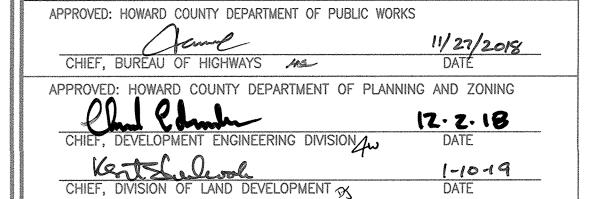


GENERAL NOTES

- THE PROJECT BOUNDARY IS BASED ON A FIELD RUN BOUNDARY SURVEY PREPARED BY ROBERT H. VOGEL ENGINEERING, INC.,
- . THE EXISTING TOPOGRAPHY SHOWN HEREON IS TAKEN FROM HOWARD COUNTY GIS AND SUPPLEMENTED WITH FIELD RUN SURVEYS PREPARED BY ROBERT H. VOGEL ENGINEERING, INC., DATED MARCH AND MAY OF 2016.
- . THE COORDINATES SHOWN HEREON ARE BASED UPON THE HOWARD COUNTY GEODETIC CONTROL, WHICH IS BASED UPON THE MARYLAND STATE PLANE COORDINATE SYSTEM. HOWARD COUNTY MONUMENT NOS. 34HA AND 34GB WERE USED FOR THIS PROJECT.
- 4. THE SUBJECT PROPERTY IS ZONED "RR-DEO" IN ACCORDANCE WITH THE OCTOBER 6, 2013 COMPREHENSIVE
- . THIS SITE IS NOT LOCATED IN A HISTORIC DISTRICT OR IN THE METROPOLITAN DISTRICT. TO THE BEST OF THE OWNERS KNOWLEDGE, THERE ARE NO BURIAL GROUNDS, CEMETERIES, OR HISTORIC
- STRUCTURES LOCATED ON THIS PROPERTY
- 7. AN ENVIRONMENTAL CONCEPT PLAN (ECP-16-064) WAS APPROVED ON DECEMBER 21, 2016. 8. A PRE-SUBMISSION COMMUNITY MEETING WAS HELD ON MARCH 29, 2016 AT 6:00 PM AT THE BOARD ROOM AT CLARET
- HALL. A SECOND COMMUNITY MEETING WAS HELD ON FEBRUARY 21, 2017, AT THE SAME TIME AND LOCATION AS THE FIRST. 9. THIS PROJECT IS IN CONFORMANCE WITH THE LATEST HOWARD COUNTY STANDARDS, UNLESS ALTERNATIVE
- COMPLIANCE REQUESTS HAVE BEEN APPROVED. 10. A TOTAL OF 16 RESIDENTIAL LOTS (INCLUDING ONE BUILDABLE PRESERVATION PARCEL) AND 7 NON-BUILDABLE
- PRESERVATION PARCELS ARE PROPOSED UNDER THIS PLAN. . THE PROPOSED UNITS SHALL HAVE AN AUTOMATIC FIRE PROTECTION SPRINKLER SYSTEM.
- 2. ALLNUTT LANE IS CLASSIFIED AS A PUBLIC ACCESS ROAD. NO IMPROVEMENTS TO THE EXISTING ROAD ARE PROPOSED. THE PROPOSED EXTENSION OF ALLNUTT LANE SHALL CONFORM WITH GUIDELINES WITHIN THE
- DESIGN MANUAL DRIVEWAY(S) SHALL BE PROVIDED PRIOR TO ISSUANCE OF A USE AND OCCUPANCY PERMIT FOR ANY NEW DWELLINGS
- A) WIDTH 12 FEET (16 FEET SERVING MORE THAN ONE RESIDENCE) B) SURFACE -- 6 INCHES OF COMPACTED CRUSHER RUN BASE WITH TAR AND CHIP COATING. (1"-1.5" MIN.) C) GEOMETRY - MAX. 15% GRADE, MAX. 10% GRADE CHANGE AND MIN. OF 45-FOOT TURNING RADIUS. D) STRUCTURES (CULVERT/BRIDGES) - CAPABLE OF SUPPORTING 25 GROSS TONS (H25 LOADING). E) DRAINAGE ELEMENTS - SAFELY PASSING 100-YEAR FLOOD WITH NO MORE THAN 1 FOOT DEPTH

TO ENSURE SAFE ACCESS FOR FIRE AND EMERGENCY VEHICLES PER THE FOLLOWING MINIMUM REQUIREMENTS.

- OVER DRIVEWAY SURFACE F) STRUCTURE CLEARANCES - MINIMUM 12 FEET.
- G) MAINTENANCE SUFFICIENT TO ENSURE ALL WEATHER USE. 14. AN APFO TRAFFIC STUDY WAS PREPARED BY THE TRAFFIC GROUP AND APPROVED SEPTEMBER 21, 2017. 15. A NOISE STUDY IS NOT REQUIRED FOR THIS PROJECT.
- 16. IN ACCORDANCE WITH THE HOWARD COUNTY DESIGN MANUAL VOLUME 3, CHAPTER 2 SECTION 2.9.B. AND THE HOWARD COUNTY ZONING REGULATIONS SECTION 133.O.D.2.g, PARKING IS REQUIRED AT 2.0 SPACES PER UNIT. OFF STREET PARKING TO INCLUDE GARAGE SPACES, DRIVEWAY, PARKING PADS AND COURTS.
- GARAGES COUNT AS TWO SPACES, SEE PARKING TABULATION ON SHEET 1 . STREET LIGHTING IS NOT REQUIRED FOR THIS SITE IN ACCORDANCE WITH SECTION 16.135 OF THE SUBDIVISION
- 18. ALL LOTS/RESIDENTIAL UNITS IN THIS SUBDIVISION ARE SUBJECT TO THE MIHU FEE-IN-LIEU REQUIREMENT THAT IS TO BE CALCULATED AND PAID TO THE DEPARTMENT OF INSPECTIONS, LICENSES AND PERMITS AT THE TIME OF BUILDING PERMIT ISSUANCE BY THE PERMIT APPLICANT.
- 19. IN ACCORDANCE WITH SECTION 16.121(A)(2) OF THE HOWARD COUNTY SUBDIVISION AND LAND DEVELOPMENT REGULATIONS, OPEN SPACE IS NOT REQUIRED FOR PROJECTS ZONED RR-DEO. I. IN ACCORDANCE WITH SECTIONS 105.0.G. AND 106.0 OF THE ZONING REGULATIONS, THIS PROJECT IS BEING
- DEVELOPED UTILIZING THE CLUSTER SUBDIVISION REQUIREMENTS AND DENSITY EXCHANGE OPTION. THIS SUBDIVISION REQUIRES 6 DWELLING UNITS FROM AN ELIGIBLE SENDING PARCEL 1. FLAG AND PIPESTEM LOTS, REFUSE COLLECTION, SNOW REMOVAL AND ROAD MAINTENANCE ARE PROVIDED
- TO THE JUNCTION OF THE FLAG OR PIPESTEM AND ROAD RIGHT-OF-WAY LINE AND NOT ONTO THE PIPESTEM 22. LOTS 4-9, 12-15, BUILDABLE PRESERVATION PARCEL 'A', AND NON-BUILDABLE PRESERVATION PARCELS 'C'. 'E'. 'F'. AND 'H' WILL UTILIZE À USE-IN-COMMON DRIVEWAY. A USE-ÎN-COMMON MAINTENANCE AGREEMENT FOR THE SHARED DRIVEWAYS
- SHALL BE RECORDED SIMULTANEOUSLY WITH THE FINAL PLAN. 23. A PRIVATE PRIVEWAY NAME SIGN ASSEMBLY SHALL BE FABRICATED BY HOWARD COUNTY BUREAU OF HIGHWAYS AT THE DRIVEWAY ACCESS POINT ONTO ALLNUTT LANE AT THE DEVELOPERS/OWNERS EXPENSE. CONTACT HOWARD COUNTY TRAFFIC DIVISION AT 410-313-5752 FOR DETAILS AND COST ESTIMATES.
- 24. LOCATION OF EXISTING WELL AND SEPTIC SYSTEM FEATURES ON GREENE PROPERTY, LOT 1, TAKEN FROM PUBLIC
- 5. THE WELL AND SEPTIC SYSTEM DISTRIBUTION BOX AND TRENCHES SERVING THE EXISTING HOUSE MUST BE PROPERLY ABANDONED, WITH DOCUMENTATION SUBMITTED TO THE HEALTH DEPARTMENT, PRIOR TO HEALTH DEPARTMENT SIGNATURE
- 5. THIS PROPERTY IS LOCATED IN GROWTH TIER III, PER SB-236. MAJOR SUBDIVISIONS OF 5 LOTS OR MORE ARE PERMITTED UTILIZING ON-SITE SEPTIC SYSTEMS, COMMUNITY SEPTIC SYSTEMS OR A SHARED FACILITY IN
- HOWARD COUNTY SUBJECT TO PLANNING BOARD REVIEW AND APPROVAL RECOMMENDATION. . WATER AND SEWER SERVICE TO BE PROVIDED BY PRIVATE WELLS AND SEPTIC SYSTEMS.
- 28. NO RARE, THREATENED OR ENDANGERED SPECIES OR THEIR HABITATS WERE OBSERVED ON THE PROPERTY. 9. THERE IS APPROXIMATELY 7.50 ACRES OF 100-YR FLOODPLAIN LOCATED WITHIN THE LIMITS OF THIS SITE.
- APPROXIMATE FLOODPLAIN DELINEATION GENERATED FROM PRELIMINARY HEC-RAS ANALYSIS PREPARED BY ROBERT H. VOGEL ENGINEERING, INC., DATED NOVEMBER 13, 2016, AND REVISED MAY 31, 2017. FLOODPLAIN STUDY ADDENDUM PREPARED BY ROBERT H. VOGEL ENGINEERING, INC., DATED APRIL 03, 2018 AND UPDATED JULY 20, 2018.
- . WETLANDS SHOWN ON-SITE ARE BASED ON A FIELD INVESTIGATION PERFORMED BY JOHN CANOLES OF ECO-SCIENCE PROFESSIONALS, INC. DATED JUNE 10, 2016. THERE WILL BE LIMITED DISTURBANCES TO THE PERENNIAL STREAM SYSTEM, STREAM BUFFERS, WETLANDS OR WETLAND BUFFERS.
- 2. A FOREST STAND DELINEATION AND ENVIRONMENTAL RESOURCES ASSESSMENT WAS PERFORMED BY JOHN CANOLES OF ECO-SCIENCE PROFESSIONALS, INC., DATED JUNE 10, 2016. UPDATED JANUARY 18, 2017
- . NO GRADING, REMOVAL OF VEGETATIVE COVER OR TREES, PAVING OR NEW STRUCTURES SHALL BE PERMITTED WITHIN THE WETLANDS, STREAM(S), OR THEIR REQUIRED BUFFERS, FOREST CONSERVATION EASEMENT AREAS AND 100-YEAR FLOODPLAIN, UNLESS WAIVER APPROVAL IS GRANTED. 4. WETLANDS AND THEIR BUFFERS WILL NOT BE IMPACTED BY THE CONSTRUCTION OF THE SITE.
- 5. AN ALTERNATIVE COMPLIANCE PETITION (WP-17-034) WAS FILED FOR A STREAM CROSSING/STREAM BUFFER DISTURBANCE. A SEPERATE ALTERNATIVE COMPLIANCE PETITION (WP-17-128) WAS FILED FOR THE REMOVAL OF SPECIMEN TREES.
- . FOREST CONSERVATION REQUIREMENTS AS SET FORTH IN SECTION 16.1202 OF THE HOWARD COUNTY CODE AND THE FOREST CONSERVATION MANUAL. NO CLEARING, GRADING OR CONSTRUCTION IS PERMITTED WITHIN THE FOREST CONSERVATION EASEMENT. HOWEVER, FOREST MANAGEMENT PRACTICES AS DEFINED IN THE DEED OF FOREST CONSERVATION EASEMENT ARE ALLOWED.
- THE FOREST CONSERVATION OBLIGATION TO BE FULFILLED BY THE PLACEMENT OF 7.44 ACRES OF CREDITED RETENTION INTO CONSERVATION EASEMENTS AND BY THE PLACEMENT OF 3.80 ACRES INTO AN AFFORESTATION EASEMENT. 3.75 ACRES OF ADDITIONAL AFFORESTATION HAVE BEEN PROVIDED FOR THE PURPOSE OF A FOREST BANK. PROVIDE THE SUBDIVISIONS AFFORESTATION SURETY BASED ON A TOTAL OF 3.80 ACRES (OR 165,528 SF). THE AFFORESTATION SURETY IS BASED ON \$0.50 PER SF. THEREFORE, THE SUBDIVISION FOREST CONSERVATION
- SURETY AMOUNT IS \$82,764.00. - THE SURETY FOR THE FOREST MITIGATION BANK IS BASED ON A TOTAL OF 3.75 ACRES (OR 163,350 SF) OF AFFORESTATION. THE AFFORESTATION SURETY IS BASED ON \$0.50 PER SF. THEREFORE, THE SURETY FOR THE MITIGATION BANK IS \$82,764.00.
- THE SUBDIVISION'S AFFORESTATION REQUIREMENT AND THE FOREST MITIGATION BANK WILL HAVE SEPERATE FOREST CONSERVATION AGREEMENTS. THERE IS NO SURETY REQUIRED FOR FOREST RETENTION.
- FINANCIAL SURETY FOR THE REQUIRED AFFORESTATION AND FOREST MITIGATION BANK SHALL BE POSTED WITH THE FINAL PLAN DEVELOPER'S AGREEMENT.
- PERIMETER LANDSCAPING AND TRASH PAD SCREENING FOR THIS DEVELOPMENT SHALL BE PROVIDED IN ACCORDANCE WITH SECTION 16.124 OF THE LANDSCAPE MANUAL.
- LANDSCAPING IS PROVIDED IN ACCORDANCE WITH SECTION 16.124 OF THE HOWARD COUNTY CODE AND THE LANDSCAPE MANUAL. A FINANCIAL SURETY IN THE AMOUNT OF \$25,200.00 FOR THE REQUIRED 84 SHADE TREES SHALL BE POSTED AS PART OF THE DPW DEVELOPER'S AGREEMENT. 3. A SURETY IN THE AMOUNT OF \$6,000.00 FOR THE 19 PUBLIC STREET TREES AND THE 10 SHRUBS FOR THE
- TWO TRASH PADS WILL BE SATISFIED UNDER THE DED COST ESTIMATE. . CERTIFIED TEST PITS HAVE BEEN PROVIDED TO VERIFY THAT GROUNDWATER AND ROCK ARE NOT PRESENT AT RAIN GARDEN AND MICRO-BIORETENTION LOCATIONS. INFORMATION RECARDING THE
- FINDINGS IS LOCATED IN THE SWM REPORT. I. STORM WATER MANAGEMENT TO BE PROVIDED FOR THIS DEVELOPMENT BY ENVIRONMENTAL SITE DESIGN UTILIZING MICRO-BIORETENTION FACILITIES (M-6), A BIO-SWALE (M-8), ROOFTOP DISCONNECTS (N-1), NON-ROOFTOP DISCONNECTS (N-2), SHEETFLOW TO BUFFER (N-3), AND DRY WELLS (M-5). ALL FEATURES SHALL BE PRIVATELY OWNED AND MAINTAINED BY THE HOMEOWNERS ASSOCIATION OR THE PRIVATE LOT OWNER,
- WITH THE EXCEPTION OF MBR-1A AND MBR-1B, WHICH ARE TO BE OWNED BY THE HOMEOWNERS ASSOCIATION AND JOINTLY MAINTAINED BY HOWARD COUNTY AND THE HOMEOWNERS ASSOCIATION. REFERENCE 2010 MDE STORMWATER DESIGN MANUAL (CHAPTER 5). 2. THIS PROJECT IS SUBJECT TO THE AMENDED FIFTH EDITION OF THE SUBDIVISION AND LAND DEVELOPMENT REGULATIONS AND THE ZONING REGULATIONS EFFECTIVE OCTOBER 6, 2013.
- 3. PER SECTION 105.0.G.1.d., NON-BUILDABLE PRESERVATION PARCELS 'B' AND 'C' WILL BE DEDICATED TO THE HOWARD COUNTY DEPARTMENT OF RECREATION AND PARKS. BUILDABLE PRESERVATION PARCEL 'A' IS OWNED BY ESTATES AT RIVER HILL, LLC, AND ASSIGNS, WITH HOWARD COUNTY AND THE HOA BEING EASEMENT HOLDERS. NON-BUILDABLE PRESERVATION PARCELS D. E, F, G AND H ARE TO BE OWNED BY THE HOA WITH HOWARD COUNTY AND THE HOWARD COUNTY AND
- 1. PROTECTIVE DEVICES THAT DETER HEAVY EQUIPMENT MUST BE INSTALLED AROUND WELLS PRIOR TO COMMENCEMENT OF GRADING OPERATIONS. TO ENHANCE VISIBILITY OF THE WELLS LOCATIONS, PLASTIC ORANGE FENCING SHOULD BE INCLUDED.
- 5. ANY CHANGES TO A PRIVATE SEWAGE DISPOSAL AREA SHALL REQUIRE A REVISED PERCOLATION CERTIFICATION PLAN. 46. ALL WELLS AND SEPTIC SYSTEMS LOCATED WITHIN 100' OF THE PROPERTY BOUNDARIES AND 200' DOWN GRADIENT OF ANY WELLS AND/OR SEPTIC SYSTEMS HAVE BEEN SHOWN.
- . THE LOTS SHOWN HEREON COMPLY WITH THE MINIMUM OWNERSHIP WIDTH AND LOT AREA AS REQUIRED BY THE MARYLAND DEPARTMENT OF ENVIRONMENT. 18. TRAFFIC CONTROL DEVICES: A) THE TRAFFIC CONTROL DEVICE LOCATIONS SHOWN ON THE PLANS ARE APPROXIMATE AND MUST BE FIELD
- APPROVED BY HOWARD COUNTY TRAFFIC DIVISION (410-313-2430) PRIOR TO THE INSTALLATION OF ANY OF THE TRAFFIC CONTROL DEVICES. B) ALL TRAFFIC CONTROL DEVICES, AND THEIR LOCATIONS, SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE "MARYLAND MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MdMUTCD).
- C) ALL SIGN POSTS USED FOR TRAFFIC CONTROL SIGNS INSTALLED IN THE COUNTY RIGHT-OF-WAY SHALL BE MOUNTED ON A 2" GALVANIZED STEEL, PERFORATED ("QUICK PUNCH"), SQUARE TUBE POST (14 GAUGE) INSERTED INTO A 2-1/2" GALVANIZED STEEL, PERFORATED, SQUARE TUBE SLEEVE (12 GAUGE) - 3' LONG. THE ANCHOR SHALL NOT EXTEND MORE THAN TWO "QUICK PUNCH" HOLES ABOVE GROUND LEVEL, A GALVANIZED STEEL POLE CAP SHALL BE MOUNTED ON TOP OF EACH POST.



GENERAL NOTES (CONT'D)

- 49. A PROPOSED 16' WIDE BRIDGE SHALL BE CONSTRUCTED ACROSS THE STREAM FOR THE PURPOSE OF
- PROVIDING ACCESS TO FUTURE LOTS 4-9. 50. A PERCOLATION CERTIFICATION PLAN WAS PREPARED BY ROBERT H. VOGEL ENGINEERING, INC., DATED MARCH 05, 2018 AND SIGNED BY THE HEALTH OFFICER ON MARCH 16, 2018. ALL SEWAGE DISPOSAL AREAS SHOWN HEREON MATCH THE SIGNED PERCOLATION CERTIFICATION PLAN.

53. THE PURPOSE OF NON-BUILDABLE BULK PARCELS 'B' AND 'C' IS TO ISOLATE AND PROTECT EXISTING ENVIRONMENTAL

ATURES LOCATED ON THE SUBJECT PROPERTY. NON-BUILDABLE BULK PARCELS D-H WERE CREATED FOR THE

- 51. IN ACCORDANCE WITH SB-236, THIS SUBDIVISION WAS APPROVED BY THE HOWARD COUNTY PLANNING BOARD AS A PUBLIC HEARING ON DECEMBÉR 14, 2017 AND THE DECISION AND ORDER WAS SIGNED BY THE PLANNING BOARD
- ON JANUARY 25, 2018, PLZ PBCASE 434. 52. THE ARTICLES OF INCORPORATION FOR THE HOMEOWNERS ASSOCIATION WERE FILED WITH THE STATE DEPARTMENT OF ASSESSMENTS AND TAXATION ON 08/23/2018, FILING NO. 1000362011495944.
- PURPOSE OF STORMWATER MANAGEMENT. 54. AN ALTERNATIVE COMPLIANCE PETITION TO SECTION 16.1205(a)(7), FILED AS WP-17-128, TO REMOVE 10 SPECIMEN TREES WAS APPROVED ON FEBRUARY 02, 2018. APPROVAL IS SUBJECT TO THE
- FOLLOWING CONDITIONS: 1. THE REMOVAL OF THE TEN (10) SPECIMEN TREES WILL REQUIRE MITIGATION WITH THE PLANTING OF 2:1 REPLACEMENT TREES (20 TOTAL) WITH A MINIMUM 3" CALIPER NATIVE PLANT SPECIES AS PART OF THIS SUBDIVISION'S LANDSCAPE PLAN. SURETY FOR THE 20 TREES WILL BE INCORPORATED INTO THE LANDSCAPE SURETY WITH THE FINAL PLAN.
- 2. PROVIDE A NOTE ON ALL SUBDIVISION PLANS REGARDING THIS ALTERNATIVE COMPLIANCE PETITION APPROVAL. THIS NOTE SHALL INCLUDE THE REGULATION SECTIONS PETITIONED, THE DATE OF THE ALTERNATIVE COMPLIANCE APPROVAL, AND THE CONDITIONS OF THE APPROVAL 55. REFERENCE DESIGN MANUAL WAIVER, APPROVED MAY 22, 2017, TO WAIVE SECTION 2.6.B WHICH REQUIRES THE CONSTRUCTION OF A PUBLIC ROADWAY WHERE SHARED ACCESS DRIVEWAYS CROSS A 100-YEAR FLOODPLAIN. THIS APPROVAL IS SUBJECT TO THE FOLLOWING CONDITIONS:
- 1. BOTH DRAINAGE STRUCTURES SHALL MEET COUNTY STANDARDS AND SHALL PASS THE 100-YEAR STORM WITH A FREEBOARD OF 1-FOOT BETWEEN THE 100-YEAR WSEL AND THE LOWEST CHORD OF THE BRIDGE OR THE OUTSIDE EDGE OF THE PAVEMENT. 2. THE IMPACTS TO STREAM BANKS, CHANNELS, AND ASSOCIATED VEGETATION SHALL BE LIMITED. THE PLANS SHALL NOT BE APPROVED UNLESS SUFFICIENT EFFORTS ARE MADE. 3. SPECIFY WHO WILL BE RESPONSIBLE FOR THE MAINTENANCE OF THE BRIDGE ON THE SITE PLANS.
- 4. A DETAILED O&M FOR THE BRIDGE MUST BE PROVIDED ON THE PLANS. 56. AN ALTERNATIVE COMPLIANCE PETITION TO SECTION 16.115(c)(2), "PROHIBITIONS ON USE OF FLOODPLAIN LAND", SECTION 16.116(a)(2), "STREAMS AND WETLANDS", AND SECTION 16.120(b)(6)(ii)(a), "LENGTH OF PIPESTEM LOT", FILED AS WP-17-034, WAS APPROVED ON JANUARY 19, 2018. APPROVAL IS SUBJECT TO THE FOLLOWING CONDITIONS: 1. COMPLIANCE WITH ALL SRC AGENCY COMMENTS GENERATED WITH THE REVIEW OF THE SUBMITTED
 - ENVIRONMENTAL CONCEPT PLAN (ECP-16-064). 2. APPLICATION FOR ALL PERMITS AS MAY BE REQUIRED BY THE MARYLAND DEPARTMENT OF ENVIRONMENT FOR HE DISTURBANCE TO THE FLOODPLAIN AND STREAM CROSSING FOR CONSTRUCTION OF A NEW BRIDGE STRUCTURE AND DRIVEWAY AND UPGRADES TO THE EXISTING DRIVEWAY AND STREAM CROSSING
- 3. ALL GRADING AND WORK WITHIN THE STREAM, STREAM BUFFER, FLOODPLAIN AREAS, AND WETLAND BUFFER AREAS SHALL BE MINIMIZED TO THE EXTENT REQUIRED TO CONSTRUCT THE PROPOSED HOUSE AND SHARED DRIVEWAY. ANY DISTURBANCES TO THE STREAM AND BUFFERS MUST BE STABILIZED AND RESTORED. 4. COMPLIANCE WITH ALL ATTACHED COMMENTS FROM THE DEVELOPMENT ENGINEERING DIVISION DATED 10/26/2016 5. INCLUDE THE ALTERNATIVE COMPLIANCE REQUEST NUMBER, DESCRIPTION, AND DECISION ON ALL ASSOCIATED AND
- 57. A TOTAL OF 0.59 ACRES OF LAND SHALL BE DEDICATED TO HOWARD COUNTY, MD FOR THE PURPOSE OF EXTENDING ALLNUTT LANE (A PUBLIC ROAD).
- 58. THERE IS AN EXISTING DWELLING LOCATED ON LOT 14 TO REMAIN. NO NEW BUILDINGS, EXTENSIONS, OR ADDITIONS TO HE EXISTING DWELLING ARE TO BE CONSTRUCTED AT A DISTANCE LESS THAN THE ZONING REGULATION REQUIREMENTS. IE EXISTING BARN AND GARAGE SHALL BE RAZED PRIOR TO THE RECORDATION OF THE PLAT.
- 59. THE TWO PROPOSED USE-IN-COMMON DRIVEWAYS WILL INCLUDE PULL OVER AREAS DESIGNED TO ALLOW VEHICLES TO PASS ON-COMING VEHICLES.

7 THIS AREA DESIGNATES A PRIVATE SEWAGE AREA OF AT LEAST 10,000 SQUARE FEET AS REQUIRED

IMPROVEMENTS OF ANY NATURE IN THIS AREA ARE RESTRICTED UNTIL PUBLIC SEWERAGE IS AVAILABLE.

THESE AREAS SHALL BECOME NULL AND VOID UPON CONNECTION TO A PUBLIC SEWERAGE SYSTEM.

THE COUNTY HEALTH OFFICER SHALL HAVE THE AUTHORITY TO GRANT ADJUSTMENTS TO THE PRIVATE

- WORK WITHIN IS FT.

Maryland Department of Transportation

STATE HIGHWAY ADMINISTRATION

STANDARDS FOR HIGHWAYS AND INCIDENTAL STRUCTURES

STANDARD NO.

SHOULDER WORK/2-LANE, 2-WAY EQU'LESS THAN 40 MPH

DAYTIME USE ONLY

MD 104.02-02

7' MIN RADIUS (TYP) --

OF EDGE LINE

BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT FOR INDIVIDUAL SEWAGE DISPOSAL.

SEWAGE AREA. RECORDATION OF A MODIFIED SEWAGE AREA SHALL NOT BE NECESSARY.

TEMPORARY TRAFFIC CONTROL TYPICAL APPLICATION

NOTES MD 104.00-01 - MD 104.00-18 AND

DARD DETAILS NO 104.01-01

REQUIRED IN PLACE OF SHOULDER WORK SIGNS WHEN THE SHOULDER IS CLOSED BY POSITIVE PROTECTION (TEMPORARY CONCRETE BARRIER OR

SIMILAR DEVICE). REFER TO STANDARD

WHEN WORK INVOLVES A PAVEMENT EDGE DROP-OFF, REFER TO STANDARS

NOS. NO 104.06-15 TO NO 104.06-19.

THERE SHALL BE A MINIMUM OF

THE ENGINEER SHOULD CONSIDER ADDITIONAL, ADJACENT LANE CLOSURES WHEN THE POSSIBILITY OF UNPLANNED TRAVELWAY

CHANNELIZING DEVICES

WORK SITE

DIRECTION OF TRAFF

XHOM OVON ON3 COPTIONAL FOR 15 MIN-12 HRS.

OR DAYTIME

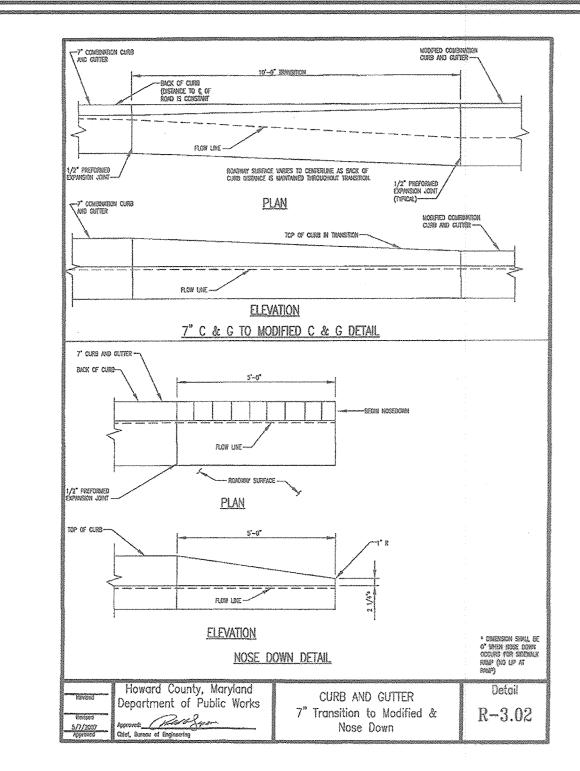
SEVEN CHANNELIZING DEVICE IN THE SHOULDER TAPER.

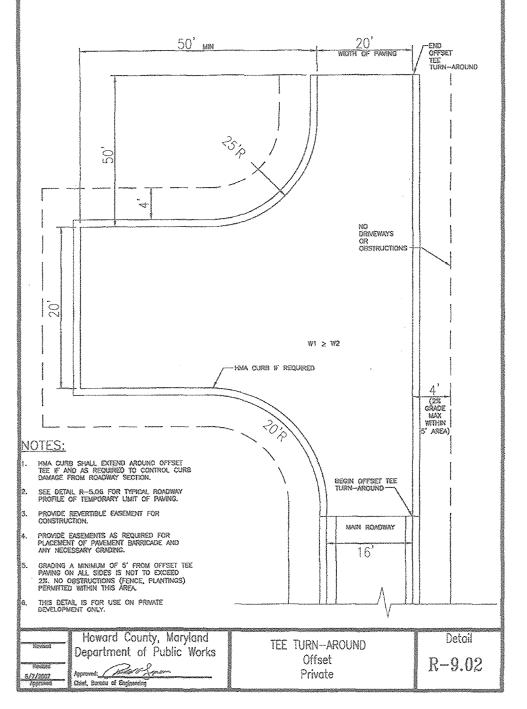
ENCROACHMENTS EXISTS.

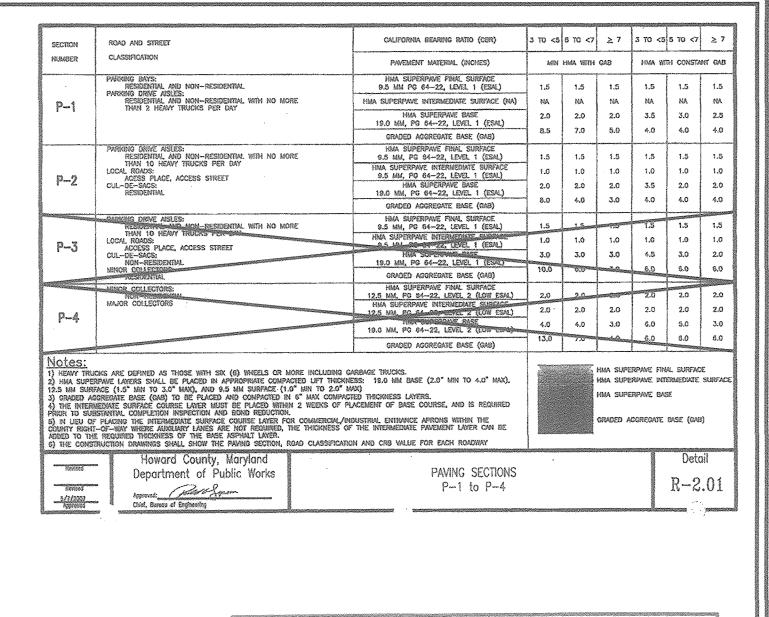
SHOULDER CLOSED SIGNS ARE

NO. MD 104.05-18.

- 60. PER SECTION 16.120(c)(5) OF THE REGULATIONS, DPZ HAS DECIDED THAT DIRECT PUBLIC ROAD FRONTAGE FOR NON-BUILDABLE PRESERVATION PARCELS C, D, E, F AND H IS NOT REQUIRED. THIS DECISION WAS MADE DUE TO DESIGN CONSTRAINTS, THE FACT THAT THE PARCELS ARE ONLY FOR SWM FACILITIES, AND BECAUSE THE PARCELS WILL HAVE ADEQUATE PUBLIC ROAD ACCESS VIA THE USE-IN-COMMON DRIVEWAYS FOR ANY REQUIRED MAINTENANCE OF THE SWM FACILITIES.
- 61. FOR ANY PROPOSED PUBLIC ROADWAY, LESS THAN 26' WIDE, DPW-TRAFFIC MAY RESTRICT PARKING ALONG ONE SIDE OF THE ROADWAY TO ALLOW FIRE AND EMERGENCY RESPONSE VEHICLES TO SAFELY MANUEVER THROUGH THIS ROADWAY.







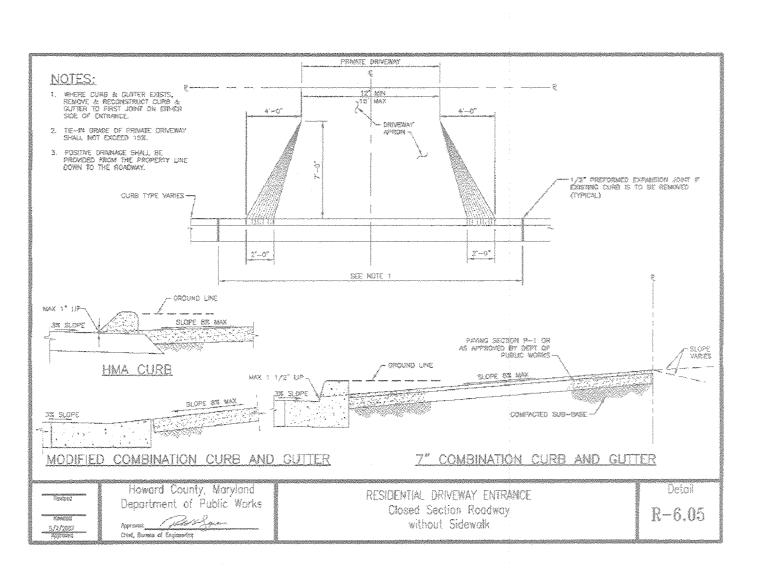
1" 8 ----

FLOW UNE -

COMPACTED GRADED AGGREGATE BASE (GAS)

7" COMBINATION CURB AND GUTTER

MODIFIED



2. DRAINAGE CULVERT SHALL BE SIZED FOR A 10 YEAR

5. SEE TYPICAL SECTIONS FOR LAYOUT AND GRADING OF DITCH AND PIPE CULVERT.

ALTERNATIVE ORNAMENTAL

HEADWALL DETAIL

R-6.06

TOP OF HEADWALL

-

SECTION, FES (TYP)

RESIDENTIAL DRIVEWAY ENTRANCE

Open Section Roadway

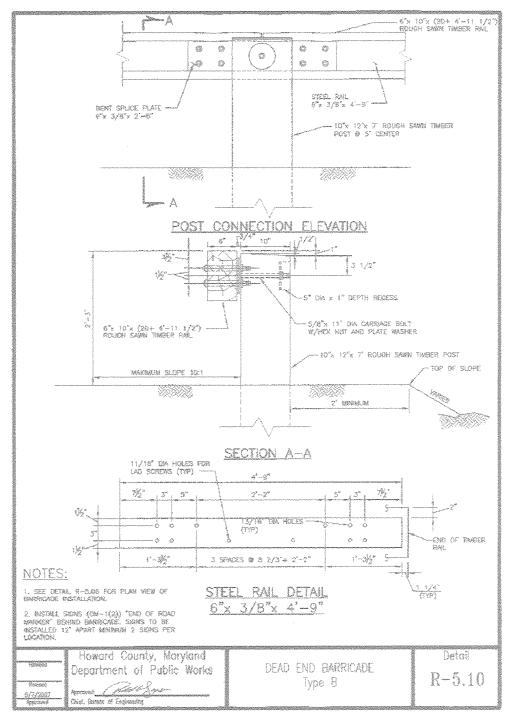
RIGHT OF WAY LINE

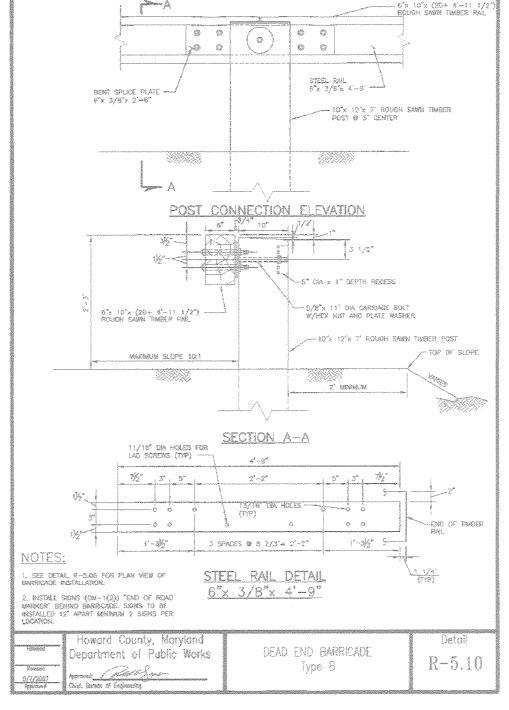
HOLD MORMAL SHOULDER ELEVATION —AT THIS POINT

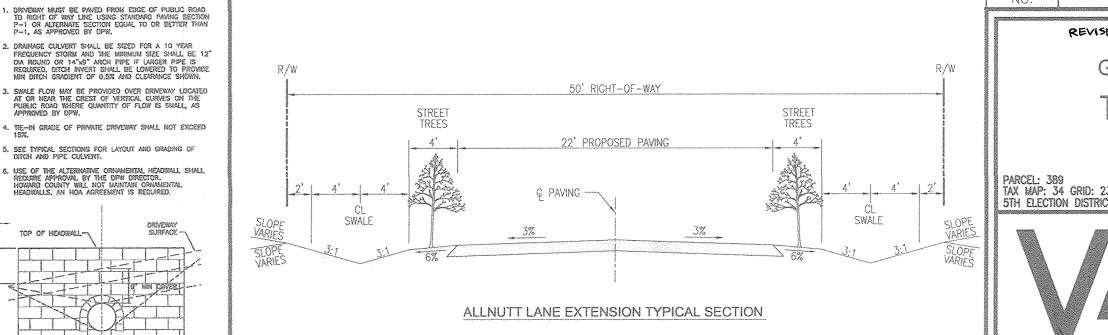
SECTION A-A

Howard County, Maryland

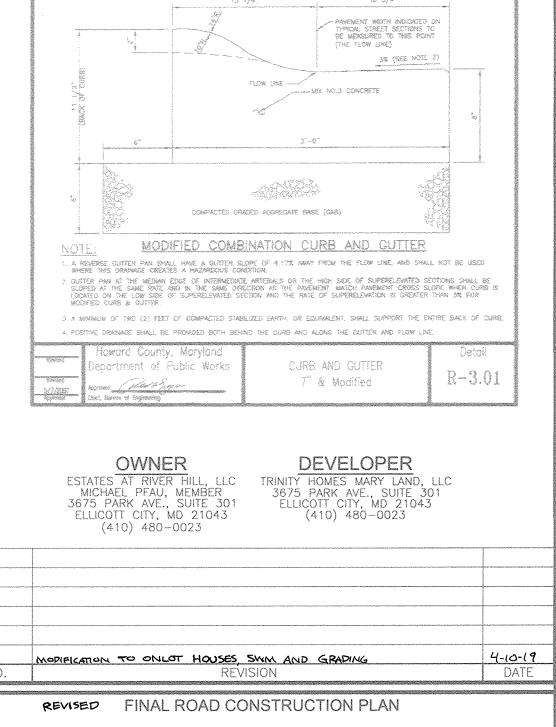
Department of Public Works



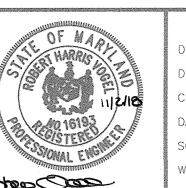




PROVIDE P-1 PAVING FOR THE PROPOSED USE-IN-COMMON DRIVEWAYS AND P-2 PAVING FOR THE ALLNUTT LANE PUBLIC ROAD EXTENSION.



L. 4772 / F. 265 HOWARD COUNTY, MARYLAND ROBERT H. VOGEL ENGINEERING, INC. ENGINEERS . SURVEYORS . PLANNERS 3300 N. RIDGE ROAD, SUITE 110 TEL: 410.461.7666 ELLICOTT CITY, MD 21043 FAX: 410.461.8961 ELLICOTT CITY, MD 21043



DRAWN BY: CHECKED BY: DATE: NOVEMBER 2018 W.O. NO.:

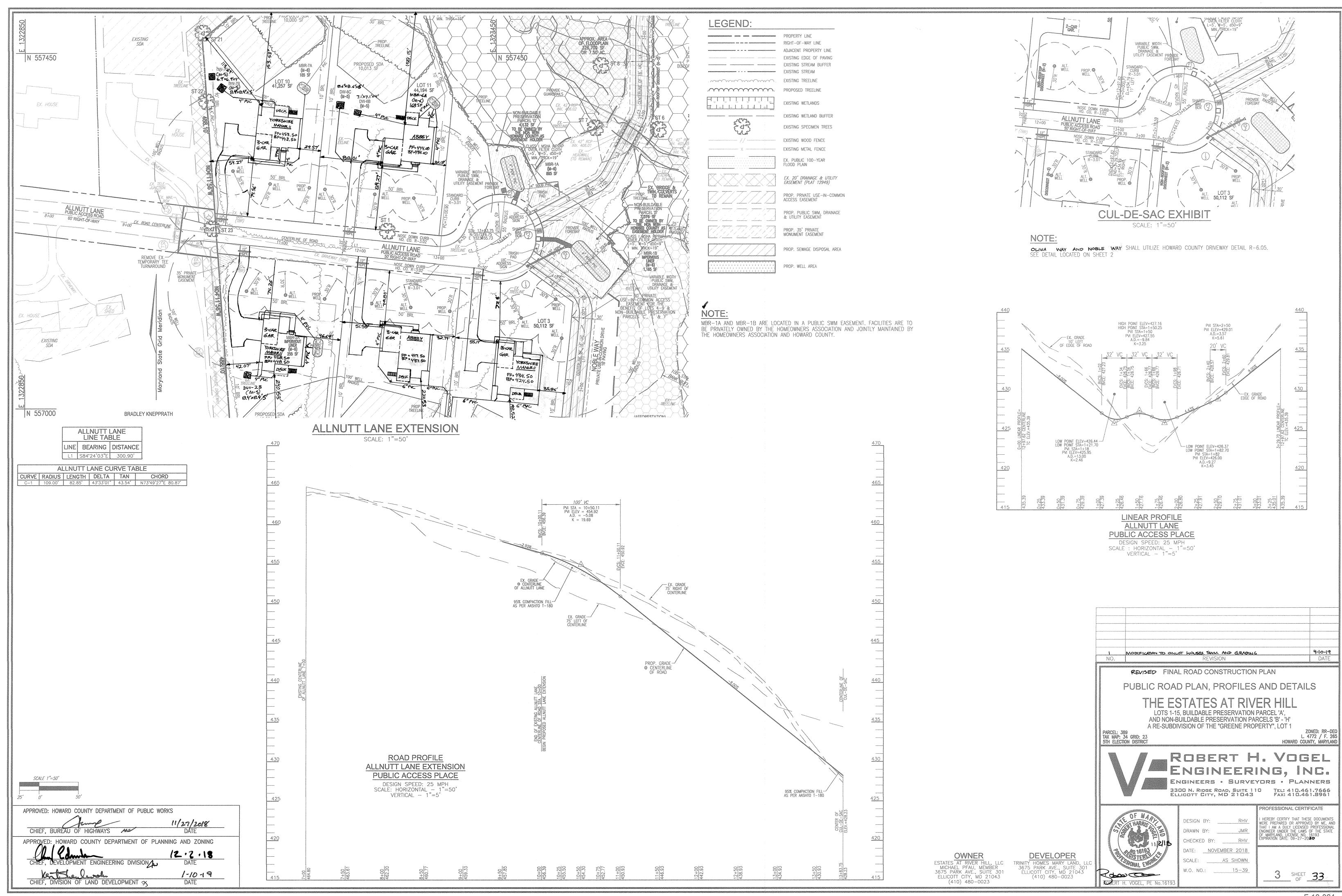
GENERAL NOTES AND SITE DETAILS

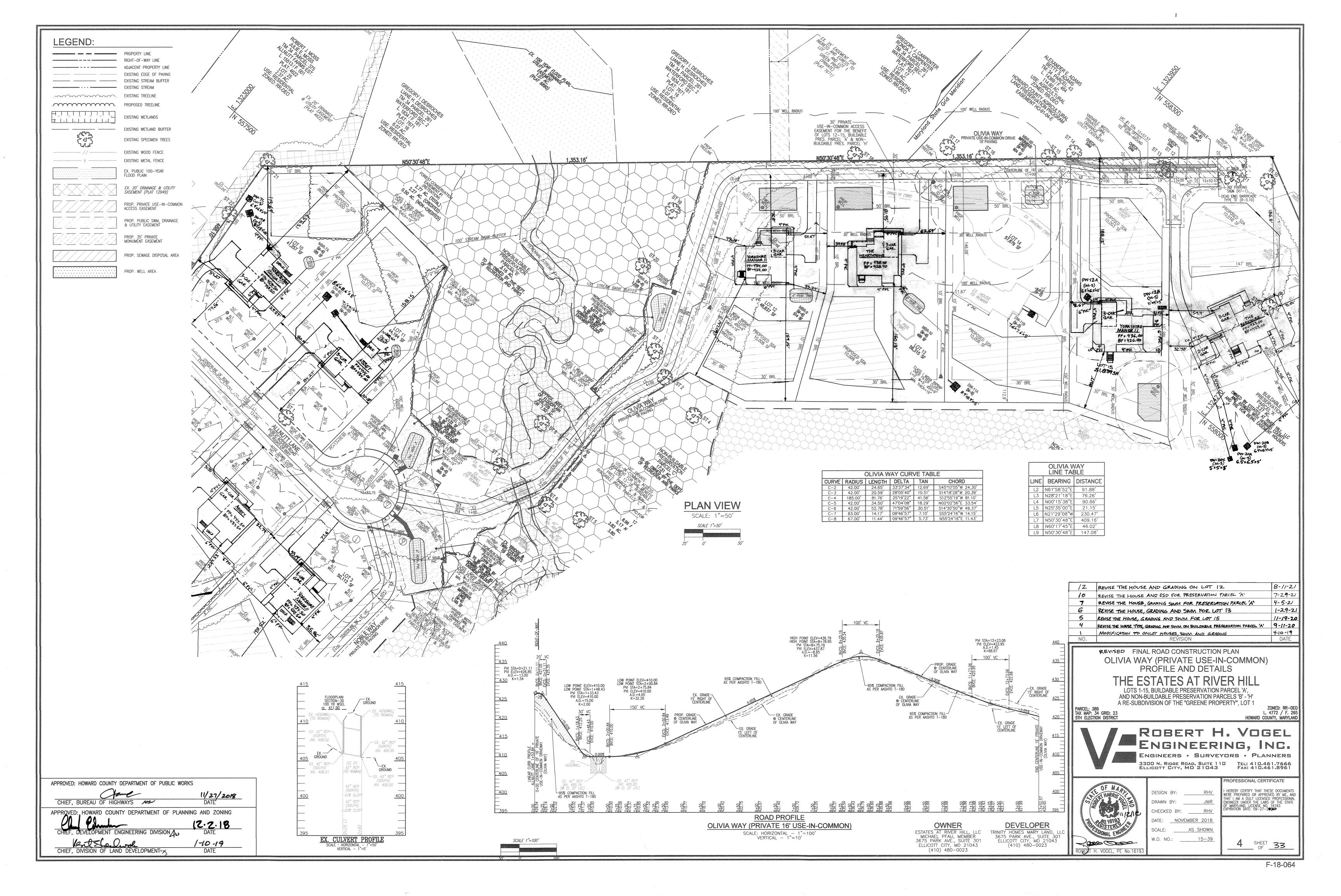
LOTS 1-15, BUILDABLE PRESERVATION PARCEL 'A',

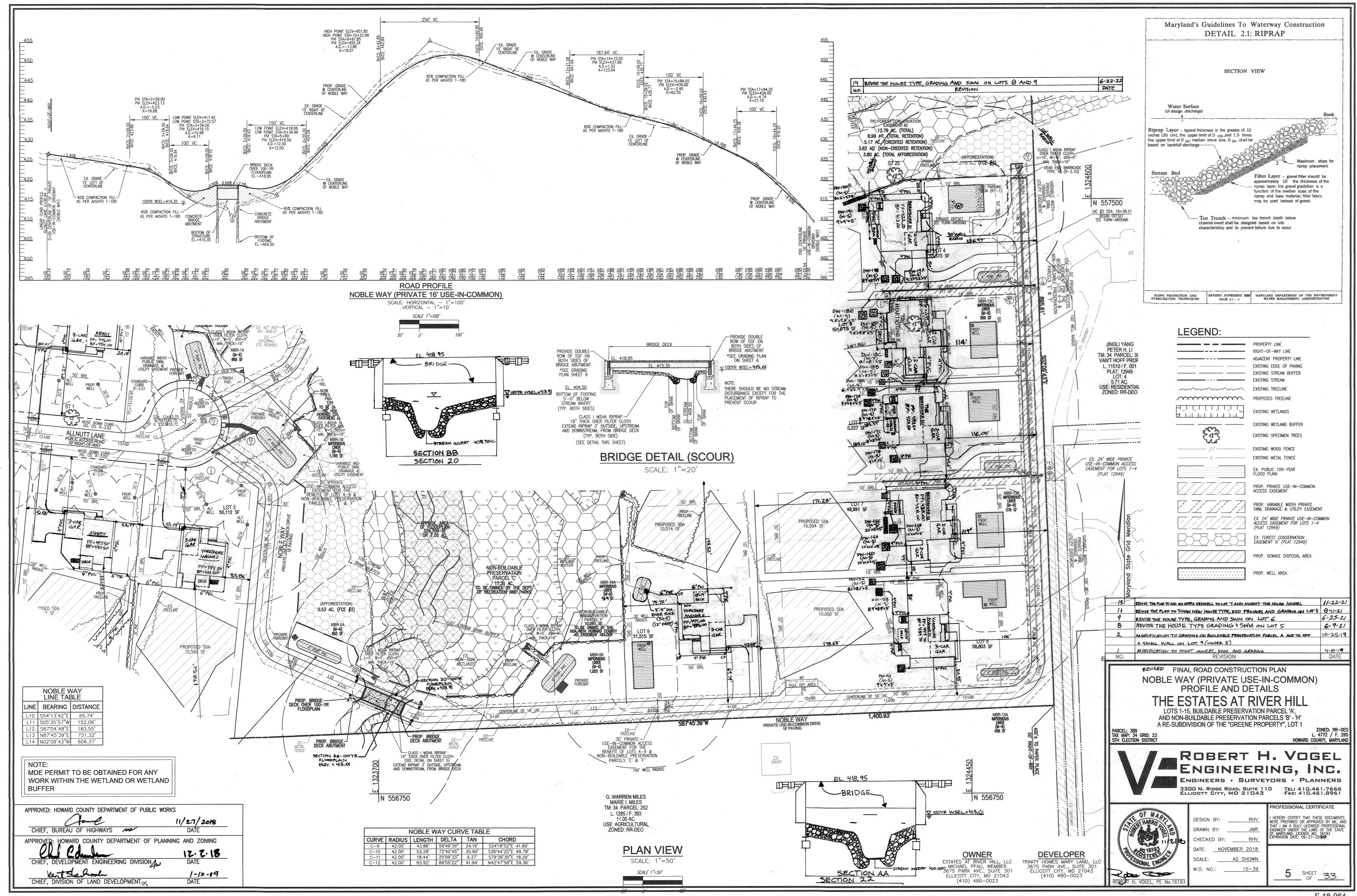
AND NON-BUILDABLE PRESERVATION PARCELS 'B' - 'H'

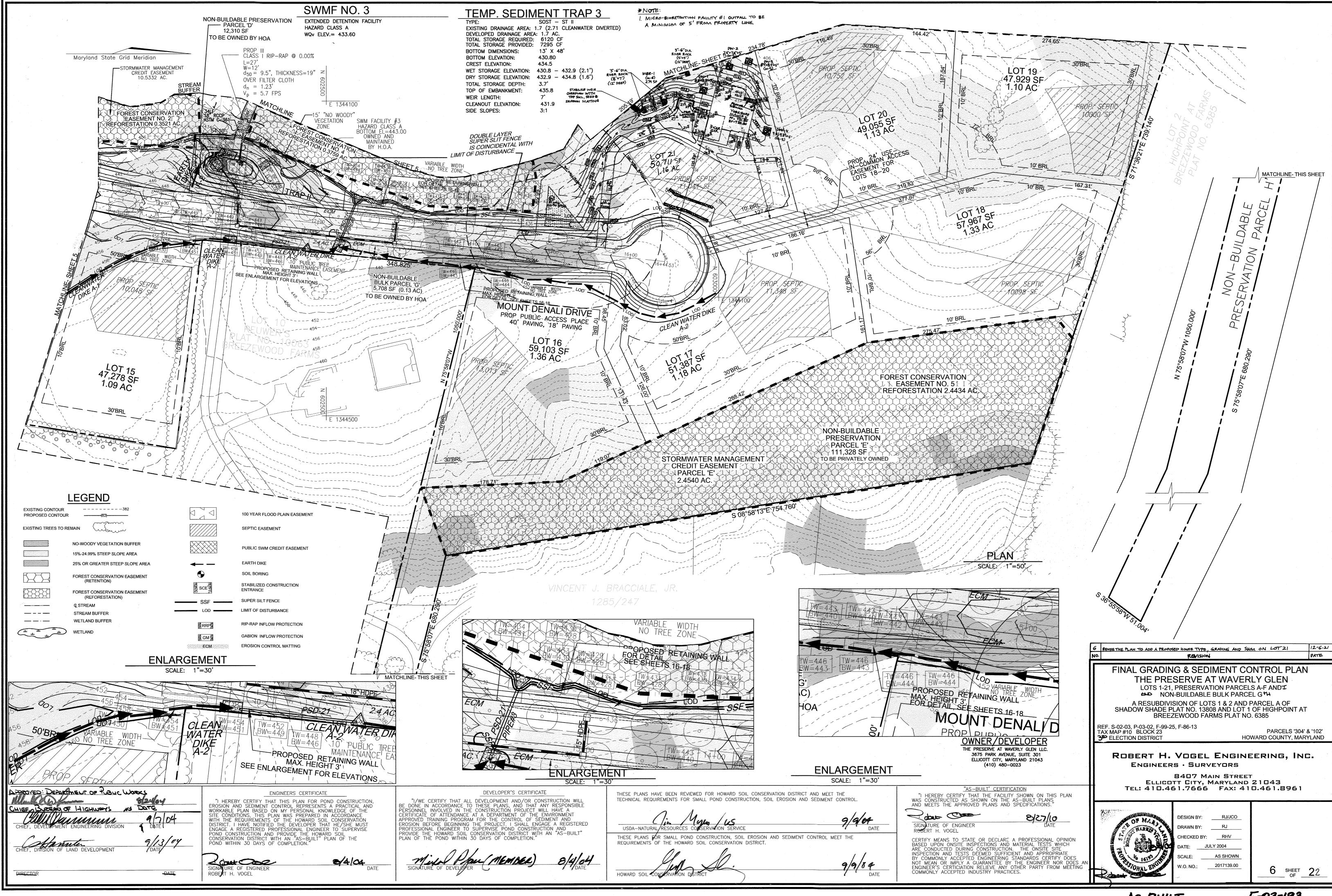
A RE-SUBDIVISION OF THE "GREENE PROPERTY", LOT

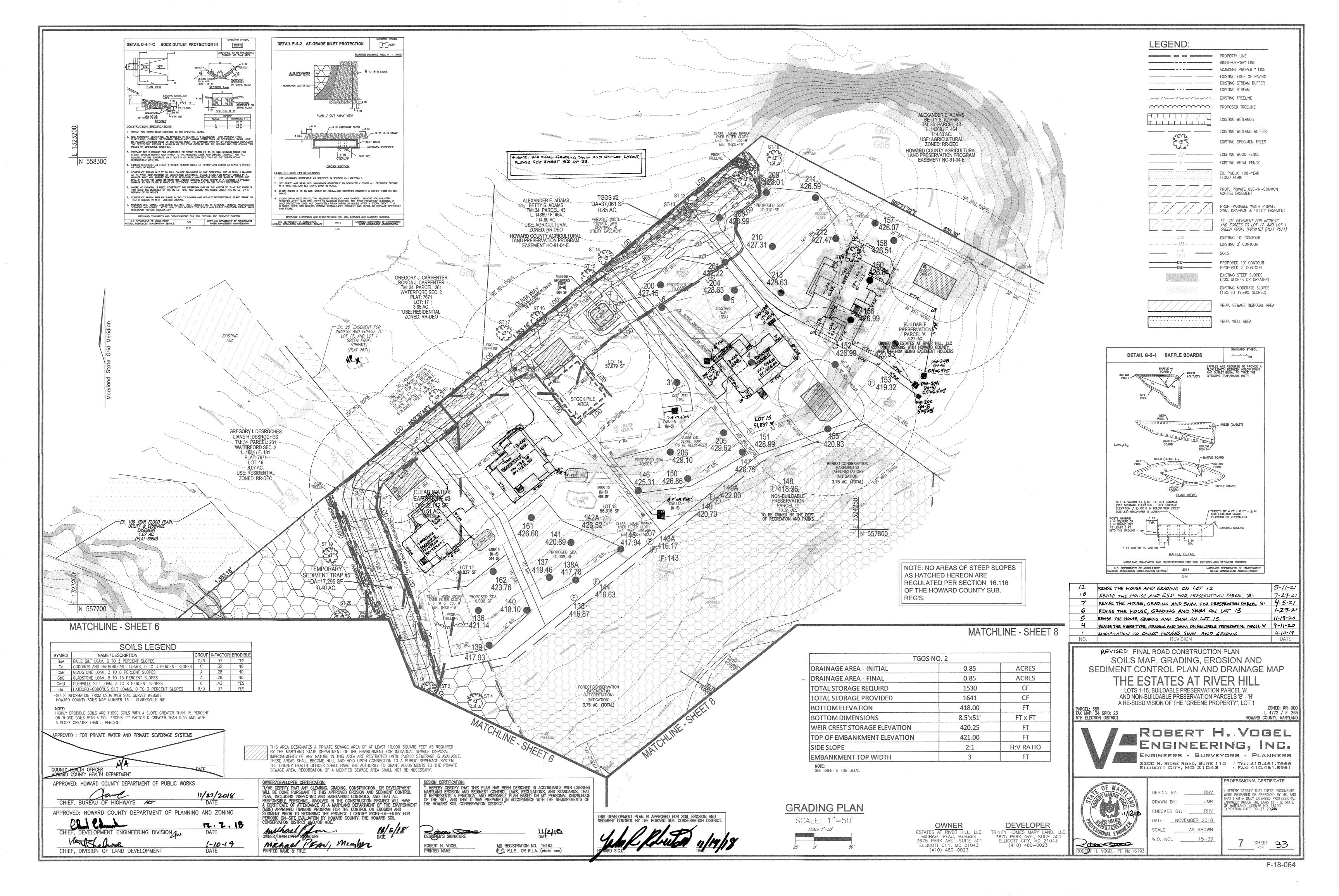
PROFESSIONAL CERTIFICATE WERE PREPARED OR APPROVED BY ME. AN SHEET 33

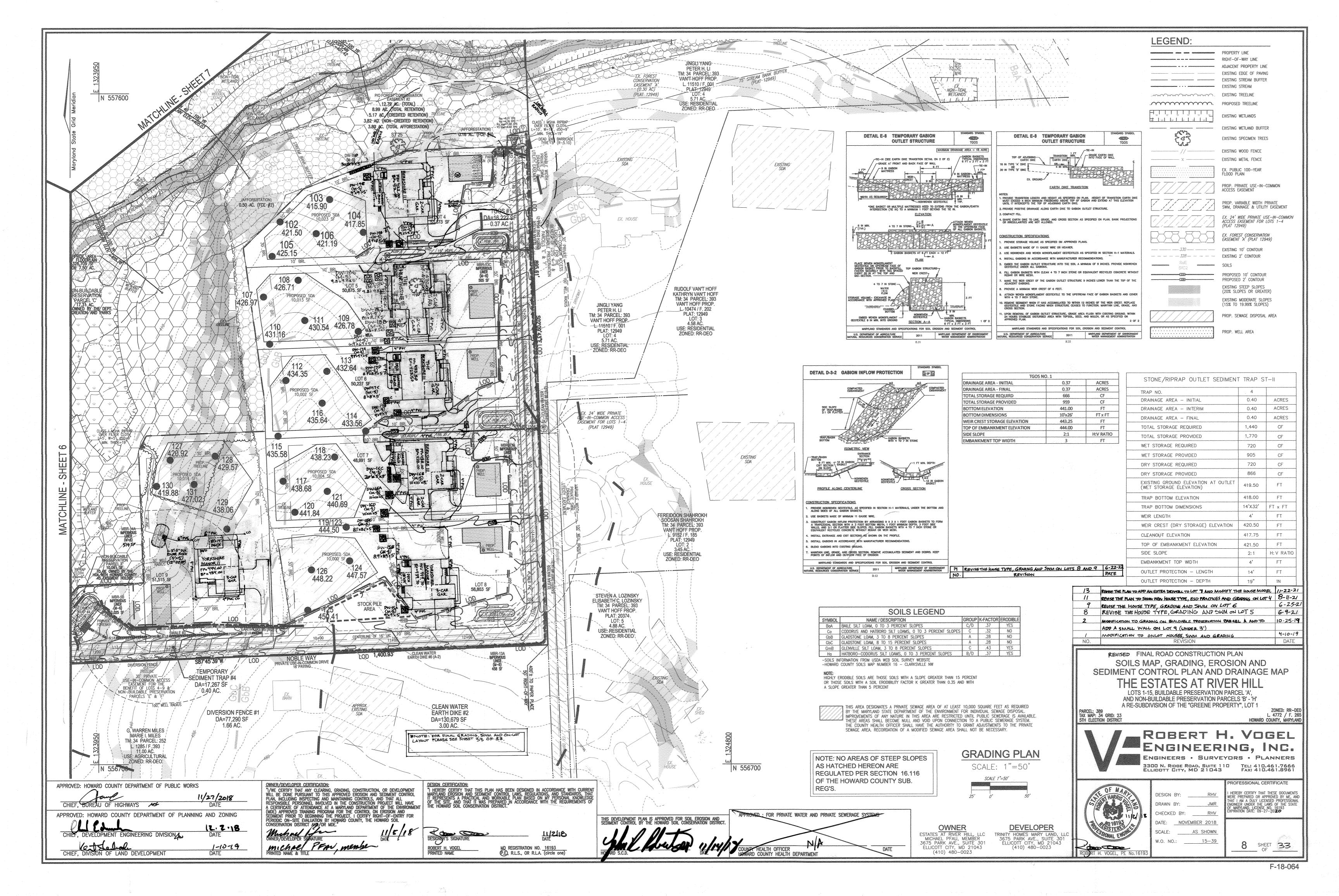


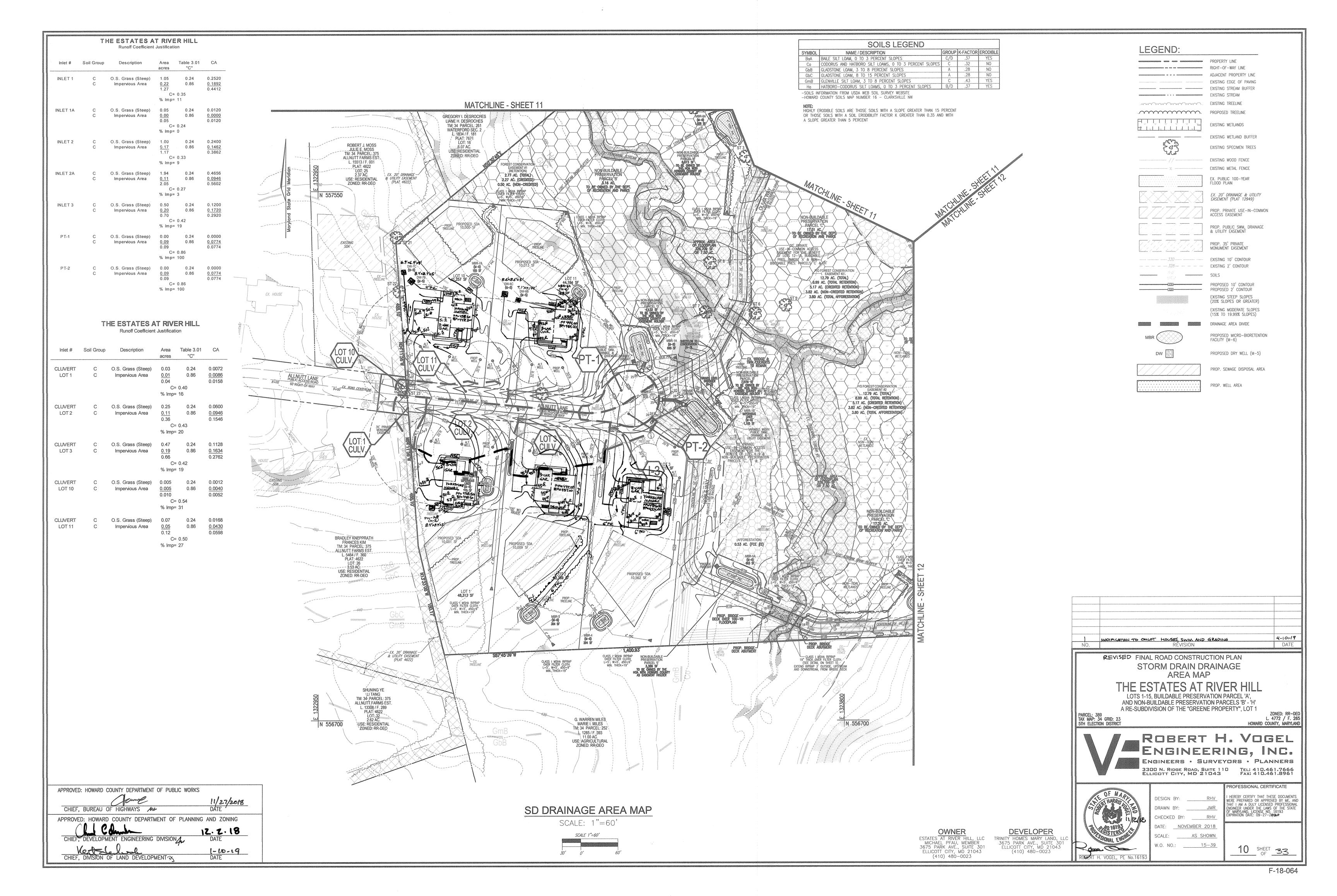


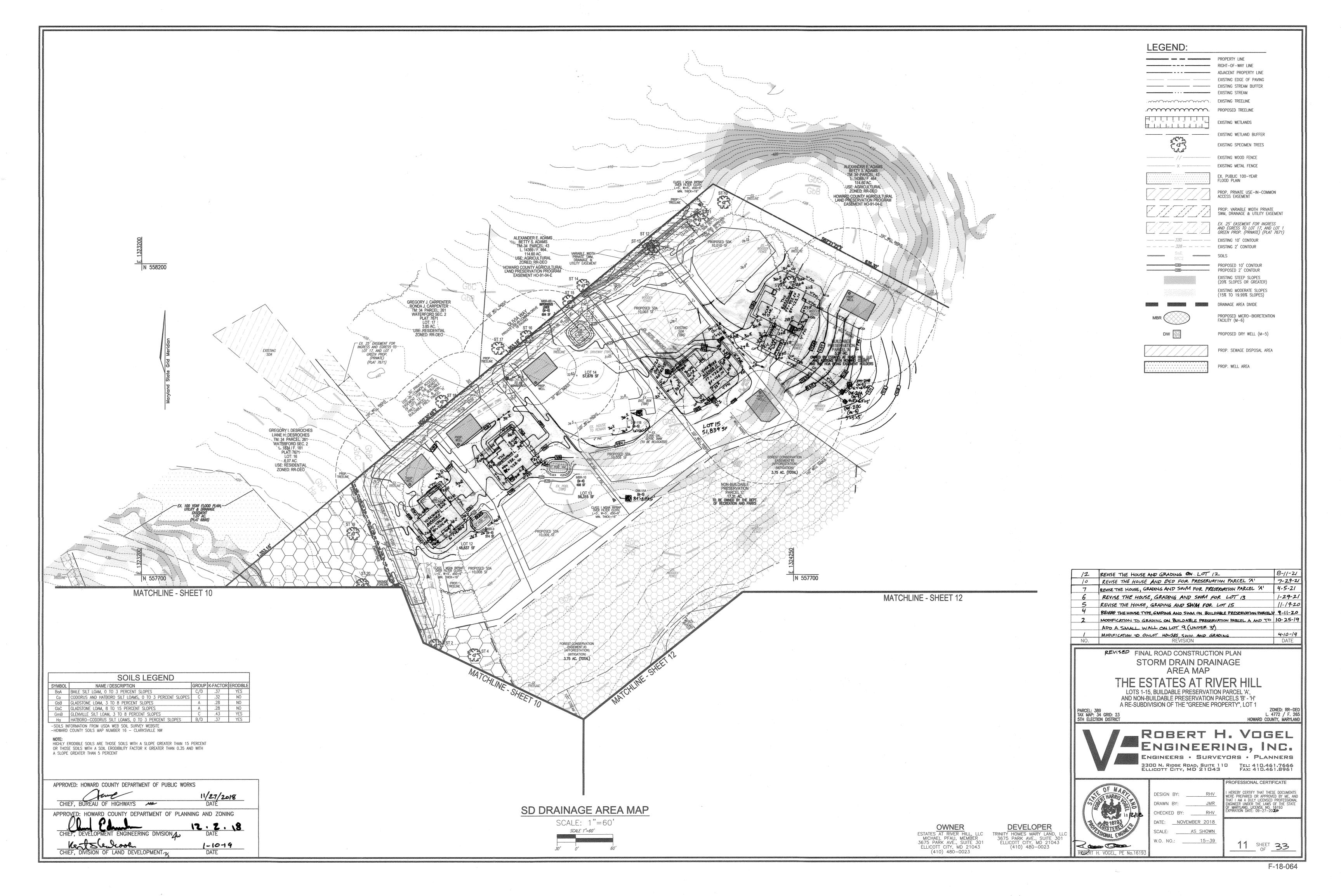


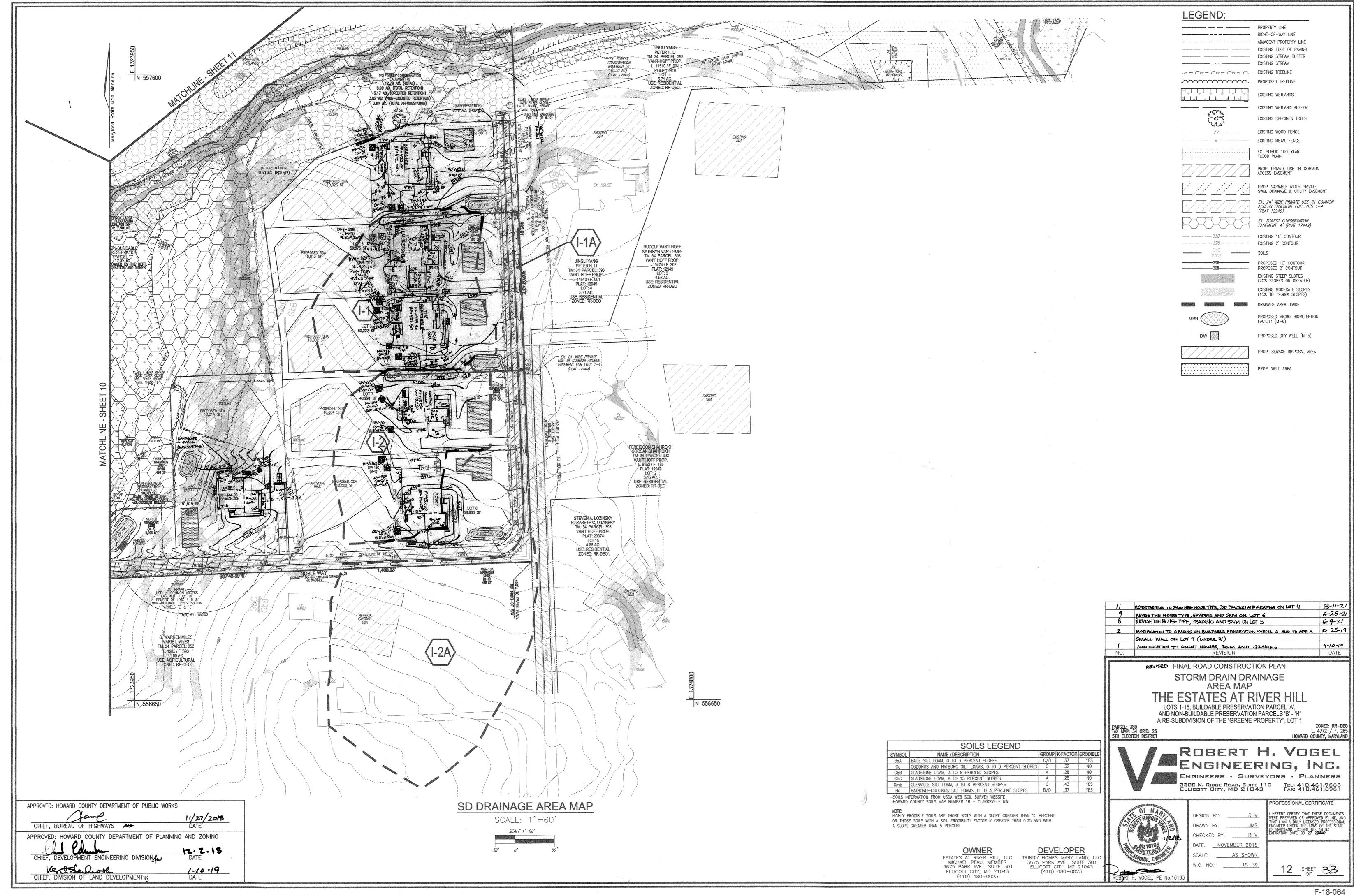


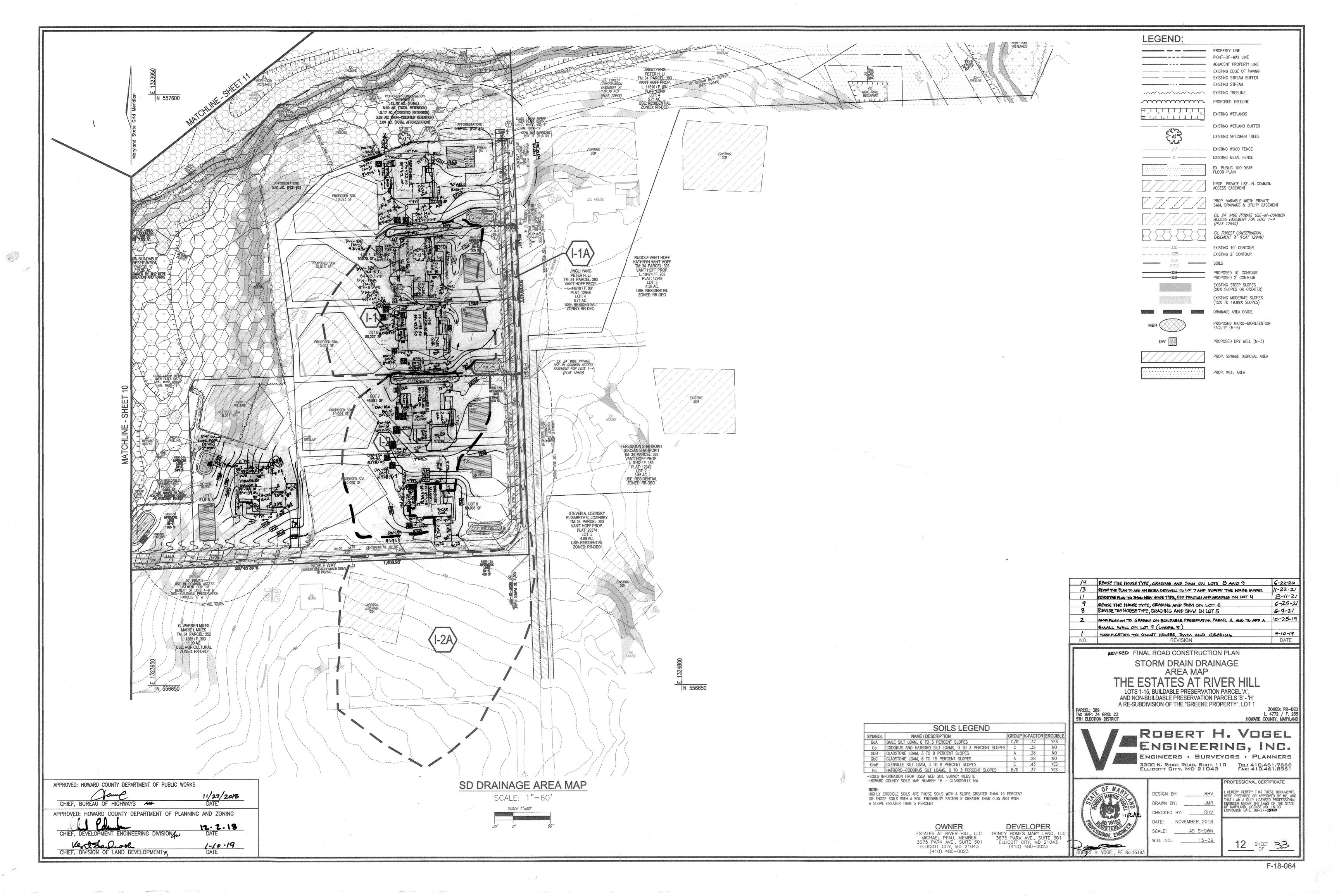


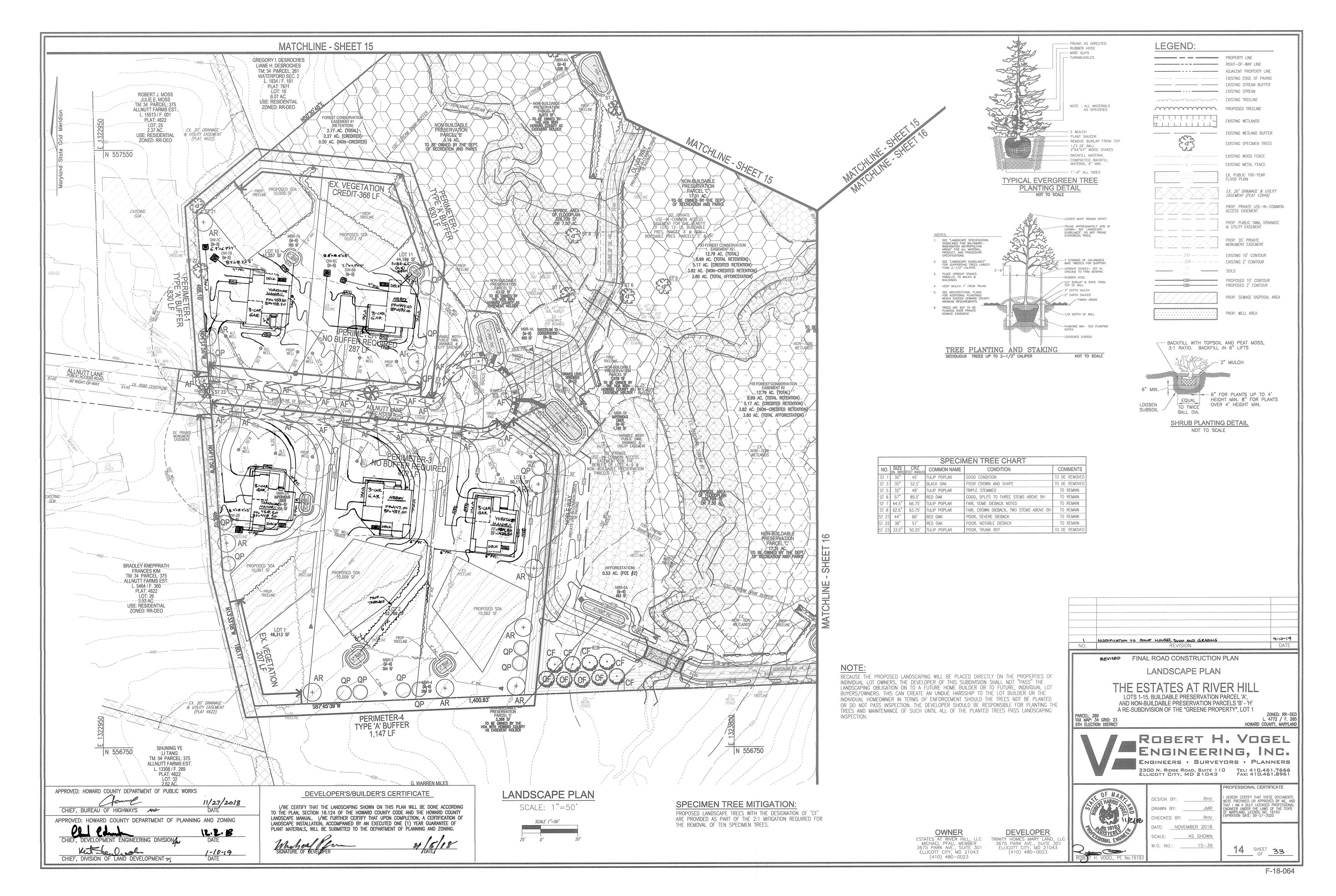


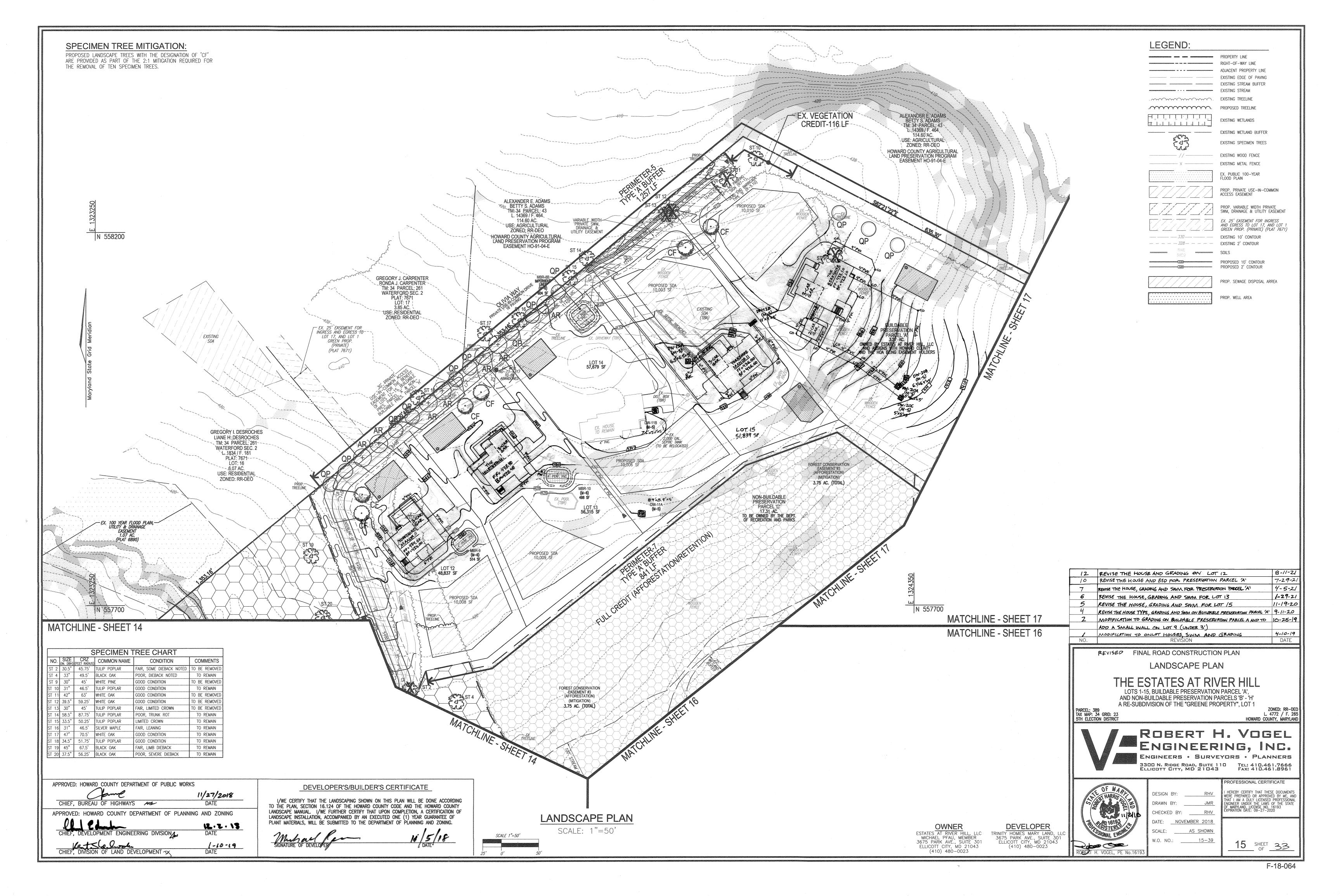


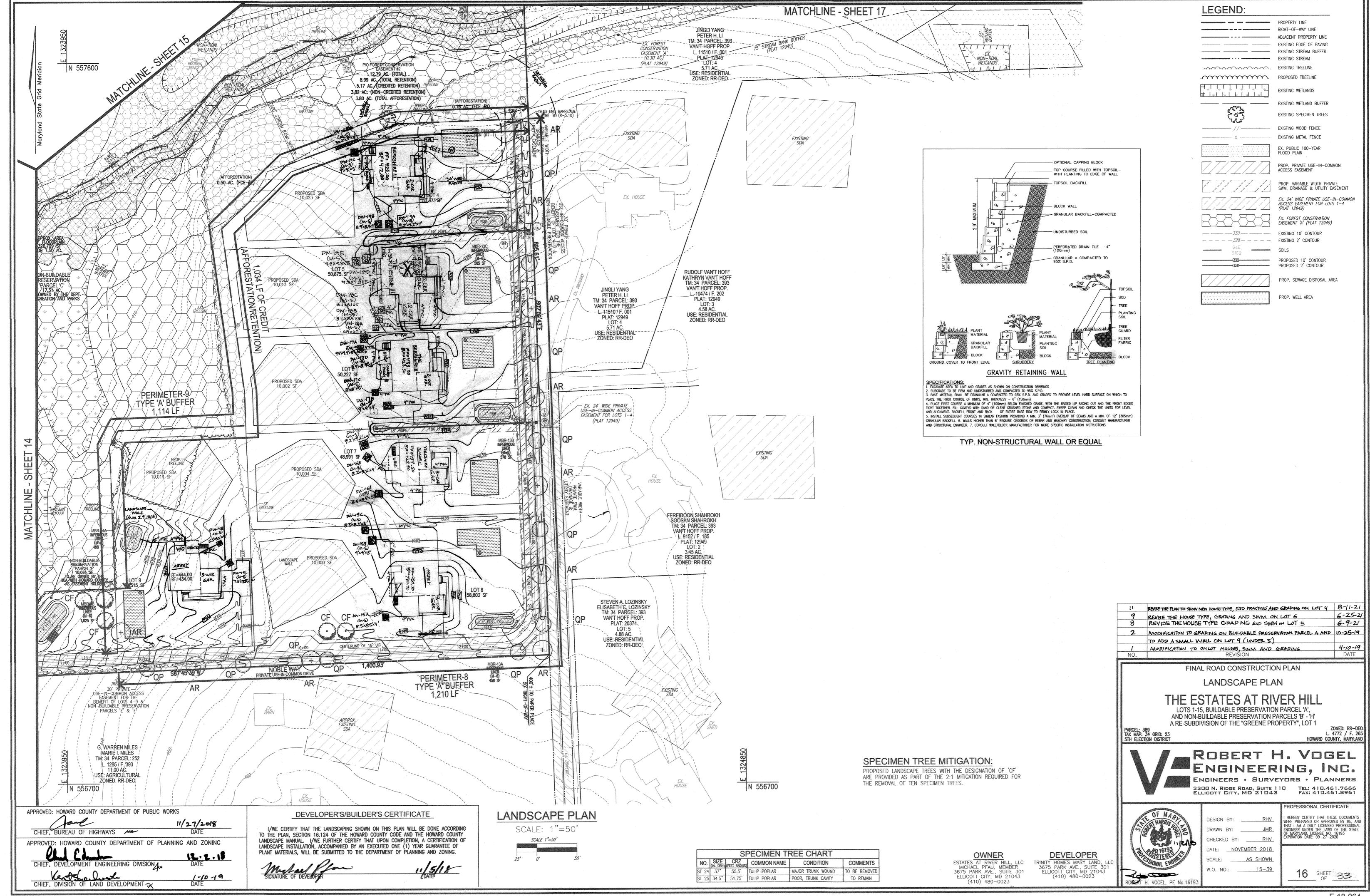


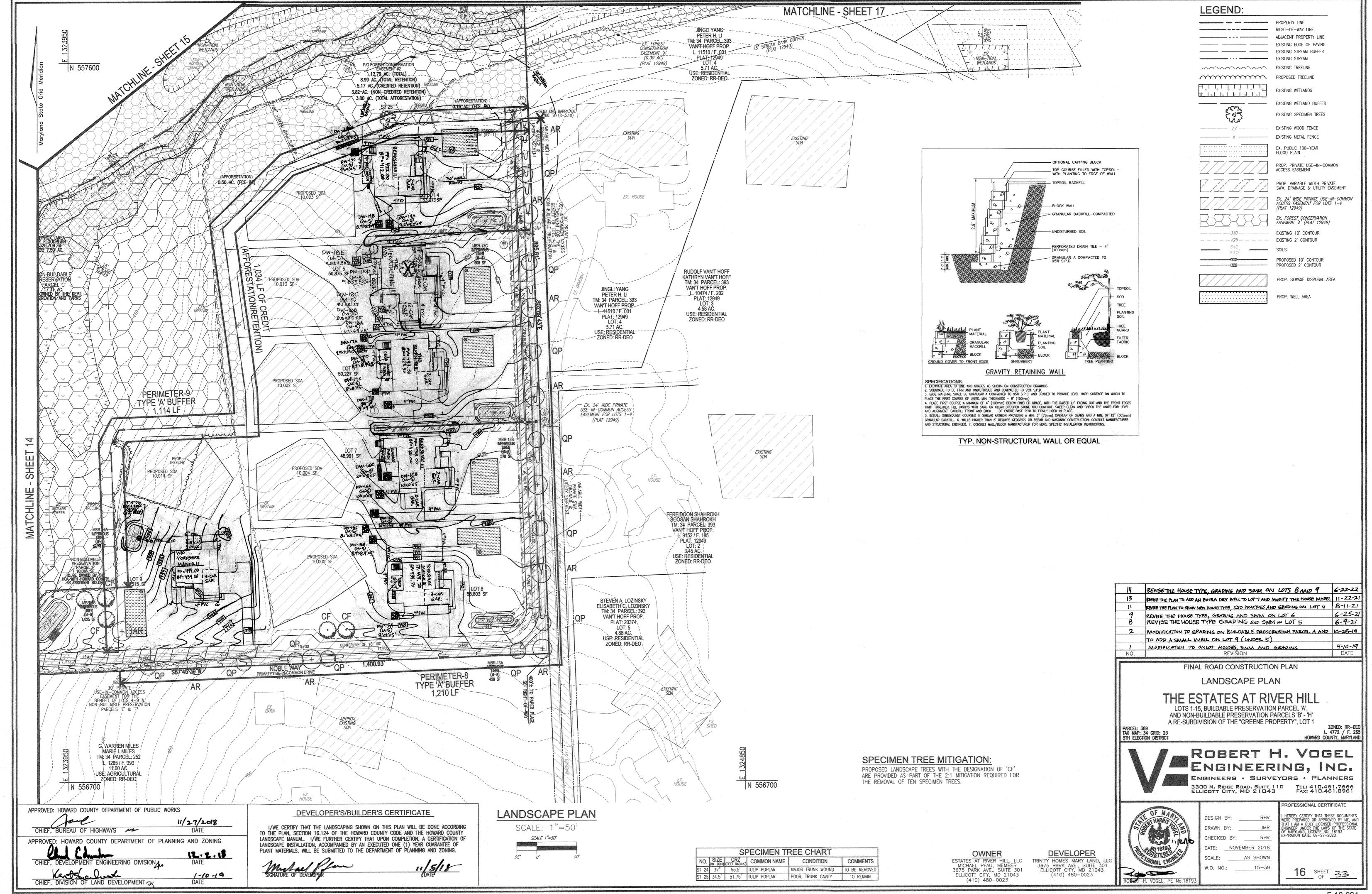


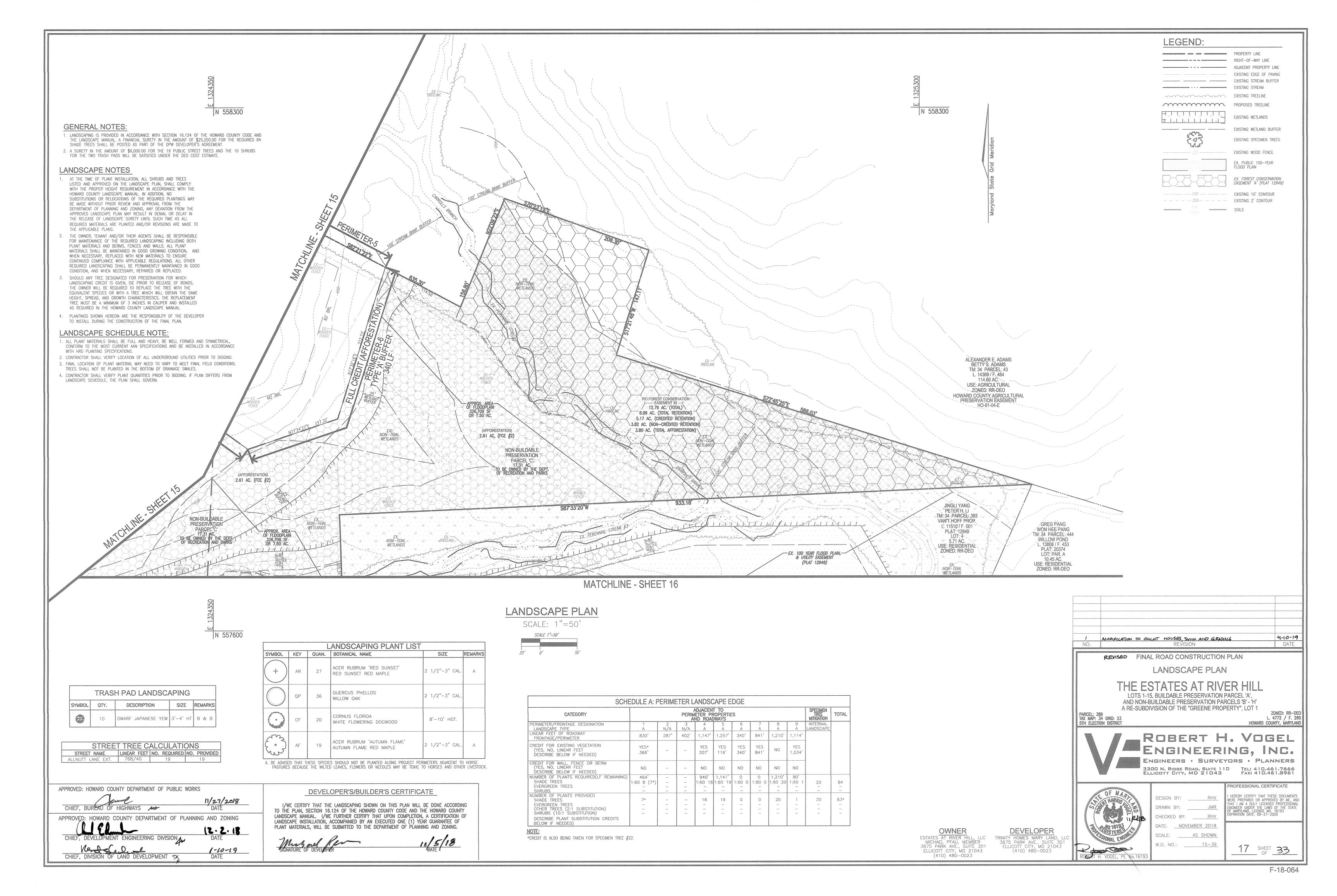












REFOREST / AFFORESTATION PLAN

A. PLANTING PLAN AND METHODS

PLANT SPECIES SELECTION WAS BASED ON OUR KNOWLEDGE REGARDING PLANT COMMUNITIES IN MARYLAND'S PIEDMONT PLATEAU AND INFORMATION PROVIDED IN THE SOIL SURVEY ON TYPICAL VEGETATION FOR THE SOIL TYPE ON THE PLANTING SITE. SPECIES SELECTION WAS ALSO BASED ON OUR KNOWLEDGE OF PLANT AVAILABILITY IN THE NURSERY

REFOREST / AFFORESTATION SHALL BE ACCOMPLISHED THROUGH A MIXED PLANTING OF WHIPS AND BRANCHED TRANSPLANTS. CONTAINER GROWN STOCK IS RECOMMENDED BUT BAREROOT STOCK MAY BE USED TO HELP CONTROL AFFORESTATION COSTS. IF BAREROOT STOCK IS USED THE ROOT SYSTEMS OF ALL PLANTS WILL BE DIPPED IN AN ANTI-DESICCANT GEL PRIOR TO PLANTING TO IMPROVE MOISTURE RETENTION IN THE ROOT SYSTEMS

PRIOR TO PLANTING THE PROPOSED FOREST CONSERVATION EASEMENTS ALL MULTIFLORA ROSE IN THE PLANTING AREA SHALL BE REMOVED. REMOVAL OF THE ROSE MAY BE PERFORMED WITH MOWING AND HERBICIDE TREATMENTS. PHYSICAL REMOVAL OF ALL TOP GROWTH FOLLOWING BY A PERIODIC HERBICIDE TREATMENT OF STUMP SPROUTS IS RECOMMENDED. NATIVE TREE AND SHRUB SPECIES OCCURRING WITHIN THE ROSE THICKETS SHOULD BE RETAINED WHEREVER POSSIBLE. HERBICIDES TREATMENTS SHALL OCCUR ON 2 MONTH INTERVALS DURING THE FIRST GROWING SEASON AND ONCE EACH IN THE SPRING AND FALL FOR SUBSEQUENT YEARS. HERBICIDE USED SHALL BE MADE SPECIFICALLY TO ADDRESS WOODY PLANT MATERIAL AND SHALL BE APPLIED AS PER MANUFACTURERS SPECIFICATIONS. CARE SHOULD BE TAKEN NOT TO SPRAY PLANTED TREES OR NATURALLY OCCURRING NATIVE TREE/SHRUB SEEDLINGS. IT IS RECOMMENDED THAT INITIATION OF ROSE REMOVAL BEGIN AT LEAST SIX MONTHS PRIOR TO PLANTING.

B. PLANTING AND SOIL SPECIFICATIONS

PLANT MATERIAL WILL BE INSTALLED IN ACCORDANCE WITH THE PLANTING DETAIL AND PLANTING SPECIFICATIONS SHOWN ON THE FOREST CONSERVATION PLAN.

AMENDMENTS TO EXISTING SOIL WILL BE IN ACCORDANCE WITH THE PLANTING SPECIFICATIONS SHOWN ON THE FOREST CONSERVATION PLAN. SOIL DISTURBANCE WILL BE LIMITED TO INDIVIDUAL PLANTING LOCATIONS.

C. MAINTENANCE OF PLANTINGS FOR INFORMATION REGARDING MAINTENANCE OF THE AFFORESTATION PLANTINGS, SEE SECTION VIII B.

D. GUARANTEE REQUIREMENTS

A 90 PERCENT SURVIVAL RATE OF THE AFFORESTATION PLANTINGS WILL BE REQUIRED AFTER ONE GROWING SEASON. ALL PLANT MATERIAL BELOW THE 90 PERCENT SURVIVAL THRESHOLD WILL BE REPLACED AT THE BEGINNING OF THE SECOND GROWING SEASON. AT THE END OF THE SECOND GROWING SEASON, A 75 PERCENT SURVIVAL RATE WILL BE REQUIRED. ALL PLANT MATERIAL BELOW THE 75 PERCENT SURVIVAL THRESHOLD WILL BE REPLACED BY THE

E. SECURITY FOR AFFORESTATION

BEGINNING OF THE NEXT GROWING SEASON.

SECTION 16-1209 OF THE HOWARD COUNTY FOREST CONSERVATION ACT REQUIRES THAT A DEVELOPER SHALL POST A SECURITY (BOND, LETTER OF CREDIT, ETC.) WITH THE COUNTY TO INSURE THAT ALL WORK IS DONE IN ACCORDANCE

CONSTRUCTION PERIOD PROTECTION PROGRAM

A. FOREST PROTECTION TECHNIQUES

1. SOIL PROTECTION AREA (CRITICAL ROOT ZONE)

THE SOIL PROTECTION AREA, OR CRITICAL ROOT ZONE, OF A TREE IS THAT PORTION OF THE SOIL COLUMN WHERE MOST OF A ITS ROOTS MAY BE FOUND. THE MAJORITY OF ROOTS RESPONSIBLE FOR WATER AND NUTRIENT UPTAKE ARE LOCATED JUST BELOW THE SOIL SURFACE. TEMPORARY FENCING SHALL BE PLACED AROUND THE CRITICAL ROOT ZONE OF THE FOREST IN AREAS WHERE THE FOREST LIMITS OCCUR WITHIN 25 FEET OF THE LIMIT OF DISTURBANCE.

2. FENCING AND SIGNAGE

EXISTING FOREST LIMITS OCCURRING WITHIN 25 FEET OF THE LIMITS OF DISTURBANCE SHALL BE PROTECTED USING TEMPORARY PROTECTIVE FENCING. PERMANENT SIGNAGE SHALL BE PLACED AROUND THE AFFORESTATION AREA PRIOR TO PLANT INSTALLATION, AS SHOWN ON THE PLAN.

B. PRE-CONSTRUCTION MEETING

UPON STAKING OF LIMITS OF DISTURBANCE A PRE-CONSTRUCTION MEETING WILL BE HELD BETWEEN THE DEVELOPER, CONTRACTOR AND APPROPRIATE COUNTY INSPECTOR. THE PURPOSE OF THE MEETING WILL BE TO VERIFY THAT ALL SEDIMENT CONTROL IS IN ORDER, AND TO NOTIFY THE CONTRACTOR OF POSSIBLE PENALTIES FOR NON-COMPLIANCE WITH THE FCP.

C. STORAGE FACILITIES/EQUIPMENT CLEANING

ALL EQUIPMENT STORAGE, PARKING, SANITARY FACILITIES, MATERIAL STOCKPILING, ETC. ASSOCIATED WITH CONSTRUCTION OF THE PROJECT WILL BE RESTRICTED TO THOSE AREAS OUTSIDE OF THE PROPOSED FOREST CONSERVATION EASEMENT. CLEANING OF EQUIPMENT WILL BE LIMITED TO AREA WITHIN THE LOD OF THE PROPOSED HOMESITES. WASTEWATER RESULTING FROM EQUIPMENT CLEANING WILL BE CONTROLLED TO PREVENT RUNOFF INTO ENVIRONMENTALLY SENSITIVE AREAS.

THE FOLLOWING TIMETABLE REPRESENTS THE PROPOSED TIMETABLE FOR DEVELOPMENT. THE ITEMS OUTLINED IN THE FOREST CONSERVATION PLAN WILL BE ENACTED WITHIN TWO (2) YEARS OF SUBDIVISION APPROVAL.

BELOW FIND A PROPOSED SEQUENCE OF CONSTRUCTION. 1. INSTALL ALL SIGNAGE AND SEDIMENT CONTROL DEVICES. HOLD PRE-CONSTRUCTION MEETING BETWEEN DEVELOPER, CONTRACTOR AND COUNTY INSPECTO

3. BUILD ACCESS ROADS, INSTALL UTILITIES, AND CONSTRUCT HOME. STABILIZE ALL DISTURBED AREAS **ACCORDINGLY** 4. BEGIN MULTIFLORA ROSE REMOVAL, AS NEEDED. INSTALL PERMANENT PROTECTIVE SIGNAGE FOR

EASEMENTS AND INITIATE PLANTINGS IN ACCORDANCE WITH FOREST CONSERVATION PLAN. PLANTINGS WILL BE COMPLETED WITHIN TWO (2) YEARS OF SUBDIVISION APPROVAL. . REMOVE SEDIMENT CONTROL.

6. HOLD POST-CONSTRUCTION MEETING WITH COUNTY INSPECTORS TO ASSURE COMPLIANCE WITH FCP. SUBMIT CERTIFICATION OF INSTALLATION. 7. MONITOR AND MAINTAIN PLANTINGS FOR 2 YEARS

E. CONSTRUCTION MONITORING

ECO-SCIENCE PROFESSIONALS, OR ANOTHER QUALIFIED PROFESSIONAL DESIGNATED BY THE DEVELOPER, WILL MONITOR CONSTRUCTION OF THE PROJECT TO ENSURE THAT ALL ACTIVITIES ARE IN COMPLIANCE WITH THE FOREST CONSERVATION PLAN.

F. POST-CONSTRUCTION MEETING

UPON COMPLETION OF CONSTRUCTION, ECO-SCIENCE PROFESSIONALS, OR ANOTHER QUALIFIED PROFESSIONAL DESIGNATED BY THE DEVELOPER, WILL NOTIFY THE COUNTY THAT CONSTRUCTION HAS BEEN COMPLETED AND ARRANGE FOR A POST-CONSTRUCTION MEETING TO REVIEW THE PROJECT SITE. THE MEETING WILL ALLOW THE COUNTY INSPECTOR TO VERIFY THAT AFFORESTATION PLANTINGS HAVE BEEN INSTALLED.

POST-CONSTRUCTION MANAGEMENT PLAN

HOWARD COUNTY REQUIRES A TWO YEAR POST-CONSTRUCTION MANAGEMENT PLAN BE PREPARED AS PART OF THE FOREST CONSERVATION PLAN. THE PLAN GOES INTO EFFECT UPON ACCEPTANCE OF THE CONSTRUCTION CERTIFICATION OF COMPLETION BY THE COUNTY. ECO-SCIENCE PROFESSIONALS, OR ANOTHER QUALIFIED PROFESSIONAL DESIGNATED BY THE DEVELOPER, WILL BE RESPONSIBLE FOR IMPLEMENTATION OF THE POST-CONSTRUCTION MANAGEMENT PLAN.

THE FOLLOWING ITEMS WILL BE INCORPORATED INTO THE PLAN: A. FENCING AND SIGNAGE

PERMANENT SIGNAGE INDICATING THE LIMITS OF THE RETENTION/AFFORESTATION AREA SHALL BE MAINTAINED.

B. GENERAL SITE INSPECTIONS/MAINTENANCE OF PLANTINGS

SITE INSPECTIONS WILL BE PERFORMED A MINIMUM OF THREE TIMES DURING THE GROWING SEASON. THE PURPOSE OF THE INSPECTIONS WILL BE TO ASSESS THE HEALTH OF THE AFFORESTATION PLANTINGS. APPROPRIATE MEASURES

WILL BE TAKEN TO RECTIFY ANY PROBLEMS WHICH MAY ARISE. IN ADDITION, MAINTENANCE OF THE AFFORESTATION PLANTINGS WILL INVOLVE THE FOLLOWING STEPS:

WATERING - ALL PLANT MATERIAL SHALL BE WATERED TWICE A MONTH DURING THE 1ST GROWING SEASON, MORE OR LESS FREQUENTLY DEPENDING ON WEATHER CONDITIONS. DURING THE SECOND GROWING SEASON, ONCE A MONTH DURING MAY-SEPTEMBER, IF NEEDED. REMOVAL OF INVÁSIVE EXOTICS AND NOXIOUS WEEDS. OLD FIELD SUCCESSIONAL SPECIES WILL BE

RETAINED. IDENTIFICATION OF SERIOUS PLANT PESTS AND DISEASES, TREATMENT WITH APPROPRIATE AGENT. PRUNING OF DEAD BRANCHES. AFTER 12 AND 24 MONTHS, REPLACEMENT OF PLANTS, IF REQUIRED, IN ACCORDANCE WITH THE GUARANTEE REQUIREMENTS SHOWN ON THE FCP.

C. EDUCATION THE DEVELOPER WILL PROVIDE APPROPRIATE MATERIALS TO PROPERTY OWNERS INFORMING THEM OF THE LOCATION AND PURPOSE OF THE AFFORESTATION AREA. MATERIALS MAY INCLUDE SITE PLANS AND INFORMATION EXPLAINING THE INTENT OF THE FOREST CONSERVATION LAW.

D. FINAL INSPECTION

AT THE END OF THE TWO YEAR POST-CONSTRUCTION MANAGEMENT PERIOD, ECO-SCIENCE PROFESSIONALS. OR ANOTHER QUALIFIED PROFESSIONAL, WILL SUBMIT TO THE ADMINISTRATOR OF THE HOWARD COUNTY FOREST CONSERVATION PROGRAM CERTIFICATION THAT ALL RETENTION/AFFORESTATION REQUIREMENTS HAVE BEEN MET. UPON ACCEPTANCE OF THIS CERTIFICATION, THE COUNTY WILL RELEASE THE DEVELOPER FROM ALL FUTURE OBLIGATIONS AND RELEASE THE DEVELOPER'S BOND.

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORK	KS .
Jame	11/27/2018
CHIEF, BUREAU OF HIGHWAYS	DATE
APPROVED: HOWARD COUNTY DEPARTMENT OF PLANN	ING AND ZONING
Chil Church	12.2.19
CHIEF, DEVELOPMENT ENGINEERING DIVISION	DATE
Kert Lewool	1-10-19
CHIEF, DIVISION OF LAND DEVELOPMENT	DATE

PLANTING NOTES:

- PLANTING DENSITY BASED SPACING REQUIREMENTS WHIPS WITH SHELTER @ 11' ON CENTER. - PLANTING MAY BE MADE IN A CURVILINEAR FASHION ALONG CONTOUR. THE PLANTING SHOULD AVOID A GRID

APPEARANCE BUT SHOULD BE SPACED TO FACILITATE MAINTENANCE - MULTIFLORA ROSE/HEAVY BRUSH REMOVAL/CONTROL MAY BE REQUIRED PRIOR TO INSTALLATION OF PLANTING. ALL WHIPS ARE REQUIRED TO BE INSTALLED WITH TREE SHELTERS PER HOWARD COUNTY FCA REQUIREMENTS. - PLANTING UNITS DEFINED BY THE SPACING REQUIREMENTS ESTABLISHED IN THE FCA MANUAL. ONE PLANT UNI $^{ extsf{T}}$ IS DEFINED AS 1 SEEDLING OR WHIP WITHOUT SHELTER. THE MANUAL STATES THAT 700 SEEDLINGS/WHIPS WITHOUT SHELTERS ARE REQUIRED PER ACRE. OR 350 WHIPS W/SHELTERS, OR 200 1" CALIPER TREES, OR 100 2" CALIPER TREES. BY CONVERSION IT HAS BEEN DETERMINED THAT A SEEDING OR WHIP WITHOUT SHELTER = 1 UNIT, WHIP WITH SHELTER = 2 UNITS, 1"CALIPER TREE = 3.5 UNITS AND 2" CALIPER TREE = 7 UNITS. THE USE OF PLANT UNITS SIMPLIFIES THE PLANT DENSITY CALCULATIONS WHEN MIXING STOCK SIZE.

PLANTING/SOIL SPECIFICATIONS

INSTALLATION OF BAREROOT/PLUG PLANT STOCK SHALL TAKE PLACE BETWEEN MARCH 15 - APRIL 20; B&B/CONTAINER STOCK MARCH 15 -MAY 30 OR SEPTEMBER 15 - NOVEMBER 15. FALL PLANTING OF B&B STOCK IS NOT RECOMMENDED. DISTURBED AREAS SHALL BE SEEDED AND STABILIZED AS PER GENERAL CONSTRUCTION PLAN FOR PROJECT.

PLANTING AREAS NOT IMPACTED BY SITE GRADING SHALL HAVE NO ADDITIONAL TOPSOIL INSTALLED. BAREROOT PLANTS SHALL BE INSTALLED SO THAT THE TOP OF ROOT MASS IS LEVEL WITH THE TOP OF EXISTING GRADE. ROOTS SHALL BE DIPPED IN AN ANTI-DESICCANT GEL PRIOR TO PLANTING. BACKFILL IN HE PLANTING PITS SHALL CONSIST OF 3 PARTS EXISTING SOIL TO 1 PART PINE FINES OR EQUIVALENT. FERTILIZER SHALL CONSIST OF AGRIFORM 22-8-2, OR EQUIVALENT, APPLIED AS PER MANUFACTURER'S

SPECIFICATIONS, FOR WOODY PLANTS. HERBACEOUS PLANT SHALL BE FERTILIZED WITH OSMOCOTE PLANT MATERIAL SHALL BE TRANSPORTED TO THE SITE IN A TARPED OR COVERED TRUCK. PLANTS SHALL BE KEPT MOIST PRIOR TO PLANTING. THE CONTRACTOR SHALL REMOVE ALL NON-ORGANIC DEBRIS ASSOCIATED WITH THE PLANTING OPERATION FROM THE SITE.

SEQUENCE OF CONSTRUCTION SEDIMENT CONTROL SHALL BE INSTALLED IN ACCORDANCE WITH GENERAL CONSTRUCTION PLAN FOR SITE. PLANTS SHALL BE INSTALLED AS PER PLANT SCHEDULE AND THE PLANTING/SOIL SPECIFICATIONS FOR THE

UPON COMPLETION OF THE PLANTING, SIGNAGE SHALL BE INSTALLED AS SHOWN.
PLANTINGS SHALL BE MAINTAINED AND GUARANTEED IN ACCORDANCE WITH THE MAINTENANCE AND GUARANTEE REQUIREMENTS FOR PROJECT.

MAINTENANCE OF PLANTINGS SHALL LAST FOR A PERIOD OF TWO YEARS. PLANTINGS MUST RECEIVE 2 GALLONS OF WATER, EITHER THROUGH PRECIPITATION OR WATERING, WEEKLY DURING THE 1ST GROWING SEASON, AS NEEDED. DURING SECOND GROWING SEASON, ONCE A MONTH DURING MAY-SEPTEMBER, IF NEEDED.

INVASIVE EXOTICS AND NOXIOUS WEEDS WILL BE REMOVED, AS REQUIRED, FROM PLANTING AREAS MECHANICALLY AND/OR WITH LIMITED HERBICIDE. OLD FIELD SUCCESSIONAL SPECIES WILL BE RETAINED. PLANTS SHALL BE EXAMINED A MINIMUM TWO TIMES DURING THE GROWING SEASON FOR SERIOUS PLANT PESTS AND DISEASES. SERIOUS PROBLEMS WILL BE TREATED WITH THE APPROPRIATE AGENT. DEAD BRANCHES WILL BE PRUNED FROM PLANTINGS. SUARANTEE REQUIREMENTS

A 90 PERCENT SURVIVAL RATE OF THE REFORESTATION PLANTINGS WILL BE REQUIRED AFTER ONE GROWING SEASON. ALL PLANT MATERIAL BELOW THE 90 PERCENT SURVIVAL THRESHOLD WILL BE REPLACED AT THE BEGINNING OF THE SECOND GROWING SEASON. AT THE END OF THE SECOND GROWING SEASON, A 75 PERCENT SURVIVAL RATE WILL BE REQUIRED. ALL PLANT MATERIAL BELOW THE 75 PERCENT SURVIVAL HRESHOLD WILL BE REPLACED BY THE BEGINNING OF THE NEXT GROWING SEASON.

EDUCATION OF NEW OCCUPANTS

1. THE DEVELOPER SHALL PROVIDE EDUCATIONAL INFORMATION TO ALL PROPERTY OWNERS WITHIN THE NEW DEVELOPMENT/HOME ABOUT THE PROPER USE OF FOREST CONSERVATION AREAS.

FINAL INSPECTION AND RELEASE OF OBLIGATIONS

1. AT THE END OF THE POST—CONSTRUCTION MANAGEMENT AND PROTECTION PERIOD THE DEVELOPER SHALL SUBMIT A CERTIFICATION TO THE COUNTY THAT ALL FOREST CONSERVATION AREAS HAVE REMAINED INTACT OR HAVE BEEN RESTORED TO APPROPRIATE CONDITION, THAT THE STIPULATED SURVIVAL RATES HAVE BEEN ACHIEVED. AND THAT ANY PERMANENT PROTECTION MEASURES REQUIRED BY THE PLAN ARE IN PLACE. UPON REVIEW AND ACCEPTANCE, THE COUNTY WILL INFORM THE DEVELOPED OF THEIR RELEASE THE DEVELOPMENT OF FUTURE OBLIGATIONS RELATED TO THE FOREST CONSERVATION ACT.

CONSTRUCTION PERIOD PROTECTION AND MANAGEMENT NOTES FOR FOREST CONSERVATION

PRE-CONSTRUCTION PHASE FOR RETENTION AREAS, INSTALL BLAZE ORANGE FENCE AND RETENTION SIGNS BEFORE CONSTRUCTION BEGINS.

2. FENCING SHALL BE MAINTAINED IN GOOD CONDITION AND PROMPTLY REPAIRED OR RESTORED AS THE SITUATION WARRANTS.

3. A QUALIFIED TREE CARE EXPERT SHALL DETERMINE IF ROOT PRUNING IS REQUIRED ALONG THE LIMIT OF DISTURBANCE. ROOT PRUNE TREES AS REQUIRED. WATER ANY ROOT—PRUNED TREES IMMEDIATELY AFTER ROOT—PRUNING AND MONITOR FOR SIGNS OF STRESS DURING CONSTRUCTION. CONSTRUCTION PHASE . NO DISTURBANCE OR DUMPING IS ALLOWED INSIDE THE TREE RETENTION AREA.

2. NO EQUIPMENT SHALL BE OPERATED, STAGED OR STORED INSIDE THE TREE RETENTION AREA INCLUDING TREE CANOPIES. 3. IN THE EVENT OF DROUGHT, THE PROTECTED TREES SHALL BE MONITORED FOR SIGNS OF STRESS AND WATERED AS NEEDED. POST-CONSTRUCTION PHASE

. AT THE DIRECTION OF A QUALIFIED TREE CARE EXPERT, DAMAGES TO RETAINED TREES SHALL BE REPAIRED BY THE CONTRACTOR. 2. FENCE REMOVAL AND STABILIZATION SHALL BE AS PER THE SEDIMENT AND EROSION CONTROL PLAN.

3. POST CONSTRUCTION MANAGEMENT PROGRAM (FOREST CONSERVATION MANUAL) - NOTICE OF TWO YEAR GROWING SEASON MANAGEMENT PROGRAM - MANAGEMENT OF RETENTION AREAS

- MANAGEMENT OF REFORESTATION AREAS (WATERING SCHEDULE, FERTILIZING, CONTROL OF INVASIVES AND PROTECTION FROM PESTS, DISEASES AND MECHANICAL INJURY)

- REPLACEMENT OF DEAD MATERIAL - EDUCATION OF NEW RESIDENTS
4. DO NOT REMOVE SIGNS.

SEQUENCE OF CONTRUCTION-FOREST CONSERVATION

1. PRECONSTRUCTION MEETING /SITE WALK WITH CONTRACTORS AND OTHER RESPONSIBLE PARTIES TO DEFINE PROTECTION MEASURES TO BE UTILIZED AND TO POINT OUT PARTICULAR TREES TO BE SAVED.

2. STAKE OUT LIMITS OF DISTURBANCE AND TREE PROTECTION FENCING LOCATIONS. 3. INSTALL TREE PROTECTION FENCING: FENCING TO BE INSPECTED BY THE PROJECT ENGINEER OR THE PROJECT ECOLOGIST AND HOWARD COUNTY PLANNING AND ZONING.

4. PROCEED WITH TREE REMOVAL AND SITE IMPROVEMENTS AS PER APPROVED SEDIMENT CONTROL PLAN - TO BE INSPECTED BY HOWARD COUNTY PLANNING AND ZONING. 5. TEMPORARY TREE PROTECTION DEVICES SHALL BE REMOVED AFTER ALL FINISHED GRADING AND UTILITY CONSTRUCTION HAS OCCURED AND WITH APPROVAL FROM THE HOWARD COUNTY OFFICE OF PLANNING AND ZONING.

in a contraction of the contract	FOREST STAND DATA						
KEY	COMMUNITY TYPE	ACREAGE (NTA)	DOMINANT VEGETATION	GENERAL CONDITION	PRIORITY ACREAGE		
L.,	OAK/POPLAR	9.8	LIRIODENDRON TULIPIFERA, QUERCUS ALBA, QUERCUS VELUTINA, QUERCUS RUBRA, ACER RUBRUM, PLATANUS OCCIDENTALIS	GOOD	5± ACRES BUFFERS, SLOPES		
F2	SUCCESSIONAL	2.8	ACER RUBRUM, ACER NEGUNDO, FRAXINUS PENNSYLYANICA, JUGLANS NIGRA, LIRIODENDRON TULIPIFERA	GOOD	2.6± ACRES BUFFERS, WETLANDS		

SEE ACCOMPANYING REPORT FOR COMPLETE STAND DESCRIPTIONS

WETLAND DESCRIPTIONS						
WETLAND SYSTEM	COWARDIN CLASSIFICATION	DOMINANT VEGETATION				
A FORESTED	PF01A-E R3UB1	ACER RUBRUM, LINDERA BENZOIN, SYMPLOCARPUS FOETIDUS, BOEHMERIA CYLINDRICA, CINNA ARUNDINACEA, IMPATIENS CAPENSIS				
A PASTURE	PEM2A	POA TRIVIALIS, LYCOPUS VIRGINICUS, RANUNCULUS SP., FESTUCA ARUNDINACEA				

SFF ACCOMPANYING REPORT FOR COMPLETE WETLAND DESCRIPTIONS

	SOILS LEGEND							
		lanaun	LU ELOTOD	EDODINE				
SYMBOL	NAME / DESCRIPTION	GROUP	K-FACTOR	FKODIRFF				
BaA	BAILE SILT LOAM, 0 TO 3 PERCENT SLOPES	C/D	.37	YES				
Со	CODORUS AND HATBORO SILT LOAMS, O TO 3 PERCENT SLOPES	C	.32	NO				
GbB	GLADSTONE LOAM, 3 TO 8 PERCENT SLOPES	Α	.28	NO				
GbC	GLADSTONE LOAM, 8 TO 15 PERCENT SLOPES	A	.28	NO				
GmB	GLENVILLE SILT LOAM, 3 TO 8 PERCENT SLOPES	С	.43	YES				
Ha	HATBORO-CODORUS SILT LOAMS, O TO 3 PERCENT SLOPES	B/D	.37	YES				

-SOILS INFORMATION FROM USDA WEB SOIL SURVEY WEBSITE -HOWARD COUNTY SOILS MAP NUMBER 16 - CLARKSVILLE NW

HIGHLY FRODIBLE SOILS ARE THOSE SOILS WITH A SLOPE GREATER THAN 15 PERCENT OR THOSE SOILS WITH A SOIL ERODIBILITY FACTOR K GREATER THAN 0.35 AND WITH A SLOPE GREATER THAN 5 PERCENT

EASEMENT 'A' (PLAT 12949) FOREST CONSERVATION EASEMENT (RETENTION) FOREST CONSERVATION EASEMENT (NON-CREDITED RETENTION) FOREST CONSERVATION EASEMENT (AFFORESTATION) FOREST CONSERVATION SIGNS FCE/BANK SALES ACREAGE CHART (3.75 AC. TOTAL*) REMAINING ACREAGE PROJECT NAME F-19-031 3.63 FALCON PLACE F-20-024 3.03 HAMPTON HILLS * 3.75 ACRES TOTAL FOREST MITIGATION (AFFORESTATION)

LEGEND

PROPERTY LINE

EXISTING STREAM

. EXISTING TREELINE

PROPOSED TREELINE

E CONTR

RIGHT-OF-WAY LINE

ADJACENT PROPERTY LINE

EXISTING WETLANDS

EXISTING SPECIMEN TREES

EX. PUBLIC 100-YEAR

EXISTING 10' CONTOUR

PROPOSED 10' CONTOUR

(20% SLOPES OR GREATER)

FXISTING MODERATE SLOPES

(15% TO 19.99% SLOPES)

NON-TIDAL WETLANDS

DEAD END BARRICADE TYPE 'B' (R-5.10)

N 557350

Eco-Science

Professionals, Inc

Consulting Ecologists

P.O. Box 5006 Glen Arm, Maryland 21057

2.51 AC. (FCE (2)

FLOOD PLAIN

EXISTING EDGE OF PAVING

----- EXISTING STREAM BUFFER

----- EXISTING WETLAND BUFFER

----- EXISTING WOOD FENCE

— — 328 — — EXISTING 2' CONTOUR

PROPOSED 2' CONTOUR

SPECIMEN TREE CHART							
NO.	SIZE (IN. DBH)	CRZ (FEET RADIUS)	COMMON NAME	CONDITION	COMMENTS		
ST 1	30"	45'	TULIP POPLAR	GOOD CONDITION	TO BE REMOVED		
ST 2	30.5"	45.75'	TULIP POPLAR	FAIR, SOME DIEBACK NOTED	TO BE REMOVED		
ST 3	35"	52.5'	BLACK OAK	POOR CROWN AND SHAPE	TO BE REMOVED		
ST 4	33"	49.5'	BLACK OAK	POOR, DIEBACK NOTED	TO REMAIN		
ST 5	32"	48'	TULIP POPLAR	TRIPLE STEMMED	TO REMAIN		
ST 6	57"	85.5'	RED OAK	GOOD, SPLITS TO THREE STEMS ABOVE BH	TO REMAIN		
ST 7	44.5"	66.75	TULIP POPLAR	FAIR, SOME DIEBACK NOTED	TO REMAIN		
ST 8	62.5"	93.75'	TULIP POPLAR	FAIR, CROWN DIEBACK, TWO STEMS ABOVE BH	TO REMAIN		
ST 9	1	45'	WHITE PINE	GOOD CONDITION	TO BE REMOVED		
ST 10	31"	46.5'	TULIP POPLAR	GOOD CONDITION	TO REMAIN		
ST 11	42"	63'	WHITE OAK	GOOD CONDITION	TO BE REMOVED		
ST 12	39.5"	59.25	WHITE OAK	GOOD CONDITION	TO BE REMOVED		
ST 13	30"	45'	TULIP POPLAR	FAIR, LIMITED CROWN	TO BE REMOVED		
ST 14	58.5"	87.75	TULIP POPLAR	POOR, TRUNK ROT	TO REMAIN		
ST 15	33.5"	50.25	TULIP POPLAR	LIMITED CROWN	TO REMAIN		
ST 16	31"	46.5'	SILVER MAPLE	FAIR, LEANING	TO REMAIN		
ST 17	47"	70.5	WHITE OAK	GOOD CONDITION	TO REMAIN		
ST 18	34.5"	51.75	TULIP POPLAR	GOOD CONDITION	TO REMAIN		
ST 19	45"	67.5	BLACK OAK	FAIR, LIMB DIEBACK	TO REMAIN		
ST 20	37.5"	56.25	BLACK OAK	POOR, SEVERE DIEBACK	TO REMAIN		
ST 21	44"	66'	RED OAK	POOR, SEVERE DIEBACK	TO REMAIN		
ST 22	38"	57'	RED OAK	POOR, NOTABLE DIEBACK	TO REMAIN		
ST 23	33.5"	50.25	TULIP POPLAR	POOR, TRUNK ROT	TO BE REMOVED		
ST 24	37"	55.5'	TULIP POPLAR	MAJOR TRUNK WOUND	TO BE REMOVED		
ST 25	34.5"	51.75	TULIP POPLAR	POOR, TRUNK CAVITY	TO REMAIN		

HOWARD COUNTY FOREST CONSERVATION WORKSHEET

ZONED RR-DEO

NET TRACT AREA: A. TOTAL TRACT AREA 42.6 AC. B. AREA WITHIN 100 YEAR FLOODPLAIN 7.5 AC C. AREA TO REMAIN IN AGRICULTURAL PRESERVATION 0.0 AC D. NET TRACT AREA 35.1 AC LAND USE CATEGORY INPUT THE NUMBER "1" UNDER THE APPROPIATE LAND USE

ZONING, AND LIMIT TO ONLY ONE ENTRY. ZONED R-20 ARA MDR IDA HDR MPD CIA 0 1 0 0 0 0

20% X D. = 7.0 AC

= 7.4 AC

F. CONSERVATION THRESHOLD 25% X D. = 8.8 AC **EXISTING FOREST COVER:** G. EXISTING FOREST COVER (EXCLUDING FLOODPLAIN) = 12.6 AC

H. AREA OF FOREST ABOVE AFFORESTATION THRESHOLD = 5.6 AC I. AREA OF FOREST ABOVE CONSERVATION THRESHOLD = 3.8 AC BREAK EVEN POINT: $(.2 \times 1) + F = BREAK EVEN POINT (0 AC)$

J. FOREST RETENTION ABOVE THRESHOLD W/ NO MITIGATION = 9.6 AC

K. CLEARING PERMITTED WITHOUT MITIGATION = 3.0 ACPROPOSED FOREST CLEARING: L. TOTAL AREA OF FOREST TO BE CLEARED = 5.2 AC

PLANTING REQUIREMENTS:

M. TOTAL AREA OF FOREST TO BE RETAINED

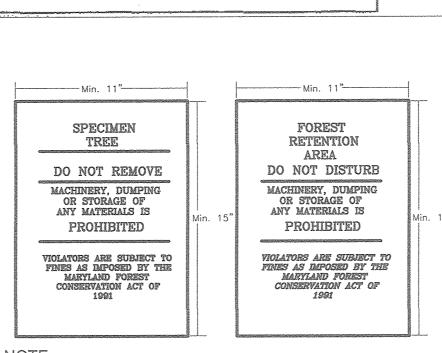
F. AFFORESTATION THRESHOLD

L. REFORESTATION FOR CLEARING ABOVE CONSERVATION THRESHOLD (L X.25) M. REFORESTATION FOR CLEARING BELOW CONSERVATION THRESHOLD = 2.8 ACN. CREDIT FOR RETENTION ABOVE CONSERVATION THRESHOLD (M-F) = 0.0 ACP. TOTAL REFORESTATION REQUIRED (N+P-Q) = 3.8 AC). TOTAL AFFORESTATION REQUIRED R. TOTAL PLANTING REQUIREMENT (REFORESTATION AND AFFORESTATION) = 3.8 AC

TOTAL FOREST CONSERVATION OBLIGATION OF THIS PROJECT TO BE FULFILLED BY:

FOREST CONSERVATION EASEMENTS HAVE BEEN ESTABLISHED TO FULFILL A PORTION OF THE REQUIREMENTS OF SECTION 16.1200 OF THE HOWARD COUNTY FOREST CONSERVATION MANUAL. NO CLEARING, GRADING OR CONSTRUCTION IS PERMITTED WITHIN THE FOREST CONSERVATION EASEMENT, HOWEVER, FOREST MANAGEMENT PRACTICES AS DEFINED IN THE DEED OF FOREST CONSERVATION EASEMENT ARE ALLOWED. THE REQUIRED FOREST CONSERVATION WILL BE PROVIDED ON NON-BUILDABLE PRESERVATION PARCEL "B" & "C" AND SHALL MEET THE INTENT OF SECTION 16.117 OF THE SUBDIVISION AND LAND DEVELOPMENT REGULATIONS.

 7.44 ACRES CREDITED ONSITE RETENTION (NO SURETY REQ)
 3.80 ACRES OF AFFORESTATION EASEMENT 3.75 ACRES OF ADDITIONAL AFFORESTATION HAVE BEEN PROVIDED FOR THE PURPOSE OF A FOREST FINANCIAL SURETY FOR THE REQUIRED AFFORESTATION AND FOREST MITIGATION BANK SHALL BE POSTED WITH THE FINAL PLAN DEVELOPER'S AGREEMENT



Telephone (410) 832-2480 Fax (410) 832-2488

1. BOTTOM OF SIGNS TO BE HIGHER THAN TOP OF TREE PROTECTION FENCE. 2. SIGNS TO BE PLACED APPROXIMATELY 50-100' FEET APART. CONDITIONS ON SITE AFFECTING VISIBILITY MAY WARRANT PLACING SIGNS CLOSER OR FARTHER APART. WHERE SIGNS ARE TO BE PLACED AT THE REAR OF PROPOSED LOTS, SPACING SHALL BE APPROX. 25-30'+/-

3. ATTACHMENT OF SIGNS TO TREES IS PROHIBITED. 4. ALL FOREST CONSERVATION SIGNAGE SHALL BE IN PLACE FOR PERPETUITY. 5. SIGN LOCATION SYMBOL =

> FOREST CONSERVATION AREA SIGNS NOT TO SCALE



LLC TRINITY HOMES MARY LAND. 3675 PARK AVE., SUITE (410) 480-0023

SCALE: 1"=80

SCALE 1"=80"

MD DNR Qualified Professional

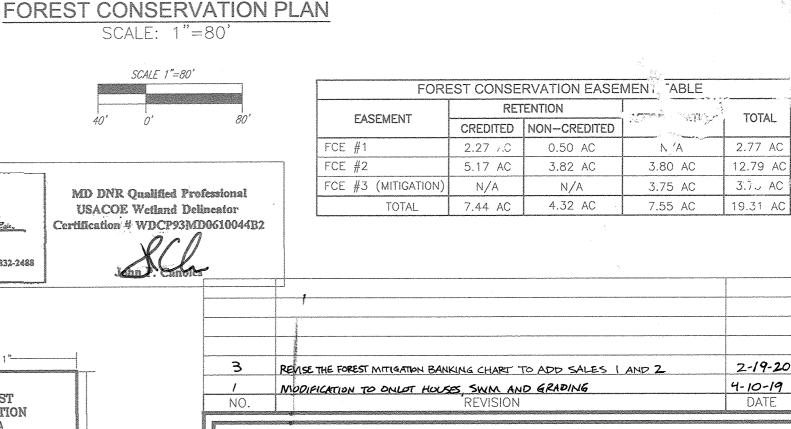
USACOE Wetland Delineator

Certification # WDCP93MD0610044B2

Jan Marie

5.17 AC. (CHEDITED RETRITION)

3.02 AC. (NON-CREDITED RETRITION)



PETER H. U TM: 34 PARCEL: 39: VAN'T HOFF PROR L: 115107F, 001 PLAT: 12949 LOT: 4

. THE WETLANDS AND WETLAND BUFFERS ARE LOCATED ON A NON-BUILDABLE LOT.

NO RARE, THREATENED OR ENDANGERED SPECIES WERE OBSERVED ON THIS SITE.
FORESTED AREAS ADJACENT TO FLOODPLAINS AND STREAM BUFFERS ARE

ONSTRUCTION SITE, AND/OR REDIRECT CLEAN WATER AWAY FROM CONSTRUCTION

, HOWEVER, FOREST MANAGEMENT PRACTICES AS DEFINED IN THE DEED

5. THE FOREST CONSERVATION EASEMENT HAS BEEN ESTABLISHED TO FULFILL THE REQUIREMENTS OF SECTION 16.1200 OF THE HOWARD COUNTY CODE. NO CLEARING, GRADING OR CONSTRUCTION IS PERMITTED WITHIN THE FOREST CONSERVATION

4. CHANGES IN GRADING AND RUNOFF WITHIN CONSTRUCTION/INSTALLATION AREAS WILL NOT ADVERSELY AFFECT THE SOILS WITHIN THE FOREST RETENTION AREA. SEDIMENT CONTROL MEASURES WILL REDIRECT CONCENTRATED FLOW RUNOFF TO STORWATER MANAGEMENT FACILITIES, RETAIN SEDIMENT WITHIN THE

FOREST RETENTION AREAS AND NOTES

SUBSTANTIALLY RETAINED IN OPEN SPACE LOTS

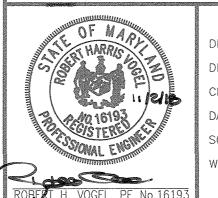
EASEMENT, HOWEVER, FOREST MANAGEMENT PRACTICE OF FOREST CONSERVATION EASEMENT ARE ALLOWED.

N 558200

REVISED FINAL ROAD CONSTRUCTION PLAN FOREST CONSERVATION PLAN, NOTES, DETAILS AND FOREST MITIGATION BANK

> LOTS 1-15, BUILDABLE PRESERVATION PARCEL 'A'. AND NON-BUILDABLE PRESERVATION PARCELS 'B' - 'H' A RE-SUBDIVISION OF THE "GREENE PROPERTY", LOT

PARCEL: 389 TAX MAP: 34 GRID: 23 5TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND ROBERT H. VOGEL ENGINEERING, INC. ENGINEERS · SURVEYORS · PLANNERS 3300 N. RIDGE ROAD, SUITE 110 TEL: 410.461.7666 ELLIGOTT CITY, MD 21043 FAX: 410.461.8961



DESIGN BY: JMR DRAWN BY: RHV CHECKED BY: DATE: NOVEMBER 2018 SCALE: W.O. NO.: 15-39

PROFESSIONAL CERTIFICATE 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. 16193 EXPIRATION DATE: 09-27-2020

SHEET 33

F-18-064

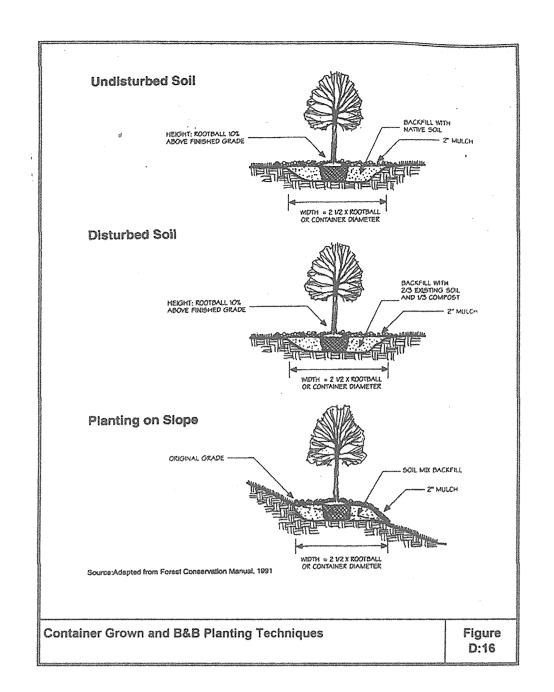
L. 4772 / F. 265

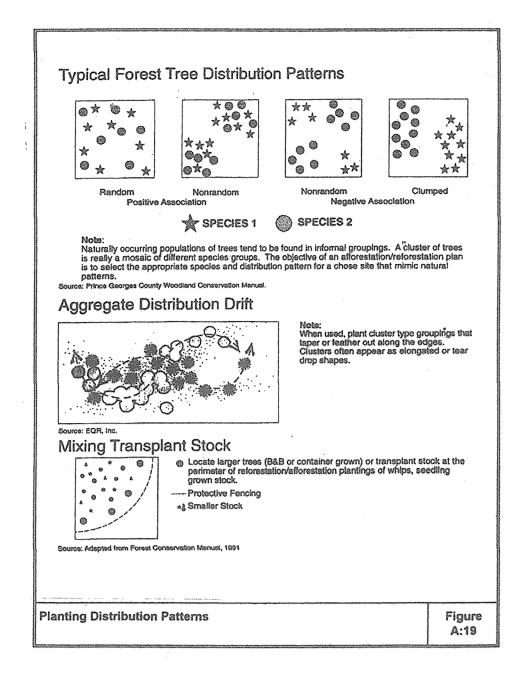
REFORESTATION AREA MONITORING NOTES

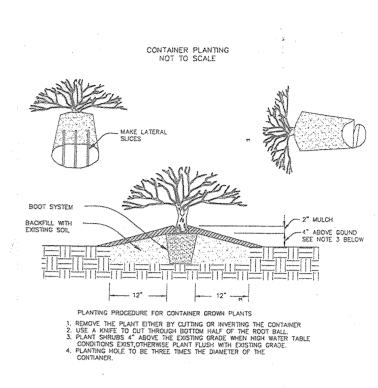
- . MONTHLY VISITS DURING THE FIRST GROWING SEASON ARE TO ASSESS THE SUCCESS OF THE PLANTINGS AND TO DETERMINE IF SUPPLEMENTAL WATERING, PEST CONTROL OR OTHER ACTIONS ARE NECESSARY. EARLY SPRING VISITS WILL DOCUMENT WINTER KILL AND AUTUMN VISITS WILL DOCUMENT SUMMER KILL.
- 2. THE MINIMUM SURVIVAL RATE SHALL BE 75% OF THE TOTAL NUMBER OF TREES PLANTED PER ACRE AT THE END OF THE TWO YEAR MAINTENANCE PERIOD. WILD TREE SEEDLINGS FROM NATURAL REGENERATION ON THE PLANTING SITE MAY BE COUNTED UP TO 50% TOWARD THE TOTAL SURVIVAL NUMBER IF THE ARE HEALTHY NATIVE SPECIES AT LEAST 12 INCHES TALL.
- 3. SURVIVAL WILL BE DETERMINED BY A STRATIFIED RANDOM SAMPLING OF THE PLANTINGS. THE SPECIES COMPOSITION OF THE SAMPLE POPULATION SHOULD BE PROPORTIONATE TO THE AMOUNT OF EACH SPECIES IN THE ENTIRE PLANTING TO BE SAMPLED.
- 4. EFFECTIVE MONITORING WILL ASSESS PLANT SURVIVABILITY DURING THE FIRST GROWING SEASON AND MAKE RECOMMENDATIONS FOR REINFORCEMENT PLANTINGS IF REQUIRED AT THAT TIME.

REFORESTATION PLANTING NOTES

- 1. AFFORESTATION AREAS MAY BE PLANTED AS SOON AS REASONABLE TO DO SO. LATE WINTER-EARLY SPRING PLANTINGS ARE PREFERRED. EARLIEST PLANTING DATES WILL VARY FROM YEAR TO YEAR BUT PLANTING MAY GENERALLY BEGIN AS SOON AS THE GROUND IS NO LONGER FROZEN. ALTERNATE PLANTING DATES MAY BE CONSIDERED AS CONDITION
- 2. SOIL AMENDMENTS AND FERTILIZATION RECOMMENDATIONS WILL BE MADE BASED UPON THE RESULTS OF SOIL ANALYSIS FOR NITROGEN, PHOSPHORUS, POTASSIUM, ORGANIC MATTER CONTENT AND pH. IF REQUIRED, FERTILIZER WILL BE PROVIDED USING A SLOW RELEASE, SOLUBLE 16-8-16 ANALYSIS DESIGNED TO LAST 5-8 YEARS CONTAINED IN POLYETHYLENE PERFORATED BAGS SUCH AS MANUFACTURED BY ADCO WORKS, P.O. BOX 310 HOLLINS, N.Y. 11423 OR APPROVED EQUAL.
- 3. PLANT MATERIALS WILL BE PLANTED IN ACCORDANCE WITH THE PLANTING DETAILS AND PLANT SCHEDULE.
- 4. PLANT MATERIAL SHALL BE NURSERY GROWN AND INSPECTED PRIOR TO PLANTING. PLANTS NOT CONFORMING TO THE AMERICAN STANDARD FOR NURSERY STOCK SPECIFICATIONS FOR SIZE, FORM, VIGOR, OR ROOTS, OR DUE TO TRUNK WOUNDS, BREAKAGE, DESICCATION, INSECT OR DISEASE MUST BE REPLACED.
- 5. PLANTING STOCK MUST BE PROTECTED FROM DESICCATION AT ALL TIMES PRIOR TO PLANTING. MATERIALS HELD FOR PLANTING SHALL BE MOISTENED AND PLACED IN COOL SHADED AREAS UNTIL READY FOR
- 6. NEWLY PLANTED TREES MAY REQUIRE WATERING AT LEAST ONCE PER WEEK DURING THE FIRST GROWING SEASON DEPENDING ON RAINFALL IN ORDER TO GET ESTABLISHED. THE INITIAL PLANTING OPERATION SHOULD ALLOW FOR WATERING DURING INSTALLATION TO COMPLETELY SOAK BACKFILL MATERIAL.
- 7. MULCH SHALL BE APPLIED IN ACCORDANCE WITH THE DIAGRAM PROVIDED AND SHALL CONSIST OF COMPOSTED, SHREDDED HARDWOOD BARK MULCH, FREE OF WOOD ALCOHOL.
- 8. ALL NURSERY STOCK TO BE SPRAYED WITH DEER REPELLENT CONTAINING BITREX, SUCH AS REPELLEX. ALL NURSERY STOCK TO BE GROWN WITH DEER REPELLENT TABLETS IN GROWING MEDIUM, SUCH AS REPELLEX TABLETS.



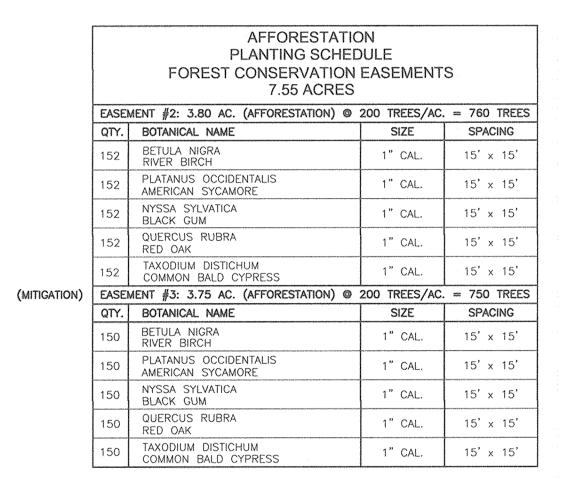




Size	Number Required per Acre	Approximate Spacing feet on center	Surviv Requir At the end or growing	rement f the second
Container Grown 5, 7 Gallon or 1" Caliper B & B	200	15 x 15	75%	170
Notes: 1. These stocking	g and survival requirements	are the minimum numbers	s estimated to	meet the

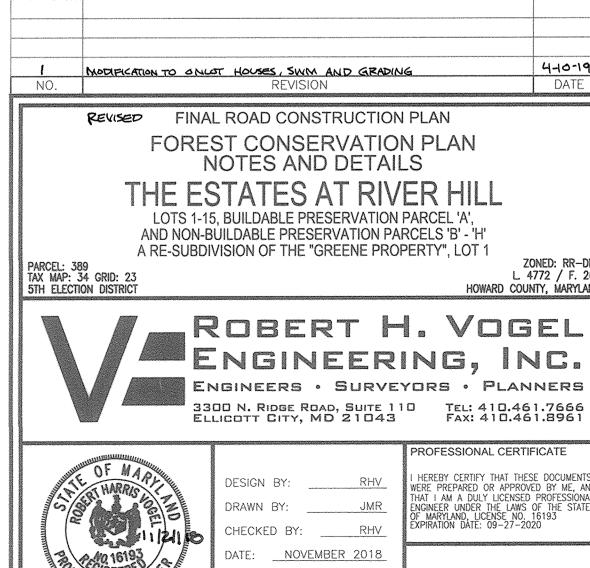
- definition of forest from bare land.
- In certain circumstances, any combination of the above mentioned stocking options, dry seeding, tree shelters, transplants, and/or natural regeneration may be appropriate strategies to fulfill the requirements of an approved FCD. They will be evaluated on a case-by-case basis by the approving authority.
- Spacing does not imply that trees or shrubs must be planted in a grid pattern.

 Stocking	Figur
	A:18



AFFORESTATION PROVIDED

7.55 ACRES 1" CALIPER TREES 1,510 TREES @ 200 TREES PER ACRE OR EQUAL



APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS 11/27/2018 CHIEF, BUREAU OF HIGHWAYS APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING CHIEF, DEVELOPMENT ENGINEERING DIVISION AW 12.2.18 CHIEF, DIVISION OF LAND DEVELOPMENT & 1-10-19 DATE

<u>OWNER</u> ESTATES AT RIVER HILL, LLC MICHAEL PFAU, MEMBER 3675 PARK AVE., SUITE 301 ELLICOTT CITY, MD 21043 (410) 480-0023

DEVELOPER TRINITY HOMES MARY LAND, LL 3675 PARK AVE., SUITE 301 ELLICOTT CITY, MD 21043 (410) 480-0023

PROFESSIONAL CERTIFICATE 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. 16193 EXPIRATION DATE: 09-27-2020

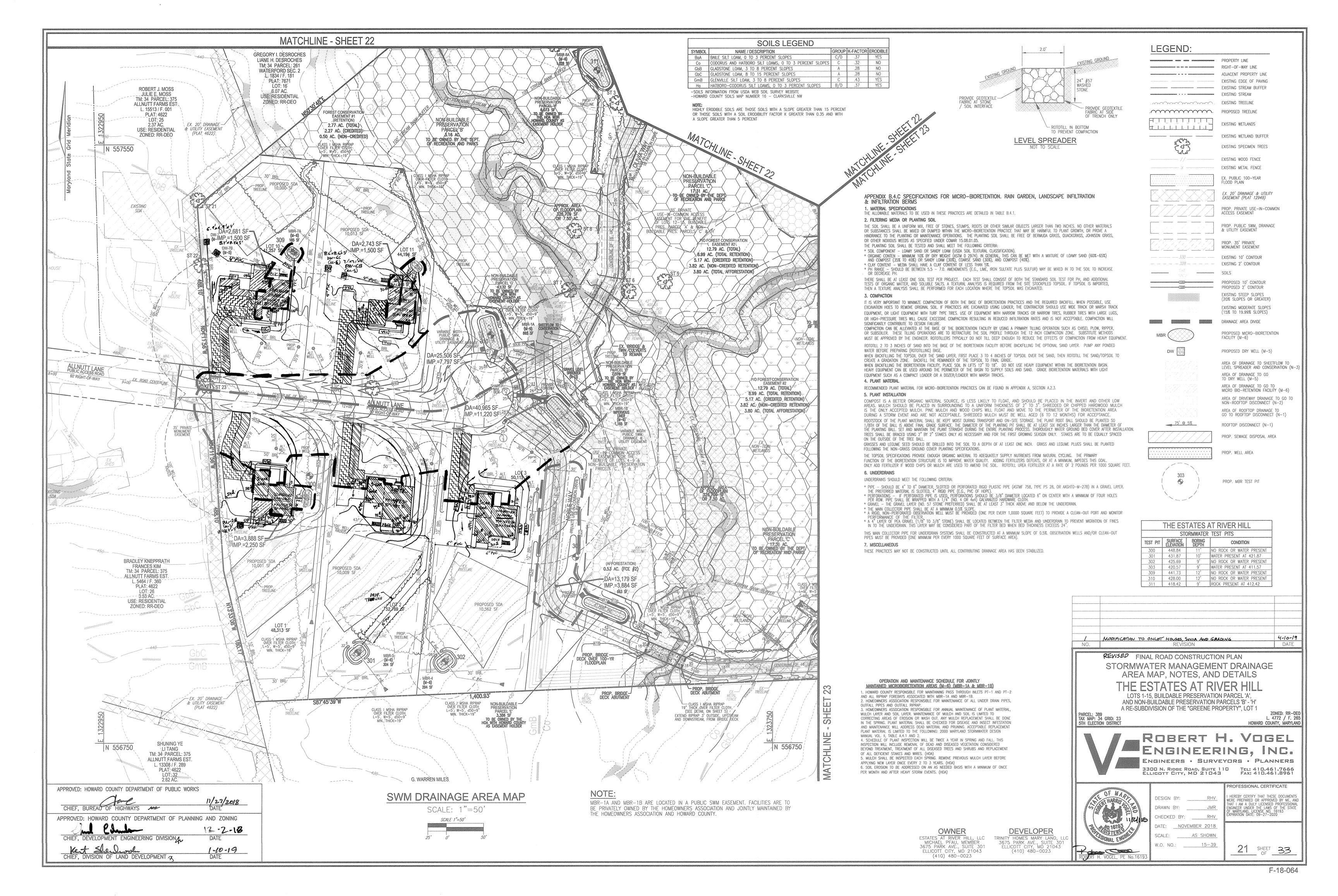
20 SHEET 33

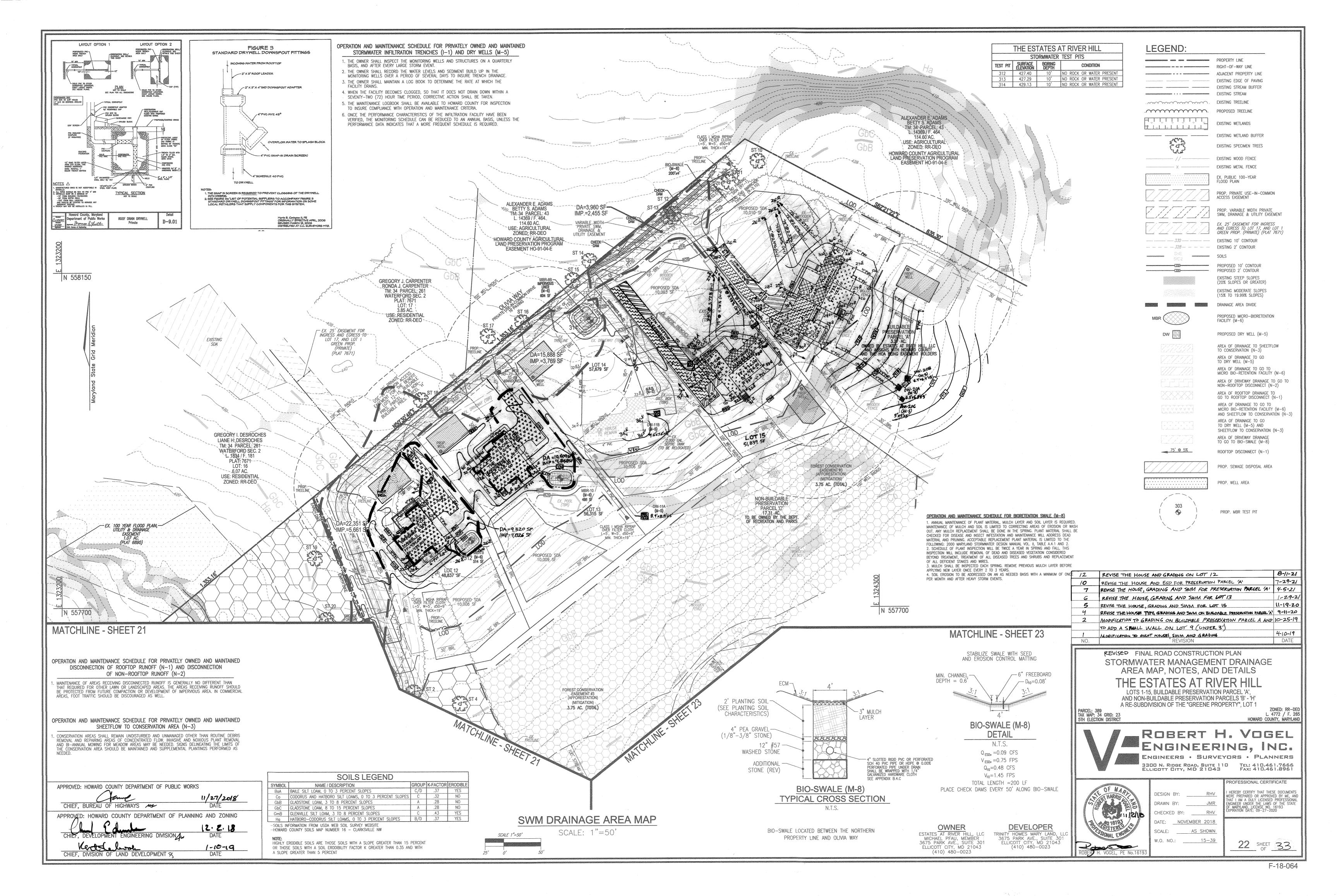
4-10-19

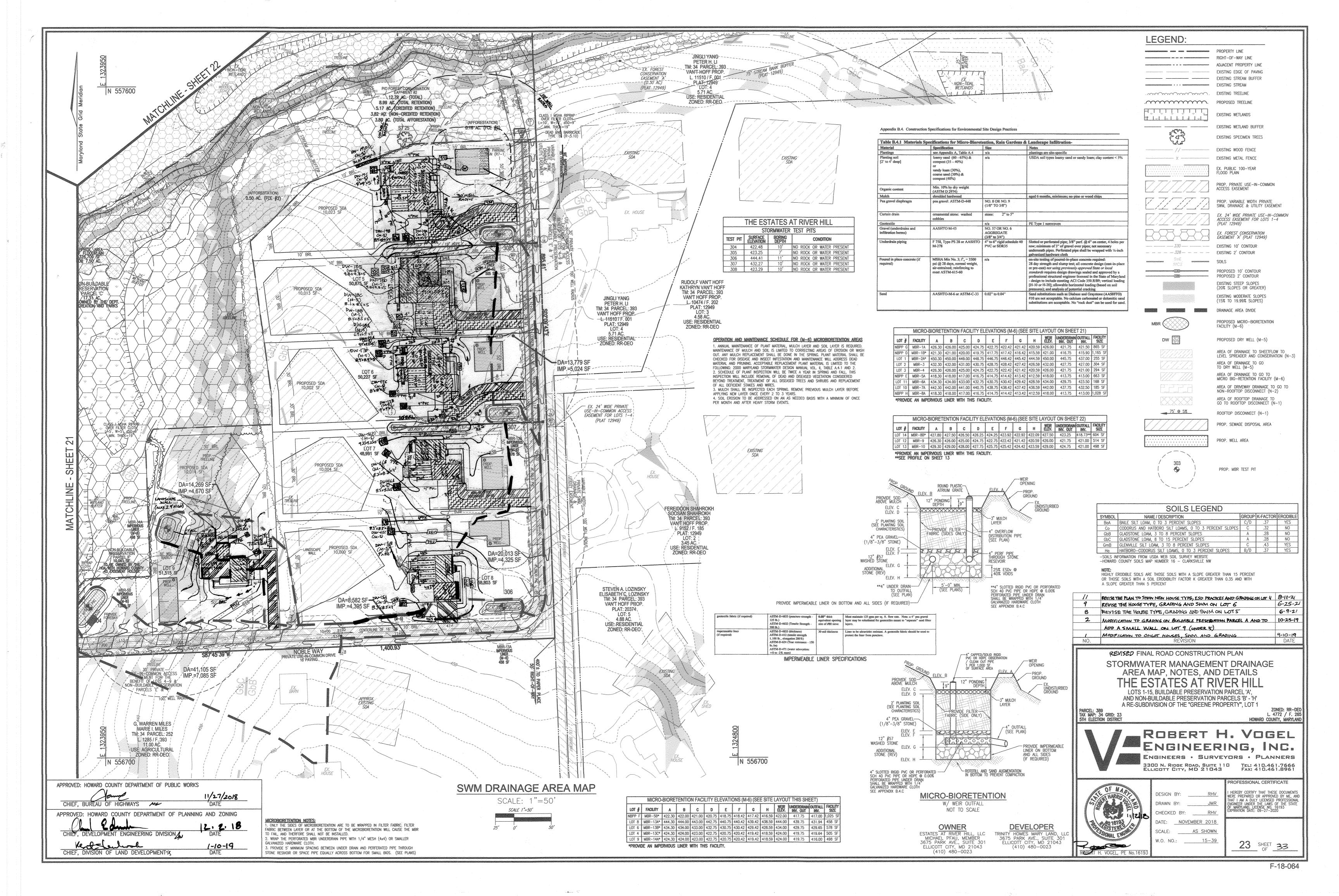
DATE

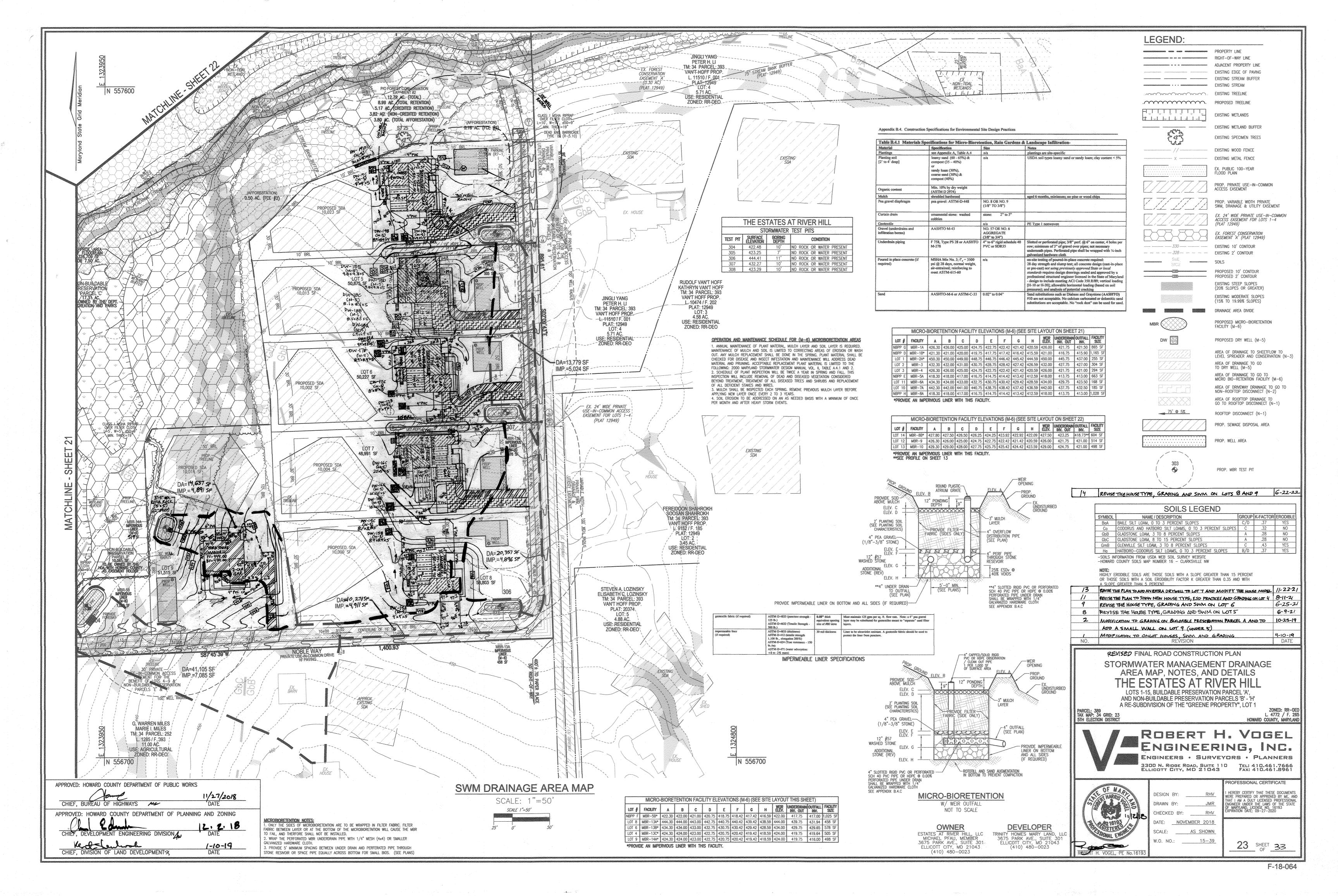
ZONED: RR-DEO L 4772 / F. 265

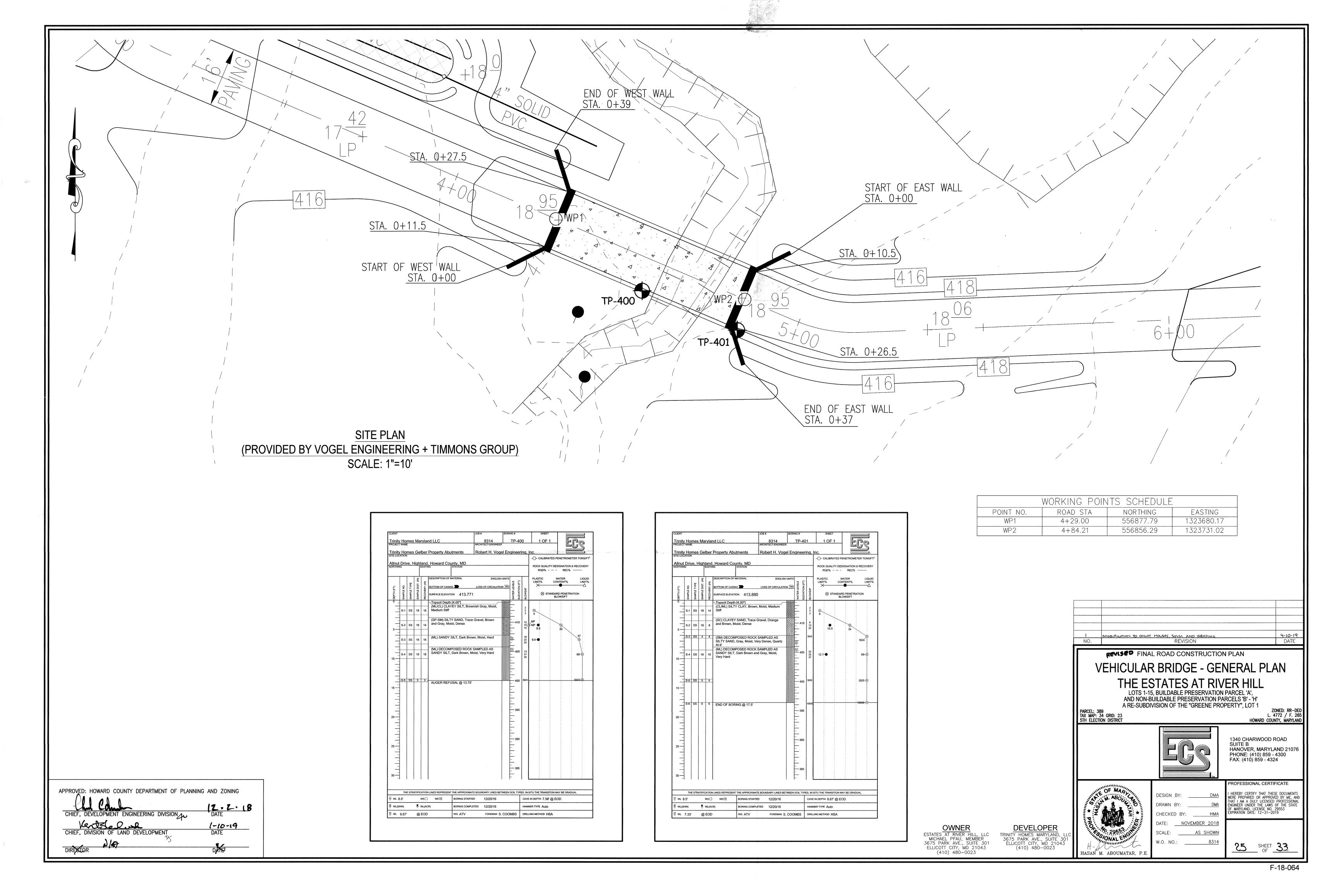
HOWARD COUNTY, MARYLAND

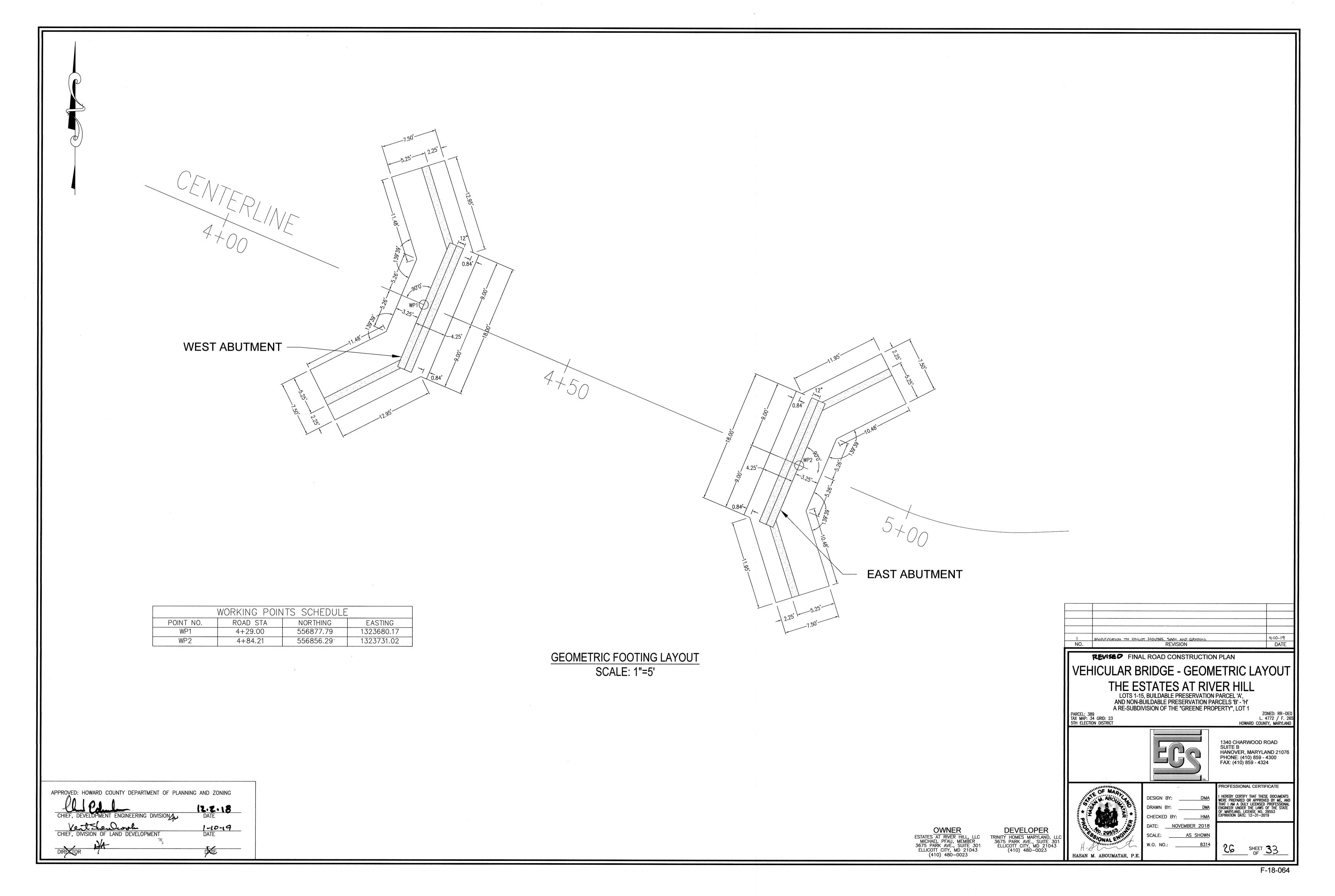


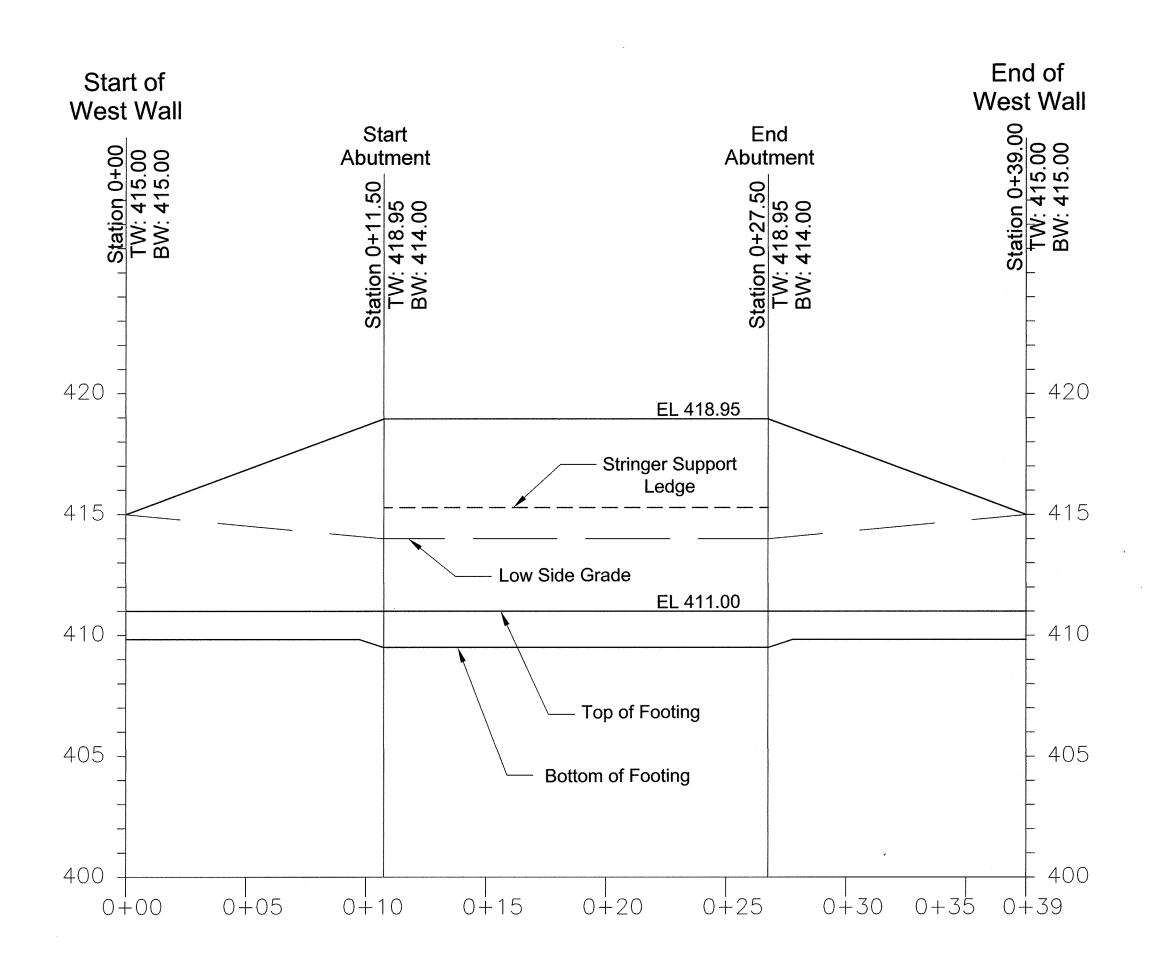




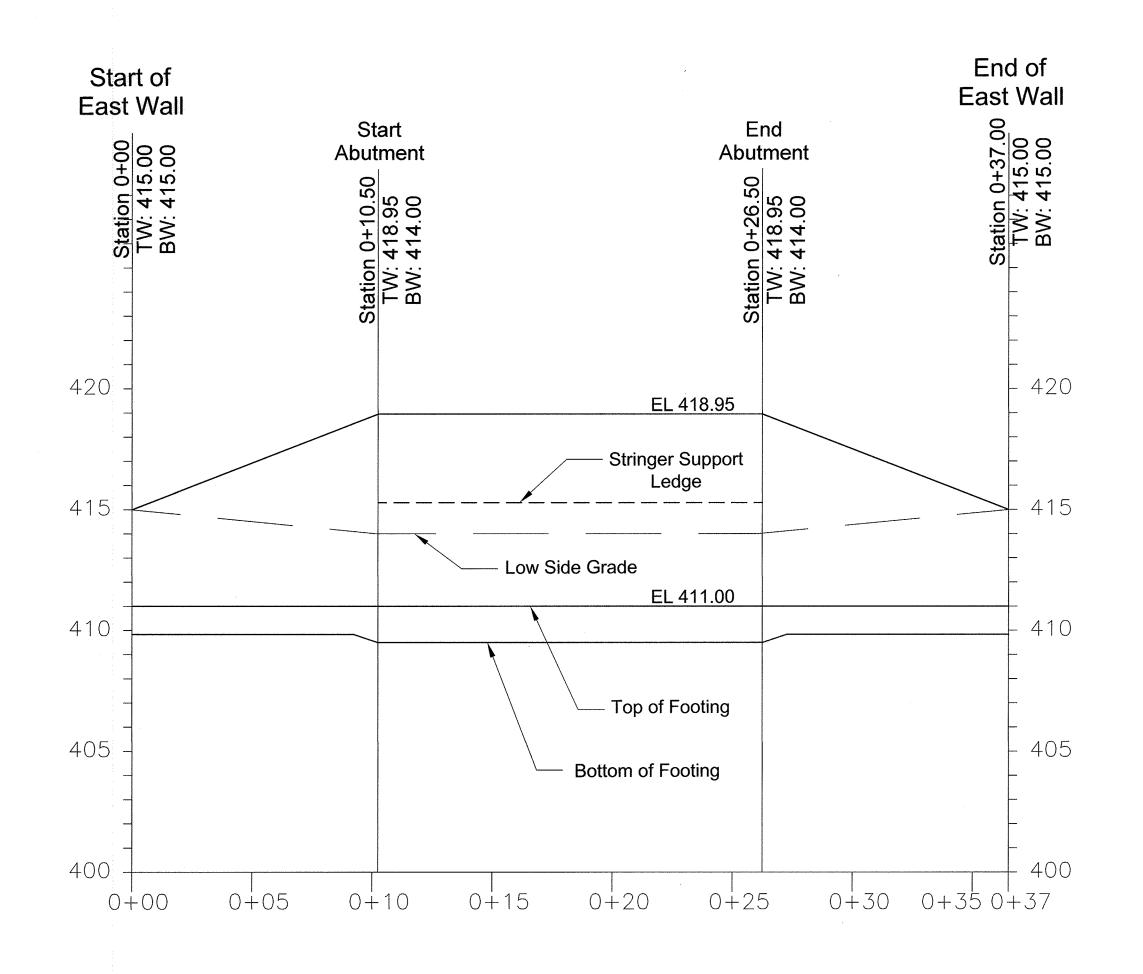




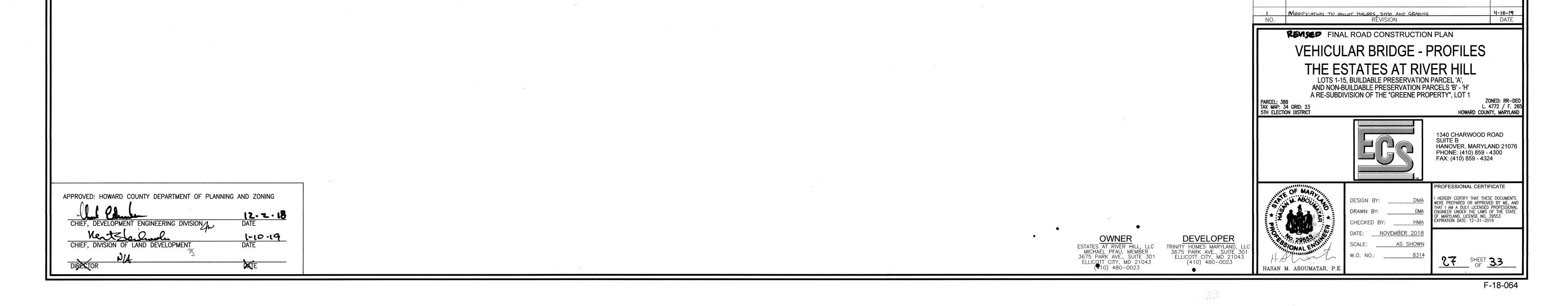


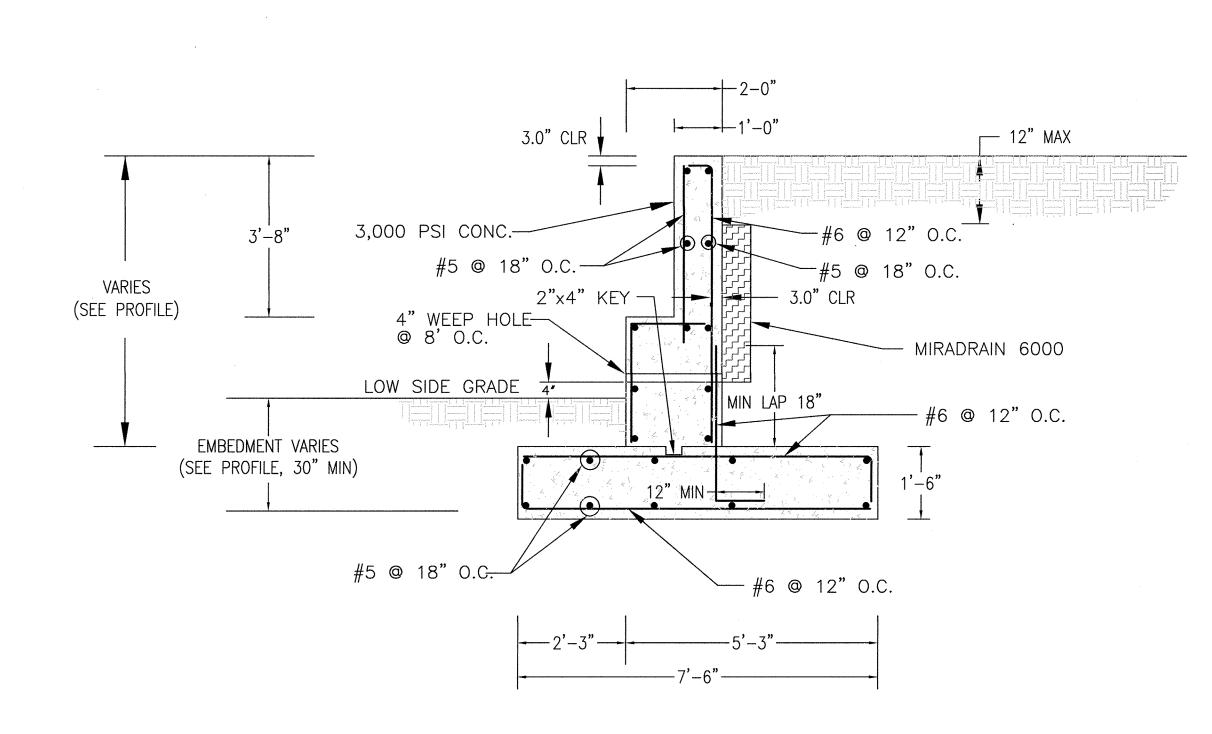


WEST WALL PROFILE SCALE: 1"=4'

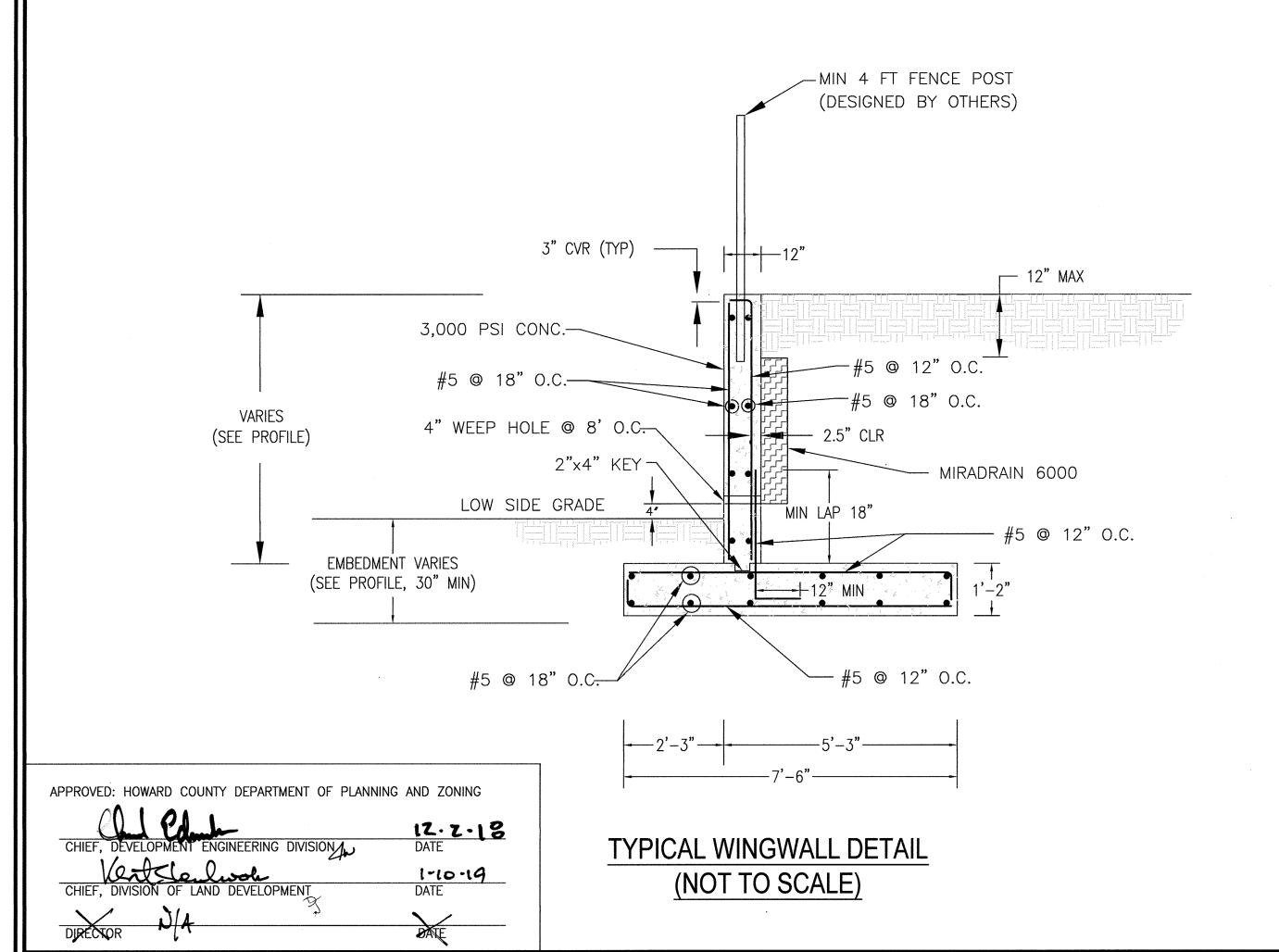


EAST WALL PROFILE SCALE: 1"=4'

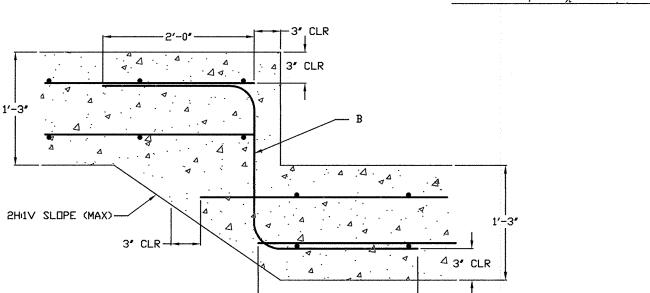




TYPICAL ABUTMENT DETAIL (NOT TO SCALE)







FOOTING STEP

NTS

Abutment and Wing Wall Specifications and Guidelines

NTS

CONSTRUCTION JOINT

OWNER

ESTATES AT RIVER HILL, LLC
MICHAEL PFAU, MEMBER
3675 PARK AVE., SUITE 301
ELLICOTT CITY, MD 21043
(410) 480-0023

DEVELOPER
TRINITY HOMES MARYLAND,
3675 PARK AVE., SUITE 3
ELLICOTT CITY, MD 2104

I MODIFICATIONS TO ONLOT HOUSES, SWIM AND GRADING 4-10-19
NO. REVISION DATE

REVISED FINAL ROAD CONSTRUCTION PLAN

VEHICULAR BRIDGE - SECTIONS & DETAILS

THE ESTATES AT RIVER HILL

LOTS 1-15, BUILDABLE PRESERVATION PARCEL 'A', AND NON-BUILDABLE PRESERVATION PARCELS 'B' - 'H' A RE-SUBDIVISION OF THE "GREENE PROPERTY", LOT 1

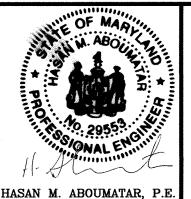
A RE-SUBDIVISION OF THE "GREENE PROPERTY", LOT 1

PARCEL: 389
TAX MAP: 34 GRID: 23
L. 4772 / F. 265
5TH ELECTION DISTRICT

A RE-SUBDIVISION OF THE "GREENE PROPERTY", LOT 1

ZONED: RR-DEO
L. 4772 / F. 265
HOWARD COUNTY, MARYLAND

1340 CHARWOOD ROAD SUITE B HANOVER, MARYLAND 21076 PHONE: (410) 859 - 4300 FAX: (410) 859 - 4324



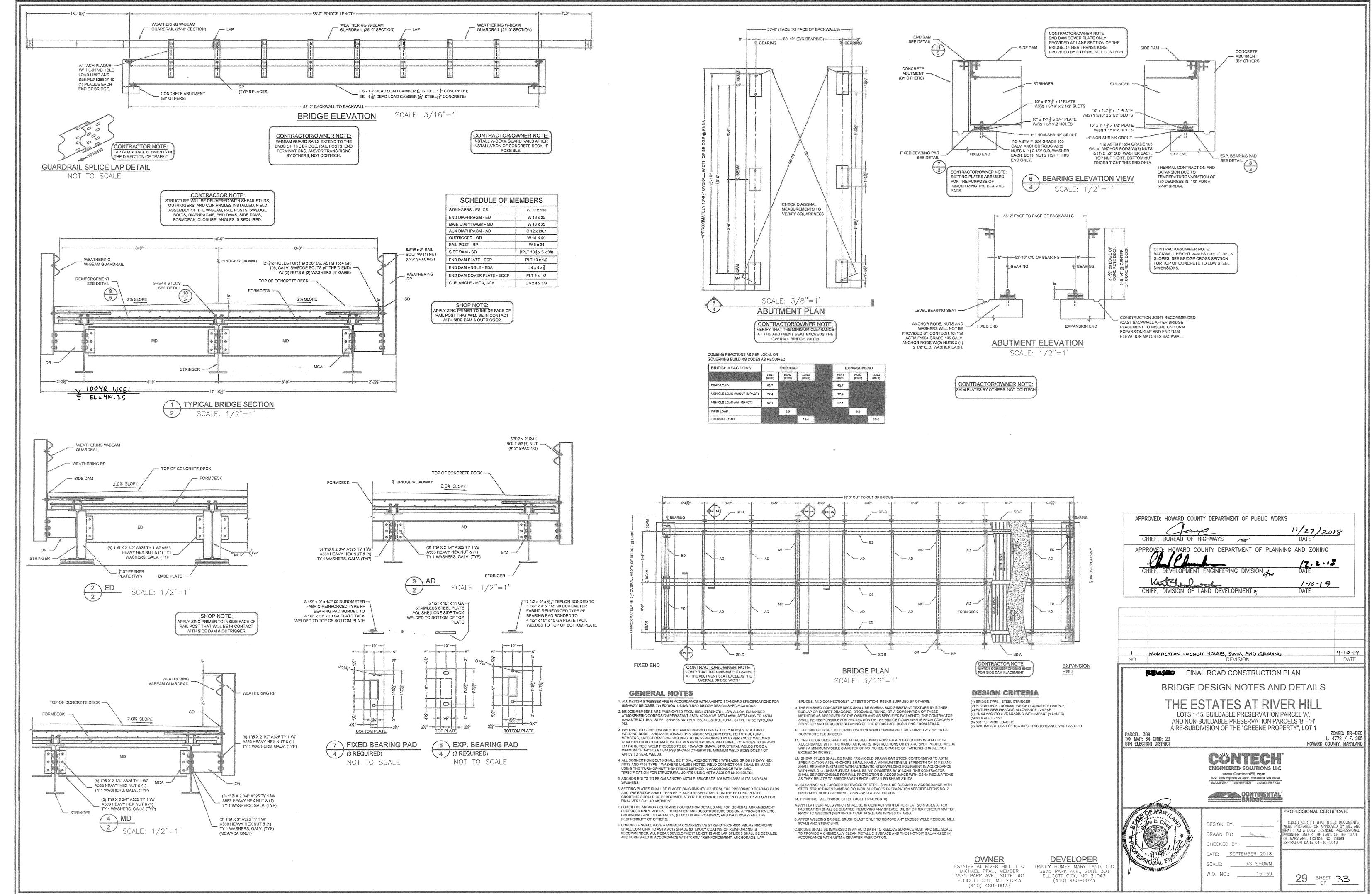
PROFESSIONAL CERTIFICATE

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. 29553 EXPIRATION DATE: 12–31–2019

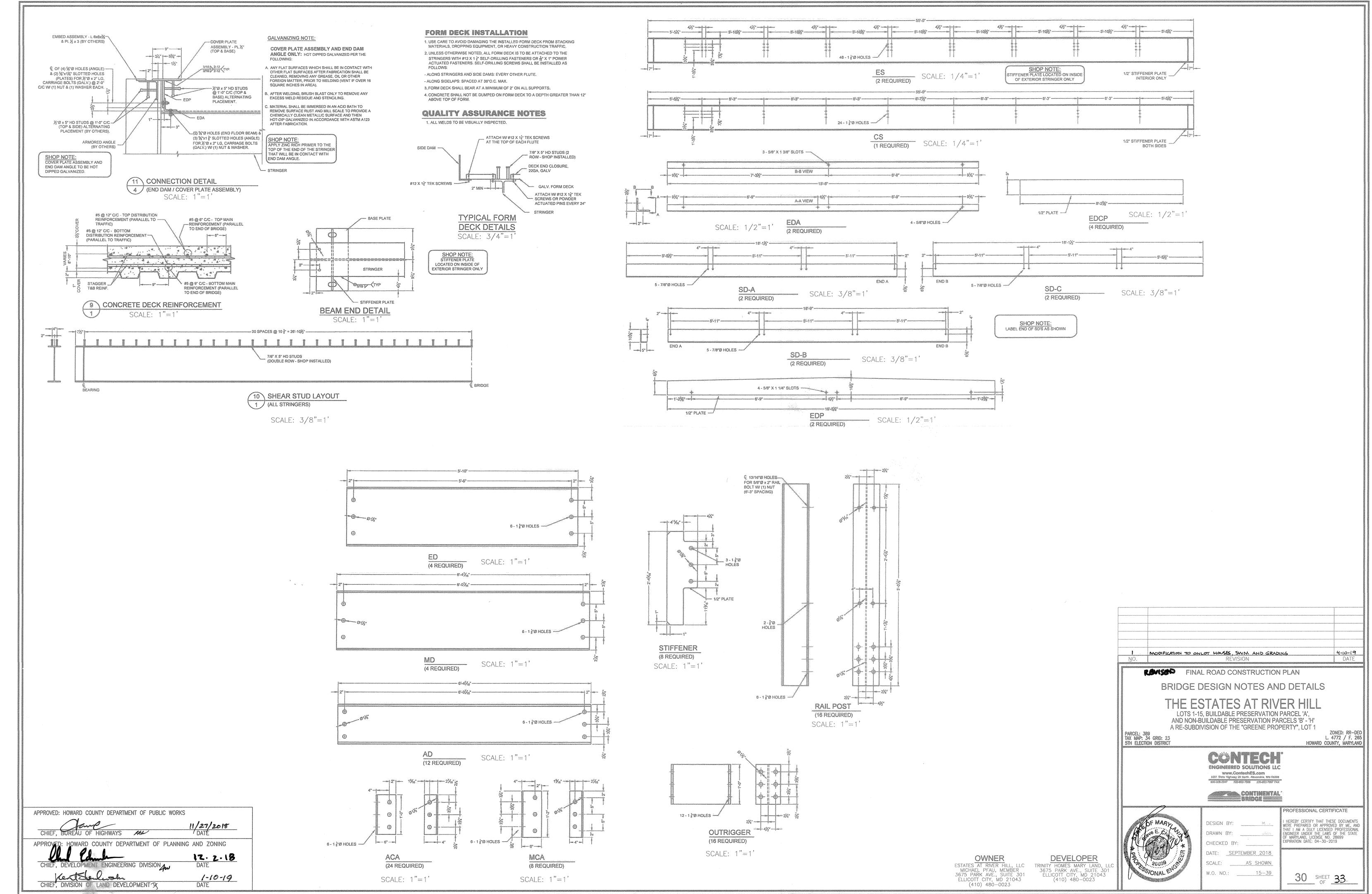
TE: NOVEMBER 2018

ALE: AS SHOWN

SHEET 33



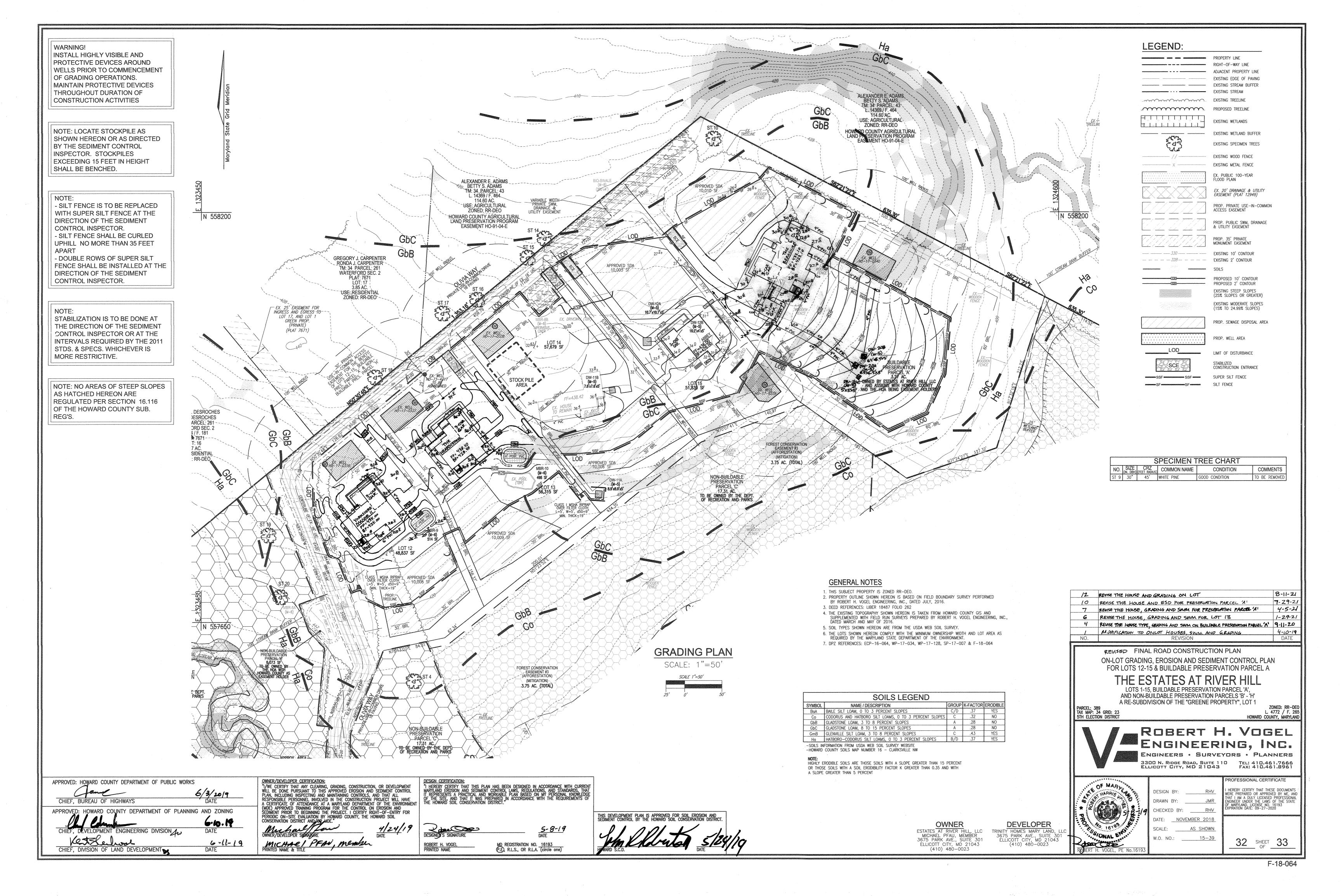
F-18-064

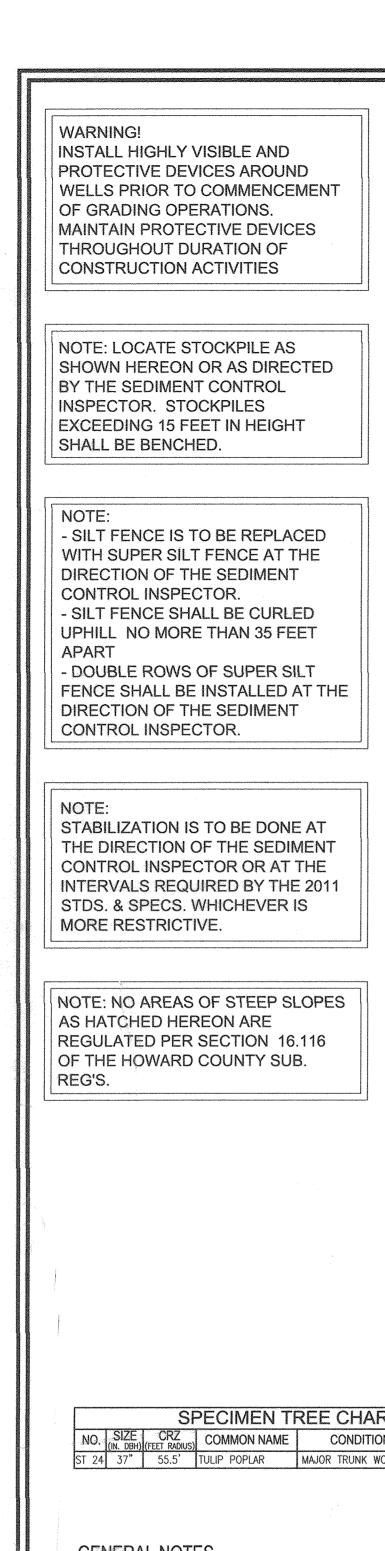


F-18-064

LEGEND: WARNING! INSTALL HIGHLY VISIBLE AND PROTECTIVE DEVICES AROUND WELLS PRIOR TO COMMENCEMENT OF GRADING OPERATIONS. MAINTAIN PROTECTIVE DEVICES THROUGHOUT DURATION OF ALEXANDER E. ADAMS. CONSTRUCTION ACTIVITIES BETTY S. ADAMS M: 34 PARCEL: 43 EXISTING TREELINE . PROPOSED TREELINE 114.60 AC. USE: AGRICULTURAL ZONED: RR-DEO HOW SD COUNTY AGRICULTURAL LAND PRESERVATION PROGRAM EASTMENT HO-91-04-E NOTE: LOCATE STOCKPILE AS SHOWN HEREON OR AS DIRECTED EXISTING SPECIMEN TREES BY THE SEDIMENT CONTROL INSPECTOR. STOCKPILES EXISTING WOOD FENCE **EXCEEDING 15 FEET IN HEIGHT** EXISTING METAL FENCE SHALL BE BENCHED. FLOOD PLAIN ALEXANDER E. ADAMS EX. 20' DRAINAGE & UTILITY EASEMENT (PLAT 12949) 114.60 AC. PROP. PRIVATE USE-IN-COMMON ACCESS EASEMENT - SILT FENCE IS TO BE REPLACED USE: AGRICULTURAL ZONED: RR-DEO WITH SUPER SILT FENCE AT THE HOWARD COUNTY AGRICULTURA LAND PRESERVATION PROGRAM N 558200 DIRECTION OF THE SEDIMENT PROP. PUBLIC SWM, DRAINAGE & UTILITY EASEMENT EASEMENT HO-91-04-E CONTROL INSPECTOR. - SILT FENCE SHALL BE CURLED UPHILL NO MORE THAN 35 FEET MONUMENT EASEMENT APART EXISTING 10' CONTOUR GREGORY J. CARPENTER RONDA J. CARPENTER - DOUBLE ROWS OF SUPER SILT EXISTING 2' CONTOUR FENCE SHALL BE INSTALLED AT THE TM: 34 PARCEL: 261 DIRECTION OF THE SEDIMENT PROPOSED 10' CONTOUR CONTROL INSPECTOR. PROPOSED 2' CONTOUR EXISTING STEEP SLOPES USE: RESIDENTIAL (25% SLOPES OR GREATER) ZONED: RR-DEO EXISTING MODERATE SLOPES EX. 25' EASEMENT FOR INGRESS AND EGRESS TO-(15% TO 24.99% SLOPES) NOTE: STABILIZATION IS TO BE DONE AT PROP. SEWAGE DISPOSAL AREA THE DIRECTION OF THE SEDIMENT (PLAT 7671) CONTROL INSPECTOR OR AT THE PROP. WELL AREA **INTERVALS REQUIRED BY THE 2011** STDS. & SPECS. WHICHEVER IS LIMIT OF DISTURBANCE MORE RESTRICTIVE. STABILIZED CONSTRUCTION ENTRANCE SUPER SILT FENCE SILT FENCE NOTE: NO AREAS OF STEEP SLOPES AS HATCHED HEREON ARE REGULATED PER SECTION 16.116 OF THE HOWARD COUNTY SUB. . DESROCHES DESROCHES ARCEL: 261 ORD SEC. 2 SIDENTIAL (MITIGATION) SPECIMEN TREE CHART 3.75 AC. (TOTAL) NO. SIZE CRZ COMMON NAME
ST 9 30" 45' WHITE PINE COMMENTS CONDITION NON-BUILDABLE PRESERVATION PARCEL 'C' 17.31 AC. GOOD CONDITION TO BE REMOVED TO BE OWNED BY THE DEPT. OF RECREATION AND PARKS **GENERAL NOTES** 1. THIS SUBJECT PROPERTY IS ZONED RR-DEO. 2. PROPERTY OUTLINE SHOWN HEREON IS BASED ON FIELD BOUNDARY SURVEY PERFORMED BY ROBERT H. VOGEL ENGINEERING, INC., DATED JULY, 2016. 3. DEED REFERENCES: LIBER 18487 FOLIO 262 4-5-21 7 REVISE THE HOUSE, GRADING AND SWIM FOR PRESERVATION PARCEL'A 4. THE EXISTING TOPOGRAPHY SHOWN HEREON IS TAKEN FROM HOWARD COUNTY GIS AND SUPPLEMENTED WITH FIELD RUN SURVEYS PREPARED BY ROBERT H. VOGEL ENGINEERING, INC., DATED MARCH AND MAY OF 2016. 1-29-21 6 REVISE THE HOUSE, GRADING AND SWM FOR LOT 13 REVISE THE HOUSE TYPE, GRADING AND SWM ON BUILDABLE PRESERVATION PARCEL A' 9-11-20 5. SOIL TYPES SHOWN HEREON ARE FROM THE USDA WEB SOIL SURVEY. MODIFICATION TO ONLOT HOUSES, SWIM AND GRAPING 4-10-19 6. THE LOTS SHOWN HEREON COMPLY WITH THE MINIMUM OWNERSHIP WIDTH AND LOT AREA AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT. DATE 7. DPZ REFERENCES: ECP-16-064, WP-17-034, WP-17-128, SP-17-007 & F-18-064 **GRADING PLAN** REUSED FINAL ROAD CONSTRUCTION PLAN ON-LOT GRADING, EROSION AND SEDIMENT CONTROL PLAN SCALE: 1"=50' FOR LOTS 12-15 & BUILDABLE PRESERVATION PARCEL A FOREST CONSERVATION
EASEMENT #3
(AFFORESTATION) SCALE 1"=50' THE ESTATES AT RIVER HILL (MITIGATION) 3.75 AC. (TOTAL) LOTS 1-15, BUILDABLE PRESERVATION PARCEL 'A', AND NON-BUILDABLE PRESERVATION PARCELS 'B' - 'H' SOILS LEGEND A RE-SUBDIVISION OF THE "GREENE PROPERTY", LOT 1 GROUP K-FACTOR ERODIBLE NAME / DESCRIPTION ZONED: RR-DEO L. 4772 / F. 265 HOWARD COUNTY, MARYLAND PARCEL: 389 TAX MAP: 34 GRID: 23 5TH ELECTION DISTRICT BaA BAILE SILT LOAM, 0 TO 3 PERCENT SLOPES CODORUS AND HATBORO SILT LOAMS, 0 TO 3 PERCENT GbB GLADSTONE LOAM, 3 TO 8 PERCENT SLOPES GLADSTONE LOAM, 8 TO 15 PERCENT SLOPES ROBERT H. VOGEL GMB GLENVILLE SILT LOAM, 3 TO 8 PERCENT SLOPES HATBORO-CODORUS SILT LOAMS, 0 TO 3 PERCENT SLOPES ENGINEERING, INC. -SOILS INFORMATION FROM USDA WEB SOIL SURVEY WEBSITE -HOWARD COUNTY SOILS MAP NUMBER 16 - CLARKSVILLE NW ENGINEERS . SURVEYORS . PLANNERS NOTE:
HIGHLY ERODIBLE SOILS ARE THOSE SOILS WITH A SLOPE GREATER THAN 15 PERCENT
OR THOSE SOILS WITH A SOIL ERODIBILITY FACTOR K GREATER THAN 0.35 AND WITH 3300 N. RIDGE ROAD, SUITE 110 TEL: 410.461.7666 ELLICOTT CITY, MD 21043 FAX: 410.461.8961 A SLOPE GREATER THAN 5 PERCENT PROFESSIONAL CERTIFICATE OWNER/DEVELOPER CERTIFICATION: APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS DESIGN CERTIFICATION: OWNER/DEVELOPER CERTIFICATION:

"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 ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A MARYLAND DEPARTMENT OF THE ENVIRONMENT (MDE) APPROVED TRAINING PROGRAM FOR THE CONTROL ON EROSION AND SEDIMENT PRIOR TO BEGINNING THE PROJECT. I CERTIFY RIGHT—OF—ENTRY FOR PERIODIC ON—SITE EVALUATION BY HOWARD COUNTY, THE HOWARD SOIL CONSERVATION DISTRICT AND OR MDE." 6/3/2019 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. 16193 EXPIRATION DATE: 09-27-2020 CHIEF, BUREAU OF HIGHWAYS CHECKED BY: APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING DATE: NOVEMBER 2018 **DEVELOPER** HIEF, DEVELOPMENT ENGINEERING DIVISION A SCALE: AS SHOWN ESTATES AT RIVER HILL, LLC MICHAEL PFAU, MEMBER 3675 PARK AVE., SUITE 301 TRINITY HOMES MARY LAND 3675 PARK AVE., SUITE 301 ELLICOTT CITY, MD 21043 (410) 480-0023 CHIEF, DIVISION OF LAND DEVELOPMENT W.O. NO.: 15-39 32 SHEET 33 MD REGISTRATION NO. 16193 (P.E), R.L.S., OR R.L.A. (circle one) ELLICOTT CITY, MD 21043 (410) 480-0023





	SPECIMEN TREE CHART								
NO.	SIZE (IN. DBH)	CRZ (FEET RADIUS)	COMMON NA	AME	COI	NOITION	(COMME	VTS
ST 24	37"	55.5'	TULIP POPLAR	٨	MAJOR TR	UNK WOUNE) TO	BE REM	IOVED
GE	NERA	L NOTE	<u>ES</u>						
	r		IS ZONED RR- IN HEREON IS		ON FIELD	BOUNDARY	SURVEY	PERFOR	MED

BY ROBERT H. VOGEL ENGINEERING, INC., DATED JULY, 2016. 3. DEED REFERENCES: LIBER 18487 FOLIO 262 4. THE EXISTING TOPOGRAPHY SHOWN HEREON IS TAKEN FROM HOWARD COUNTY GIS AND SUPPLEMENTED WITH FIELD RUN SURVEYS PREPARED BY ROBERT H. VOGEL ENGINEERING, INC.,

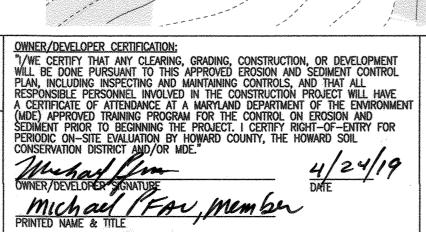
DATED MARCH AND MAY OF 2016.

5. SOIL TYPES SHOWN HEREON ARE FROM THE USDA WEB SOIL SURVEY. 6. THE LOTS SHOWN HEREON COMPLY WITH THE MINIMUM OWNERSHIP WIDTH AND LOT AREA AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT. 7. DPZ REFERENCES: ECP-16-064, WP-17-034, WP-17-128, SP-17-007 & F-18-064

SOILS LEGEND						
SYMBOL	NAME / DESCRIPTION	GROUP	K-FACTOR	ERODIBLE		
BaA	BAILE SILT LOAM, O TO 3 PERCENT SLOPES	C/D	.37	YES		
Со	CODORUS AND HATBORO SILT LOAMS, O TO 3 PERCENT SLOPES	С	.32	NO		
GbB	GLADSTONE LOAM, 3 TO 8 PERCENT SLOPES	A.	.28	NO		
GbC	GLADSTONE LOAM, 8 TO 15 PERCENT SLOPES	A	.28	NO		
GmB	GLENVILLE SILT LOAM, 3 TO 8 PERCENT SLOPES	С	.43	YES		
Ha	HATBORO-CODORUS SILT LOAMS, 0 TO 3 PERCENT SLOPES	B/D	.37	YES		
	FORMATION FROM USDA WEB SOIL SURVEY WEBSITE COUNTY SOILS MAP NUMBER 16 — CLARKSVILLE NW		, d			

NOTE:
HIGHLY ERODIBLE SOILS ARE THOSE SOILS WITH A SLOPE GREATER THAN 15 PERCENT OR THOSE SOILS WITH A SOIL ERODIBILITY FACTOR K GREATER THAN 0.35 AND WITH

A SLOPE GREATER THAN 5 PERCENT APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS 6/3/2019 DATE CHIEF, BUREAU OF HIGHWAYS APPROVED HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING 6.4.19 CHIEF, DIVISION OF LAND DEVELOPMENT 6-11-19



N 556700

FOREST CONSERVATION EASEMENT #3

(AFFORESTATION)

(MITIGATION)

3.75 AC. (TOTAL)

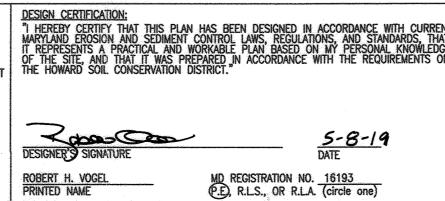
RETENTION)

P/O FOREST CONSERVATION EASEMENT #2 12.79 AC. (TOTAL)

8.99 AC. (TOTAL RETENTION)

5.17 AC. (CREDITED RETENTION) 3.82 AC: (NON-CREDITED RETENTION)

3.80 AC. (TOTAL AFFORESTATION)/



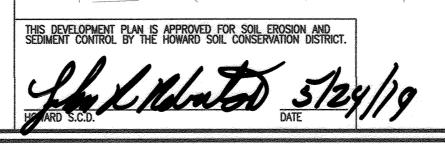
G. WARREN MILES MARIÉ I. MILES

TM: 34 PARCEL: 252 L. 1285 / F. 393

11.00 AC. USE: AGRICULTURAL

ZONED: RR-DEO

NOBLE WAY
PRIVATE USE-IN-COMMON DRIVE
16' PAVING



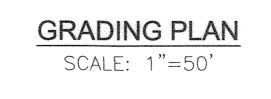
8.99 AC (TOTAL RETENTION)

\5.17 AC. (CREDITED RETENTION)

3,82 AC. (NON-CREDITED RETENTION)

3.80 AC. (TOTAL AFFORESTATION)

, 0.50 AC. (FCE-#2)



ESTATES AT RIVER HILL, LLC MICHAEL PFAU, MEMBER 3675 PARK AVE., SUITE 301 ELLICOTT CITY, MD 21043 (410) 480-0023

TM: 34 PARCEL: 393 VAN'T-HOFF PROP.

_. 11510 / F. 004

PLAT-12949

USE: RESIDENTIAL ZONED: RR-DEO

RUDOLF VAN'T HOFF

KATHRYN VAN'T HOFF TM: 34 PARCEL: 393

VAN'T HOFF PROP. L-10474 / F. 202

USE: RESIDENTIAL

ZONED: RR-DEO

SOOSAN SHAHROKH TM: 34 PARCEL: 393 VAN'T HOFF PROP.

PLAT: 12949 LOT: 2 3/45 AC.

USE: RESIDENTIAL ZONED: RR-DEO

JINGLI YANG

PETER H. LI

TM: 34 PARCEL: 393

VAN'T HOFF PROP

L. 115107F. 001

PLAT: 12949

USE: RESIDENTIAL ZONED: RR-DEO

USE-IN-COMMON ACCESS EASEMENT FOR LOTS 1-4

(PLAT 12949)

ELISABETH'C, LOZINSKY TM: 34 PARCEL: 393

VAN'T HOFF PROP.

PLAT: 20374

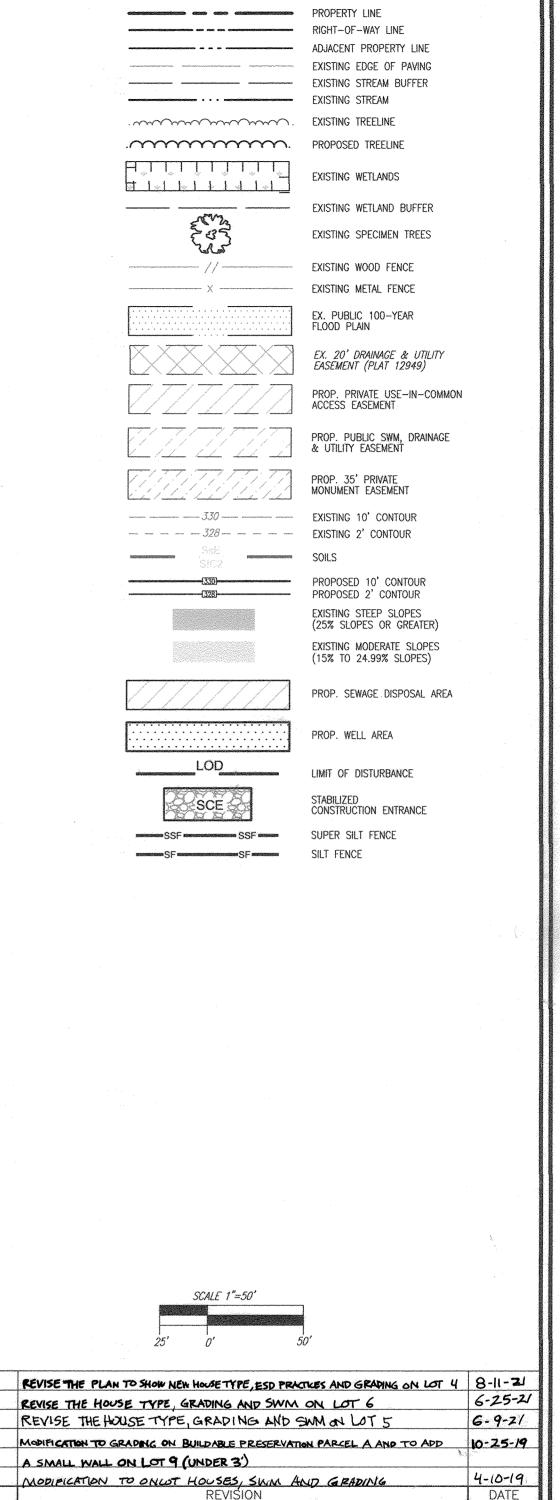
LOT: 5 4.88 AC.

USE: RESIDENTIAL

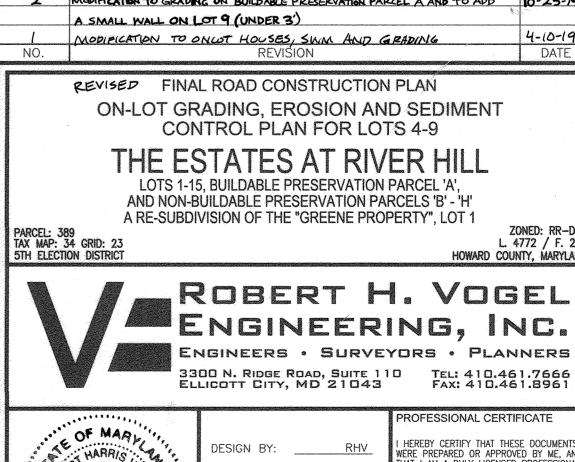
ZONED: RR-DEO',

(410) 480-0023

N 556700



LEGEND:



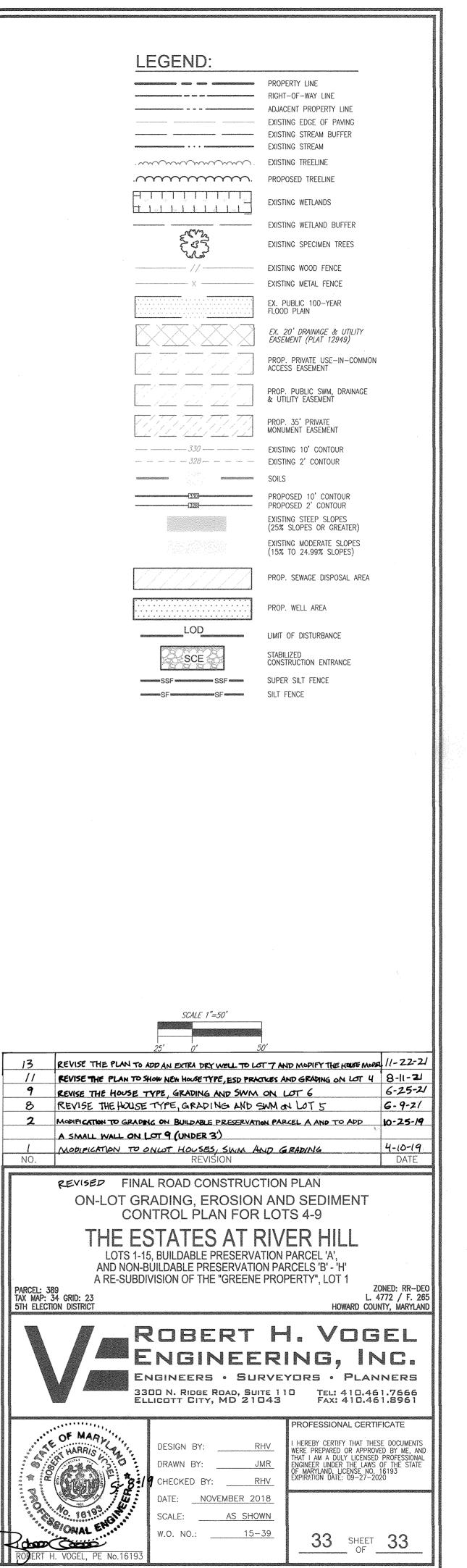
HEREBY CERTIFY THAT THESE DOCUMENTS
WERE PREPARED OR APPROVED BY ME, AND
THAT I AM A DULY LICENSED PROFESSIONAL
ENGINEER UNDER THE LAWS OF THE STATE
OF MARYLAND, LICENSE NO. 16193
EXPIRATION DATE: 09-27-2020 W.O. NO.: 15-39 SHEET 33

ZONED: RR-DEO L. 4772 / F. 265

HOWARD COUNTY, MARYLAND

WARNING! INSTALL HIGHLY VISIBLE AND PROTECTIVE DEVICES AROUND WELLS PRIOR TO COMMENCEMENT OF GRADING OPERATIONS. MAINTAIN PROTECTIVE DEVICES THROUGHOUT DURATION OF CONSTRUCTION ACTIVITIES

MAINTAIN PROTECTIVE DEVICES THROUGHOUT DURATION OF CONSTRUCTION ACTIVITIES	FOREST CONSERVATION FOREST	
NOTE: LOCATE STOCKPILE AS SHOWN HEREON OR AS DIRECTED BY THE SEDIMENT CONTROL INSPECTOR. STOCKPILES EXCEEDING 15 FEET IN HEIGHT SHALL BE BENCHED.	THEREINE THEREI	7, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,
NOTE: - SILT FENCE IS TO BE REPLACED WITH SUPER SILT FENCE AT THE DIRECTION OF THE SEDIMENT CONTROL INSPECTOR SILT FENCE SHALL BE CURLED UPHILL NO MORE THAN 35 FEET APART - DOUBLE ROWS OF SUPER SILT FENCE SHALL BE INSTALLED AT THE DIRECTION OF THE SEDIMENT CONTROL INSPECTOR.	VATION USE STATE NON-BUILDABLE PRESSENTATION RETERION RE	
NOTE: STABILIZATION IS TO BE DONE AT THE DIRECTION OF THE SEDIMENT CONTROL INSPECTOR OR AT THE INTERVALS REQUIRED BY THE 2011 STDS. & SPECS. WHICHEVER IS MORE RESTRICTIVE.	TO BE OWNED BY THE DEPT POOP PETER H. U. This 34 PARCEL: 383 PLAT: 12949 PLAT:	
NOTE: NO AREAS OF STEEP SLOPES AS HATCHED HEREON ARE REGULATED PER SECTION 16.116 OF THE HOWARD COUNTY SUB. REG'S.	3.82 AC. (NON-CREDITED RETENTION) 3.80 AC. (TOTAL AFFORESTATION) SET 10,000 SE	
	APPROVED SDA 10,014 SF 10,	7.7.7. <u>7</u>
SPECIMEN TREE CHART NO. SIZE CRZ COMMON NAME CONDITION COMMENTS ST 24 37" 55.5' TULIP POPLAR MAJOR TRUNK WOUND TO BE REMOVED	OD BE OWNED BY THE DEPT OF RECREATION AND PARKS OF RECREATION AND PARK	
GENERAL NOTES 1. THIS SUBJECT PROPERTY IS ZONED RR-DEO. 2. PROPERTY OUTLINE SHOWN HEREON IS BASED ON FIELD BOUNDARY SURVEY PERFORMED BY ROBERT H. VOGEL ENGINEERING, INC., DATED JULY, 2016. 3. DEED REFERENCES: LIBER 18487 FOLIO 262 4. THE EXISTING TOPOGRAPHY SHOWN HEREON IS TAKEN FROM HOWARD COUNTY GIS AND SUPPLEMENTED WITH FIELD RUN SURVEYS PREPARED BY ROBERT H. VOGEL ENGINEERING, INC., DATED MARCH AND MAY OF 2016. 5. SOIL TYPES SHOWN HEREON ARE FROM THE USDA WEB SOIL SURVEY. 6. THE LOTS SHOWN HEREON COMPLY WITH THE MINIMUM OWNERSHIP WIDTH AND LOT AREA AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT. 7. DPZ REFERENCES: ECP-16-064, WP-17-034, WP-17-128, SP-17-007 & F-18-064	CN-TOAM PRIVATE USE INCOMMON DRIVE 16 PAVING. STOCK PILE 183-48-48-60 STOCK PILE 183-48-60 STOCK PILE 183-60 STOCK PILE 183-6	
SOILS LEGEND SYMBOL NAME / DESCRIPTION GROUP K-FACTOR ERODIBLE BOA BAILE SILT LOAM, 0 TO 3 PERCENT SLOPES C /D .37 YES CO CODORUS AND HATBORO SILT LOAMS, 0 TO 3 PERCENT SLOPES C .32 NO GBB GLADSTONE LOAM, 3 TO 8 PERCENT SLOPES A .28 NO GBC GLADSTONE LOAM, 8 TO 15 PERCENT SLOPES A .28 NO GMB GLENVILLE SILT LOAM, 3 TO 8 PERCENT SLOPES A .28 NO GMB GLENVILLE SILT LOAM, 3 TO 8 PERCENT SLOPES A .28 NO GMB GLENVILLE SILT LOAM, 3 TO 8 PERCENT SLOPES C .43 YES Ha HATBORO-CODORUS SILT LOAMS, 0 TO 3 PERCENT SLOPES B/D .37 YES -SOILS INFORMATION FROM USDA WEB SOIL SURVEY WEBSITE -HOWARD COUNTY SOILS MAP NUMBER 16 - CLARKSVILLE NW NOTE: HIGHLY ERODIBLE SOILS ARE THOSE SOILS WITH A SLOPE GREATER THAN 15 PERCENT	G. WARREN MILES INVA 19 PARCEL 25 L. 1285 F, 393 L.	PA TA 5TI
OR THOSE SOILS WITH A SOIL ERODIBILITY FACTOR K GREATER THAN 0.35 AND WITH A SLOPE GREATER THAN 5 PERCENT APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS CHIEF, BUREAU OF HIGHWAYS APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING 6.6.19	OWNER/DEVELOPER CERTIFICATION: "I/WE CERTIFY THAT ANY CLEARING, GRADING, CONSTRUCTION, OR DEVELOPMENT WILL BE DONE PURSUANT TO THIS APPROVED EROSION AND SEDIMENT CONTROL LAWS, REGULATIONS, AND STANDARDS. THAT PLAN INCLUDING INSPECTING AND MAINTAINING CONTROL HAVE A CERTIFICATION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A MARYLAND DEPARTMENT OF THE EMAINTONION OF THE CONSTRUCTION AND SEDIMENT OF THE EMAINTONION OF THE CONTROL THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE STIE, AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE STIE, AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE CONTROL OF THE STIE, AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE STIE, AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE STIE, AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE STIE, AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE STIE, AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE STIE, AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE STIE, AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE STIE, AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.	
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE Ved Sle Dush CHIEF, DIVISION OF LAND DEVELOPMENT DATE	When the first owner/developer genature above the printed name & title Conservation district aguly or mide. 4/24/19 2 - 4/19	LLC 301 3



TM: 34 PARCEL: 393 VAN'T-HOFF PROP.

L. 11510 / F. 001 PLAT: 12949