### GENERAL NOTES

1.) THIS PROJECT IS IN CONFORMANCE WITH THE LATEST HOWARD COUNTY STANDARDS UNLESS WAIVERS HAVE BEEN APPROVED

2.) THE SUBJECT PROPERTY IS ZONED R-12 PER THE 2-2-2004 COMPREHENSIVE ZONING PLAN AND THE "COMP LITE" ZONING AMENDMENTS EFFECTIVE 7-28-2006.

3.) COORDINATES BASED ON NAD '83, MARYLAND COORDINATE SYSTEM AS PROJECTED BY HOWARD COUNTY GEODETIC CONTROL STATIONS 38BA AND 38BB. 4.) TRACT BOUNDARY IS BASED ON A A RECORD PLAT FOR CANBURY WOODS, LOTS 137-170, SECTION 2 AREA 2, PLAT NO. 8086 AND A PLAT PREPARED BY ROBERT H. VOGEL

5.) THE EXISTING TOPOGRAPHY SHOWN IS BASED ON A FIELD RUN SURVEY BY ROBERT H. VOGEL ENGINEERING, INC. DATED AUGUST 2004 WITH 2-FOOT CONTOUR INTERVALS 6.) A NOISE STUDY IS NOT REQUIRED FOR THIS PROJECT.

7.) AN APFO TRAFFIC STUDY WAS PREPARED BY MARS GROUP DATED JUNE 2004 AND WAS APPROVED ON MAY 2005 UNDER F-10-032.

8.) THIS PROPERTY IS LOCATED WITHIN THE METROPOLITAN DISTRICT

9.) WATER IS PUBLIC. THE CONTRACT NUMBER IS 14-4606-D.

10.) SEWER IS PUBLIC. THE CONTRACT NUMBER IS 14-4606-D

THE HISTORIC DISTRICT COMMISSION.

11.) Water and sewer service to these lots will be granted under the provisions OF SECTION 18.122.B OF THE HOWARD COUNTY CODE.

12.) PUBLIC WATER AND SEWAGE ALLOCATIONS WILL BE GRANTED AT THE TIME OF ISSUANCE THE BUILDING PERMIT IF CAPACITY IS AVAILABLE AT THAT TIME.

13.) THERE IS NO WETLANDS, STREAMS, THEIR BUFFERS, 100-YEAR FLOODPLAIN OR STEEP SLOPES LOCATED ON THESE LOTS.

14.) TO THE BEST OF OUR KNOWLEDGE, THERE ARE NO CEMETERY LOCATIONS ON THESE LOTS. 15.) THIS PROPERTY IS LOCATED IN HISTORIC DISTRICT #803 - OLD WASHINGTON ROAD SURVEY DISTRICT. SINCE THERE ARE NO STRUCTURES LOCATED ONSITE IT HAS BEEN DETERMINED BY THE HDC THAT THIS DEVELOPMENT WILL NOT REQUIRE ADVISORY COMMENTS BY

16.) STORMWATER MANAGEMENT IS PROVIDED IN ACCORDANCE WITH THE 2000 MARYLAND STORMWATER DESIGN MANUAL AND APPROVED UNDER F-10-032. STORMWATER MANAGEMENT IS PROVIDED BY A MICROPOOL EXTENDED DETENTION FACILITY LOCATED ON OPEN SPACE LOT 4. THE FACILITY IS TO BE PRIVATELY OWNED AND MAINTAINED BY THE HOMEOWNERS ASSOCIATION ON LOT STORMWATER MANAGEMENT IS REQUIRED FOR LOTS 13-15. LOT 13 TO HAVE ONE RAINGARDEN AND LOTS 14, 15 AND 16 TO HAVE LEVEL SPREADERS AS APPROVED UNDER

7.) THIS DEVELOPMENT IS IN COMPLIANCE WITH THE REQUIREMENTS OF SECTION 16.124 OF THÉ HOWARD COUNTY CODE AND THE LANDSCAPE MANUAL. FINANCIAL SURETY FOR THE REQUIRED LANDSCAPING IN THE AMOUNT OF \$19,510.00 WAS POSTED AS PART OF THE DPW DEVELOPER'S AGREEMENT, F-10-032.

THE HOWARD COUNTY CODE AND THE FOREST CONSERVATION ACT THROUGH THE ESTABLISHMENT ON-SITE (0.83 AC.) AND OFF-SITE (1.92 AC.) FOREST CONSERVATION EASEMENT AT THE TIME OF SUBDIVISION. FINANCIAL SURETY IN THE AMOUNT OF \$51,009.00 FOR THE REQUIRED FOREST CONSERVATION OBLIGATION WAS POSTED AS PART OF THE DPW DEVELOPER;S AGREEMENT, F-10-032. UNDER F-10-032.

19.) FOR FLAG OR PIPESTEM LOTS, REFUSE COLLECTION, SNOW REMOVAL AND ROAD MAINTENANCE ARE PROVIDED TO THE JUNCTION OF THE FLAG OR PIPESTEM AND ROAD RIGHT

20.) DRIVEWAYS SHALL BE PROVIDED PRIOR TO RESIDENTIAL OCCUPANCY TO INSURE SAFE ACCESS FOR FIRE AND EMERGENCY VEHICLES PER THE FOLLOWING MINIMUM REQUIREMENTS:

 width - 12' (16' SERVING MORE THAN ONE RESIDENCE). b) SURFACE - 6" OF COMPACT CRUSHER RUN BASE WITH TAR AND CHIP COATING (1-

c) GEOMETRY — MAXIMUM 15% GRADE, MAXIMUM 10% GRADE CHANGE AND MINIMUM 45 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.

WORKING DAYS PRIOR TO THE START OF ANY WORK.

21.) THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF PUBLIC WORKS/BUREAU OF ENGINEERING/CONSTRUCTION INSPECTION DIVISION AT 410-313-1880 AT LEAST FIVE (5)

22.) THE CONTRACTOR SHALL NOTIFY "MISS UTILITY" AT 1-800-257-7777 AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION WORK BEING DONE.

23.) A PRIVATE RANGE OF ADDRESS SIGN ASSEMBLY FOR THE FLAG LOT DRIVEWAY IN THE CUL-DE-SAC SHALL BE FABRICATED AND INSTALLED BY HOWARD COUNTY BUREAU OF HIGHWAYS AT THE DEVELOPERS/OWNERS EXPENSE WHERE NEEDED. CONTACT HOWARD COUNTY TRAFFIC DIVISION AT 410-313-5752 FOR DETAILS AND COST ESTIMATES.

24.) ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST STANDARDS AND SPÉCIFICATIONS OF HOWARD COUNTY PLUS MSHA STANDARDS AND SPECIFICATIONS IF

2.5.) DRIVEWAY APRONS TO BE UTILIZED: ROADWAY: R-6.03 CUL-DE-SAC BULB: R-6.01 USE-IN-COMMON DRIVEWAY: R-6.06.

26.) NO GRADING, REMOVAL OF VEGETATIVE COVER OR TREES, PAVING AND NEW STRUCTURES SHALL BE PERMITTED WITHIN THE REQUIRED WETLANDS, STREAMS OR THEIR BUFFERS, FOREST CONSERVATION EASEMENT AREAS AND 100 YEAR FLOODPLAIN.

27) THIS DEVELOPMENT IS LOCATED WITHIN THE MAA AIRPORT ZONING DISTRICT AND HAS BEEN REVIEWED AND APPROVED BY THE MAA ON NOVEMBER 8, 2012, REFERENCE AIRPORT ZONING PERMIT NO. 12-144 AS REVIEWED UNDER FINAL PLAN F-10-032 26.) A DESIGN WAIVER REQUEST, DATED DECEMBER 1, 2004, HAS BEEN SUBMITTED AND APPROVED WHICH WAIVES THE REQUIREMENT THAT A STANDARD CROSS SECTION FOR THE

PROPOSED ROAD BE USED. 29.) REFERENCE WP-05-75, APPROVED MARCH 2, 2005 TO WAIVE SECTION 16.155(a)(2), OF THE SUBDIVISION AND LAND DEVELOPMENT REGULATIONS REQUIRING A SITE DEVELOPMENT PLAN

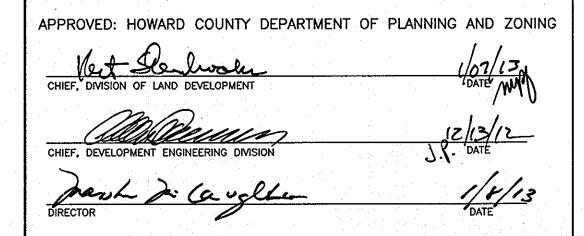
FOR MASS GRADING A SITE INTENDED FOR FUTURE RESIDENTIAL CONSTRUCTION. APPROVAL IS SUBJECT TO THE FOLLOWING CONDITIONS: SUBMIT THE REQUIRED DOCUMENTATION TO SOIL CONSERVATION DISTRICT FOR GRADING AND

SEDIMENT AND EROSION CONTROL REVIEW. SUBMIT A GRADING PERMIT APPLICATION ALONG WITH A FOREST CONSERVATION DECLARATION OF INTENT FOR CLEARING LESS THAN 40,000 S.F. OF FOREST ON A SINGLE LOT. 3. SECURE THE NECESSARY PERMITS FROM THE MARYLAND DEPARTMENT OF THE

4. NO GRADING IS PERMITTED WITHIN FORESTS, STEEP SLOPES OR WITHIN THE STREAM BUFFER. MODIFY THE CONFIGURATION OF THE CELLS 16 AND 22 IN ORDER TO EXCLUDE THE STREAM BUFFER FROM THOSE CELLS. SHOW CLEAR LIMIT OF DISTURBANCE ON ALL

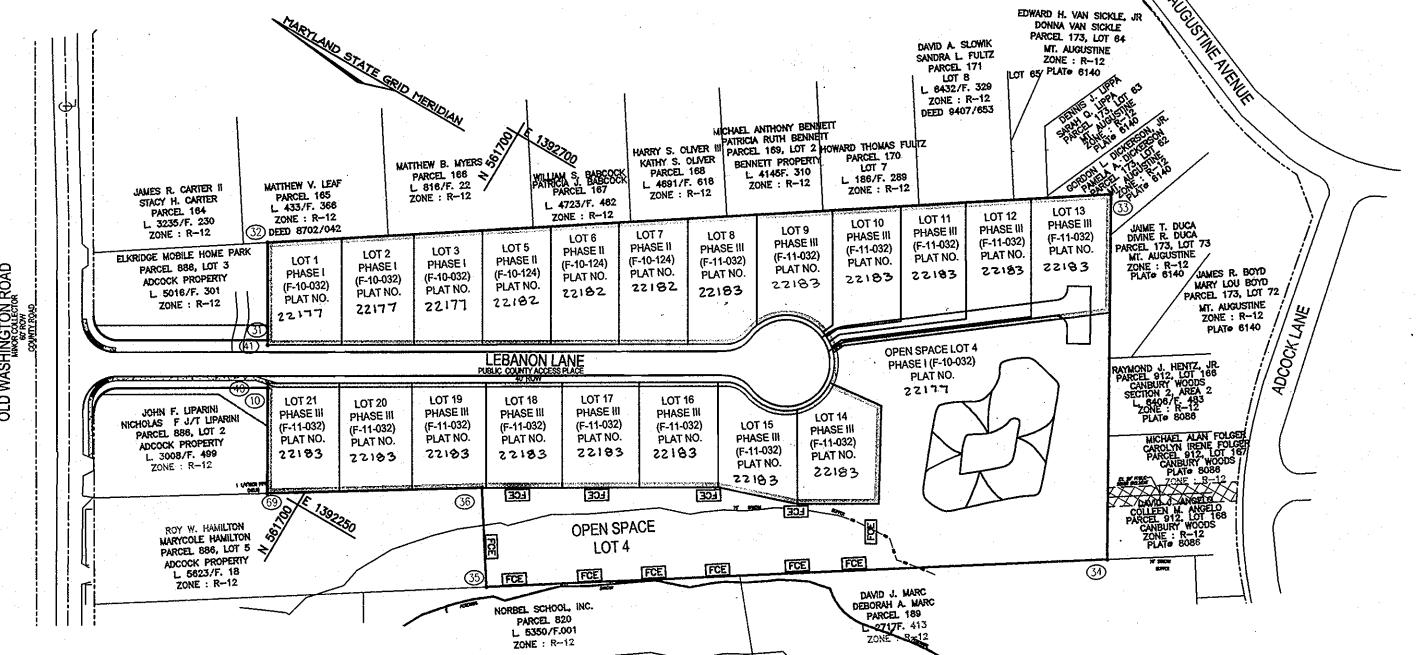
5. RESTORE THE SITE TO GRADE AND STABILIZE THE SITE IMMEDIATELY AFTER REMOVAL OF 6. FULFILL ALL OBLIGATIONS OF THE FOREST CONSERVATION PROGRAM WITH THE SUBDIVISION OF THE PECORARO PROPERTY. IF SOME LIMIT OF CLEARING OF FOREST IS REQUIRED WITH THE MASS GRADING, INCLUDE THAT IN THE DOI AND ACCOUNT FOR IT ON FUTURE FOREST CONSERVATION PLANS FOR SUBDIVISION OF THE AUGUSTINE VALLEY PROPERTY.

30.) A DESIGN MANUAL WAIVER HAS BEEN APPROVED DECEMBER 1, 2004 FOR UTILIZING THE 20' ROAD SECTION ELIMINATING SIDEWALK ON ONE SIDE OF THE ROAD AND TO BE ADJACENT TO THE CURB, AND INCREASING THE SIDE SLOPES TO 1:1 UTILIZING GEOGRID. THE GEOGRID WOULD EXTEND FROM THE EDGE OF THE 1:1 SLOPE TO APPROXIMATELY 6' TO 8' WITHIN THE SLOPE. THE GUARD RAIL WILL BE LOCATED BEHIND THE SIDEWALK ON ONE SIDE AND BEHIND THE CURB. THE WAIVER ALSO WAIVED STREET TREES ALONG THE 1:1 SLOPE AND THE SLOPE BE STABILIZED UTILIZING A GROUND COVER SUCH AS CROWN VETCH. THE ROAD RIGHT-OF-WAY THROUGH THIS NARROW SECTION OF THE PROPERTY BE 50' ENCOMPASSING THE ENTIRE SLOPE.



# SITE DEVELOPMENT PLAN PECORARO PROPERTY

LOTS 1-3 AND 5-21 1st ELECTION DISTRICT HOWARD COUNTY, MARYLAND (AUGUSTINE VALLEY)



( IN FEET

1 inch = 100 ft.

39.) IN ACCORDANCE WITH SECTION 128 OF THE HOWARD COUNTY ZONING REGULATIONS, BAY WINDOW, WINDOW WELLS, ORIELS, VEGTIBULES, BALCONIES, CHIMNEYS, HEATING OR AIR CONDITIONING UNITS AND EXTERIOR STAIRWAYS OR RAMPS WHICH ARE ABOVE OR BELOW GROUND LEVEL MAY PROJECT NOT MORE THAN 4 FEET INTO ANY SETBACK OR A REQUIRED DISTANCE BETWEEN BUILDINGS, PROVIDED THE FEATURE HAS A MAXIMUM WIDTH OF 16 FEET, EXTERIOR STAIRWAYS OR RAMPS WHICH ARE ABOVEOR BELOW GROUN LEVEL MAY PROJECT NOT MORE THAN 10 FEET INTO A FRONT SET BACK OR A SET BACK FROM A PROJECT BOUNDARY OR A DIFFERENT ZONING DISTRICT AND 16 FEET INTO A REAR SETBACK, A SETBACK, FROM A PROJECT BOUNDARY, A SET BACK FROM A SETBACK FROM A PROJECT BOUNDARY, A SET BACK FROM A DIFFERENT ZONING DISTRICT OR A REQUIRED DISTANCE BETWEEN BUILDINGS.

31.) THIS PLAN IS SUBJECT TO WP-10-056 TO WAIVE SECTION 16.144(g) OF THE HOWARD COUNTY SUBDIVISION AND LAND DEVELOPMENT REGULATIONS WHICH STATES THAT IF A SKETCH PLAN IS APPROVED, THE DEVELOPER SHALL SUBMIT TO THE DEPARTMENT OF PLANNING AND ZONING A PRELIMINARY PLAN IN ACCORDANCE WITH THE APPROVED SKETCH PLAN AND THE REQUIREMENTS OF SECTION 16.146 WITHIN THE SPECIFIC TIME PERIOD; AND SECTION 16.146, WHICH OUTLINES THE PRELIMINARY PLAN REQUIREMENTS SUBJECT TO THE FOLLOWING: THE FINAL PLAN FOR PHASE II SUBMISSION SHALL OCCUR BETWEEN JANUARY 4, 2010 AND 2. THE FINAL PLAN FOR PHASE III SHALL MEET THE SUBDIVISION SCHEDULE OUTLINED UNDER S-05-005, WITH THE PHASE III FINAL PLAN SUBMISSION OCCURRING BETWEEN JULY 1, 2010

AND NOVEMBER 1, 2010. 3.2.) OPEN SPACE LOT 4 HAS BEEN DEDICATED TO THE HOMEOWNERS ASSOCIATION FOR THE RESIDENCE OF THIS SUBDIVISION. 33.) HOMEOWNERS ASSOCIATION ARTICLES OF INCORPORATION AND RESTRICTIONS ARE

RECORDED AMONG THE LAND RECORDS OF HOWARD COUNTY, MARYLAND AS DEPT. 34) PROTECTIVE COVENANTS INCLUDING COVENANTS GOVERNING THE MAINTENANCE OF COMMUNITY OWNED OPEN SPACE AND FOREST CONSERVATION AREAS ARE RECORDED AMONG THE LAND RECORDS OF HOWARD COUNTY, MARYLAND IN LIBER 14539 FOLIO 413

35.) AS OF JULY 9, 2010 THIS PLAN IS SUBJECT TO WP-10-168 TO WAIVE SECTION 16.144(o) OF THE HOWARD COUNTY SUBDIVISION AND LAND DEVELOPMENT REGULATIONS WHICH STATES THAT WITHIN 60 DAYS OF RECEIVING APPROVAL OF THE FINAL PLAN THE DEVELOPER SHALL SUBMIT THE FINAL CONSTRUCTION DRAWING ORIGINALS TO THE DEPARTMENT OF PLANNING AND ZONING FOR SIGNATURE. IF A SUBDIVISION HAS A FOREST CONSERVATION OBLIGATION. THE FINAL FOREST CONSERVATION PLAN SHALL BE SUBMITTED WITHIN 60 DAYS; AND SECTION 16.144(p), WHICH STATES THAT WITHIN 120 DAYS OF RECEIVING APPROVAL OF THE FINAL PLAN THE DEVELOPER SHALL PAY ALL REQUIRED FEES TO THE COUNTY, AND, II SUBJECT TO A DEVELOPERS AGREEMENT OR MAJOR FACILITY AGREEMENT, SHALL POST ALL MONIES AND FILE APPROPRIATE SURETY COVERING THE DEVELOPER'S FINANCIAL OBLIGATIONS FOR THE REQUIRED PUBLIC OR PRIVATE IMPROVEMENTS, AND SECTION 16.144(q) WHICH STATES THAT WITHIN 180 DAYS OF FINAL PLAN APPROVAL. THE DEVELOPER SHALL SUBMIT THE FINAL FINAL SUBDIVISION PLAT TO THE DEPARTMENT OF PLANNING AND ZONING FOR SIGNATURES AND

RECORDATION. APPROVAL IS SUBJECT TO THE FOLLOWING: 1. THE ROAD CONSTRUCTION PLAN ORIGINALS MUST BE SUBMITTED FOR SIGNATURE WITHIN 60 DAYS OF THE JUNE 30, 2010 EXPIRATION OF STATE HOUSE BILL 921 (ON AUGUST 29,

2. THE DEVELOPER'S AGREEMENT MUST BE SUBMITTED FOR PROCESSING. ALL MONIES POSTED. AND ALL SURETIES POSTED WITHIN 120 DAYS OF THE EXPIRATION OF STATE HOUSE BILL 921 (ON OR BEFORE OCTOBER 28, 2010).

3. THE FINAL PLAT MUST BE SUBMITTED FOR RECORDATION WITHIN 180 OF JUNE 30, 2010 EXPIRATION OF STATE HOUSE BILL 921 (ON OR BEFORE DECEMBER 27, 2010). 4. THE DIRECT CURRENTLY REQUESTED BY THE DIVISION OF LAND DEVELOPMENT FOR F-10-032 MUST BE SUBMITTED WITHIN 2 WEEKS OF APPROVAL OF THIS WAIVER PETITION

(ON OR BEFORE JULY 23, 2010). 5. ARE SRC COMMENTS BASED ON THE DIRECT SUBMISSIONS TO DIVISION OF LAND DEVELOPMENT MUST BE ADDRESSED. STATE BILL HB-921, WHICH HAS BEEN IN EFFECT FOR "TOLLING" THE DEADLINE FOR

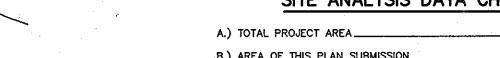
DEVELOPMENT PLANS IN THE APPROVAL PROCESS EXPIRED ON JUNE 30, 2010. BE ADVISED THAT ANY ADDITIONAL REQUESTS FOR PLAN DEADLINE EXTENSIONS WILL REQUIRE THE SUBMISSION OF A NEW WAIVER PETITION APPLICATION TO DPZ FOR PROCESSING. 36) AS OF NOVEMBER 8, 2011 THIS PLAN IS SUBJECT TO WP-12-053 SECTION 16.144(a) OF THE HOWARD COUNTY SUBDIVISION AND LAND DEVELOPMENT REGULATIONS WHICH STATES THAT WITHIN 180 DAYS OF FINAL PLAN APPROVAL, THE DEVELOPER SHALL SUBMIT THE FINAL FINAL SUBDIVISION PLAT TO THE DEPARTMENT OF PLANNING AND ZONING FOR SIGNATURES AND RECORDATION. APPROVAL IS SUBJECT TO THE FOLLOWING: 1. THE FINAL PLAT FRO PHASE I, F-10-032, MUST BE SUBMITTED FOR RECORDATION WITHIN 6 MONTHS OF THE CURRENT DEADLINE (ON OR BEFORE APRIL 8, 2012)

2. ALL SRC COMMENTS FOR THE PLAT MUST BE ADDRESSED. 37.) AS OF MAY 14, 2012 THIS PLAN IS SUBJECT TO WP-12-150 TO WAIVE SECTION 16.144(g) WHICH STATES THAT WITHIN 180 DAYS OF FINAL PLAN APPROVAL, THE DEVELOPER SHALL SÜBMIT THE FINAL FINAL SUBDIVISION PLAT TO THE DEPARTMENT OF PLANNING AND ZONING FOR SIGNATURES AND RECORDATION. APPROVAL IS SUBJECT TO THE FOLLOWING: THE FINAL PLAT FOR PHASE I. F-10-032. MUST BE SUBMITTED FOR RECORDATION WITHIN 6 MONTHS OF THE CURRENT DEADLINE (ON OR BEFORE OCTOBER 5,2012).

2. THE FINAL PLAT FOR PHASE II, F-10-124, MUST BE SUBMITTED FOR RECORDATION WITHIN 1 YEAR OF THE CURRENT DEADLINE (ON OR BEFORE MARCH 26, 2013). 3. THE FINAL PLAT FOR PHASE III, F-11-032, MUST BE SUBMITTED FOR RECORDATION WITHIN 1 YEAR OF THE CURRENT DEADLINE (ON OR BEFORE AUGUST 4, 2013). 4. ALL SRC COMMENTS FOR THE PLATS MUST BE ADDRESSED.

5. F-10-032, F-10-124 AND F-11-032 ARE SUBJECT TO THE ATTACHED COMMENTS FROM

28.) THE STAKING OF FOUNDATIONS PRIOR TO CONSTRICTION TO ENSURE COMPLIANCE WITH REGULATORY BUILDING RESTRICTION LINES IS RECOMMENDED.



C.) APPROXIMATE LIMIT OF DISTURBANCE \_\_\_\_\_ RESIDENTIA F.) FLOOR SPACE PER LOT \_\_\_\_\_

H.) TOTAL NUMBER OF UNITS PROPOSED\_\_\_ I.) NUMBER OF PARKING SPACES REQUIRED BY

\* TWO (2) PARKING SPACES ARE REQUIRED FOR EACH OF THE TWENTY (20) RESIDENTIAL DWELLING UNITS. THE PARKING REQUIREMENT HAS BEEN MET THROUGH THE USE OF GARAGE AND DRIVEWAY

K.) OPEN SPACE ON-SITE \_\_\_\_\_\_2.25AC± PERCENTAGE OF GROSS AREA\_\_\_\_\_\_N/A

GP-05-66, P-09-001, GP-11-041 F-10-032, CONTRACT NO. 14-4606-D, F-73-152, F-10-124, F-11-032, WP-10-168, WP-12-053, WP-12-150,

## SITE ANALYSIS DATA CHART

B.) AREA OF THIS PLAN SUBMISSION \_\_\_\_\_\_ 4.12 AC.

. SINGLE FAMILY DETACHED UNITS G.) TOTAL NUMBER OF UNITS ALLOWED AS SHOWN ON FINAL PLAT(S)\_\_\_\_\_

HO. CO. ZONING REGULATIONS . J.) NUMBER OF PARKING SPACES PROVIDED \_\_\_\_

L.) AREA OF RECREATIONAL OPEN SPACE REQUIRED \_\_\_\_\_ 4,000 SF AREA OF RECREATIONAL OPEN SPACE PROVIDED.........4,700 SF± (F-10-032) M.) APPLICABLE DPZ FILE REFERENCES: \_\_\_ S-05-005, F-88-99, F-84-191, WP-05-1

N.) PROPOSED WATER AND SEWER SYSTEMS: X PUBLIC PRIVATE

SHEET INDEX

DESCRIPTION

PERMIT INFORMATION CHART

ZONE

R-12

SECTION/AREA:

SECTIONS 1-3

TAX MAP | ELECTION

LOT/PARCEL #

TRACT

601201

LOTS 1-3 AND 5-21

GRADING, SEDIMENT AND EROSION CONTROL PLAN

SEDIMENT AND EROSION CONTROL NOTES AND DETAILS

SUBDIVISION NAME:

22176-22178

22182-PH2

22183-PH3

HCSCD/MAA SEDIMENT AND EROSION CONTROL NOTES AND DETAILS

PECORARO PROPERT

GRID No.

## 5922 LEBANON LANE 5918 LEBANON LANE 5914 LEBANON LANE

ELEV. 166.124

ELEV. 63.607

ADDRESS CHART

STREET ADDRESS

5911 LEBANON LANE

5915 LEBANON LANE 5919 LEBANON LANE

5923 LEBANON LANE

5927 LEBANON LANE 5931 LEBANON LANE

5935 LEBANON LANE

5939 LEBANON LANE

5943 LEBANON LANE

5947 LEBANON LANE

5951 LEBANON LANE

5955 LEBANON LANE

5938 LEBANON LANE

5934 LEBANON LANE

5930 LEBANON LANE

5926 LEBANON LANE

5910 LEBANON LANE

N 562553.353

HO. CO. #38BB

COORDINATE LIST NO. NORTH EAST 10 | 561788.9416 1392339.2768 31 | 561814.3329 1392382.338 32 561866.3687 1392470.577 33 | 561136.1074 392958.0765 34 | 560945,7944 392626.501 35 | 561487.5476 1392275.1912 36 | 561543.8877 1392362.0728 40 561791.4542 1392343.588 41 | 561811.7926 | 1392378.0315 69 | 561733.3538 | 1392244.1241

| MINIMUM LOT SIZE CHART |           |          |                  |  |  |  |
|------------------------|-----------|----------|------------------|--|--|--|
| LOT #                  |           |          | MINIMUM LOT SIZE |  |  |  |
| 10                     | 8,781 SF  | 77 SF    | 8,704 SF         |  |  |  |
| 11                     | 8,889 SF  | 473 SF   | 8,416 SF         |  |  |  |
| 12                     | 9,377 SF  | 865 SF   | 8,512 SF         |  |  |  |
| 13                     | 11,759 SF | 1,261 SF | 10,498 SF        |  |  |  |

E 1390967.866 E 1393649.835

ADC MAP COORDINATE= 4937, E7 & F7

## **LEGEND**

<del>------</del> 108 <del>-------</del>-

<del>-----</del>108*-----*

marketic

|       | ·  |
|-------|--|
|       | EXISTING CONTOURS  |
|       | PROPOSED CONTOURS  |
| <br>В | EXISTING WOODS LINE >  |
| 1     | EXISTING STRUCTURE   |
| 7     | PROPOSED STRUCTURE   |
| 5     | PROPOSED STRUCTURE   |
| 7     | FOREST CONSERVATION EASEMENT   |
| 2     |  |
| 8     | PUBLIC SEWER, WATER AND UTILITY EASEMENT   |
| 1     | AND UTILITY EASEMENT   |
| 5     | PRIVATE STORMDRAIN AND<br>UTILITY EASEMENT   |
| 1     | The second of th |

PRIVATE DRAINAGE, UTILITY AND RETAINING WALL EASEMENT PUBLIC 6' SIDEWALK AND UTILITY EASEMENT PRIVATE USE-IN-COMMON

EROSION CONTROL MATTING RECREATIONAL OPEN SPACE

STABILIZED CONSTRUCTION

SUPER SILT FENCE

SILT FENCE EARTH DIKE

LIMIT OF DISTURBANCE

PERIMETER LANDSCAPING PER F-10-032

STREET TREES PER F-10-032

SOIL BOUNDARY

FOREST CONSERVATION EASEMENT SIGNAGE

2 9-30-13 ADD GENERAL NOTE # 39 REFERENCING SECTION 128 OF HOCO. ZOMING REGULATIONS

ScE

#### 1 4-29-13 REVISE OWNER/BUILDER DATE Professional Certification: I hereby certify that these document were prepared or approved by me, and that I am a duly license professional engineer under the laws of the State of Maryland. **BENCHMARK**

## ENGINEERS A LAND SURVEYORS A PLANNERS ENGINEERING, INC.

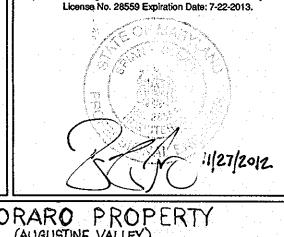
3480 BALTIMORE NATIONAL PIKE A SUITE 418 A ELLICOTT CITY, MARYLAND 21043 (P) 410-465-6105 (F) 410-465-6644

50 THOMAS JOHNSON DRIVE ▲ FREDERICK, MARYLAND 21702 (P) 301-371-3505 (F) 301-371-3508 WWW.BEI-CIVILENGINEERING.COM

GZIO OLD DOBBIN LANE SUITE 190

410-312-2837

COLUMBIA, MARYLAND 21045



PROJECT NO. 24.18

DRAWING 1 OF 5

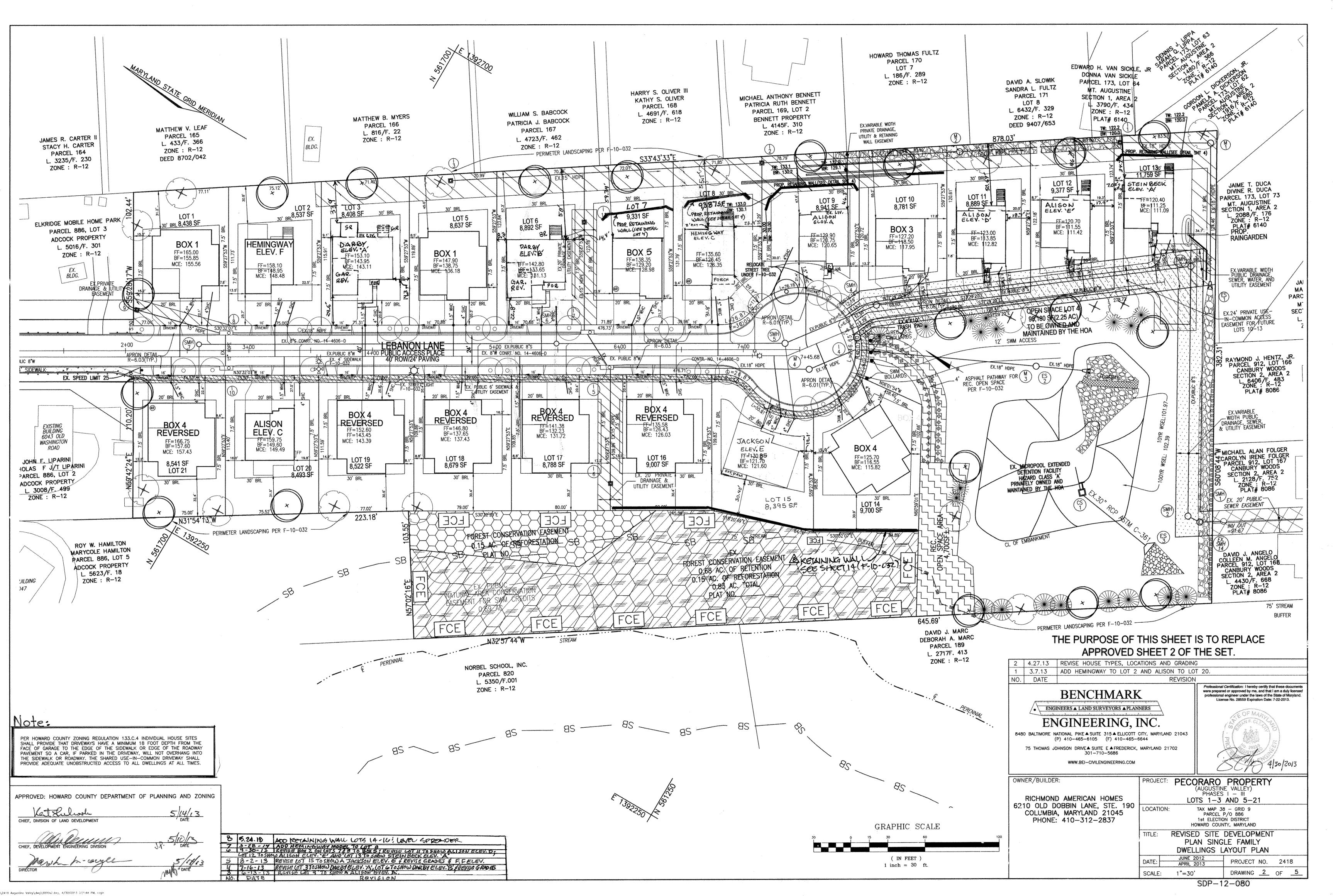
|  | PROJECT: PECORARO PROPERTY  (AUGUSTINE VALLEY)  PHASES 1 - 111  LOTS 1-3 AND 5-21          |
|--|--|
|  | LOCATION: TAX MAP 38 - GRID 9 PARCEL P/O 886 1st ELECTION DISTRICT HOWARD COUNTY, MARYLAND |
| OWNER/BUILDER: RICHMOND AMERICAN HOMES | TITLE: SITE DEVELOPMENT PLAN SINGLE FAMILY DWELLINGS                                       |

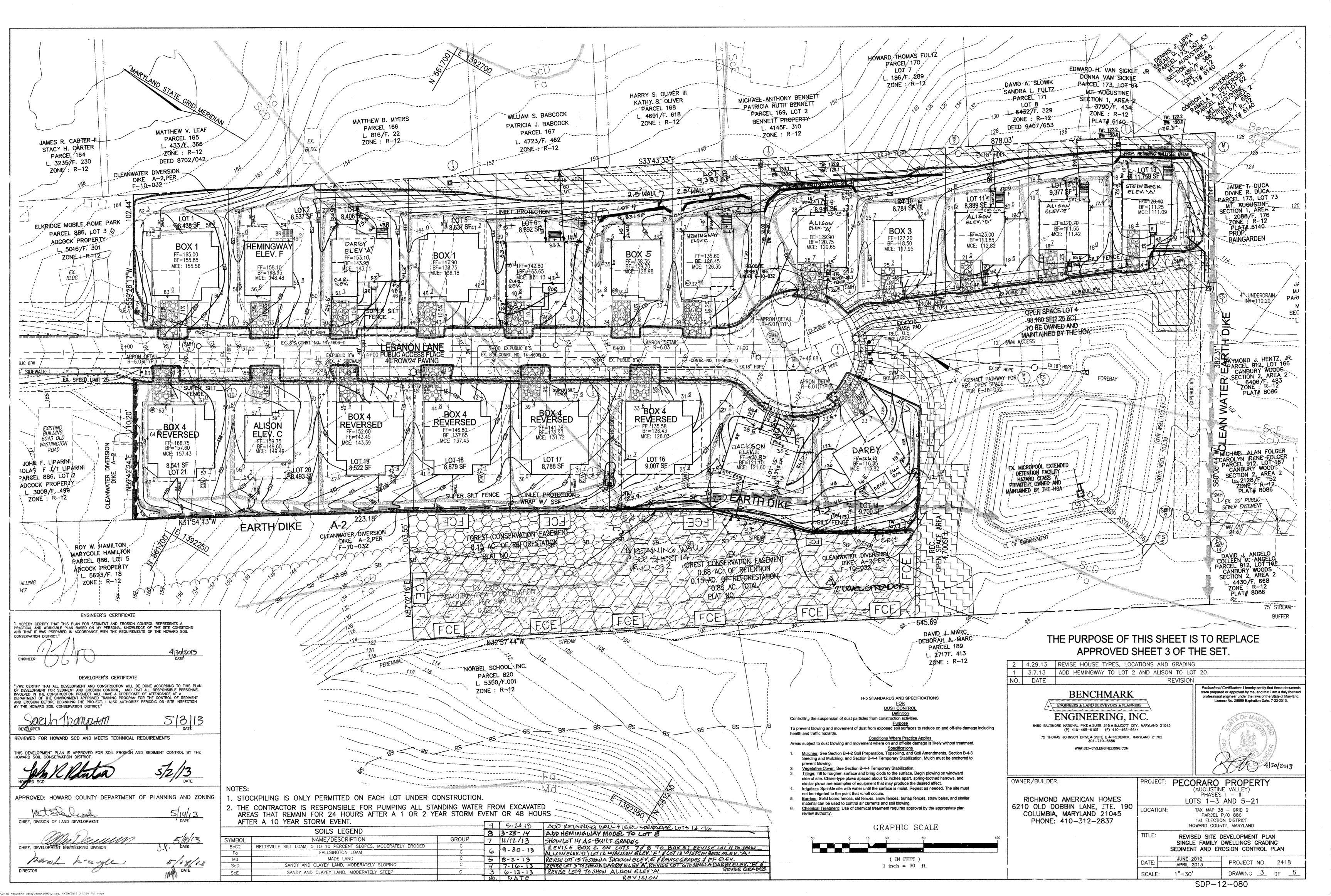
AS SHOWN

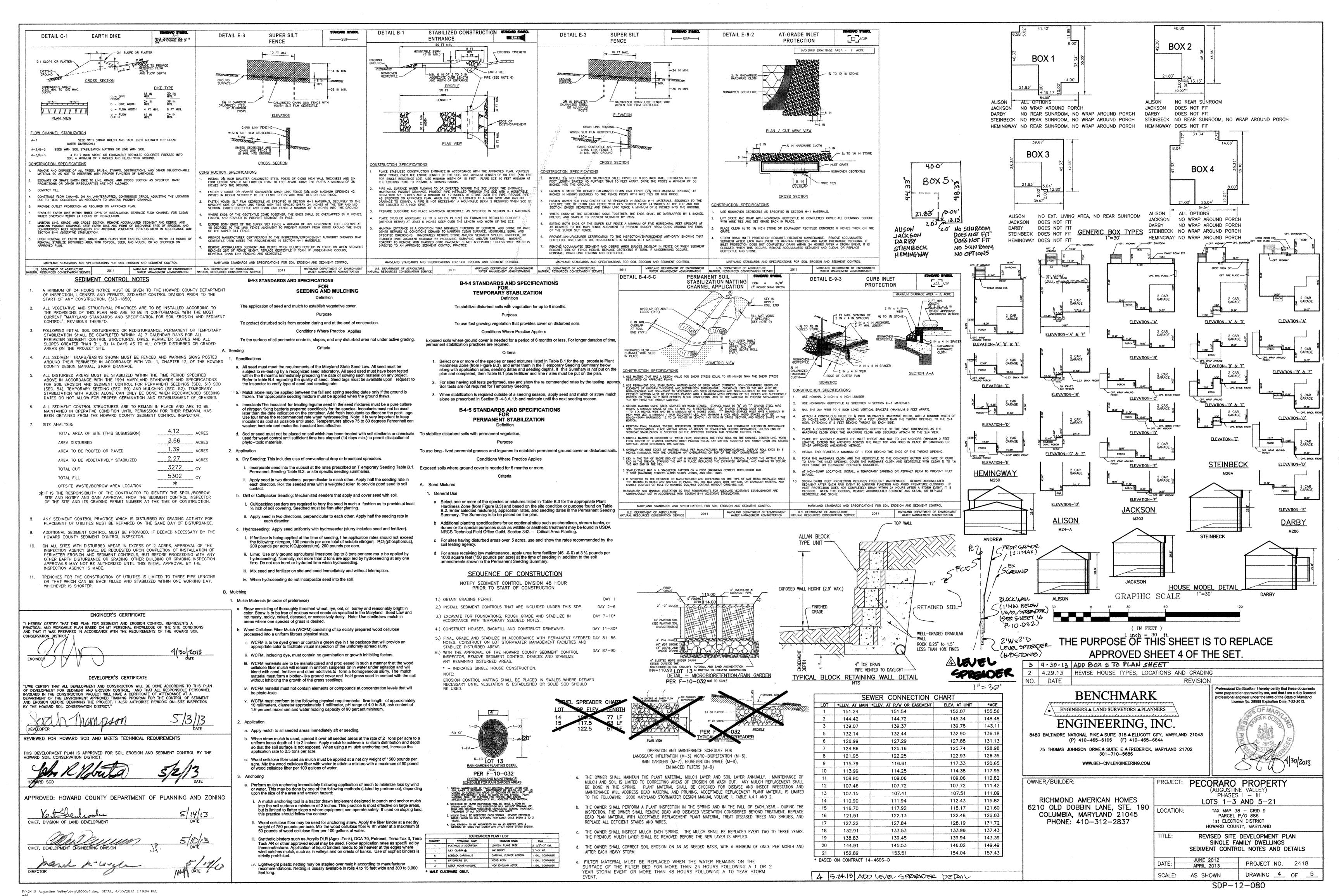
SDP-12-080

TITLE SHEET

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VEGETATIVE ESTABLISHMENT

DETAILS AND SPECIFICATIONS FOR PROJECTS WITHIN MILES OF THE BWI AIRPORT

References to ITEM #s noted below are found in Maryland Aviation Administration's manual entitled Specifications for Performing Landscaping Activities for the Maryland Aviation Administration dated May 2001

- 1. Following initial soil disturbances or re-disturbance, permanent or temporary stabilization shall be completed within seven calendar days for the surface of all perimeter controls, dikes, swales, ditches, perimeter
- slopes, and all slopes greater than 3 horizontal to 1 vertical (3:1) and fourteen days for all other disturbed or graded areas on the project site. 2. Occurrence of acid sulfate soils (grayish black color) will require covering with a minimum of 12 inches of clean soil with 6 inches minimum capping of top soil. No stockpiling of material is allowed. If needed,
- soil tests should be done before and after a 6-week incubation period to allow oxidation of sulfates. 3. The minimum soil conditions required for permanent vegetative establishment are: a. Soil pH shall be between 6.0 and 7.0.
- b. Soluble salts shall be less than 500 parts per million (ppm). c. The soil shall contain less than 40% clay but enough fine
- grained material (> 30% silt plus clay) to provide the capacity to hold a moderate amount of moisture.
- b. Soil shall contain 1.5% minimum organic matter by weight.
- c. Soil must contain sufficient pore space to permit adequate root penetration. d. If these conditions cannot be met by soils on site, adding topsoil is required in accordance ITEM 901 or amendments made as recommended by a certified agronomist.

## SEEDING ITEM 903 SEEDING

DESCRIPTION 903-1.1 GENERAL. This item provides specifications for seeding of areas as designated on plans or as directed by the MAA Engineer. The species, mixtures, and methods of application provided in this item have been designed to reduce the attractiveness of airport grounds to wildlife. Only MAA-approved species, mixtures, and rates of application provided in this item may be used to establish vegetation. All activities associated with seeding including soil preparation, seed application, fertilization, and maintenance shall also conform to these approved standards.

#### MATERIALS

903-2.1 SEED. All seed shall comply with the Maryland Seed Law (Agricultural Article of the Annotated Code of Maryland). Only MAA-approved species, mixtures, and rates of application provided in this item may be used to establish vegetation. Seed will be sampled and tested by an inspector from the Turf and Seed Section. Maryland Department of Agriculture (MDA), Annapolis, Maryland. All lawn and turf seed and mixtures shall be free from the following state-listed restricted noxious weeds:

- corn cockle (Agrostemma githago),
- bentgrass (Agrostis spp.) redtop (Agrostis gigantea)
- wild onion (Allium canadense) wild garlic (Allium vineale)

tussock (Nassella trichotoma)

- bindweed (Calstegia spp.)
- dodder (Cuscuta spp.), Bermuda grass (Cynodon dactylon)
- orchardgrass (Dactylis glomerata)
- tall fescue (Festuca arundinacea)
- meadow fescue (Festuca pratensis) 1, velvetgrass (Holcus lanatus),
- annual bluegrass (Poa annua)
- rough bluegrass (Poa trivialis)

timothy (Phleum pratense), and Johnson grass (Sorgum halepense) Restricted noxious-weed seed may not exceed 0.5 percent by weight of any seed mixture. In addition, all seeds sold in Maryland shall be free from the following listed prohibited noxious weeds: balloonvine (Cardiospermum halicacabum), quackgrass (Elytrigia repens), sicklepod (Senna obtusifolia), sorghum (Sorghum spp.), Canada thistle (Cirsium arvense), plumeless thistle (Carduus app.-includes musk thistle and curled thistle), and serrated

903-2.1.1 APPROVED SPECIES. The following table contains species that are approved by MAA for use in seed mixtures. Purity requirements and germination requirements are also provided. 1. These species may be included as a labeled component of a mixture when each is present in excess of five percent of the mixture by weight.

| APPROVED PLANT SPECIES MAA SEED MIXTURES                 |  |  |   |  |  |
|--|--|--|---|--|--|
|  | Purity*<br>Not Less than %             | Minimum % Germination <sup>b</sup>   | Pure Live Seed Factor                           |  |  |
| Certified Turf-Type Tall Fescue<br>(Festuca arundinacca) | 98                                     | 90   | 1.13  |  |  |
| Certified Kentucky Bluegrass (Poa pratensis)             | 90                                     | 80   | 1.39  |  |  |
| Hard Fescue<br>(Festuca longifolia)                      | 98                                     | 90   | 1.13  |  |  |
| Chowings Red Fescue<br>(Festuca rubra commutata)         | 98                                     | 90   | 1.13  |  |  |
| Annual Ryegrass (Lolium multiflorum)                     | 95                                     | 85   | 1.24  |  |  |
| Percanial Ryegrass (Lol sum perenne)                     | 90                                     | . 80   | 1.39  |  |  |
| Fowl Meadow Grass (Poa palustris)                        | 90                                     | 80   | 1.39  |  |  |
| Little Bluestem (Andropogon scoparius)                   | 62                                     | 94   | 1.71  |  |  |
| The percentage weight of pure seed pr                    | esent shall be free of any agriculture | seeds, inert matter, and other seeds distingui<br>ude hard seeds unless specifically permitted | shable by their appearance by the MAA Engineer. |  |  |

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

Seeding seasons are based on typical years and can be subject to variation, which may be modified by the MAA Engineer based on seasonal trends. If the time required to complete any of the operations necessary under this item, within the specified planting season or any authorized extensions thereof, extends beyond the Contract period, then such time will be charged against the Contract time, and liquidated damages will be enforced with respect to this

903-2.2 LIME. Lime shall consist of ground limestone and contain at least 85 percent total carbonates. Lime shall be ground to a fineness so that at least 90 percent will pass through a No. 20 mesh sieve and 50 percent will pass through a No. 100 mesh sieve. Dolomitic lime or a high magnesium lime shall contain at least 10 percent magnesium oxide. Lime shall be applied by approved methods detailed in Section 903-3.3 of this item. The rate of application will be based on results of soil tests.

903-2.3 FERTILIZER. Fertilizer shall be standard commercial fertilizer (supplied separately or in mixtures) and meet the requirements of applicable state and federal laws (0-F-241) as well as standards of the Association of Official Agricultural Chemists. Nitrogen-Phosphorus-Potassium (N-P-K) concentrations shall be determined from analysis of soil samples. (Approved fertilizer rate: 21 pounds of 10-10-10 per 1,000 square feet.) Methods of fertilizer application shall conform to standards described in Section 903-3.3 of this item. Fertilizer shall be furnished in standard containers that are clearly labeled with name, weight, and avaranteed analysis of the contents (percentage of total nitrogen, available phosphoric acid, and water-soluble potash). Mixed fertilizers shall not contain any hydrated lime or cyanamide compounds. Fertilizers failing to meet the specified analysis may be approved by the MAA Engineer, providing sufficient materials are applied to conform with the specified nutrients per unit of measure without additional cost to MAA. The fertilizers may be supplied in the following forms:

a. A dry, free-flowing fertilizer suitable for application by a common fertilizer spreader; b. A finely ground fertilizer soluble in water, suitable for application by power sprayers; or

c. A granular or pellet form suitable for application by blower equipment.

The rate of application will be based on results of soil tests performed by the University of Maryland Soil Testing Laboratory. By law, persons applying fertilizer to State-owned land shall follow the recommendations of the University of Maryland as set forth in the "Plant Nutrient Recommendations Based on Soil Tests for Turf Maintenance" and the "Plant Nutrient Recommendations Based on Soil Tests for Sod Production" (see Appendix B). Application of the fertilizer shall be in a manner that is consistent with the recommendations of the University of Maryland Cooperative Extension.

CONSTRUCTION METHODS AND EQUIPMENT 903-3.1 GENERAL. This section provides approved methods for the application of and includes standards for seedbed preparation, methods of application, and equipment to be used during the process. Lime and fertilizer shall be applied to seeded areas before the seed is spread. The mixture of seed will be

determined for sites based on environmental conditions as described in Paragraph 903-2.1.3. 903-3.2 ADVANCE PREPARATION. Areas designated for seeding shall be properly prepared in advance of seed application. The area shall be tilled and graded prior to application of lime and fertilizer, and the surface area shall be cleared of any stones larger than I inch in diameter, sticks, stumps, and other debris that might interfere with sowing of seed, growth of grasses, or subsequent maintenance of grass-covered areas. Damage caused by erosion or other forces that occur after the completion of grading shall be repaired prior to the application of fertilizer and lime. The Contractor will repair such damage, which may include filling guilles, smoothing irregularities, and repairing other incidental damage before beginning the application of fertilizer and ground limestone

If an area to be seeded is sparsely sodded, weedy, barren and unworked, or packed and hard, all grass and weeds shall first be cut or otherwise satisfactorily disposed of, and the soil then scarified or otherwise loosened to a depth not less than 5 inches (125 mm). Clods shall be broken and the top 3 inches (75 mm) of soil shall be worked into a satisfactory condition by discing or by use of cultipackers, rollers, drags, harrows, or other appropriate

An area to be seeded shall be considered a satisfactory seedbed (without requiring additional treatment) if it has recently been thoroughly loosened and worked to a depth of not less than 5 inches; the top 3 inches of soil is loose, friable, and is reasonably free from large clods, rocks, large roots, or other undesirable matter; appropriate amounts of fertilizer and lime have been added; and, if it has been shaped to the required grade immediately prior to seeding. For slope areas steeper than 3:1 (three horizontal to one vertical), the subsoil shall be loose to a depth of 1 inch. After completion of tilling and grading, lime and fertilizer shall be applied within 48 hours according to the specified rate (Paragraphs 903-2.2 and 2.3) and methods (Paragraphs 903-3.3.1 and 903-3.3.2) approved by MAA. The seeding mixture shall be applied within 48 hours after application of lime and fertilizer. To firm the seeded areas, cultipacking shall occur immediately after seeding.

903-3.3 METHODS OF APPLICATION. Lime, fertilizer, and seed mixes shall be applied by either the dry or wet application methods that have been approved by MAA and are detailed below. 903-3.3.1 DRY APPLICATION METHOD

a. Liming. If soil test results indicate that lime is needed, the following procedures will be used: following advance preparation of the seedbed, lime shall be applied prior to the application of any fertilizer or seed and only on seedbeds that have been prepared as described in paragraph 903-3.2. The lime shall be uniformly spread and worked into the top 2 inches of soil, after which the seedbed shall be properly graded again. b. Fertilizing. Following advance preparations (and liming if necessary), fertilizer shall be spread uniformly at the specified rate to provide no less than the minimum quantity stated in Paragraph 903-2.3. c. Seeding. Seed mixtures shall be sown immediately after fertilization of the seedbed. The fertilizer and seed shall be lightly raked to a depth of I inch

for newly graded and disturbed areas. d. Rolling. After the seed has been properly covered, the seedbed shall be immediately compacted using a cultipacker or an approved lawnroller.

a. General. The Contractor may elect to apply seed and fertilizer as per Paragraphs c and d of this section in the form of an aqueous mixture by spraying over the previously prepared seedbed using methods and equipment approved by MAA. The rates of application shall be as specified in

Paragraphs 903-2.1 through 903-2.3. b. Spraying Equipment. The spraying equipment shall have a container or water tank equipped with a liquid level gauge capable of reading increments of 50 gallons or less over the entire range of the tank capacity. The liquid level gauge shall be mounted so as to be visible to the nozzle operator at all times. The container or tank shall also be equipped with a mechanical power-driven agitator capable of keeping all the solids in the mixture in complete suspension at all times until used.

The spraying equipment shall also include a pressure pump capable of delivering 100 gallons per minute at a pressure of 100 pounds per square inch. The pressure pump assemblage shall be configured to allow the mixture to flow through the tank when not being sprayed from the nozzle. All pump passages and pipelines shall be capable of providing clearance for 5/8-inch solids. The power unit for the pump and agitator shall have controls mounted so as to be accessible to the nozzle operator. A pressure gauge shall be connected to and mounted immediately behind the nozzle. The nozzle pipe shall be mounted on an elevated supporting stand in such a manner that it can be rotated through 360 degrees horizontally and inclined vertically from at least 20 degrees below to at least 60 degrees above the horizontal. There shall be a quick-actina, three-way control valve connectina the recirculating line to the nozzle pipe and mounted so that the nozzle operator can control and regulate the amount of flow of mixture to be supplied so that mixtures may be properly sprayed over a distance varying from 20 feet to 100 feet. One shall be a close-range ribbon nozzle, one a medium-range ribbon nozzle, and one a long-range jet nozzle. For ease of removal and cleaning, all nozzles shall be connected to the nozzle pipe by means of quick-release couplings. In order to reach areas inaccessible to the regular equipment, an extension hose at least 50 feet in length shall be provided to which the nozzles may be connected.

c. Mixtures. Lime shall be applied separately in the quantity specified, prior to the fertilizing and seeding operations. Lime should be added to and mixed with water at a concentration not to exceed 220 pounds of lime for every 100 gallons of water. After lime has been applied, the tank should be emptied and rinsed with fresh water. Seed and fertilizer shall be mixed together in the relative proportions specified, but the resulting concentration should not exceed 220 pounds of mixture per 100 gallons of water and should be applied within 30 minutes to prevent fertilizer burn of the seeds. All water used shall be obtained from fresh water sources and shall be free from injurious chemicals and other toxic substances harmful to plant life. Brackish water shall not be used at any time. The Contractor shall identify all sources of water to the MAA Engineer at least two weeks prior to use. The Engineer may take samples of the water at the source or from the tank at any time and have a laboratory test the samples for chemical and saline content. The Contractor shall not use any water from any source that is disapproved by the Engineer following such tests. All mixtures shall be constantly agitated from the time they are mixed until they are finally applied to the seedbed. All such mixtures shall be used within 30 minutes from the time they were mixed or they shall be wasted and disposed of at a location acceptable to the Engineer. d. Spraying. Lime shall be sprayed upon previously prepared seedbeds on which the lime, if required, shall have been worked in already. The mixtures shall be applied using a high-pressure spray which shall always be directed upward into the air so that the mixtures will fall to the ground in a uniform spray. Nozzles or sprays shall never be directed toward the ground in such a manner that might produce erosion or runoff. Particular care shall be exercised to ensure that the application is made uniformly, at the prescribed rate, and to guard against misses and overlapped areas. Predetermined quantities of the mixture shall be used in accordance with specifications to cover specified sections of known areas. To checks the rate and uniformity of application, the applicator will observe the degree of wetting of the ground or distribute test sheets of paper or pans over the area at intervals and observe the quantity of material deposited thereon.

not be raked into the soil or rolled. However, on surfaces on which mulch is not to be used, the raking and rolling operations will be required after the soil has dried. 903-3.4 MAINTENANCE OF SEEDED AREAS. The contractor shall protect seeded areas against traffic or other use by warning signs or barricades, as approved by the Engineer. Surfaces guilled or otherwise damaged following seeding shall be repaired by regrading and reseeding as directed. The Contractor shall mow, water as directed, and otherwise maintain seeded areas in a satisfactory condition until final inspection and acceptance of the work. When either the dry or wet application method outlined above is used for work performed out of season, the Contractor will be required to establish a good stand of grass of uniform color and density to the satisfaction of the Engineer. If at the time when the contract has been otherwise completed it is not possible to make an adequate determination of the color, density, and uniformity of such stand of grass, payment for the unaccepted portions of the areas

On surfaces that are to be mulched as indicated by the plans or designated by the MAA Engineer, seed and fertilizer applied by the spray method need

seeded out of season will be withheld until such time as these requirements have been met. Mulch shall be applied to all seeded areas immediately after seeding. During the time periods when seeding is not permitted, mulch shall be applied

immediately after arading. Mulch shall be applied as per ITEM 905.

TEMPORARY SEEDING 100 pounds of dolomitic limestone per 1,000 square feet.

Fertilizer: 15 pounds of 10-10-10 per 1,000 square feet. Per ITEM 903

Mulch: Mulch shall be applied as per ITEM 905.

<u>FILL</u> No fills may be placed on frozen ground. All fill to be placed in approximately horizontal layers, each layer having a loose thickness of not more than 8 inches. All fill in roadways and parking areas is to be classified Type 2 as per Anne Arundel County Code - Article 21, Section 2-308, and compacted to 90% density; compaction to be determined by ASTM D-1557-66T (Modified Proctor). Any fill within the building area is to be compacted to a minimum of 95% density as determined by methods previously mentioned. Fills for pond embankments shall be compacted as per MD-378 Construction Specifications. All other fills shall be compacted sufficiently so

as to be stable and prevent erosion and slippage. Installation of sod should follow permanent seeding dates. Seedbed preparation for

sod shall be as noted above. Lime and fertilizer per permanent seeding specifications and lightly irrigate soil prior to laying sod. Sod is to be laid on the contour with all ends tightly abutting. Joints are to be staggered between rows. Water and roll or tamp sod to insure positive root contact with the soil. All slopes steeper than 3:1, as shown, are to be permanently sodded or protected with an approved erosion control netting. Additional watering for establishment may be required. Sod is not to be installed on frozen ground. Sod shall not be transplanted when moisture content (dry or wet) and/or extreme temperature may adversely affect its survival. In the absence of adequate rainfall, irrigation should be performed to ensure establishment of sod. MINING OPERATIONS

Sediment control plans for mining operations must include the following seeding dates and mixtures: For seeding dates of: February 1 through April 30 and August 15 through October 31, use seed mixture of tall fescue at the rate of 2 pounds per 1,000 square feet and red top at the minimum rate of 0.5 pounds per 1,000 square feet. NOTE: Use of this information does not preclude meeting all of the requirements of the current Maryland Standards and Specifications for Soil Erosion and 903-2.1.2 PURITY. All seed shall be free of all state-designated noxious weeds listed in Paragraph 2.1.1 and conform to MAA specifications. To ensure compliance, MAA requires sampling and testing of seed by the Turf and Seed Section, Maryland Department of Agriculture (MDA). The Contractor shall furnish the MAA Engineer with duplicate signed copies of a statement by the Turf and Seed Section certifying that each lot of seed has been laboratory tested within six months of date of delivery. This statement shall include the following

- name and address of laboratory.
- date of test, • lot number,

information:

• the results of tests as to name, percentages of purity and of germination, · percentage of weed content for the seed furnished,

. and, in the case of a mixture, the proportions of each kind of seed. Seed shall be furnished in standard containers with the seed name, lot number, net weight, percentages of purity, germination rate and hard seed, and percentage of maximum weed seed content clearly marked. All seed containers shall be tagged with a MDA supervised mix program seed tag.

903-2.1.3 MIXTURES AND APPLICATION RATES. Only seed mixtures and application rates described in this item may be used unless otherwise approved by the MAA Engineer. Seed mixtures shall meet criteria detailed in Paragraph 903-2.1.2. Seed mixtures have been formulated to minimize the attractiveness of areas to wildlife of common landscape scenarios. The appropriate seed mixture for application will be designated based on environmental conditions and may vary from site to site. All planting rates listed are in pounds of Pure Live Seed (PLS) per acre.

Seed mixtures, application scenarios, and rates for permanent cool-season grasses are as follows: a. Seed Mixture No. 1 - relatively flat areas (grade less than 4:1) subject to normal

conditions and regular mowing (Application rate = 234 lbs PLS/acre); a. Seed Mixture No. 2 - sloped areas (grade greater than 4:1) not subject to regular

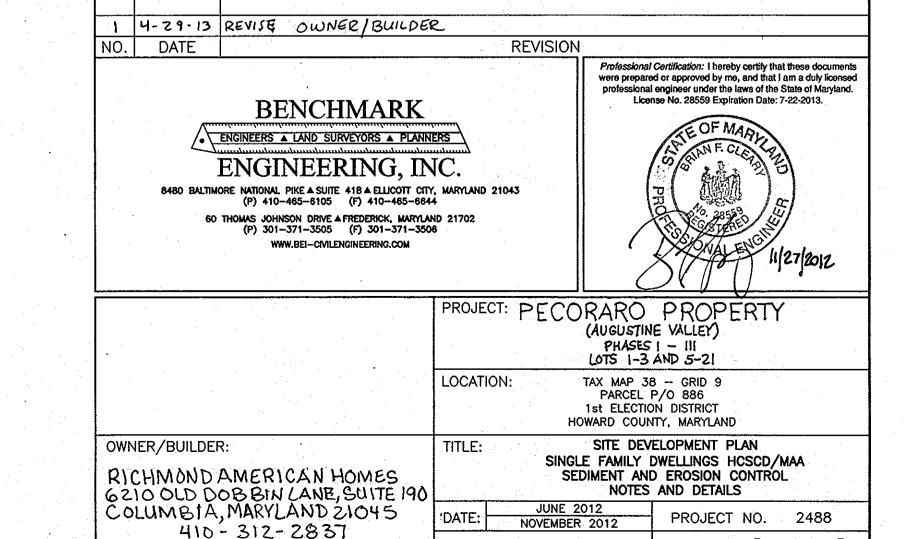
mowing (Application rate = 115 lbs PLS/acre); and a. Seed Mixture No. 3 - wetlands and their associated buffer zones (Application rate =

131 lbs PLS/acre). Seed Mixture No. 1: Relatively flat areas regularly mowed and exposed to normal conditions (Application rate =

234 lbs PLS/acre) Rate of Application (lbs of LS/acre) 85% Certified Turf-Type Tall Fescue 10% Certified Kentucky Bluearass 5% Perennial Ryegrass Supplemental Seed Annual Ryearass Seed Mixture No. 2: Sloped areas not subject to regular mowing (Application rate # 115 lbs PLS/acre) Application (lbs of PLS/acre) 75% Hard Fescue 20% Chewings Fescue 5% Kentucky Bluegrass Supplemental Seed Seed Mixture No. 3 - Wetland areas and their associated buffer zones (Application rate = 131 lbs PLS/acre) Application (lbs of PLS/acre) Seed 60% Fowl Meadow Grass 30% Chewings Fescue 10% Perennial Ryegrass Supplemental Seed

903-2.1.4 SEEDING SEASONS. Application of seed and seed mixtures shall occur within a specified seeding season unless otherwise approved by the MAA Engineer. No seed or seed mixtures are to be applied on frozen around or when the temperature is at or below 35 degrees Fahrenheit (7.2 degrees Centigrade). Under these conditions, a layer of mulch should be applied in accordance with Item 905, Mulching, to stabilize the site, and permanent seeding should occur in the subsequent seeding season. Seed application may occur during the seeding season dates listed below. Seeding performed after October 20 should be a temporary cover of annual ryegrass and followed by over seeding of the appropriate seed mixture during the spring seeding season.

| SEEDING SEASONS   |  |  |
|---|--|--|
| Permanent Cool-Season Grasses                                 | March 1 to April 20 and August 1 to October 20, inclusive                          |  |
| Temporary Cover of Annual Rye/Redtop                          | March 1 to April 30 and August 1 to November 30, inclusive                         |  |
| Temporary Cover of Warm-Scason Grasses (Little Bluestem only) | May 1 to July 31, inclusive. Rate of application should be 13.6 lbs. PLS per acre. |  |



SCALE:

DRAWING  $\underline{5}$  OF  $\underline{5}$ 

AS SHOWN