ENVIRONMENTAL CONCEPT PLAN

ZONED: R-20

TAX MAP No. 17 GRID No. 15 P/O PARCEL No. 35 LOT No. 3

SECOND ELECTION DISTRICT HOWARD COUNTY, MARYLAND

DESIGN NARRATIVE

Introduction:
This report will demonstrate how the criteria set forth in the Maryland Stormwater Design Manual, Volumes I and II (effective October 2000, revised May 2009) will be satisfied on this project. The goal of creating hydrology similar to that of "Woods in Good Condition" will be accomplished though the use of the practices contained within Chapter 5 of said manual. The achievement of this goal will remove the requirement of providing Channel Protection Volume.

General Site Conditions:

The Jett Property is zoned R-20 and is located on Tax Map 17, Grid 15, P/O Parcel No. 39, Lot 3 of the Howard County, Maryland Tax Map Database System. The property consists of two proposed lots that combine to create a site of approximately 0.92 acre. The property is located in the Ellicott City area of Howard County in the North Branch of the Patapsco River wateshed (02130906). This property is somewhat square in shape and slopes from the south to northeast at a minimal grade to an existing drainage ditch on the west side McKenzie Road. An existing house and garage are located along the southern property line along Old Frederick Road. The existing house and garage are proposed to be removed and two new single family detached houses will be constructed on the two proposed lots will access McKenzie Road via a common driveway. According to a field inspection conducted by Eco-Science Professionals (ESP) in September, 2013, no forest, wetlands, streams, or buffers exist on-site. The Web Soil Survey shows soils on the site area consist of Glenelg-Urban Land Complex (GhB) Type "B" soils. The site drains to the existing ditch, through a proposed culvert pipe, and then to the existing storm drain system in McKenzie Road.

No environmentally sensitive areas (stream, wetlands, their buffer, steep slopes, or floodplain) exist on-site, no special protection of natural resources is required.

It is the intent of the proposed design to discharge runoff similar to the characteristics and direction of this site prior to any of

III. Reduction of impervious areas through better site design. alternative surfaces and Nonstructural Practices The design of this project utilizes an use-in-common driveway, allowing a reduction in the necessary paving needed to access to the proposed buildings. Non-Structural practices as permitted in Chapter 5, two (2) Micro-Bioretention Areas (M-6) will be used to address ESD to the MEP requirements. Alternative Surfaces were not incorporated into this design.

Integration of Erosion and Sediment Controls into Stormwater Strategy:
Since small drainage areas are proposed under this plan, silt fence, super silt fence, and cleanwater earth dike will be utilized for erosion & sediment control. There is no direct discharge of runoff to a stream. All site runoff will discharge to existing ground via existing outfalls and eventually to the Patapsco River. No drainage easements will be required. It is anticipated that all cut will be utilized on-site for construction at time of SDP.

V. Implementation of ESD Planning Techniques and practices to the Maximum Extent Practicable (MEP) he full required ESD volume is being provided.

No Waivers related to stormwater management are being requested in this project.

SITE ANALYSIS DATA CHART

A. TOTAL AREA OF THIS SUBMISSION = 0.92 ac.±.

B. LIMIT OF DISTURBED AREA = 40,163 5qft. or 0.92 Ac±. C. PRESENT ZONING DESIGNATION = R-20

(PER 10/06/2013 COMPREHENSIVE ZONING PLAN). D. PROPOSED USE: RESIDENTIAL

. OPEN SPACE ON SITE: N/A RECREATIONAL AREA PROVIDED: N/A

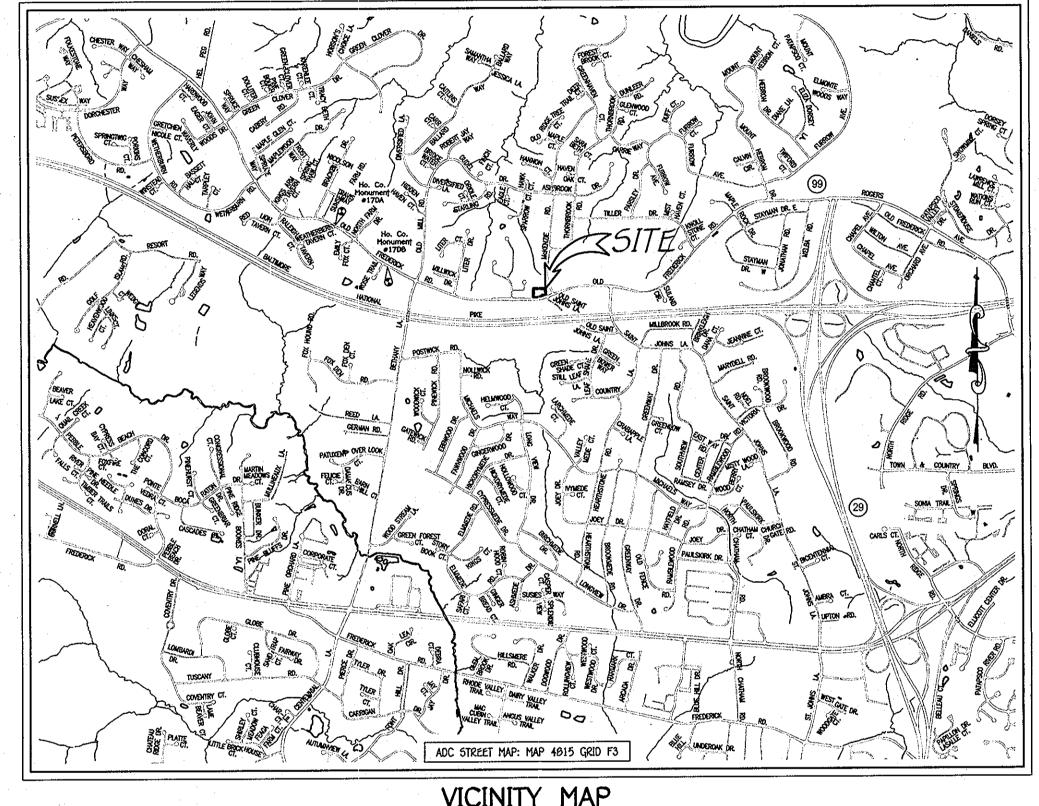
G. PREVIOUS HOWARD COUNTY FILES: F-95-30, F-95-86. 3DP. 87-069 TOTAL AREA OF FLOODPLAIN LOCATED ON SITE: 0.00 Ac.

TOTAL AREA OF SLOPES IN EXCESS OF 15% = 0.00 Ac. NET TRACT AREA = 0.92 Ac+

(TOTAL SITE AREA - FLOODPLAIN - STEEP SLOPES AREA) TOTAL AREA OF WETLANDS (INCLUDING BUFFER) = 0.00 Act

TOTAL GREEN OPEN AREA = 0.72 Ac. ± TOTAL IMPERVIOUS AREA = 0.20 Ac. * D. AREA OF ERODIBLE SOILS = 0.00 Ac. ±

TOTAL AREA OF FOREST = 0.00 Ac. *



VICINITY MAP 5CALE: 1" = 2000'

BENCHMARK INFORMATION

HOWARD COUNTY CONTROL STATION #170B - HORIZONTAL - (NAD '83) N 594,529.5268 E. 1,352,722.5920

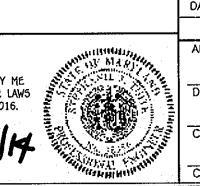
HOWARD COUNTY CONTROL STATION #17DA - HORIZONTAL - NAD '83) N 595,410.8266 E 1,351,641.1076 ELEVATION = 481.244 - VERTICAL - (NAVD '88)

ELEVATION = 475.217 - VERTICAL - (NAVD '88)

Scale: 1" = 2000'

FISHER, COLLINS & CARTER, INC. VIL ENGINEERING CONSULTANTS & LAND SURVEYORS

PROFESSIONAL CERTIFICATION I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM A DULY LICENSED PROFESSIONAL LAND SURVEYOR UNDER THE LAWS



DESCRIPTION REVISION BLOCK APPROVED: DEPARTMENT OF PLANNING AND ZONING Director - Department Planning and Zoning 2.28.14 Chief, Development Engineering Division NY

DEVELOPER/OWNER 484 CALHOUN ROAD EVERETT, PENNSYLVANIA 15537-4230 CONTACT: JAMES JETT

Chief, Division of Land Development Chief, Development Engineering Division PARCEL/LOT NO. PROJECT 35/03 JETT PROPERTY CENSUS TR. BLOCK NO. ZONE TAX/ZONE ELEC. DIST. SECOND R-20 6021.00 SEWER CODE WATER CODE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

GENERAL NOTES

1. THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF PUBLIC WORKS/BUREAU OF ENGINEERING/CONSTRUCTION INSPECTION DIMSION AT 410-313-1880 AT LEAST FIVE (5) WORKING DAYS PRIOR TO THE START OF WORK. THE CONTRACTOR SHALL NOTIFY (MISS UTILITY) AT 1-800-257-7777 AT LEAST 48 HOURS PRIOR TO ANY

EXCAVATION WORK BEING DONE.

3. THE SUBJECT PROPERTY IS ZONED R-20 (PER 10/06/2013 COMPREHENSIVE ZONING PLAN).

4. EXISTING TOPOGRAPHY SHOWN IS FROM HOWARD COUNTY GIS TOPOGRAPHY SHOWN AT 2' CONTOUR INTERVAL.

5. 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. 170A AND 1708 WERE USED FOR THIS PROJECT.

6. STORM WATER MANAGEMENT IS IN ACCORDANCE WITH THE M.D.E. STORM WATER DESIGN MANUAL, VOLUMES I & II. REVISED 2009. WE ARE PROVIDING STORM WATER MANAGEMENT BY THE USE OF TWO (2) M-6 MICRO

FOR THIS PROJECT.

8. ANY DAMAGE TO THE COUNTY'S RIGHT-OF-WAY SHALL BE CORRECTED AT THE DEVELOPER'S EXPENSE.

9. NO GRADING, REMOVAL OF VEGETATIVE COVER OR TREES, PAVING AND NEW STRUCTURES SHALL BE PERMITTED

11. FOREST CONSERVATION WILL BE ADDRESSED AT THE FINAL PLAN STAGE OF THIS PROJECT BY PAYMENT OF A

12. REVIEW OF THIS PROJECT FOR COMPLIANCE WITH THE HOWARD COUNTY SUBDIVISION AND LAND DEVELOPMENT REGULATIONS AND THE HOWARD COUNTY ZONING REGULATIONS SHALL OCCUR AT THE SITE PLAN STAGES. THEREFORE, THE APPLICANT AND CONSULTANT SHOULD EXPECT ADDITIONAL AND MORE DETAILED COMMENTS (INCLUDING THOSE THAT MAY ALTER OVERALL SITE DESIGN) AS THIS PROJECT PROGRESSES.

13. SOIL BORING INFORMATION WILL BE PROVIDED AT THE FINAL PLAN STAGE OF THIS PROJECT 14. APPROVAL OF THIS ECP DOES NOT CONSTITUTE APPROVAL OF SUBSEQUENT OR ASSOCIATED SUBDIMISION OR SITE DEVELOPMENT PLANS OR RED-LINE REVISIONS. REVIEW OF THIS PROJECT FOR COMPLIANCE WITH THE HOWARD COUNTY SUBDIVISION AND LAND DEVELOPMENT REGULATIONS AND THE HOWARD COUNTY ZONING REGULATIONS SHALL OCCUR AT THE SUBDIVISION PLAN, SITE DEVELOPMENT PLAN, OR RED-LINE REVISION PROCESSES. THE APPLICANT AND CONSULTANT SHOULD EXPECT ADDITIONAL AND MORE DETAILED REVIEW COMMENTS (INCLUDING COMMENTS THAT MAY ALTER THE OVERALL SITE DESIGN) AS THE PROJECT PROGRESSES

15. THIS SITE CONTAINS NO 100 YEAR FLOODPLAIN, WETLANDS, STREAMS, OR STEEP SLOPES. 16. NO CEMETERIES OR HISTORIC STRUCTURES EXIST ON THE PROPERTY, HOWEVER, A CEMETERY IS ADJACENT TO

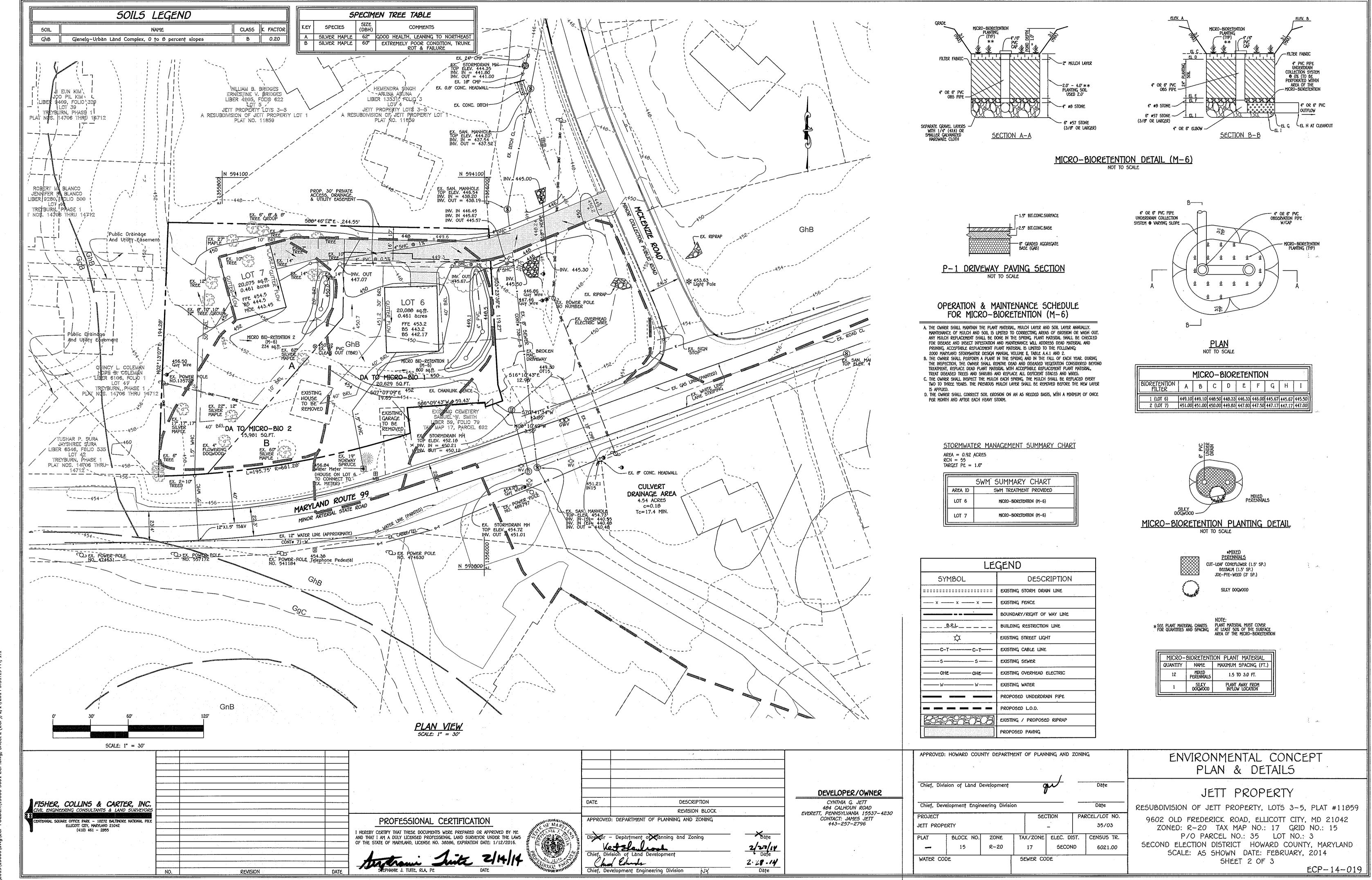
17. A WETLAND AND FOREST STAND LETTER WAS PREPARED BY ECO-SCIENCE PROFESSIONALS, INC. DATED JULY 25,

JETT PROPERTY

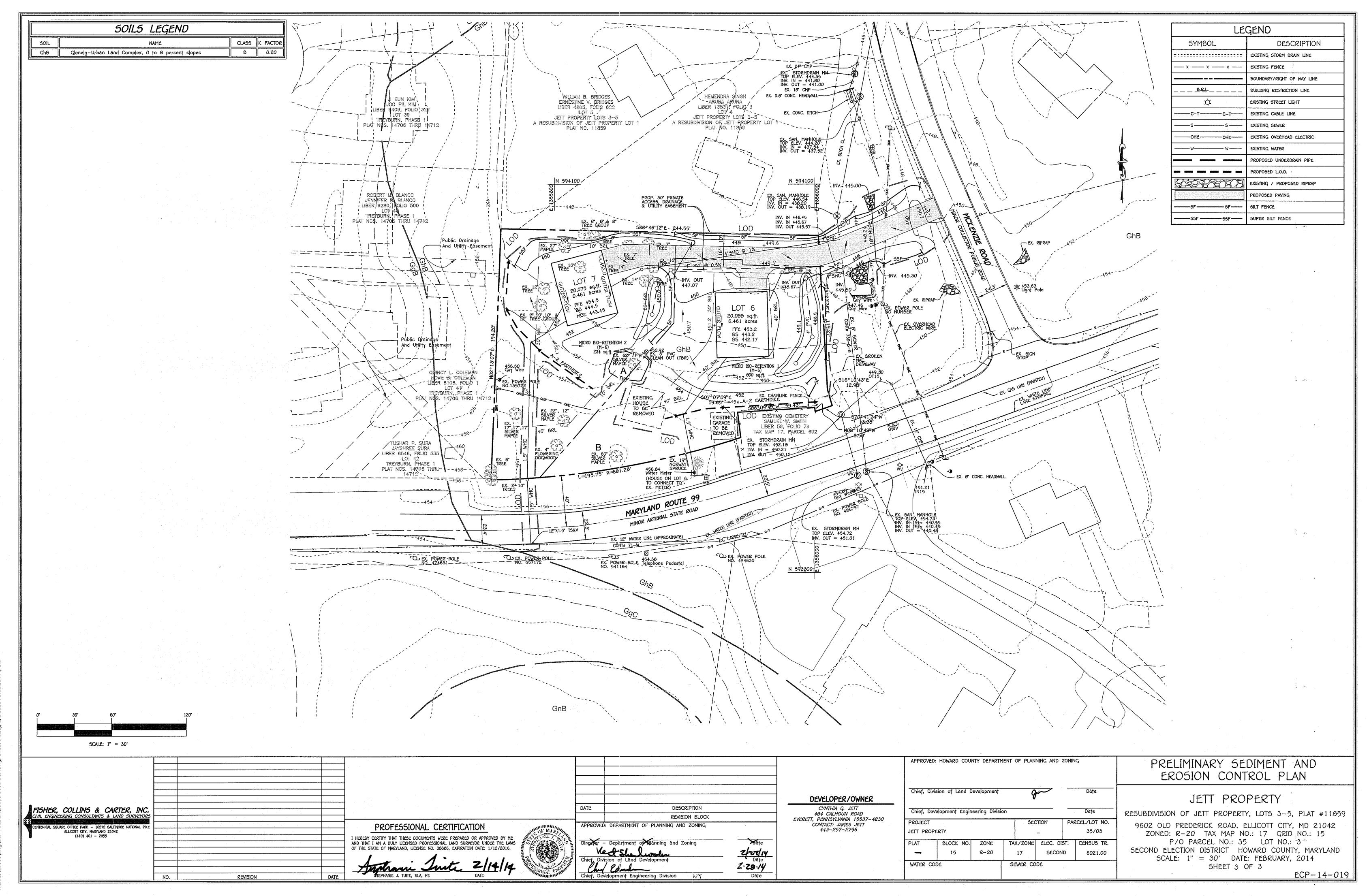
TITLE SHEET

RESUBDIVISION OF JETT PROPERTY, LOTS 3-5. PLAT #11859 9602 OLD FREDERICK ROAD, ELLICOTT CITY, MD 21042 ZONED: R-20 TAX MAP NO.: 17 GRID NO.: 15 P/O PARCEL NO.: 35 LOT NO.: 3 SECOND ELECTION DISTRICT HOWARD COUNTY, MARYLAND SCALE: AS SHOWN DATE: FEBRUARY, 2014 SHEET 1 OF 3

ECP-14-019



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