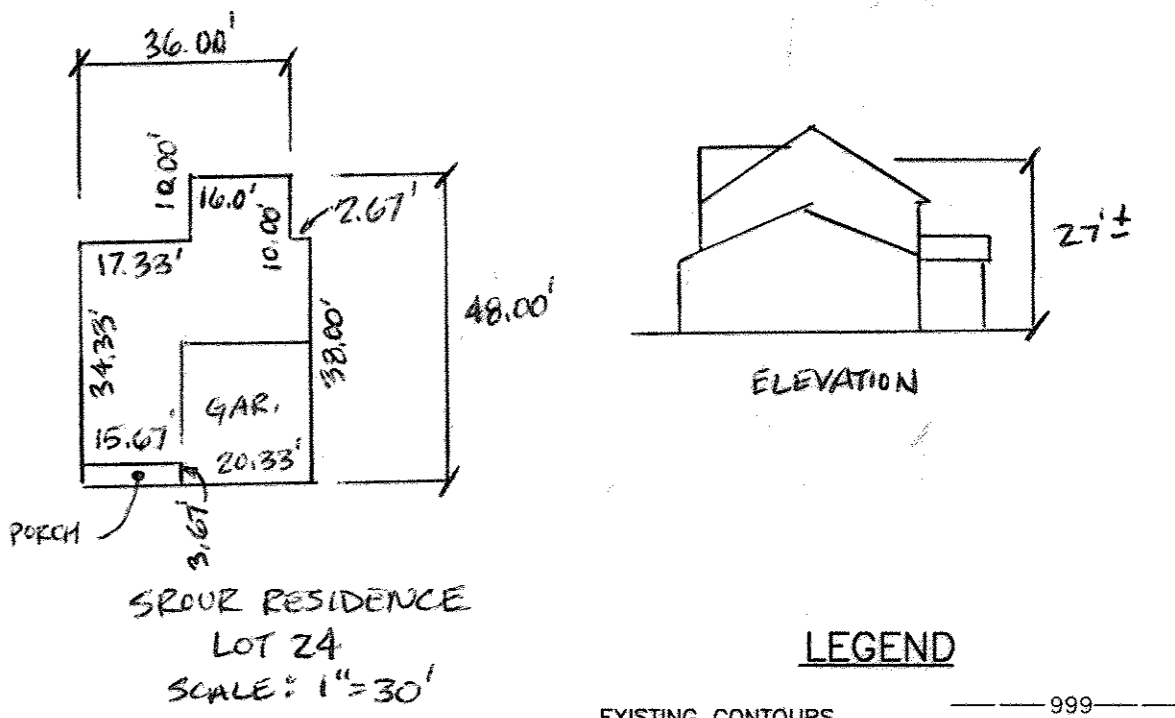
BENCHMARK ENGINEERING, INC. logo and contact information: 8480 BALTIMORE NATIONAL PIKE & SUITE 418, ELLICOTT CITY, MARYLAND 21043.

BUILDER: RICHMOND AMERICAN HOMES OF MARYLAND, INC. PROJECT: SUMMER HAVEN PHASES I & II. LOCATION: TAX MAP 38, GRID 14. TITLE: TITLE SHEET.

DATE: NOVEMBER, 2009. PROJECT NO. 2172. SCALE: AS SHOWN. DRAWING 1 OF 5. Includes professional engineer certification and project details.

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING. Includes signatures and dates for Chief, Division of Land Development and Director.

NOTE: LOT 25 IS SUBJECT TO ALL OF THE CONDITIONS OUT LINED IN GENERAL NOTE NO. 38 AA-10-022



- LEGEND**
- EXISTING CONTOURS
  - PROPOSED CONTOURS
  - LIMIT OF WETLANDS
  - EXISTING WOODS LINE
  - EXISTING STRUCTURE
  - PROPOSED STRUCTURE
  - FOREST CONSERVATION EASEMENT
  - PUBLIC SEWER, WATER AND UTILITY EASEMENT
  - PRIVATE STORMDRAIN AND UTILITY EASEMENT
  - PUBLIC TREE MAINTENANCE AND UTILITY EASEMENT
  - PUBLIC SIDEWALK EASEMENT
  - RIP-RAP
  - EROSION CONTROL MATTING
  - RECREATIONAL OPEN SPACE
  - STABILIZED CONSTRUCTION ENTRANCE
  - SUPER SILT FENCE
  - SILT FENCE
  - EXISTING LANDSCAPE TREES PER F-06-008
  - PROPOSED LANDSCAPING

**ENGINEER'S CERTIFICATE**  
 I HEREBY CERTIFY THAT THIS PLAN FOR SEDIMENT AND EROSION CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.  
 ENGINEER: *[Signature]* DATE: 2/17/2010

**DEVELOPER'S CERTIFICATE**  
 I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT FOR SEDIMENT AND EROSION CONTROL, AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT.  
 DEVELOPER: James C. Newham DATE: 2-19-2010

REVIEWED FOR HOWARD SCD AND MEETS TECHNICAL REQUIREMENTS  
 THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.  
 HOWARD SCD: *[Signature]* DATE: 2/12/10

NO.	DATE	REVISION
2	5-27-2011	REVISE GRADES IN REAR OF LOT 19 PER AS-BUILT CONDITIONS
1	7-13-10	REVISE LOT 26 TO SHOW A HARDY UNDEVELOPED LIVING AREA & MINOR GRADES, BEING FF & BE ELEV.

**BENCHMARK ENGINEERING, INC.**  
 ENGINEERS • LAND SURVEYORS • PLANNERS  
 8480 BALTIMORE NATIONAL PIKE # SUITE 418  
 ELLICOTT CITY, MARYLAND 21043  
 PHONE: 410-465-6105 FAX: 410-465-6644  
 E-MAIL: bel@benchmark-engineering.com

**OWNER (LOTS 16-33 AND 35)**  
 BUFFALO GAP, LLC  
 5570 STERRETT PLACE, SUITE 201  
 COLUMBIA, MARYLAND 21044  
 410-997-3815

**OWNER (LOTS 4-12)**  
 NEWBURN INVESTMENTS II, LLC  
 5570 STERRETT PLACE, SUITE 201  
 COLUMBIA, MARYLAND 21044  
 410-997-3815

**BUILDER:** RICHMOND AMERICAN HOMES OF MARYLAND, INC.  
 6200 OLD DOBBIN LANE, SUITE 190  
 COLUMBIA, MARYLAND 21045  
 410-312-2800

**PROJECT:** SUMMER HAVEN PHASE 1 & II  
 LOTS 4-12, 16-33 AND 35  
 SINGLE FAMILY DETACHED PLATS 18902 - 18904 & 21077

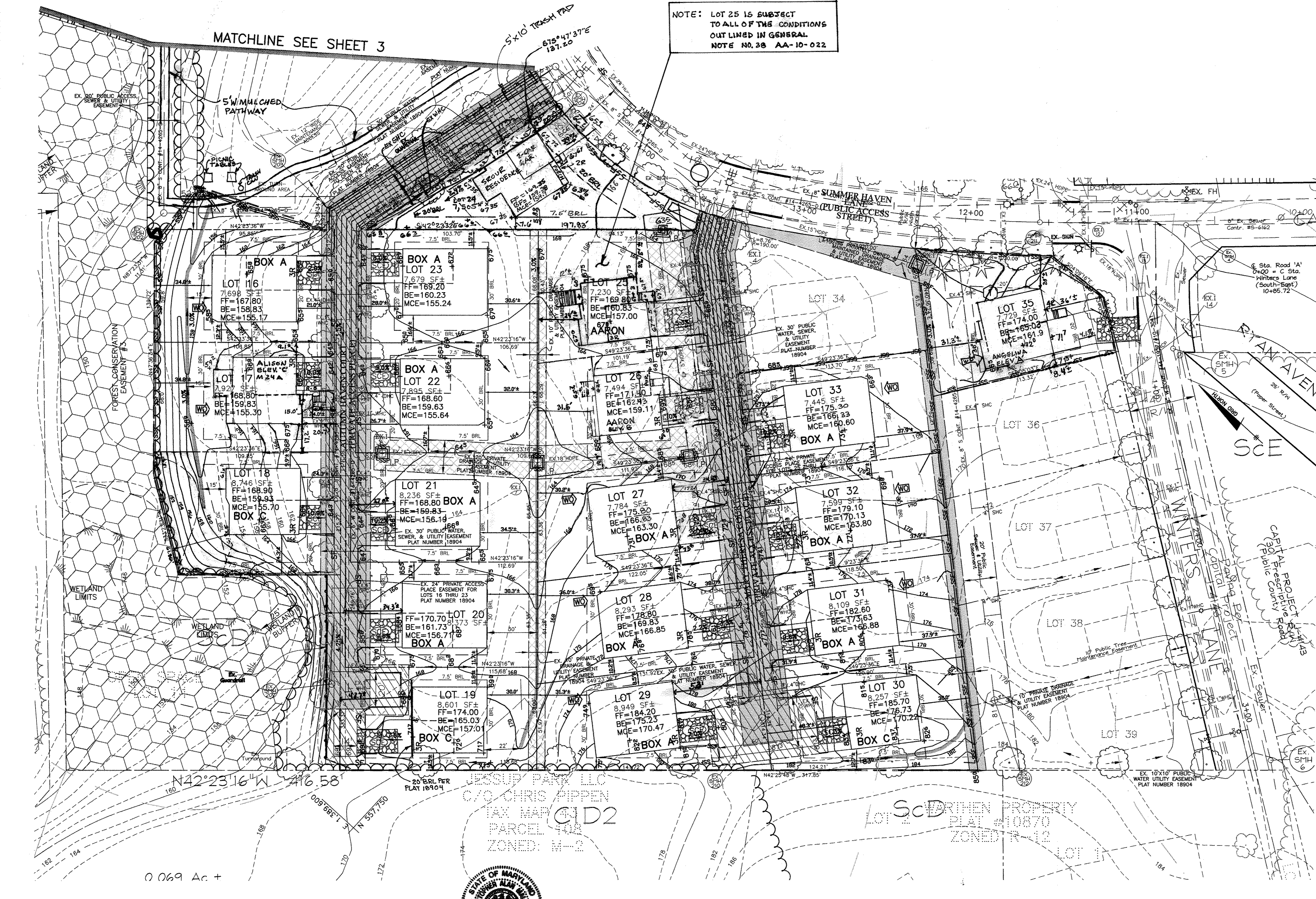
**LOCATION:** TAX MAP 38, GRID 14  
 PARCEL 987  
 1st ELECTION DISTRICT  
 HOWARD COUNTY, MARYLAND

**TITLE:** SITE DEVELOPMENT, GRADING AND SEDIMENT CONTROL PLAN

**DATE:** NOVEMBER, 2009  
 FEBRUARY, 2010

**PROJECT NO.:** 2172

**DES: MR/JC DRAFT: MR/JC CHECK: JC/BFC SCALE: AS SHOWN DRAWING 2 OF 5**

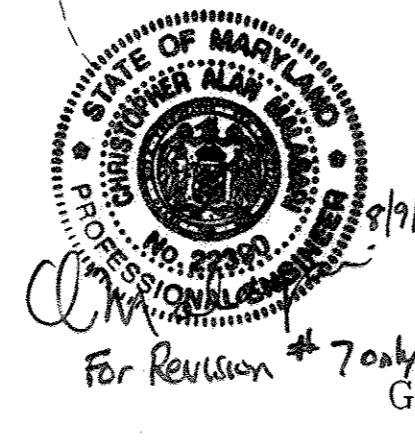


APPROVED: DEPARTMENT OF PLANNING AND ZONING  
*[Signature]* 3/15/10  
 CHIEF, DIVISION OF LAND DEVELOPMENT

*[Signature]* J.P. 3/10/10  
 CHIEF, DEVELOPMENT ENGINEERING DIVISION

*[Signature]* 3/15/10  
 DIRECTOR

Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.  
 License No. 22370 Expiration Date: 6-30-19

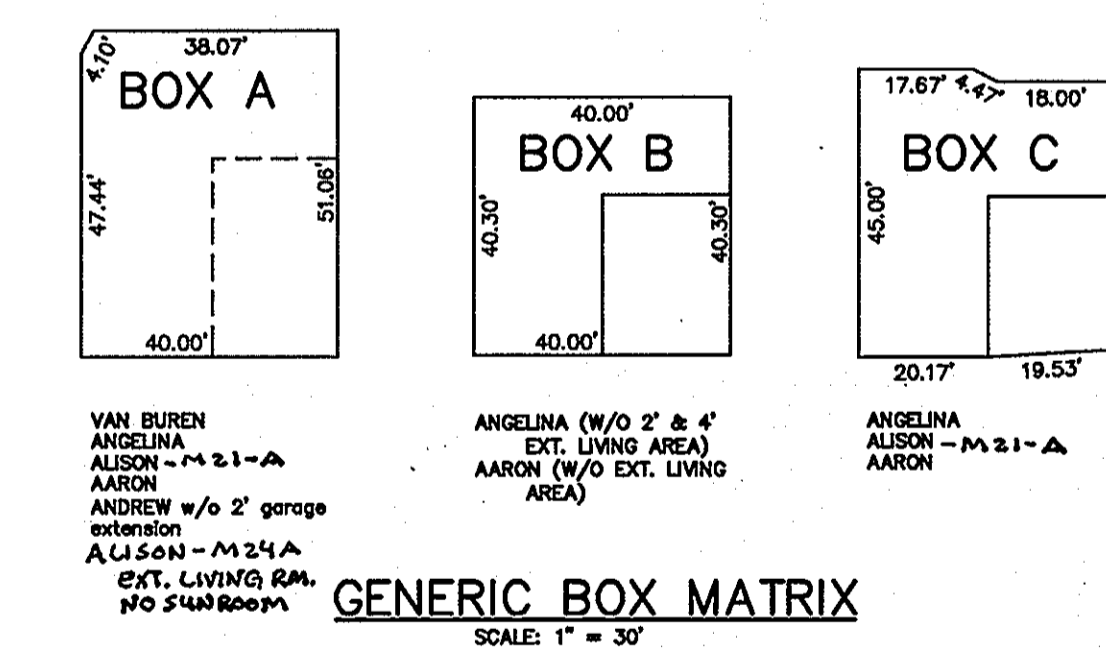
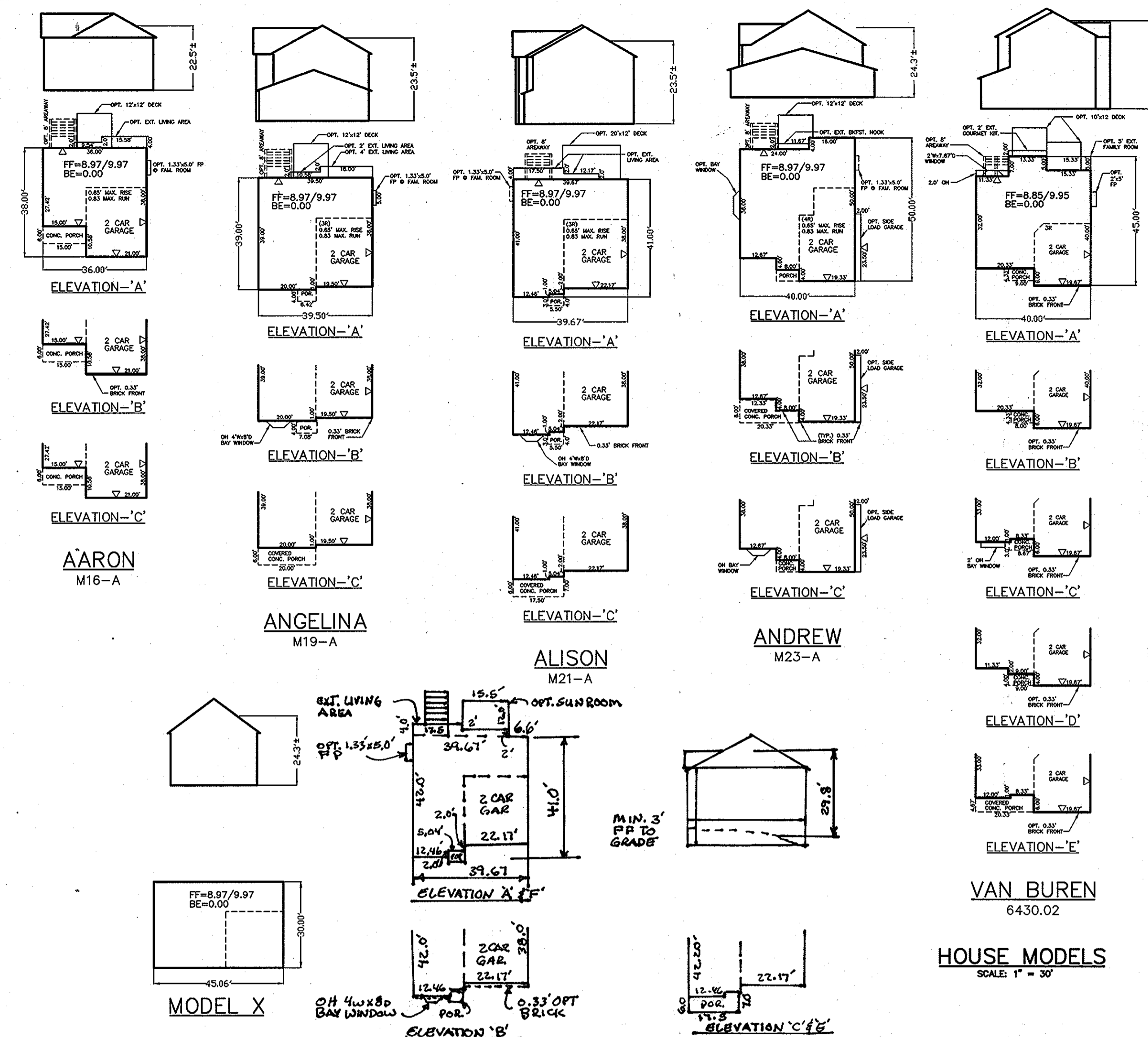


**SITE PLAN**  
 SCALE: 1" = 30'  
 GRAPHIC SCALE  
 (IN FEET)  
 1 inch = 30 ft.

SYMBOL	HYDRIC	HYDROLOGIC GROUP	SOILS CHART
BcC	YES	C	BELTSVILLE SILT LOAM, 5 TO 10 PERCENT SLOPES, SEVERELY ERODED
CiD2		B	CHILLUM GRAVELLY LOAM, 10 TO 15 PERCENT SLOPES, MODERATELY ERODED
CmC2		B	CHILLUM SILT LOAM, 5 TO 10 PERCENT SLOPES, MODERATELY ERODED
ScB		C	SANDY AND CLAYEY LAND, GENTLY SLOPING
ScD		C	SANDY AND CLAYEY LAND, MODERATELY ERODED
ScE		C	SANDY AND CLAYEY LAND, MODERATELY STEEP
ScC2		B	SASSAFRAS GRAVELLY SAND LOAM, 5 TO 10 PERCENT SLOPES, MODERATELY ERODED
SsE		B	SASSAFRAS SOILS, 15 TO 40 PERCENT SLOPES

NO.	DATE	REVISION
7	8-8-2017	ADD NEW HOUSE FOOTPRINT AND SHOW ON LOT 24
6	3-7-13	REVISE THE ALISON ON LOT 17 TO SHOW ELEV. 'C'
5	11-30-12	REVISE LOT 35 TO SHOW AN ANGELINA ELEV. 'C' & REVISE GRADES
4	3-2-12	REVISE LOT 24 TO BE BUILDABLE LOT PER WP-11-140
3	7-18-11	REVISE LOT 25 TO RESPECT AA AND SPECIFIC MODEL

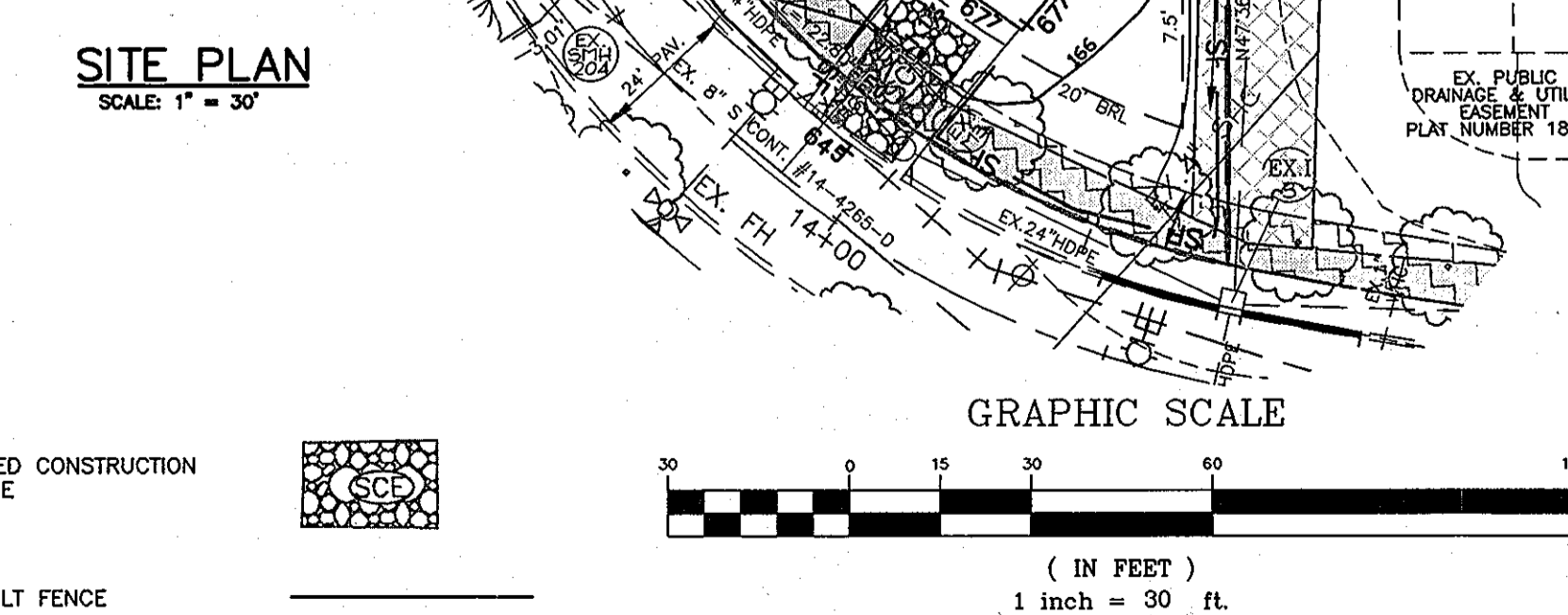
NO.	DATE	REVISION
3	2-14-13	REVISE LOT 17 TO SHOW AN ALISON ELEV. 'B' M-24A



APPROVED: DEPARTMENT OF PLANNING AND ZONING  
 Keat Shuman 3/15/10  
 CHIEF, DIVISION OF LAND DEVELOPMENT  
 [Signature] 3/10/10  
 CHIEF, DEVELOPMENT ENGINEERING DIVISION  
 [Signature] 3/15/10  
 DIRECTOR

**LEGEND**

EXISTING CONTOURS	999	PROPOSED CONTOURS	999
LIMIT OF WETLANDS	[Symbol]	EXISTING WOODS LINE	[Symbol]
EXISTING STRUCTURE	[Symbol]	PROPOSED STRUCTURE	[Symbol]
FOREST CONSERVATION EASEMENT	[Symbol]	PUBLIC SEWER, WATER AND UTILITY EASEMENT	[Symbol]
PRIVATE STORMDRAIN AND UTILITY EASEMENT	[Symbol]	PUBLIC TREE MAINTENANCE AND UTILITY EASEMENT	[Symbol]
PUBLIC SIDEWALK EASEMENT	[Symbol]	STABILIZED CONSTRUCTION ENTRANCE	[Symbol]
RIP-RAP	[Symbol]	SUPER SILT FENCE	[Symbol]
EROSION CONTROL MATTING	[Symbol]	SILT FENCE	[Symbol]
RECREATIONAL OPEN SPACE	[Symbol]	EXISTING LANDSCAPE TREES PER F-06-008	[Symbol]
		PROPOSED LANDSCAPING	[Symbol]



**SOILS CHART**

SYMBOL	HYDRIC	HYDROLOGIC GROUP	NAME
BeC3	YES	C	BELTSVILLE SILT LOAM, 5 TO 10 PERCENT SLOPES, SEVERELY ERODED
CID2		B	CHILLUM GRAVELLY LOAM, 10 TO 15 PERCENT SLOPES, MODERATELY ERODED
CmC2		B	CHILLUM SILT LOAM, 5 TO 10 PERCENT SLOPES, MODERATELY ERODED
ScB		C	SANDY AND CLAYEY LAND, GENTLY SLOPING
ScD		C	SANDY AND CLAYEY LAND, MODERATELY ERODED
ScE		C	SANDY AND CLAYEY LAND, MODERATELY STEEP
SIC2		B	SASSAFRAS GRAVELLY SAND LOAM, 5 TO 10 PERCENT SLOPES, MODERATELY ERODED
SSE		B	SASSAFRAS SOILS, 15 TO 40 PERCENT SLOPES

NO.	DATE	REVISION
2	3-2-12	REVISE O.S. LOT 24 TO A BUILDABLE LOT PER WP-11-140
1	10-12-11	REVISE LOT 6 TO SHOW ANGELINA PER ADMINISTRATIVE ADJUSTMENT
3	10-30-12	REVISE FF, BF, MCE, SPTS AND DRIVEWAY SLOPES AS BUILT CONDITIONS LOT 9

**ENGINEER'S CERTIFICATE**  
 I HEREBY CERTIFY THAT THIS PLAN FOR SEDIMENT AND EROSION CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.  
 [Signature] 2/19/2010  
 ENGINEER DATE

**DEVELOPER'S CERTIFICATE**  
 I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT FOR SEDIMENT AND EROSION CONTROL, AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT.  
 [Signature] 2/19/2010  
 DEVELOPER DATE

REVIEWED FOR HOWARD SCD AND MEETS TECHNICAL REQUIREMENTS  
 [Signature] 3/4/10  
 HOWARD SCD DATE

**BENCHMARK ENGINEERING, INC.**  
 ENGINEERS • LAND SURVEYORS • PLANNERS  
 8490 BALTIMORE NATIONAL PIKE & SUITE 418  
 ELLICOTT CITY, MARYLAND 21043  
 PHONE: 410-465-6105 FAX: 410-465-6644  
 E-MAIL: bel@benchmark-engineering.com

Professional Engineer's Stamp: [Signature] 2/19/2010  
 State of Maryland, License No. 20559 Expiration Date: 7-28-2011

**BUILDER:** RICHMOND AMERICAN HOMES OF MARYLAND, INC. 6200 OLD DOBBIN LANE, SUITE 190 COLUMBIA, MARYLAND 21045 410-312-2800

**OWNER (LOTS 16-33 AND 25):** BUFFALO GAP, LLC 5570 STERRETT PLACE, SUITE 201 COLUMBIA, MARYLAND 21044 410-997-3815

**OWNER (LOTS 4-12):** NEWBURN INVESTMENTS II, LLC 5570 STERRETT PLACE, SUITE 201 COLUMBIA, MARYLAND 21044 410-997-3815

**PROJECT:** SUMMER HAVEN PHASES I & II LOTS 4-12, 16-33 & 25 SINGLE FAMILY DETACHED PLATS 18902 - 18904 & 21079

**LOCATION:** TAX MAP 38, GRID 14 PARCEL 087 1st ELECTION DISTRICT HOWARD COUNTY, MARYLAND

**TITLE:** SITE DEVELOPMENT, GRADING AND SEDIMENT CONTROL PLAN

**DATE:** NOVEMBER, 2009 / FEBRUARY, 2010 **PROJECT NO.:** 2172

**DES:MR/JC DRAFT: MR/JC CHECK:JC/BFC SCALE:** AS SHOWN **DRAWING 3 OF 5**

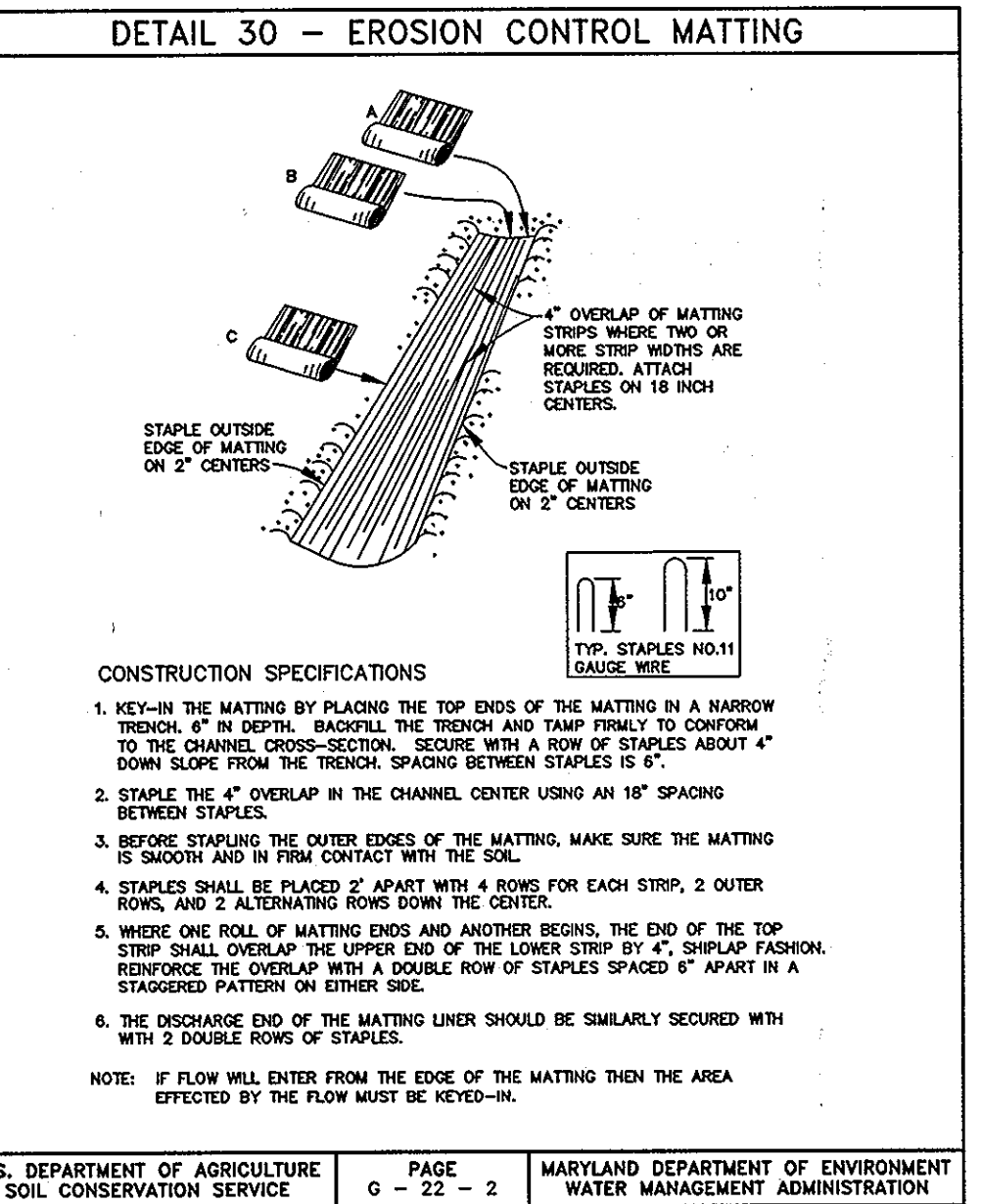
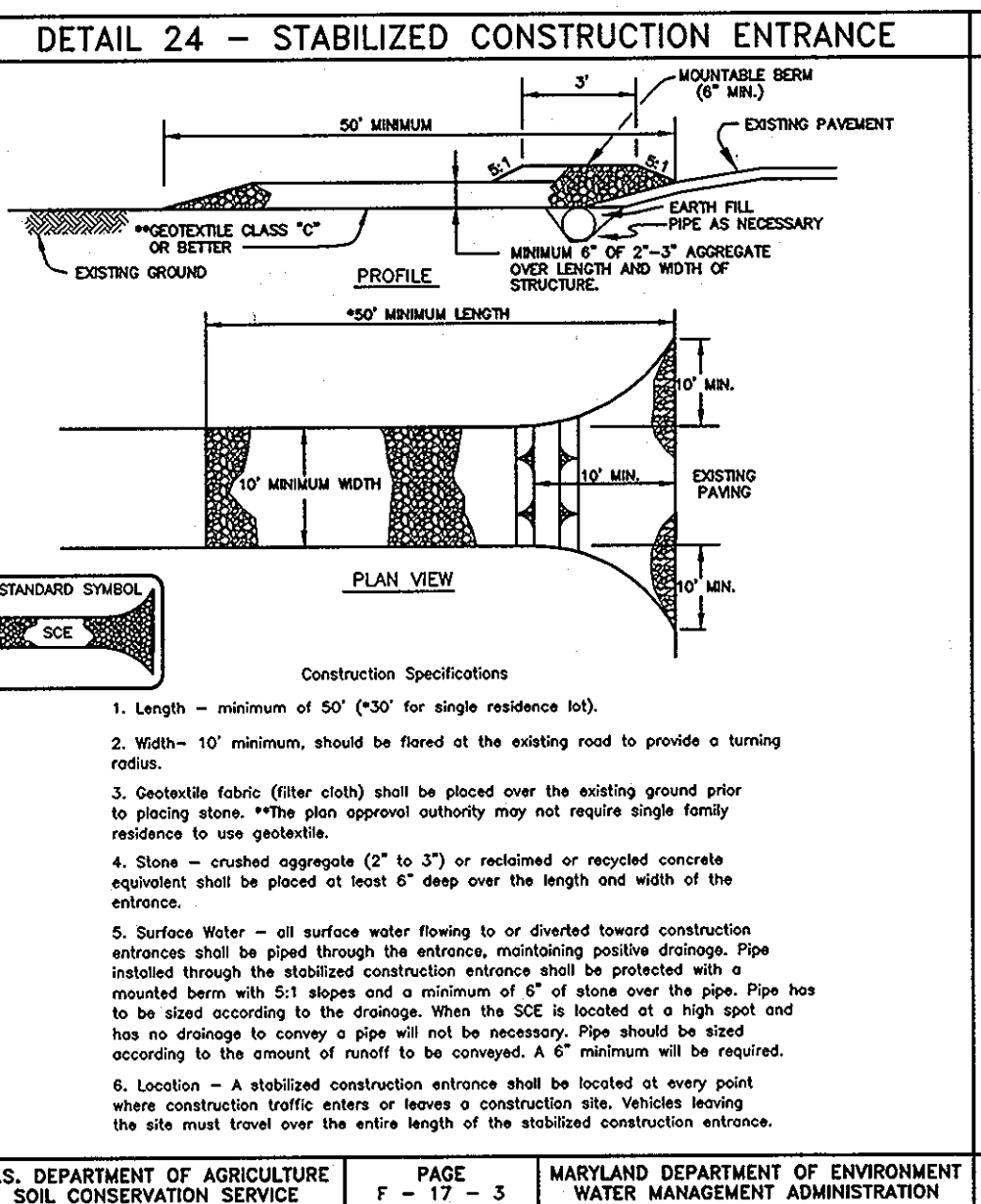
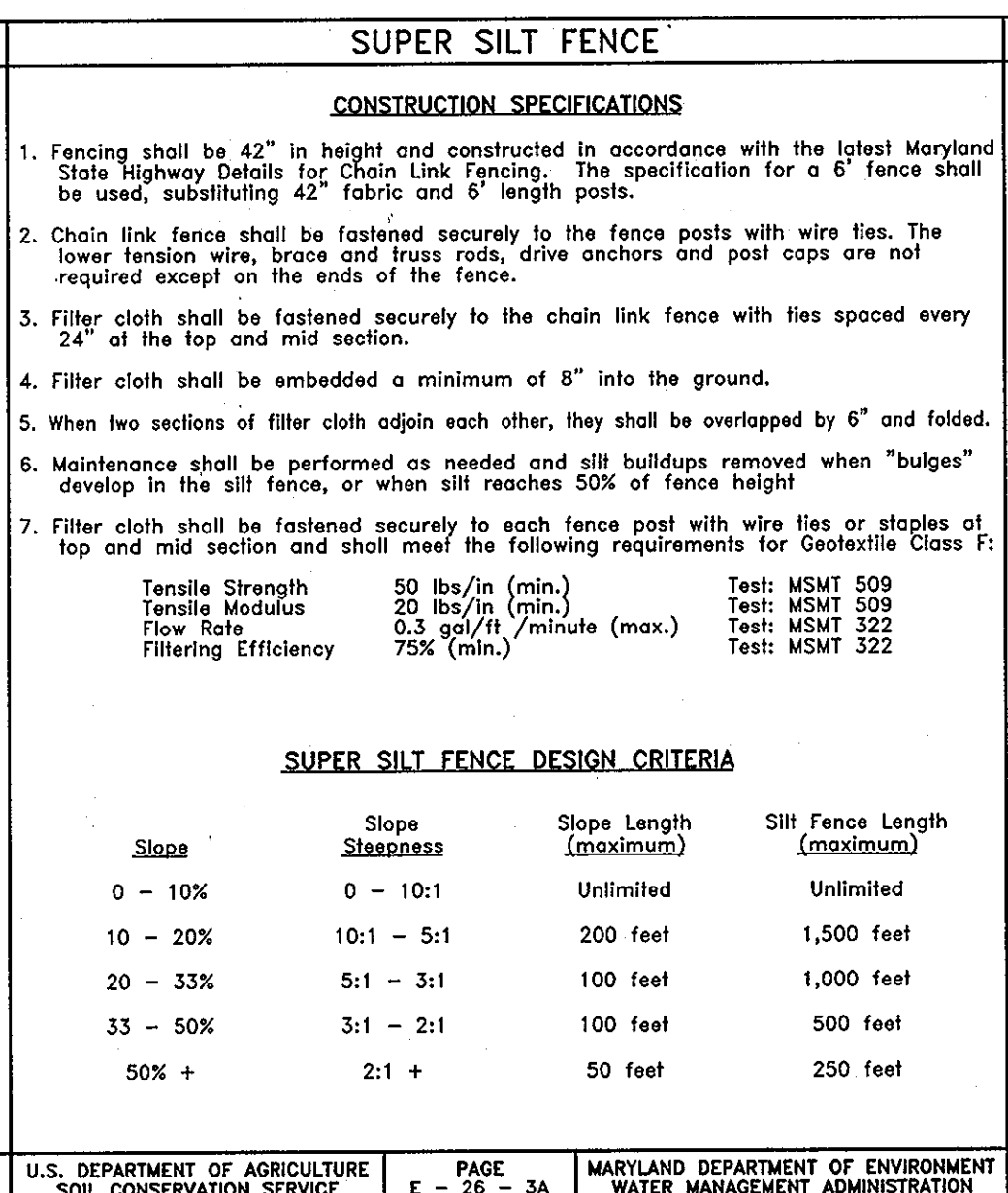
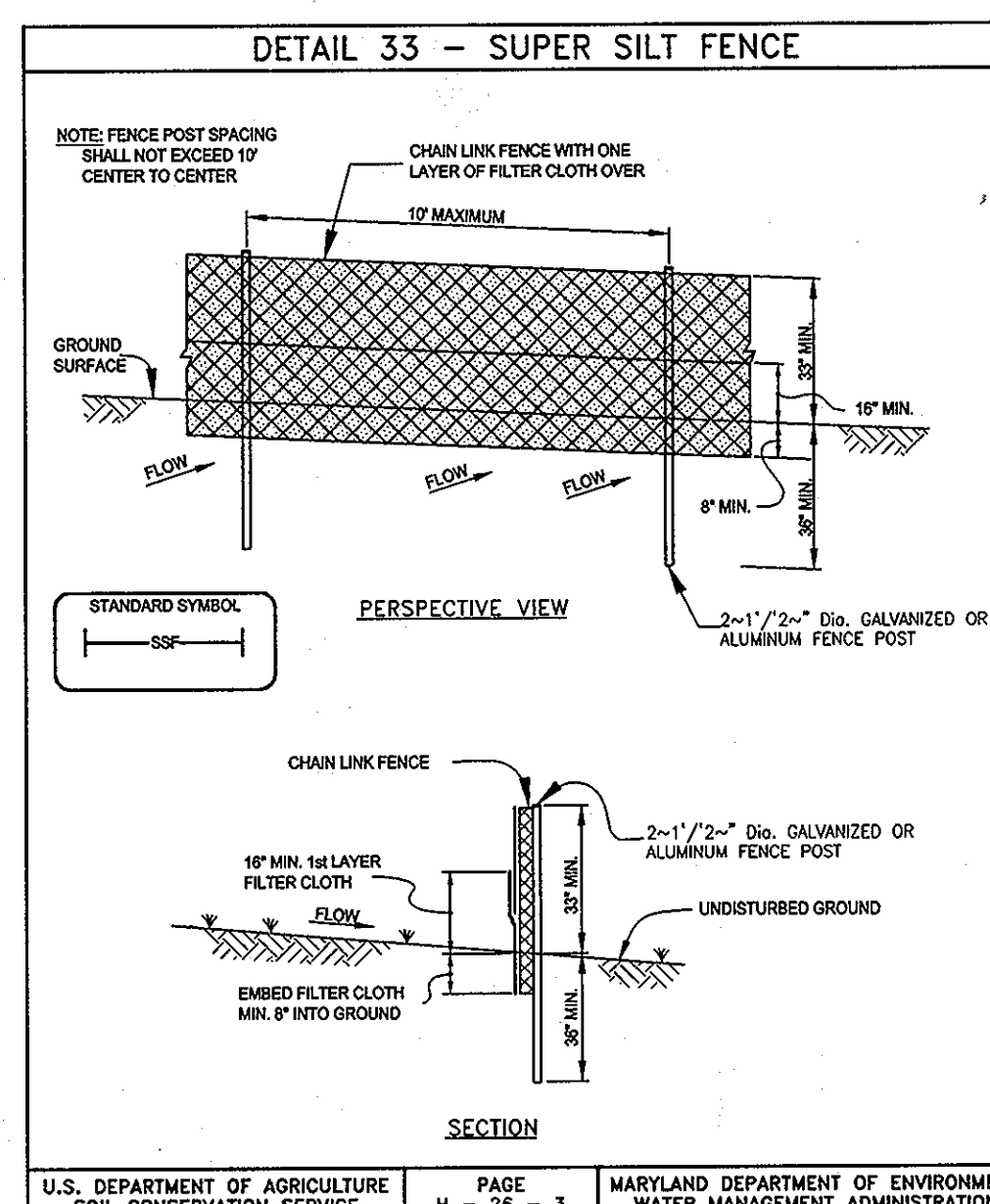
**TOPSOIL SPECIFICATIONS**

- Topsoil salvaged from the existing site may be used provided that it meets the 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 Experiment Station.
- Topsoil Specifications - Soil to be used as topsoil must meet the following:
  - 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, trash, 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, nutgrass, poison ivy, thistle, or others as specified.
- 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.
- For sites having disturbed areas under 5 acres:
  - Place topsoil (if required) and apply soil amendments as specified in 2.0 Vegetative Stabilization - Section 1 - Vegetative Stabilization Methods and Materials.
- 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 raise the pH to 6.5 or higher.
    - Organic content or topsoil shall be not less than 1.5 percent by weight.
    - Topsoil having soluble salt content greater than 500 parts per million shall not be used.
    - 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 elapsed (14 days min.) to permit dissipation of phytotoxic materials.
  - 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 natural topsoil.
  - Place topsoil (if required) and apply soil amendments as specified in 2.0 Vegetative Stabilization - Section 1 - Vegetative Stabilization Methods and Materials.

**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 CONTROL, REVISIONS THERE TO.
- 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 AREAS ON THE PROJECT SITE.
- 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 COUNTY DESIGN MANUAL, STORM DRAINAGE.
- ALL DISTURBED AREAS MUST BE STABILIZED WITHIN THE TIME PERIOD SPECIFIED 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 DATES DO NOT ALLOW FOR PROPER GERMINATION AND ESTABLISHMENT OF GRASSES.
- ALL SEDIMENT CONTROL STRUCTURES ARE TO REMAIN IN PLACE AND ARE TO BE MAINTAINED IN OPERATIVE CONDITION UNTIL PERMITS FOR THEIR REMOVAL HAVE BEEN OBTAINED FROM THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.
- SITE ANALYSIS:
 

TOTAL AREA OF SITE (THIS SUBMISSION)	5.19	ACRES
AREA DISTURBED	5.19	ACRES
AREA TO BE ROOFED OR PAVED	1.13	ACRES
AREA TO BE VEGETATIVELY STABILIZED	3.46	ACRES
TOTAL CUT	N/A	CY
TOTAL FILL	4548	CY
OFFSITE WASTE/BORROW AREA LOCATION	*	

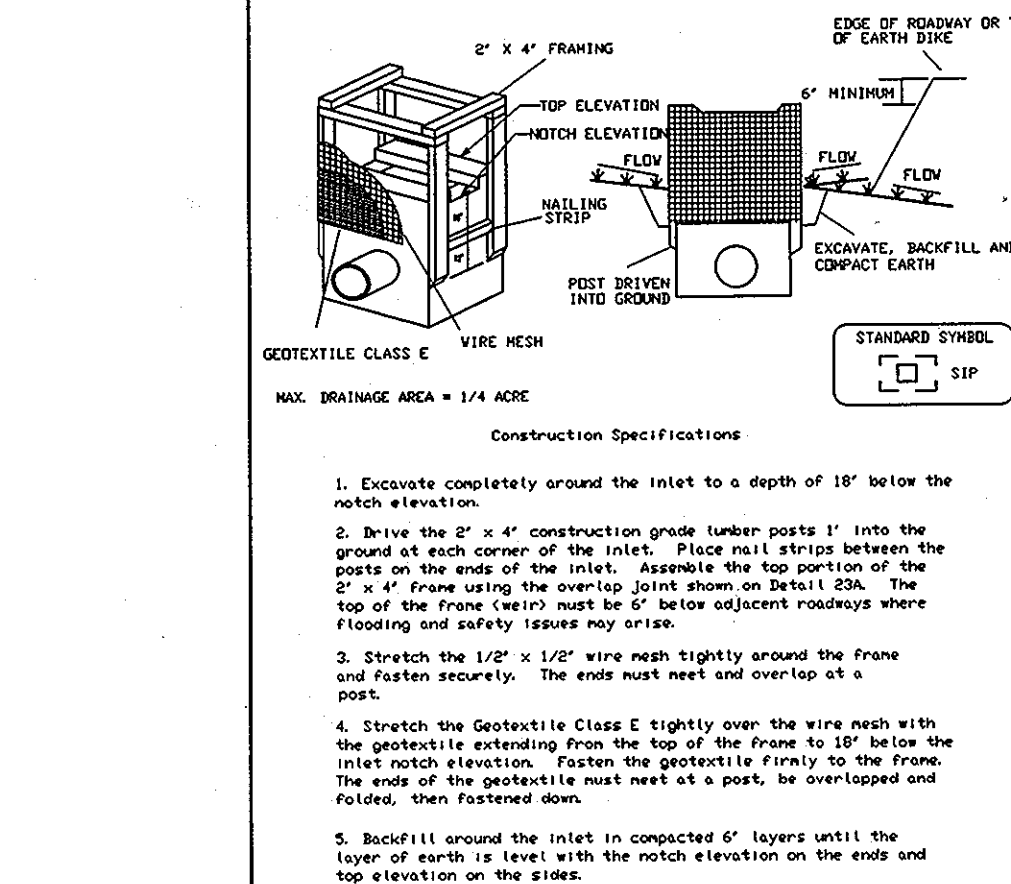


- When topsoiling, maintain needed erosion and sediment control practices such as diversions, grade stabilization structures, earth dikes, slope silt fence and sediment traps and basins.
- Grades on the areas to be topsoiled, which have been previously established, shall be maintained, about 4" - 8" higher in elevation.
- 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 seeding or sodding 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 pockets.
- 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 seeded preparation.

**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).
- SEEDING: 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 (0.7 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 AS POSSIBLE IN THE SPRING, OR USE SOD.
- 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 FT) OF EMULSIFIED ASPHALT ON FLAT AREAS, ON SLOPES, 8 FT. OR HIGHER, USE 348 GALLONS PER ACRE (8 GAL/1000 SQ FT) FOR ANCHORING.
- REFER TO THE 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR RATE AND METHODS NOT COVERED.

**DETAIL 23A - STANDARD INLET PROTECTION**



**LANDSCAPE NOTES:**

- TREES SHOULD BE PLANTED A MINIMUM OF 6 FEET FROM THE EDGE OF PAVING AND MUST BE A MINIMUM OF 5 FEET FROM ANY STORM DRAIN.
- TREES MUST BE PLANTED A MINIMUM OF 5 FEET FROM AN OPEN SPACE ACCESS STRIP AND 10 FEET FROM A DRIVEWAY.
- SEE TREE PLANTING DETAIL - THIS SHEET.
- THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH THE PROVISIONS OF SECTION 16.124 OF THE HOWARD COUNTY CODE AND THE HOWARD COUNTY LANDSCAPE MANUAL.
- AT THE TIME OF INSTALLATION, ALL SHRUBS AND OTHER PLANTINGS HEREWIT LISTED AND APPROVED FOR THIS SITE, SHALL BE OF THE PROPER HEIGHT REQUIREMENTS IN ACCORDANCE WITH THE HOWARD COUNTY LANDSCAPE MANUAL. IN ADDITION, NO SUBSTITUTIONS OR 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 RELEASE OF LANDSCAPE SURETY UNTIL SUCH TIME AS ALL REQUIRED MATERIALS ARE PLANTED AND/OR REVISIONS ARE MADE TO APPLICABLE PLANS AND CERTIFICATIONS.
- THE OWNER, TENANTS AND/OR THEIR AGENTS SHALL BE RESPONSIBLE FOR MAINTENANCE OF THE REQUIRED LANDSCAPING INCLUDING BOTH PLANT MATERIALS AND BERMS, FENCES AND WALLS. ALL PLANT MATERIALS SHALL BE MAINTAINED IN GOOD GROWING CONDITION, AND WHEN NECESSARY, REPLACED WITH NEW MATERIALS TO ENSURE CONTINUED COMPLIANCE WITH APPLICABLE REGULATIONS. ALL OTHER REQUIRED LANDSCAPING SHALL BE PERMANENTLY MAINTAINED IN GOOD CONDITION, AND WHEN NECESSARY, REPAIRED OR REPLACED.
- 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 (F-08-048). FOR MORE INFORMATION, SEE GENERAL NOTE 10 ON SHEET 11 OF THIS PLAN.
- STREET SIDE LANDSCAPING IN ACCORDANCE WITH SECTION 16.124 OF THE HOWARD COUNTY CODE AND LANDSCAPE MANUAL SHALL BE PROVIDED AS SHOWN ON THIS SITE PLAN FOR LOT 35 SURETY IN THE AMOUNT OF \$1,050 FOR 2 SHADE TREES AND 3 EVERGREENS SHALL BE PROVIDED WITH THE GRADING PERMIT.

**SEQUENCE OF CONSTRUCTION**

- NOTIFY SEDIMENT CONTROL DIVISION 48 HOUR PRIOR TO START OF CONSTRUCTION
- |           |  |
|-----------|--|
| DAY 1     | 1.) OBTAIN GRADING PERMIT.   |
| DAY 2-8   | 2.) INSTALL SEDIMENT CONTROLS THAT ARE NOTED TO BE INSTALLED UNDER THIS SDP. THE EXISTING CONTROLS THAT WERE INSTALLED UNDER F-08-008 THAT ARE TO REMAIN SHALL BE INSPECTED AND APPROVED AS SHOWN ON THESE PLANS TO ENSURE THEY MEET COMPLIANCE WITH SPECIFICATIONS. ANY REMAINING CONTROLS INSTALLED UNDER F-08-008 THAT WILL NOT BE UTILIZED UNDER THIS SDP SHALL BE REMOVED BY THE DEVELOPER. INLETS 2, 6, 7, 8 AND 10 WILL REQUIRE ADDITIONAL SUPER SILT FENCE PROTECTION. |
| DAY 9-12  | 3.) EXCAVATE FOR FOUNDATIONS, ROUGH GRADE AND STABILIZE IN ACCORDANCE WITH TEMPORARY SEEDBED NOTES.  |
| 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 FLUSH STORM DRAIN SYSTEM.   |
| DAY 65-68 | 6.) WITH THE APPROVAL OF THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR, REMOVE SEDIMENT CONTROL DEVICES AND STABILIZE ANY REMAINING DISTURBED 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.  
2. EROSION CONTROL MATTING SHALL BE PLACED IN SWALES WHERE DEEMED NECESSARY UNTIL VEGETATION IS ESTABLISHED OR SOD SOO SHOULD BE USED.

**ENGINEER'S CERTIFICATE**

"I HEREBY CERTIFY THAT THIS PLAN FOR SEDIMENT AND EROSION CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD COUNTY CONSERVATION DISTRICT."

ENGINEER: *[Signature]* DATE: 2/19/2010

**DEVELOPER'S CERTIFICATE**

"I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT FOR SEDIMENT AND EROSION CONTROL, AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT."

DEVELOPER: *[Signature]* DATE: 2/19/2010

REVIEWED FOR HOWARD SCD AND MEETS TECHNICAL REQUIREMENTS

*[Signature]* DATE: 3/14/10

**PERMANENT SEEDBED PREPARATIONS**

- 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 ONE OF THE FOLLOWING SCHEDULES:
- 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 (9 LBS/1000 SQ FT).
  - 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.
- SEEDING: FOR THE PERIODS MARCH 1 THROUGH APRIL 30 AND AUGUST 15 THROUGH OCTOBER 15, SEED WITH 60 LBS PER ACRE (1.4 LBS/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 PERIOD OF OCTOBER 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 FT) OF EMULSIFIED ASPHALT ON FLAT AREAS, ON SLOPES, 8 FT. OR HIGHER, USE 348 GALLONS PER ACRE (8 GAL/1000 SQ FT) FOR ANCHORING.
- MAINTENANCE: INSPECT ALL SEEDED AREAS AND MAKE NEEDED REPAIRS, REPLACEMENTS AND RESEEDINGS.

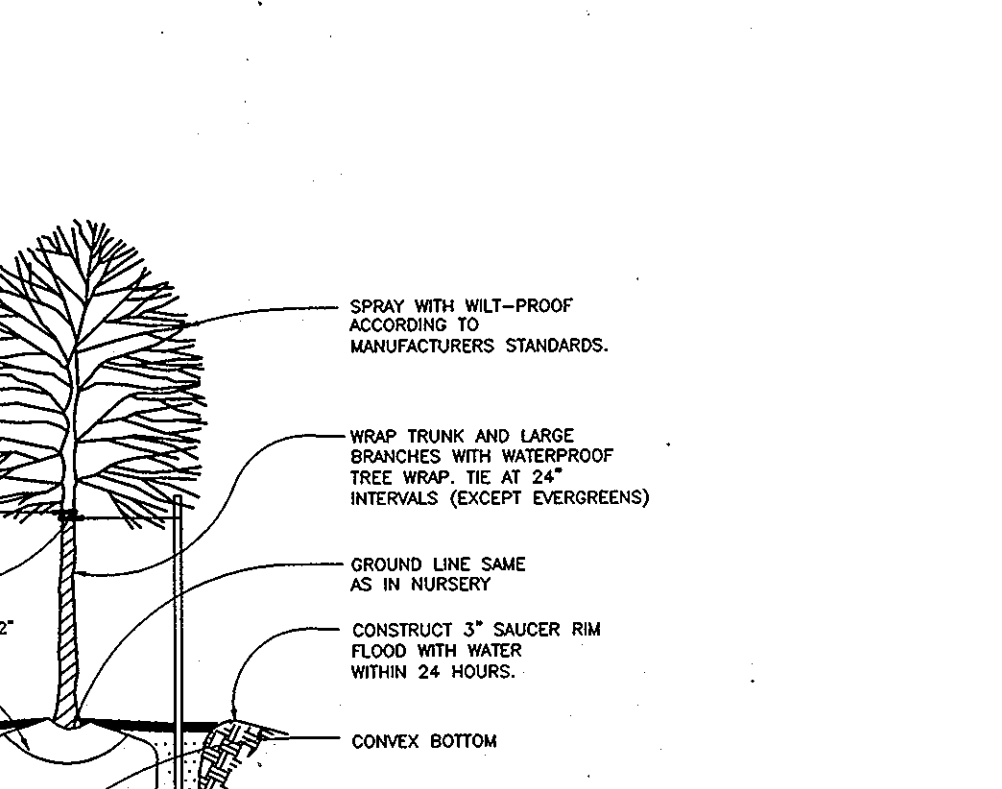
**SCHEDULE A PERIMETER LANDSCAPE EDGE**

CATEGORY	ADJACENT TO ROADWAYS
LANDSCAPE BUFFER TYPE	① B-LOT 35
LINEAR FEET OF ROADWAY FRONTAGE/PERIMETER	83'
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	
SHADE TREES	2
EVERGREEN TREES	3
NUMBER OF PLANTS PROVIDED	
SHADE TREES	2
EVERGREEN TREES	3

**LANDSCAPE PLANTING LIST**

SYMBOL	QUANTITY	NAME	REMARKS
☉	2	QUERCUS COCCINEA SCARLET OAK	2 1/2" MIN. CAL. BAG FULL HEAD
☀	3	PINUS THUNBERGIANA (JAPANESE BLACK PINE)	6'-8" H.T. UNSHEARED

**TREE PLANTING DETAIL**



APPROVED: DEPARTMENT OF PLANNING AND ZONING

*[Signature]* DATE: 3/15/10

*[Signature]* DATE: 3/15/10

*[Signature]* DATE: 3/15/10

OWNER (LOTS 16-33 AND 35) BUFFALO GAP, LLC, 5570 STERRETT PLACE, SUITE 201, COLUMBIA, MARYLAND 21044 410-997-3815

OWNER (LOTS 4-12): NEWBUREN INVESTMENTS II, LLC, 5570 STERRETT PLACE, SUITE 201, COLUMBIA, MARYLAND 21044 410-997-3815

**BENCHMARK ENGINEERS, INC.**

8480 BALTIMORE NATIONAL PIKE A SUITE 418, ELICOTT CITY, MARYLAND 21043

PHONE: 410-455-6105 FAX: 410-455-6844

E-MAIL: bel@benchmark-engineering.com

OWNER: RICHMOND AMERICAN HOMES OF MARYLAND, INC., 6200 OLD DOBBIN LANE, SUITE 190, COLUMBIA, MARYLAND 21045 410-312-2800

PROJECT: SUMMER HAVEN PHASES 1 & 2, LOTS 4-12, 16-33, 35, 36, SINGLE FAMILY DETACHED, PLATF 18902 - 18904 & 21679

LOCATION: TAX MAP 38, GRID 14, PARCEL 987, 1st ELECTION DISTRICT, HOWARD COUNTY, MARYLAND

TITLE: LANDSCAPE AND SEDIMENT AND EROSION CONTROL NOTES AND DETAILS

DATE: NOVEMBER, 2009 PROJECT NO. 2172

FEBRUARY, 2010

DES: MR/JC DRAFT: MR/JC CHECK: JC/BFCI SCALE: AS SHOWN DRAWING 4 OF 5

**STATE OF MARYLAND PROFESSIONAL ENGINEER**

Professional Engineer License No. 28589 Expiration Date: 7-22-2011

DATE: 2/19/2010

DATE: 3/14/10

SDP-10-047

