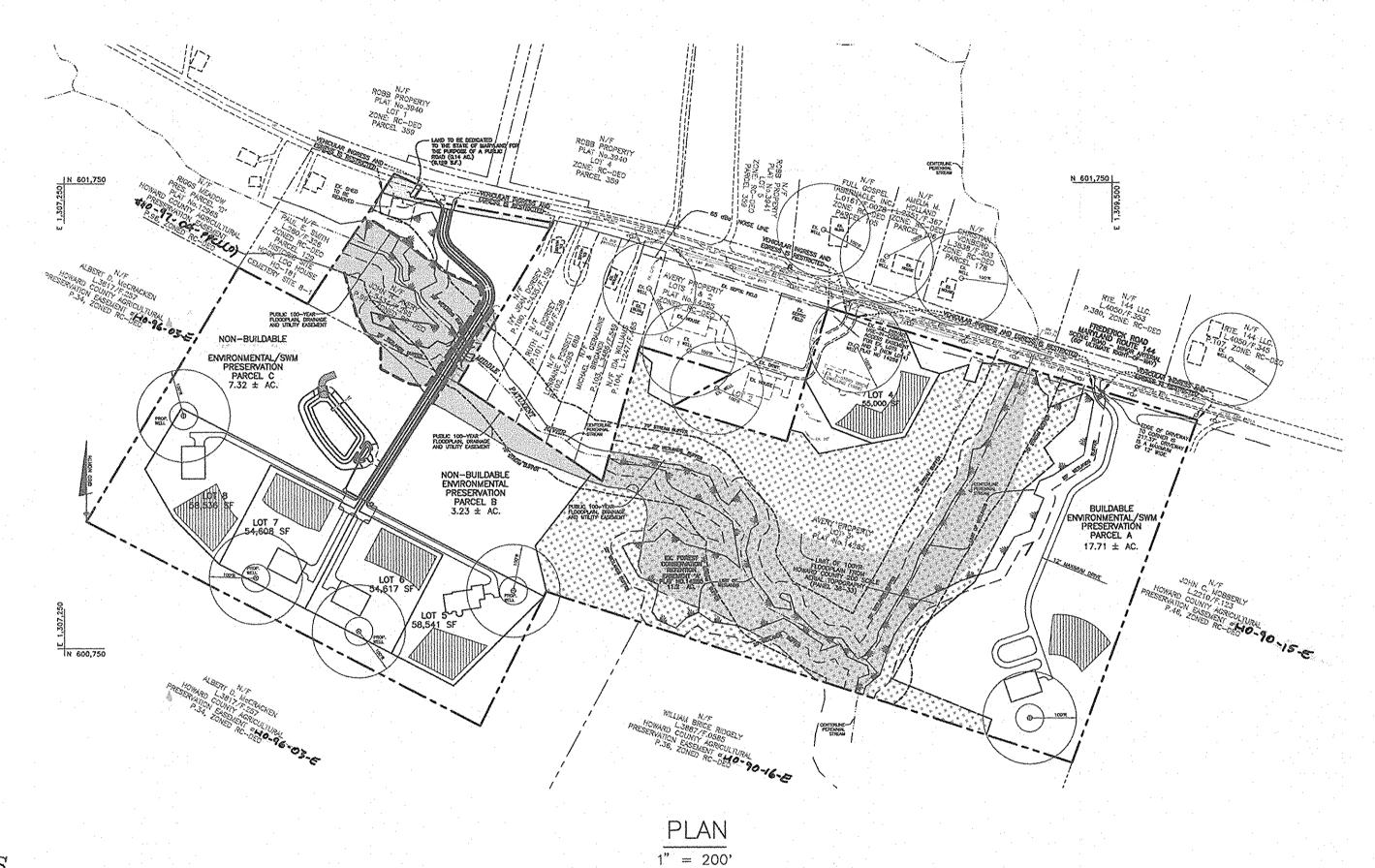
AVERY PROPERTY

4th ELECTION DISTRICT, HOWARD COUNTY, MARYLAND FINAL ROAD, STORMWATER MANAGEMENT AND STORM DRAIN CONSTRUCTION PLANS



GENERAL NOTES

- 1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST STANDARD AND SPECIFICATIONS OF HOWARD COUNTY PLUS MSHA STANDARDS AND SPECIFICATIONS, IF APPLICABLE.
- 2. THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF PUBLIC WORK/CONSTRUCTION INSPECTION DIVISION AT 410-313-1880 AT LEAST FIVE (5) WORKING DAYS PRIOR TO THE START OF WORK.
- 3. THE CONTRACTOR SHALL NOTIFY "MISS UTILITY" AT 1-800-257-7777 AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION WORK.
- 4. TRAFFIC CONTROL DEVICES, MARKINGS AND SIGNING SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD). ALL STREET AND REGULATORY SIGNS SHALL BE IN PLACE PRIOR TO THE PLACEMENT OF ANY ASPHALT.
- 5. ALL ASPECTS OF THIS PROJECT SHALL BE IN CONFORMANCE WITH THE LATEST HOWARD COUNTY STANDARDS UNLESS WAIVER(S) HAVE BEEN APPROVED.
- 6. PRIVATE WATER AND PRIVATE SEWER SYSTEMS SHALL BE PROVIDED FOR THIS DEVELOPMENT.
- 7. THE BOUNDARY SHOWN IS BASED ON SURVEY PERFORMED BY BENCHMARK ENGINEERING, INC., DATED
- 8. TOPOGRAPHIC SURVEY PERFORMED BY BENCHMARK ENFINEERING, INC., DATED FEBRUARY, 2002.
- 9. HORIZONTAL AND VERTICAL DATUMS FOR THIS PLAN ARE BASED UPON THE MARYLAND STATE PLANE COORDINATE SYSTEM NAD-83 AS PROJECTED FORM HOWARD COUNTY CONTROL POINTS 08IB AND 08FA.
- 10. NO DISTURBANCE SHALL OCCUR WITHIN WETLANDS, WETLAND BUFFERS, STREAMS, STREAM BUFFERS OR 100-YEAR FLOODPLAINS EXCEPT FOR THE USE-IN-COMMON ACCESS CROSSING AND AS AUTHORIZED BY
- WP-00-53.
- 11. TRAFFIC STUDY PREPARED BY THE TRAFFIC GROUP, INC. IN APRIL, 2001 AND APPROVED BY UNDER S-01-28.

 12. WETLAND STUDY AND A JOINT FOREST STAND DELINEATION & FOREST CONSERVATION PLAN WERE PREPARED
- BY ECO-SCIENCE PROFESSIONALS, INC. IN APRIL, 2001 AND APPROVED UNDER S-01-28.

 13. ALL LANDSCAPING REQUIREMENTS, AS SET FORTH IN THE LANDSCAPE MANUAL, SHALL BE FULFILLED.
- 14. A SIGHT DISTANCE ANALYSIS BASED ON STATE HIGHWAY ADMINISTRATION CRITERIA HAS BEEN PERFORMED
- AND APPROVAL FOR THIS PROJECT. SIGHT DISTANCE HAS BEEN APPROVED BY MSHA.

 15. 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-OF-WAY AND NOT TO THE PIPESTEM LOT DRIVEWAY.

 16. THIS PROPERTY IS NOT WITHIN THE METROPOLITAN DISTRICT.
- 17. STORMWATER MANAGEMENT SHALL BE PROVIDED FOR THIS PROJECT BASED ON GUIDELINES ESTABLISHED BY THE 2000 MARYLAND STORMWATER DESIGN MANUAL VOLUMES I & II. STRUCTURAL AND NON-STRUCTURAL PRACTICES ARE UTILIZED TO FULFILL STORMWATER MANAGEMENT REQUIREMENTS. STRUCTURAL STORMWATER MANAGEMENT IS PROVIDED BY A MICRO POOL ED FACILITY LOCATED ON PRESERVATION PARCEL 'C'. THIS FACILITY IS TO BE PRIVATELY OWNED AND TO BE PRIVATELY MAINTAINED BY THE HOMEOWNERS ASSOC.
- 18. TO THE BEST OF OUR KNOWLEDGE, THERE ARE NO CEMETERY LOCATIONS ON-SITE.
- 19. SEDIMENT CONTROL SHALL BE PROVIDED FOR THIS PROJECT.
- 20. STREET LIGHTS ARE NOT REQUIRED FOR THIS PROJECT AS IT IS IN THE RC ZONING DISTRICT.

- 21. THE 100-YEAR FLOODPLAIN LIMITS SHOWN ARE TAKEN FROM INFORMATION PROVIDED IN THE CATTAIL CREEK WATERSHED STUDY, CAPITAL PROJECT #D-1079 DATED JUNE, 1994. THE LIMITS AND CROSS SECTION INFORMATION WAS OBTAINED THROUGH THE HOWARD COUNTY DEPT. OF PUBLIC WORKS TRANSPORTATION AND WATERSHED DIVISION'S GIS NETWORK. A MORE DETAILED STUDY IS PROVIDED FOR THE FLOODPLAIN THAT CROSSES PARCEL 99 TO DETERMINE THE IMPACT OF THE CULVERT ON THE 100-YEAR FLOODPLAIN WATER SURFACE ELEVATION. THERE IS NO INCREASE OF WATER SURFACE ELEVATION ON THE SMITH PROPERTY, PARCEL 129.
- 22. THE PURPOSE OF PRESERVATION PARCEL 'B' SHALL BE ENVIRONMENTAL PRESERVATION EASEMENT AREA THAT WILL SERVE AS A CONTINUATION OF THE EXISTING EASEMENTS ON ADJACENT PARCELS AS WELL AS PROVIDE BUFFER AREAS FOR THE PROPOSED CLUSTER LOTS FROM THE ROADWAY AND ADJACENT PROPERTIES. PRESERVATION PARCEL 'B' WILL BE PRIVATELY OWNED WITH HOWARD COUNTY AND THE HOMEOWNER'S ASSOCIATION AS THE EASEMENT HOLDERS.
- 23. THE PURPOSE OF PRESERVATION PARCELS 'A' AND 'C' SHALL BE ENVIRONMENTAL/SWM PRESERVATION EASEMENT AREAS THAT WILL SERVE AS BUFFER AREAS FOR THE PROPOSED CLUSTER LOTS FROM THE ROADWAY AND ADJACENT PROPERTIES. PRESERVATION PARCELS 'A' AND 'C' ARE TO BE PRIVATELY OWNED WITH THE HOMEOWNERS ASSOCIATION AND HOWARD COUNTY AS THE EASEMENT HOLDERS. PRESERVATION PARCELS 'A' AND 'C' SHALL SERVE AS AREAS TO ENCOMPASS THE PROPOSED STORMWATER MANAGEMENT PRACTICES, FOREST CONSERVATION AND OTHER USES. PRESERVATION PARCEL 'A' IS A BUILDABLE ENVIRONMENTAL/SWM PRESERVATION PARCEL CONTAINING 11.2 ACRES OF FOREST CONSERVATION EASEMENT AND ADDITIONAL WETLANDS, WETLAND BUFFERS AND STREAM BUFFERS. LESS THAN 0.1 ACRES OF TREES WILL BE CLEARED TO PROVIDE DRIVEWAY ACCESS TO A HOUSE THAT WILL BE LOCATED 600'± FROM FREDERICK ROAD. THE HOUSE WILL FACE FREDERICK ROAD.
- 24. ALL HOUSES SHALL FACE FREDERICK ROAD.
- 25. THIS SUBDIVISION IS SUBJECT TO THE CREATION OF 6.35± ACRES OF PRESERVATION PARCEL EASEMENT TO FULFILL THE REQUIREMENTS OF THE LOTS CREATED UNDER F-00-34.
- DRIVEWAYS SHALL BE PROVIDED PRIOR TO THE RESIDENTIAL OCCUPANCY TO INSURE SAFE ACCESS FOR FIRE AND EMERGENCY VEHICLES PER THE FOLLOWING MINIMUM REQUIREMENTS:
 WIDTH 12' (18' SERVING MORE THAN ONE RESIDENCE).
 SURFACE 6" OF COMPACT CRUSHER RUN BASE WITH TAR AND CHIP COATING (1-1/2" MIN.)
 GEOMETRY MAXIMUM OF 15% GRADE, MAXIMUM 10% GRADE CHANGE AND MINIMUM 45' TURNING RADIUS.
 STRUCTURES (CULVERTS/BRIDGES) CAPABLE OF SUPPORTING 25 GROSS TONS (H25 LOADING).
 PORAINAGE ELEMENTS CAPABLE OF SAFELY PASSING 100 YEAR FLOODPLAIN WITH NO MORE THAN 1 FOOT DEPTH OVER DRIVEWAY.
 STRUCTURE CLEARANCES MINIMUM 12 FEET.
- THIS AREA DESIGNATES A PRIVATE SEWAGE EASEMENT AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT FOR INDIVIDUAL SEWAGE DISPOSAL. IMPROVEMENTS OF ANY NATURE ARE RESTRICTED UNTIL THE PUBLIC SEWER IS AVAILABLE. THIS EASEMENT SHALL BECOME NULL AND VOID UPON CONNECTION TO A PUBLIC SEWER SYSTEM. THE COUNTY HEALTH OFFICER SHALL HAVE THE AUTHORITY TO GRANT ADJUSTMENTS TO THE PRIVATE SEWAGE EASEMENT, RECORDATION OF A MODIFIED SEWAGE EASEMENT PLAT SHALL NOT BE REQUIRED.
- 28. THE GEOTECHNICAL REPORT FOR THIS PROJECT WAS PREPARED BY HILLIS-CARNES ENGINEERING ASSOCIATES, INC. DATED MARCH, 2002.
- 29. LOCATED UPON THE ADJOINING PARCEL 129 (PAUL SMITH PROPERTY) ARE THE HISTORIC SITE 'HO-181', "HOOK LOG HOUSE" AND CEMETERY SITE '8-1'.

MAINTENANCE - SUFFICIENT TO INSURE ALL WEATHER USE.

30. WAIVER PETITION WP-00-53 WAS APPROVED BY THE DIRECTOR OF THE DEPARTMENT OF PLANNING AND ZONING ON JULY 31, 2000 WAIVING SECTIONS 16.116(a)(1), 16.119(f)(1) AND 16.120(a)(1) FOR DISTURBANCE TO WETLANDS AND WETLAND BUFFERS AND TO DRIVEWAY

ACCESS ONTO A ARTERIAL ROAD FOR THE EASTERN LOT.

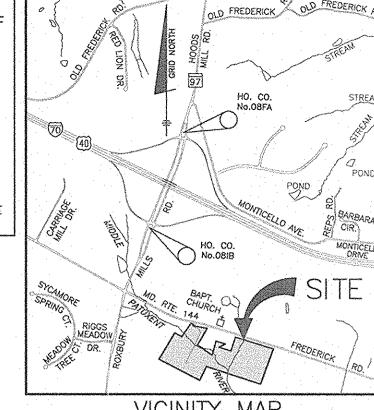
- 31. WAIVER PETITION WP-00-53 WAS PARTIALLY APPROVED BY THE DIRECTOR OF THE DEPARTMENT OF PLANNING AND ZONING ON MAY 24, 2000 WAIVING SECTIONS 16.119(f)(1) AND 16.120(a)(1) FOR DRIVEWAY ACCESS ONTO AN ARTERIAL ROADWAY FOR THE WESTERN LOTS.
- 32. THE FOREST CONSERVATION OBLIGATION FOR THIS SUBDIVISION WILL BE FULFILLED BY RETENTION OF 11.2 ACRES OF EXISTING FOREST IN A FOREST CONSERVATION EASEMENT. 6.0 ACRES OF THIS RETENTION IS WITHIN THE NTA, WHICH IS EQUAL TO OR GREATER THAN THE REQUIRED BREAK-EVEN POINT FOR THIS PROJECT. PROVIDED UNDER F-00-34.
- 33. NO NOISE STUDY IS NEEDED FOR THIS PROJECTS AS NO HOUSES ARE PROPOSED WITHIN 250' OF FREDERICK ROAD, A MINOR ARTERIAL ROADWAY.
- 34. ON JULY 30, 2001 THE CHIEF OF THE DEVELOPMENT ENGINEERING DIVISION CONDITIONALLY APPROVED A DESIGN MANUAL WAIVER, WAIVING THE REQUIREMENTS OF THE HOWARD COUNTY DESIGN MANUAL, VOLUME III ROADS AND BRIDGES, SECTION 2.6.2. THIS WAIVED THE REQUIREMENT THAT A SHARED RESIDENTIAL DRIVEWAY WHICH CROSSES A 100 YEAR FLOODPLAIN BE DESIGNED AND CONSTRUCTED AS A PUBLIC ACCESS PLACE. THIS USE—IN—COMMON DRIVEWAY MUST BE CONSTRUCTED TO THE CROSS SECTION OF A PUBLIC ACCESS PLACE (18' PAVING SECTION) BUT WITHIN A 24' EASEMENT.
- 5. THIS PLAN IS SUBJECT TO COMPLIANCE WITH THE FOURTH EDITION OF THE SUBDIVISION AND LAND DEVELOPMENT REGULATIONS AS A CONSEQUENCE OF THE SKETCH PLAN'S SUBMISSION PRIOR TO NOVEMBER 15, 2001. THIS PROJECT IS SUBJECT TO COMPLIANCE WITH THE AMENDED ZONING REGULATIONS APPROVED PER COUNCIL BILL 50-2001.
- 36. ALL ROAD FILLS SHALL BE COMPACTED TO 95% AS DETERMINED BY AASHTO T-180.
- 37. THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION WHEN WORKING IN THE AREA OF ANY OVERHEAD POWERLINES.
- 38. THE MARYLAND DEPARTMENT OF THE ENVIRONMENT, WATER MANAGEMENT ADMINISTRATION, NONTIDAL WETLANDS AND WATERWAYS DIVISION APPLICATION TRACKING NUMBER FOR DISTURBANCES TO THE FLOODPLAIN AND WATERWAYS IS 03-NT-0041/200361993.
- 39. WAIVER PETITION WP-03-124, A REQUEST TO WAIVE SECTION 16.116(a)(1-3), WHICH REQUIRES THE PROTECTION OF WETLANDS, STREAMS AND STEEP SLOPES, WAS VOIDED BY THE DIRECTOR OF THE DEPARTMENT OF PLANNING AND ZONING ON JULY 10, 2003.

BENCHMARKS NAD'83 HORIZONTA HO. CO. #08FA

HO. CO. #08FA
STAMPED BRASS DISK SET ON TOP CONCRETE BASE.
N 607113.698' E 1311061.325'

HO. CO. #08IB
STAMPED BRASS DISK SET ON TOP OF
CONCRETE BASE
N 604721.750' E 1310194.124'

NAD'27 VERTICAL



VICINITY MA SCALE: 1"=2000"

NO.

DESCRIPTION

COVER SHEET

ROAD CONSTRUCTION PLAN AND PROFILE

STORM DRAIN DRAINAGE AREA MAP

STORM DRAIN PROFILES AND DETAILS

GRADING, SEDIMENT AND EROSION CONTROL PLAN

NON-STRUCTURAL STORMWATER MANAGEMENT PLAN AND NOTES

STORMWATER MANAGEMENT PROFILES, NOTES AND DETAILS

STORMWATER MANAGEMENT, EROSION AND SEDIMENT CONTROL DETAILS, PROFILES, NOTES AND DETAILS

LANDSCAPE PLAN

FOREST CONSERVATION NOTES, DETAILS AND PLAN

REVISION

COVER SHEET

PROJECT NO. 1523

DRAWING <u>1</u> OF <u>10</u>

ENGINEERING, INC. 8480 BALTIMORE NATIONAL PIKE A SUITE 418 ELLICOTT CITY, MARYLAND 21043 PHONE: 410-465-6105 FAX: 410-465-6644 E-MAIL: benchmrk@cais.com OWNER/DEVELOPER: JOHN R. & AUDREY L. AVERY RESUBDIVISON OF LOT 3, PLAT No. 14285-14287, ADDING 14331 FREDERICK ROAD LOTS 4 THRU 8 AND PRESERVATION PARCELS A THRU C COOKSVILLE, MD 21723 TAX MAP 8 - GRID 23 PHONE: 410-368-3292 PARCELS 97 AND 99 4th ELECTION DISTRICT HOWARD COUNTY, MARYLAND

BENCHMARK

NENGINEERS & LAND SURVEYORS & PLANNERS

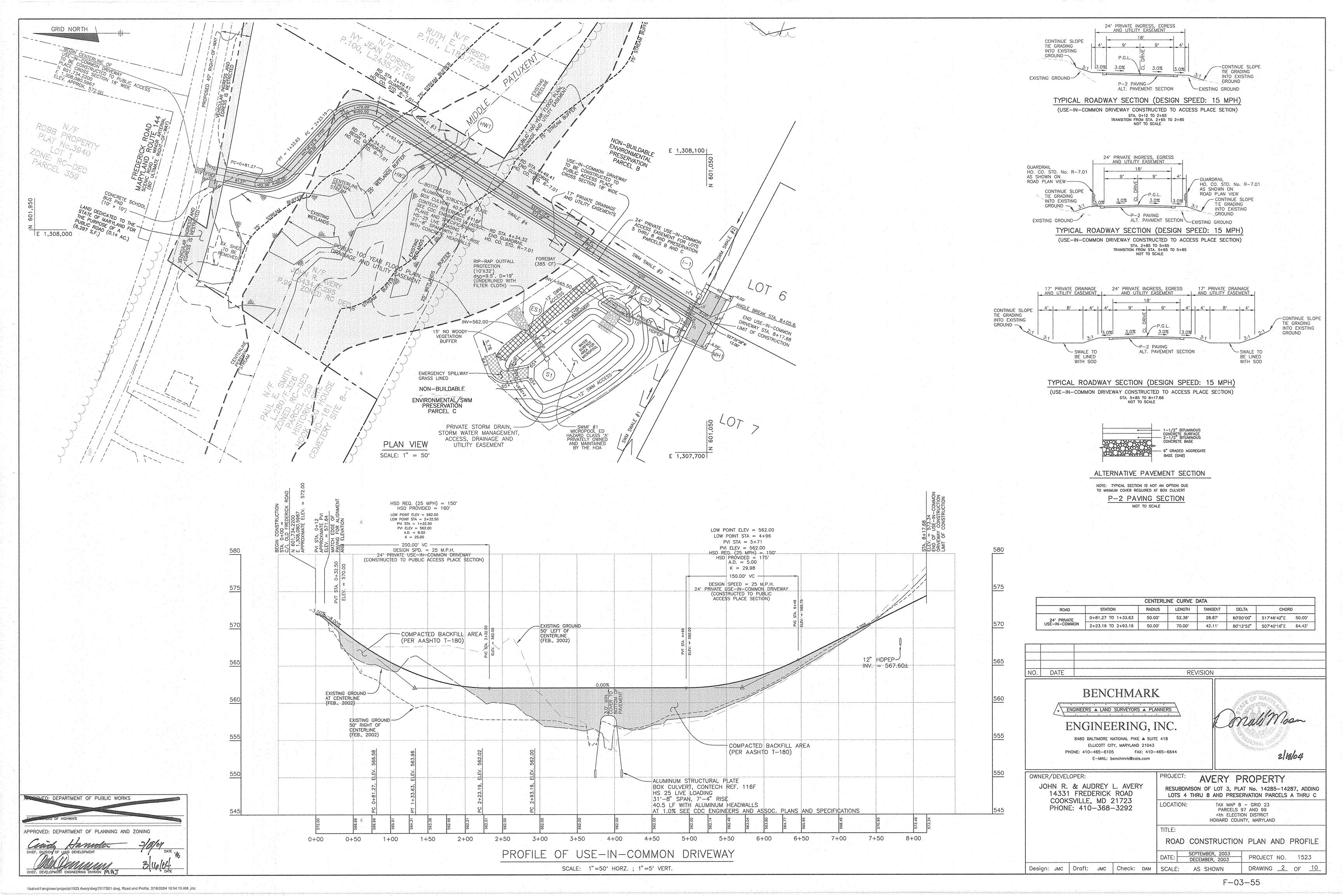
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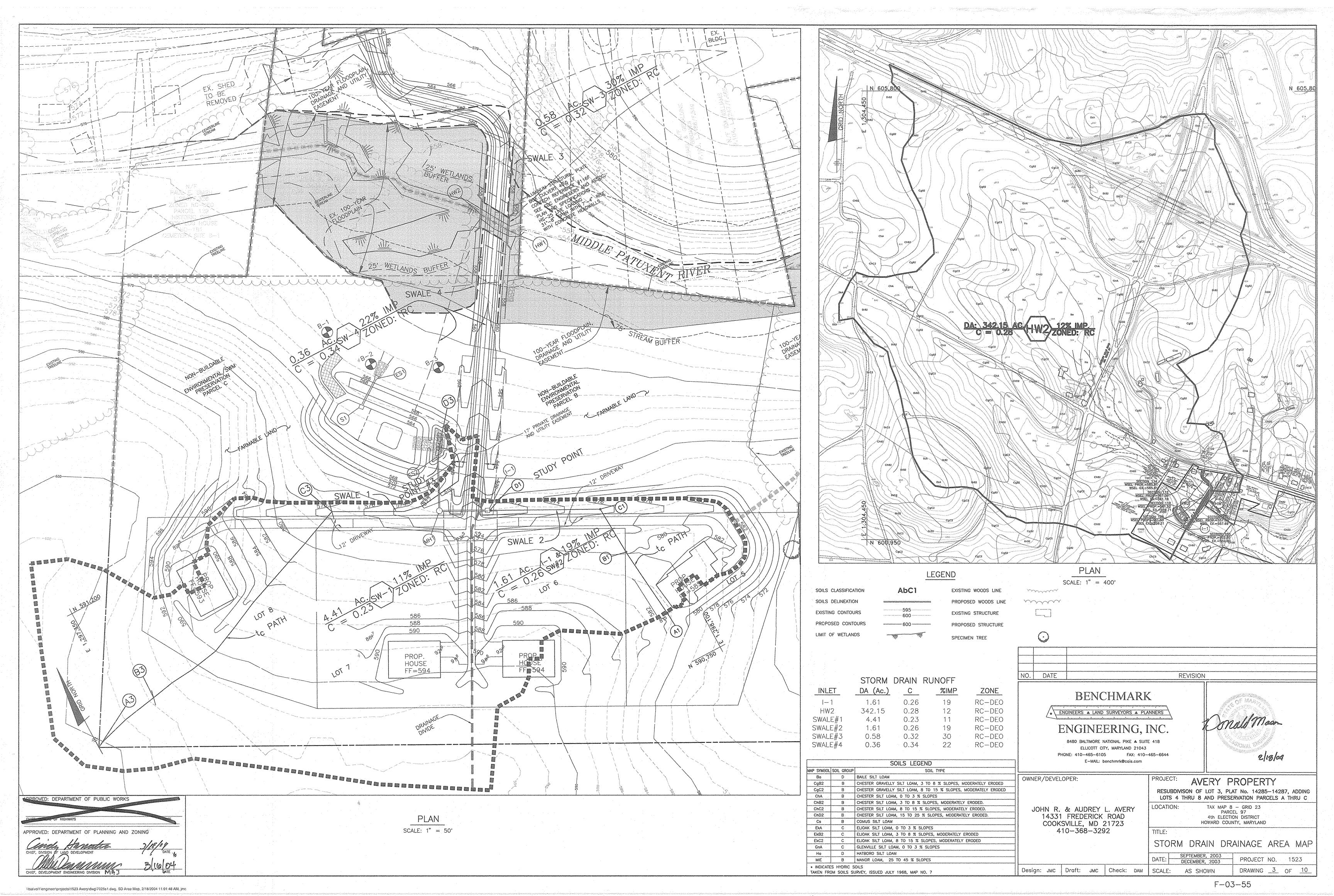
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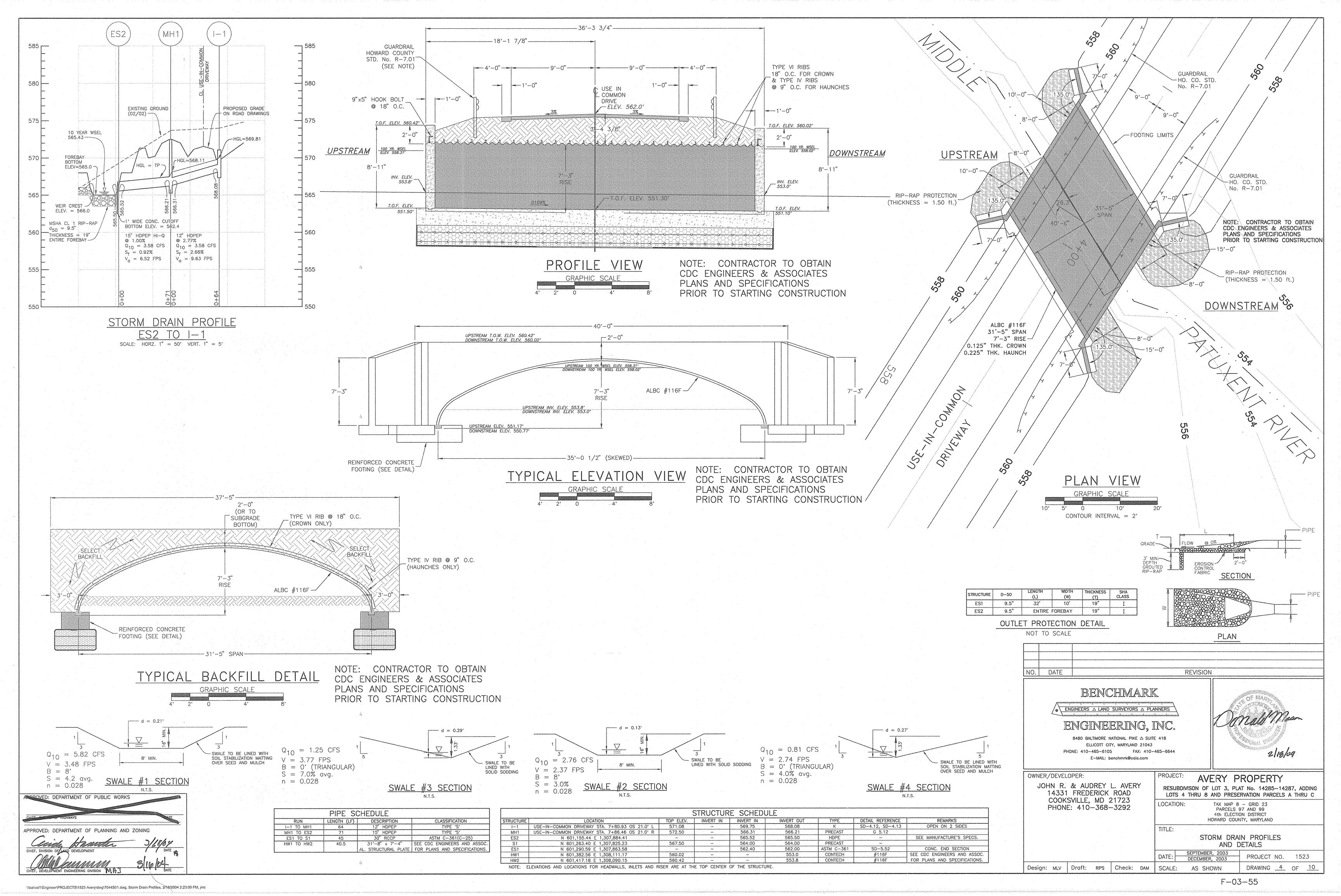
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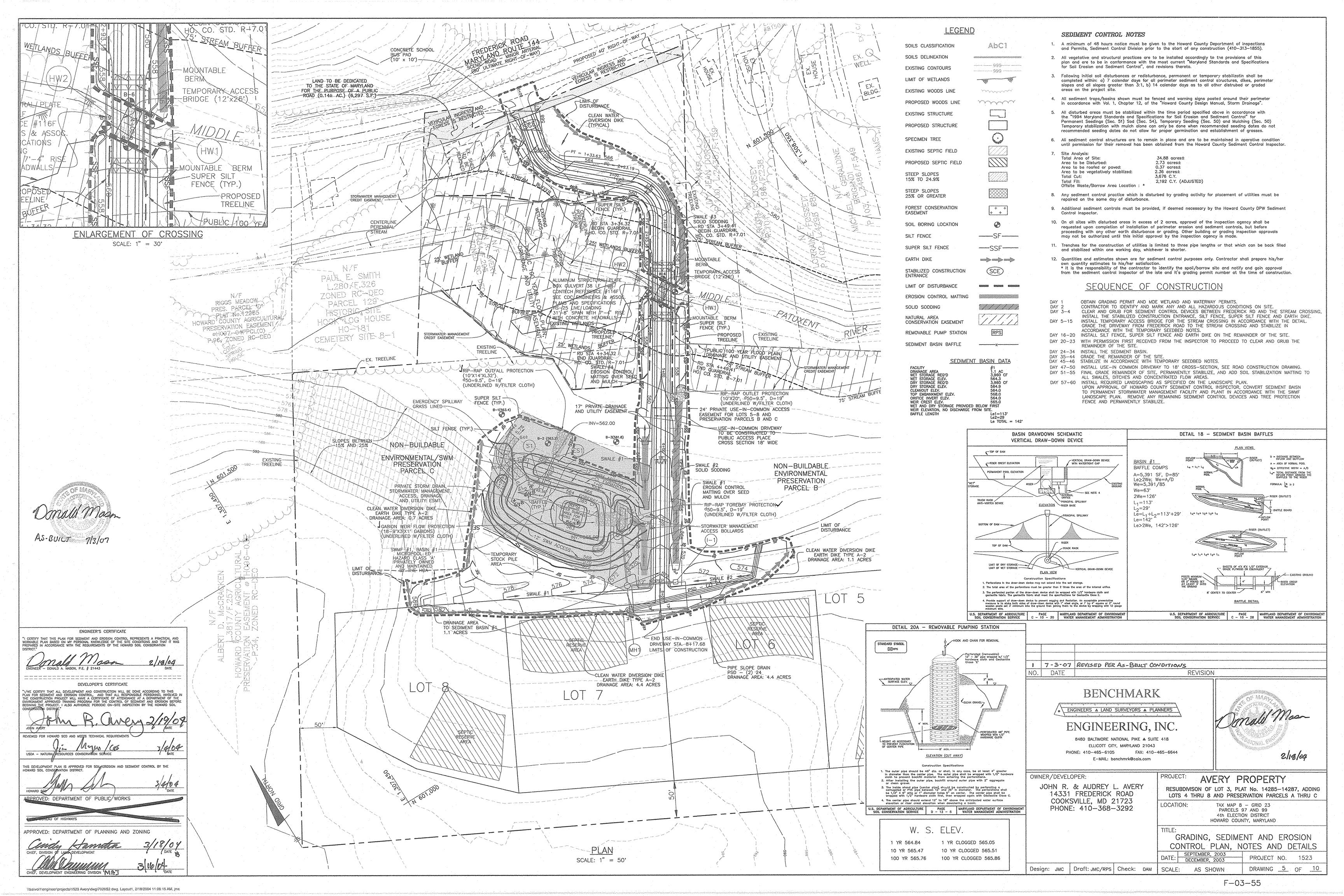
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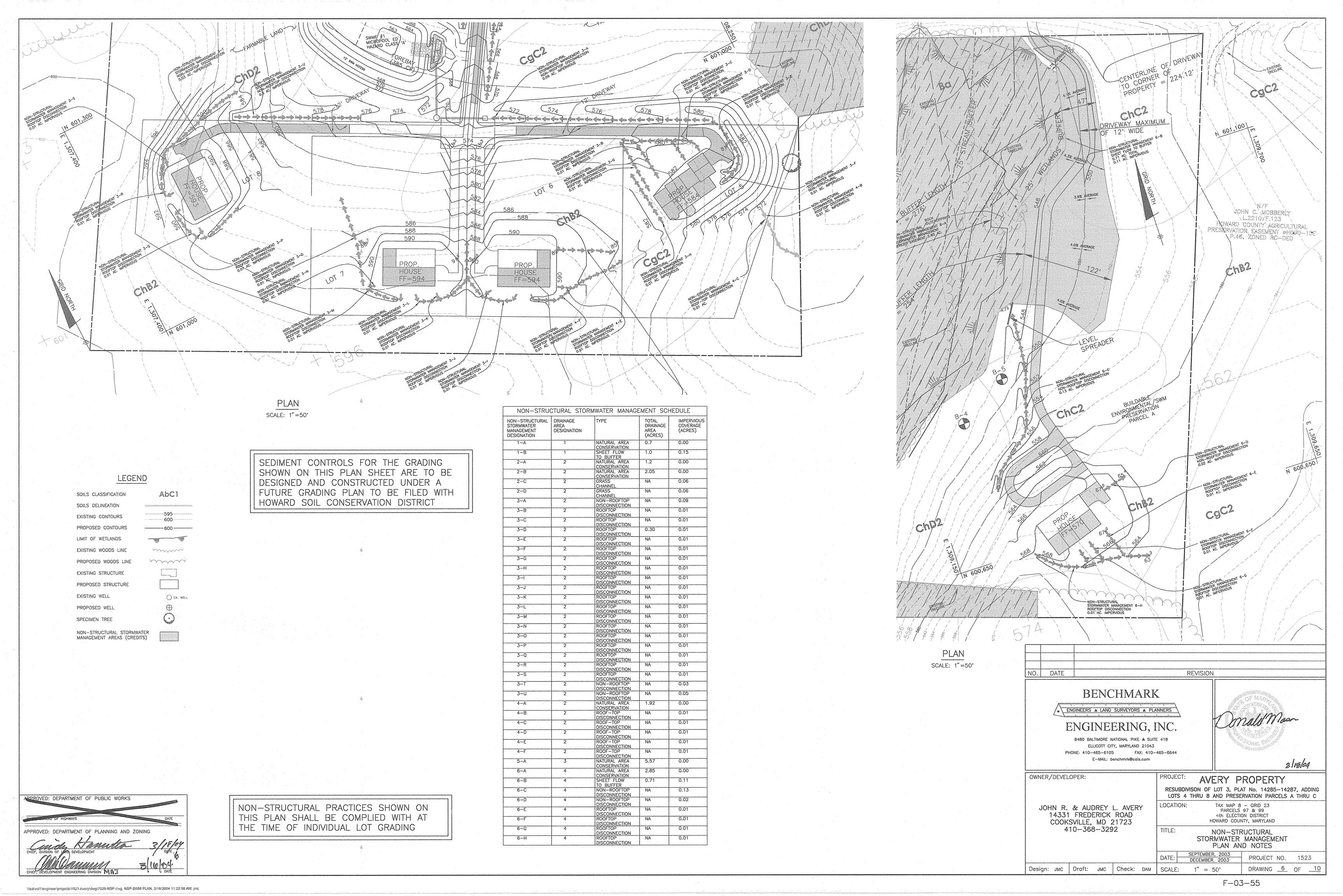
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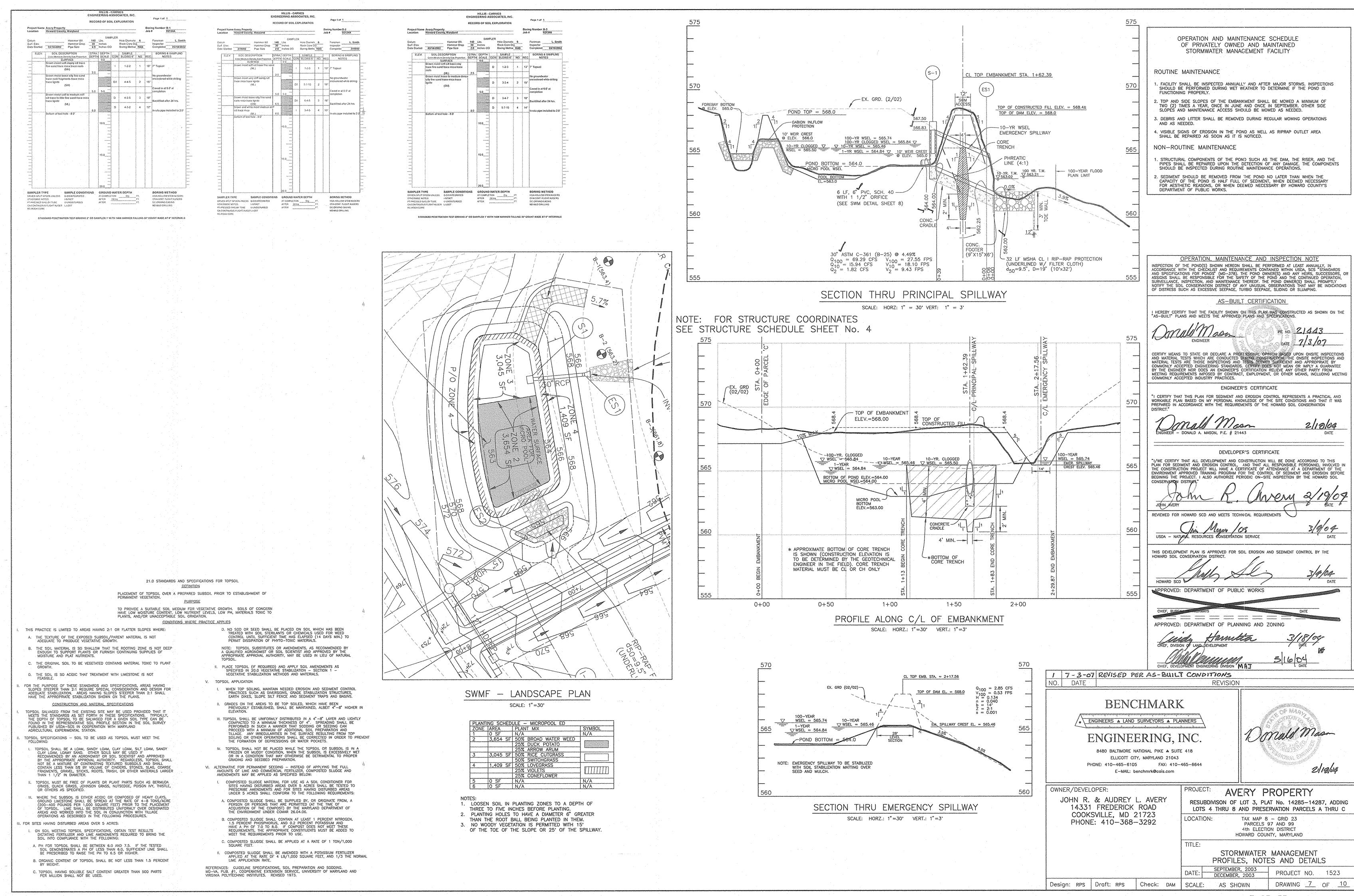












F-03-55

