## **DESIGN NARRATIVE:**

For the proposed impervious areas of this subdivision (M-6) Micro-Bioretention and (N-2) Disconnection of Non-Rooftop Runoff has been proposed for treatment.

Natural resource protection is being achieved as no environmental areas or buffers are being disturbed by this proposed design.

Natural flow patterns have been preserved by placing the ESD practices around the outer perimeter of the site and having them discharge along this perimeter in various locations as opposed to one concentrated area. This shall mimic the existing condition of flow.

Reduction of impervious areas has been achieved by utilizing the narrowest possible roadway, sidewalk and driveway widths as allowed by Howard County design regulations.

Sediment and erosion control shall mainly consist of double row of super silt fence around the perimeter. Diversion fencing shall be utilized to divert runoff around the northern portion of the site. It is not anticipated that any temporary sediment traps will be needed.

As a result of utilizing environmental site design (ESD) to the maximum extent practical (MEP), SWM has been adequately addressed without the need for structural practices.

## GENERAL NOTES

1. SUBJECT PROPERTY ZONED R-SC PER THE OCTOBER 6, 2013 COMPREHENSIVE ZONING PLAN. 2. THIS PROJECT IS SUBJECT TO THE AMENDED FIFTH EDITION OF THE SUBDIVISION AND LAND DEVELOPMENT REGULATIONS.

3. PROJECT BOUNDARY IS BASED ON BOUNDARY SURVEY BY BENCHMARKL ENGINEERING, INC PERFORMED IN FEBRUARY, 2014. TOPOGRAPHY IS BASED ON FIELD RUN SURVEY PERFORMED BY BENCHMARK ENGINEERING, INC., IN FEBRUARY, 2014.

4. FOREST STAND AND WETLAND DELINEATION WAS PERFORMED BY ECO-SCIENCE, PROFESSIONALS, INC. ON MARCH 19, 2014. THERE ARE NO WETLANDS, STREAMS, THEIR REQUIRED BUFFERS, 100-YR FLOODPLAIN OR 25% OR GREATER STEEP SLOPES WITH MORE THAN 20,000 SF OF CONTIGUOUS AREA LOCATED WITHIN THE PROJECT SITE

5. TO THE BEST OF OUR KNOWLEDGE, THERE ARE NO CEMETERIES LOCATED ON THIS SITE. 6. THIS PROJECT IS SUBJECT TO THE FOREST CONSERVATION REQUIREMENTS. IT IS ANTICIPATED THAT IT SHALL BE HANDLED VIA A FEE-IN-LIEU OR VIA OFFSITE WITHIN THE MITIGATION BANK OF PARK OVERLOOK, F-13-093.

7. APPROVAL OF THIS ENVIRONMENTAL CONCEPT PLAN (ECP) DOES NOT CONSTITUTE AN APPROVAL OF ANY SUBSEQUENT AND ASSOCIATED SUBDIVISION AND/OR SITE DEVELOPMENT PLAN.

8. 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 AND/OR SITE DEVELOPMENT 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.

9. THE STORMWATER MANAGEMENT PRACTICES SHOWN ON THIS PLAN ASSUME ADEQUATE SOIL BORING TEST RESULTS. THE DESIGN MAY NEED TO BE ADJUSTED AT THE NEXT STAGE AFTER SOIL BORING TESTING HAS BEEN COMPLETED AND AN ALTERNATE PRACTICE MAY NEED TO BE UTILIZED.

10. APPLICABLE DPZ FILE REFERENCES: WP-14-123

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11. THE SEDIMENT AND EROSION CONTROL SHOWN ON SHEET 2 IS A SCHEMATIC PRELIMINARY DESIGN. A MORE DETAILED DESIGN COMPLETE WITH SEQUENCE OF CONSTRUCTION, NOTES AND DETAILS SHALL BE PROVIDED AT THE NEXT PLAN STAGE.

APPROVED: HOWARD COUNTY DEPARTMENT	OF PLANN	ING AND ZONIN
Churd Edunda		9.23.14
CHIEF, DEVELOPMENT ENGINEERING DIVISION	J.P.	DATE
CHIEF, DIVISION OF LAND DEVELOPMENTAN	· · · ·	9-19-14
CHIEF, DIVISION OF LAND DEVELOPMENTNH		DATE

12. WP-14-123, A REQUEST TO WAIVE SECTIONS 16.121(e)(2)(i), SECTION 16.134(a)(1), SECTION 16.144(b) AND SECTION 16.144(g) WAS APPROVED ON JULY 28, 2014 SUBJECT D THE FOLLOWING CONDITIONS: A) SUBMISSION OF A FINAL SUBDIVISION PLAN AND APPLICATION UPON APPROVAL OF ECP-14-054 B) COMPLY WITH ALL ATTACHED AGENCY COMMENTS ON THE SUBMITTED ECP PLANS. COMPLIANCE WITH THE DEVELOPMENT ENGINEERING DIVISION COMMENTS DATED JULY 7, 2014 REGARDING THE PAYMENT OF A FEE-IN-LIEU FOR THE SIDEWALK ALONG ALL SAINTS ROAD. D) COMPLIANCE WITH THE DEPARTMENT OF FIRE AND RESCUE SERVICES COMMENTS

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OPEN SPACE LOT, 11

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KNOX LANDING NAT NO.\ 10464,

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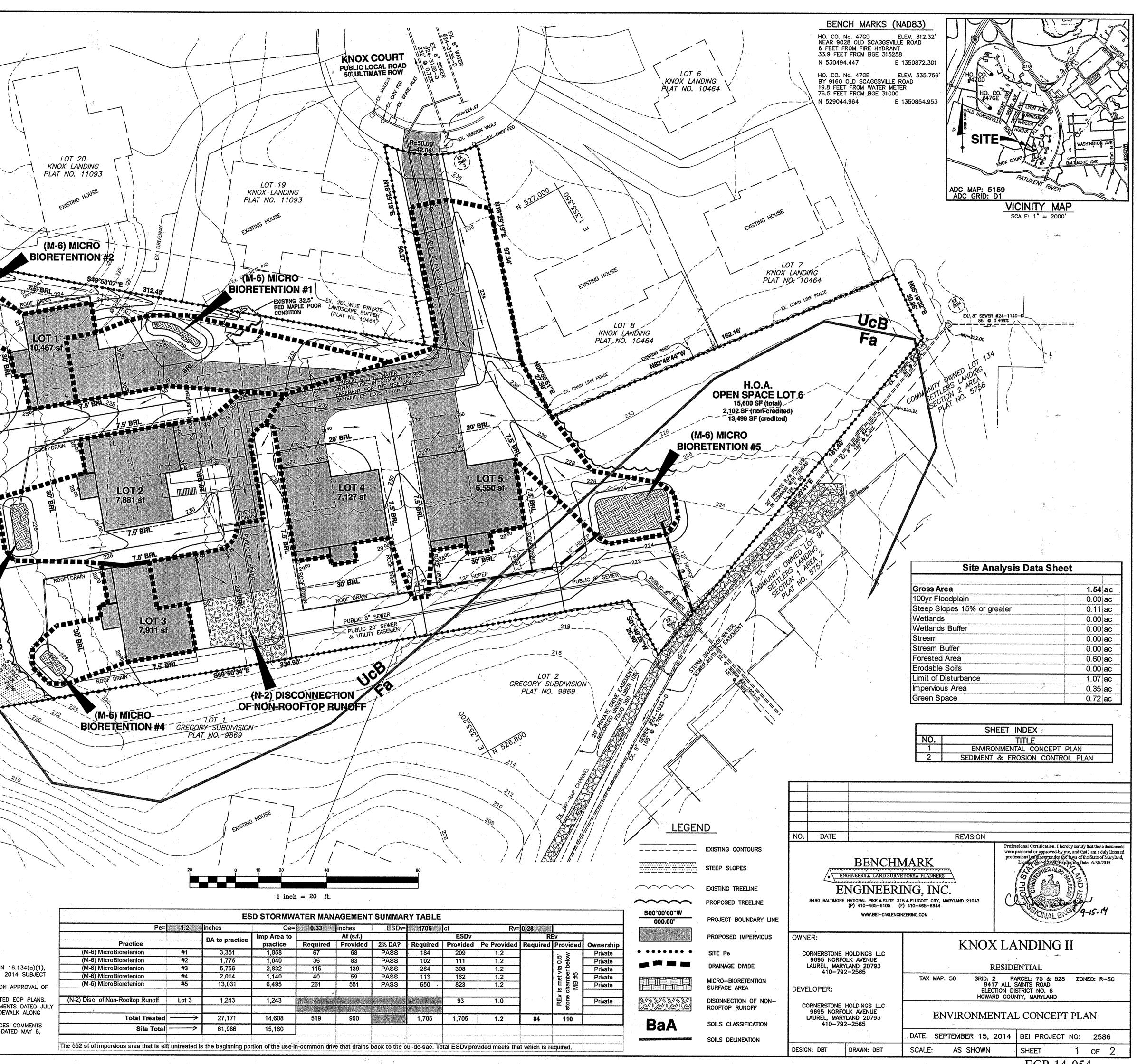
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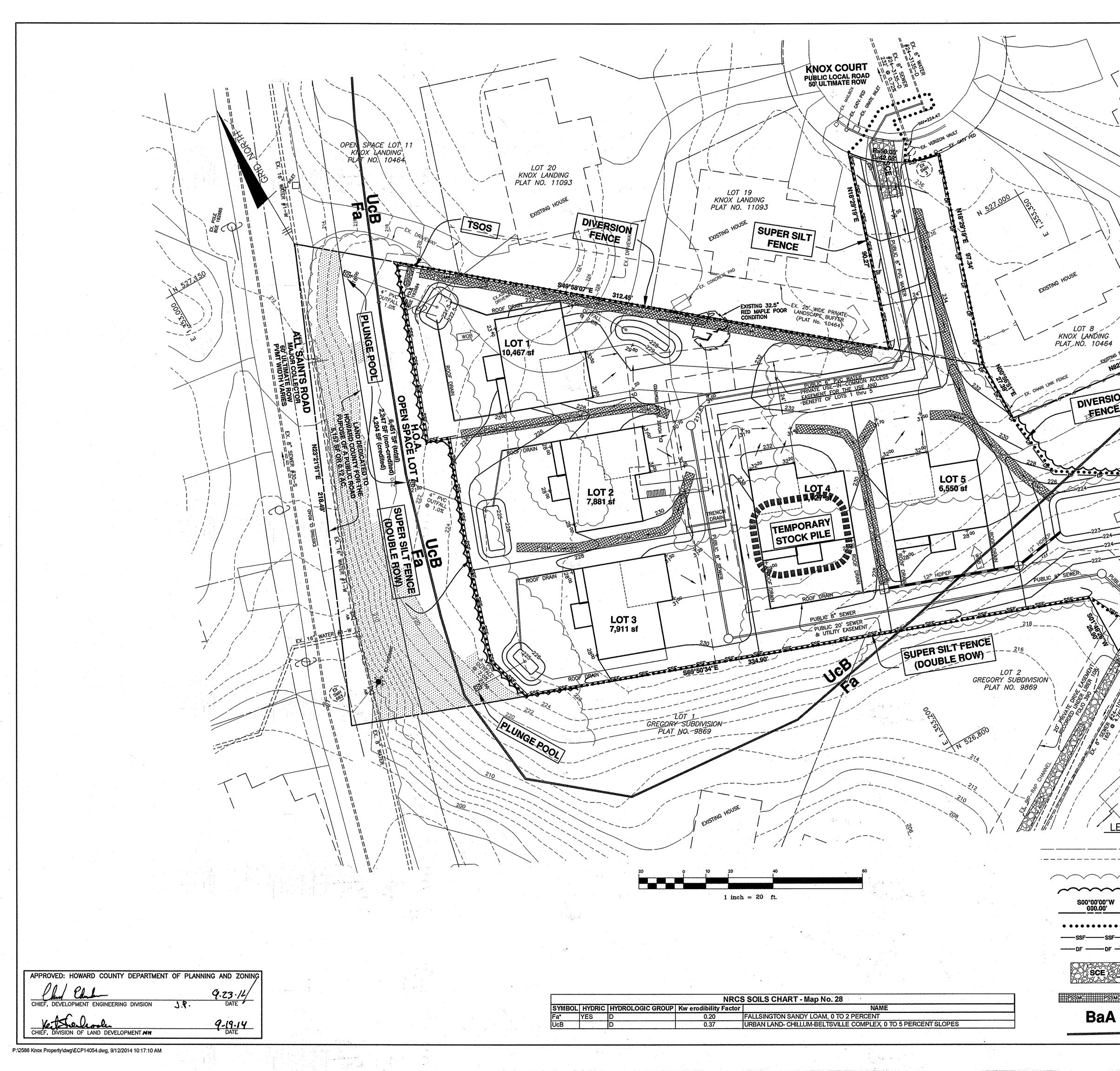
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DATED MAY 15, 2014, AND DPW REAL ESTATE SERVICES COMMENTS DATED MAY 6, 2014 ON THE FINAL PLAN SUBMISSION.



ECP-14-054



LOT 6 KNOX LANDING PLAT NO. 10464			
EXISTING HOUSE	DT 7 LANDING		
H.O.A. OPEN SPACE LC 15,600 SF (total) 2,102 SF (non-credited	OT 6	$\frac{1}{220,25}$	
13,498 SF (credited)			
	MMED JOING 2 MMED JOING 2 JAN AREA 51 ON NO. 10 AT NO. 1		
LEGEND EXISTING CONTOURS EXISTING TREELINE PROPOSED TREELINE W PROJECT BOUNDARY LINE	ENGINEERS & LAND SURVE ENGINEERI 8480 BALTIMORE NATIONAL PIKE & SUITE 31 (P) 410-465-6105 (F) WWW.BEI-CIVILENGIN	SYORSA PLANNERS NG, INC. 5 = Ellicott city, Maryland 21043 F) 410-465-6644	Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland, Licenser 22399 Thiration Date: 6-30-2015
<ul> <li>LIMIT OF DISTURBANCE</li> <li>SUPER SILT FENCE</li> <li>DIVERSION FENCE</li> <li>STAILIZED CONSTRUCTION</li> <li>EROSION CONTROL MATTING</li> <li>SOILS CLASSIFICATION</li> <li>SOILS DELINEATION</li> </ul>	OWNER: CORNERSTONE HOLDINGS LLC 9695 NORFOLK AVENUE LAUREL, MARYLAND 20793 410-792-2565 DEVELOPER: CORNERSTONE HOLDINGS LLC 9695 NORFOLK AVENUE LAUREL, MARYLAND 20793 410-792-2565 DESIGN: DBT DRAWN: DBT	KNOX LANDING II         RESIDENTIAL         TAX MAP: 50       GRID: 2       PARCEL: 75 & 528       ZONED: R-SC         9417 ALL SAINTS ROAD       ELECTION DISTRICT NO, 6       ELECTION DISTRICT NO, 6       HOWARD COUNTY, MARYLAND         ENVIRONMENTAL CONCEPT PLAN         SEDIMENT & EROSION CONTROL PLAN         DATE:       SEPTEMBER 15, 2014       BEI PROJECT NO: 2586         SCALE:       AS SHOWN       SHEET       2       0F       2	
			ECP-14-054