VICINITY MAP SITE ANALYSIS WETLAND AREA: WETLAND BUFFER AREA: FLOODPLAIN AREA: FLOODPLAIN BUFFER AREAS SLOPES > 15% AREA 13.76 AC LIMIT OF DISTURBANCE AREA: COMPOSTING FACILITY PROPOSED SITE USE: GREEN OPEN AREA: *FULL BUILD-OUT AREA BENCHMARK INFORMATION HOWARD COUNTY SURVEY CONTROL: BASE A ELEVATION 564.733 US FT N 598,156,281 E 1,336,841.785 HOWARD COUNTY SURVEY CONTROL: BASE I ELEVATION 512.817 US FT E 1,338,031,404

EXISTING STORM DRAIN INLET/JUNCTION BOX **EXISTING UTILITY POLE EXISTING SANITARY CLEANOUT** EXISTING ELECTRIC STRUCTURE

EXISTING BUILDING

PROPOSED INDEX CONTOUR

PROPOSED INTERMEDIATE CONTOUR

STABILIZED CONSTRUCTION ENTRANCE

TEMPORARY GABION OUTLET STRUCTURE

AT-GRADE INLET PROTECTION

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, LICENSE NO. 23402, EXPIRATION DATE 25 AUGUST 2016.

PROPOSED LIGHT POLE

PROPOSED ASPHALT

PROPOSED CONCRETE

PROPOSED ESD FACILITY

PROP. UNDERGROUND TELEPHONE L

TEMPORARY STONE OUTLET STRUCTURE MARK J. GUTBERLET, P.E.

LIMIT OF DISTURBANCE HYDRAULIC SOIL GROUP BOUNDARY HYDRAULIC SOIL GROUP LABEL DRAINAGE AREA BOUNDARY SOIL BORING LABEL - SD - PROPOSED STORM DRAIN PROPOSED WATER PIPE PROPOSED CONTACT WATER LINE PROPOSED UNDERGROUND ELECTRIC LINE

SCE

TGOS

TSOS

REVIEWED FOR HOWARD SCD AND MEETS TECHNICAL REQUIREMENTS THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT. HOWARD SCD

STREET ADDRESS

APPROVED: DEPARTMENT OF PLANNING AND ZONING 11.3.15 CHIEF, DÉVELOPMENT ENGINEERING DIVISION VetShelwola 104945 CHIEF, DIVISION OF LAND DEVELOPMENT GRID: 8 BLOCK: N/A

THE SYSTEM OF COORDINATES USED BY HOWARD COUNTY IS BASED ON THE

ADDRESS CHART

HORIZONTAL: MARYLAND NAD83

BENCHMARK LOCATIONS PROVIDED ON PROJECT ACCESS INSET.

VERTICAL: NAVD88

LOT/PARCEL#

ZONING: RC-DEO TAX MAP: 0016

PARCEL/LOT: 220, 253, 11, 23, 54 FLECTION DISTRICT: 3-02

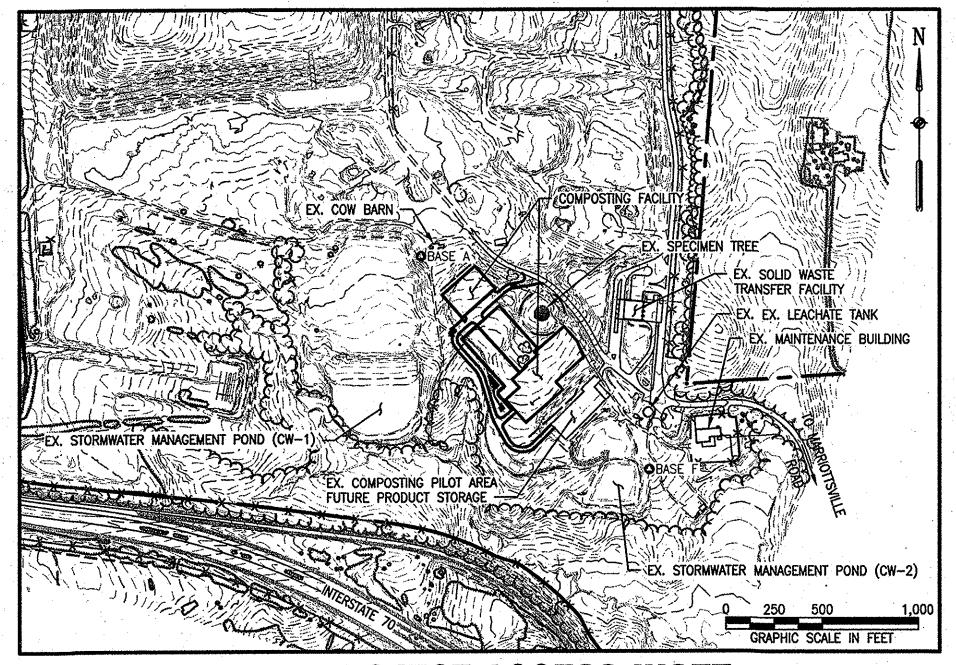
OWNER/ENGINEER INFORMATION

ENGINEER: DEVELOPER/OWNER: EA ENGINEERING, SCIENCE, AND TECHNOLOGY, INC. HOWARD COUNTY GOVERNMENT CONTACT: MARK GUTBERLET, P.E. CONTACT: JEFF DANNIS, P.E., CSP 225 SCHILLING CIRCLE 6751 COLUMBIA GATEWAY DRIVE, SUITE 514 HUNT VALLEY, MD 21031 COLUMBIA, MD 21046 TELEPHONE: (410) 584-7000 TELEPHONE: (410) 313-2330

a MARE "ESSIONAL"

COMPOST FACILITY

AT ALPHA RIDGE LANDFILL HOWARD COUNTY, MARYLAND ENVIRONMENTAL CONCEPT PLAN



PROJECT ACCESS INSET

		SHEET LIST
ECP SHEET NO.	DRAWING NO	. SHEET TITLE
1	T1	TITLE SHEET
2	ES-1	EROSION AND SEDIMENT CONTROL PLAN - INITIAL I
3	ES-2	EROSION AND SEDIMENT CONTROL PLAN - INITIAL II
4	ES-3	EROSION AND SEDIMENT CONTROL PLAN - FINAL I
5	ES-4	EROSION AND SEDIMENT CONTROL PLAN - FINAL II
6	DA-1	ESD DRAINAGE AREA MAP

ENGINEER'S CERTIFICATE

DEVELOPER'S CERTIFICATE

EA ENGINEERING

SCIENCE, AND TECHNOLOGY

CONSERVATION DISTRICT.

I CERTIFY THAT THIS PLAN FOR SEDIMENT AND EROSION CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL

I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE

ACCORDING TO THIS PLAN FOR SEDIMENT AND EROSION CONTROL. AND THAT

ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL

HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON—SITE

CHK. BY:

DATE: OCTOBER 2014

INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT.

APPROVAL OF THIS ENVIRONMENTAL CONCEPT PLAN DOES NOT CONSTITUTE APPROVAL OF SUBSEQUENT SUBDIVISION PLANS, SITE DEVELOPMENT PLANS OR REVISIONS TO APPROVED SITE DEVELOPMENT PLANS, FOREST CONSERVATION PLANS OR GRADING OR BUILDING PERMITS. THE APPLICANT AND CONSULTANT SHOULD EXPECT ADDITIONAL AND MORE DETAILED COMMENTS THAT MAY ALTER THE SITE DESIGN, HOUSE OR STRUCTURE LOCATION, DRIVEWAY LOCATION, GRADING, TREE CLEARING AND/OR OTHER REQUIREMENTS AS THE DEVELOPMENT PLAN PROGRESSES THROUGH THE PLAN REVIEW AND/OR PERMIT APPLICATION PROCESS IN ACCORDANCE WITH THE SUBDIVISION, LAND DEVELOPMENT AND ZONING REGULATIONS AND FOREST CONSERVATION REQUIREMENTS.

DESIGN NARRATIVE:

NATURAL RESOURCE PROTECTION AND ENHANCEMENT
THE PROJECT DOES NOT IMPACT ADJACENT NATURAL RESOURCES. NO NEARBY TREES WILL BE REMOVED AND A NEARBY STREAM AND ITS BUFFER WILL NOT BE IMPACTED. A PORTION OF EXISTING MAN-MADE STEEP SLOPES WILL BE REQUIRED TO BE IMPACTED TO INSTALL THE COMPOST FACILITY, A PUBLIC ESSENTIAL SERVICE, AND OPERATED BY HOWARD COUNTY GOVERNMENT. THE LIMIT OF STEEP SLOPE IMPACTS WILL BE MINIMIZED TO THE MAXIMUM EXTENT POSSIBLE. A WAIVER PETITION TO 16.116(b)(1), STEEP SLOPE DISTURBANCE, WILL SUBMITTED AT TIME OF SDP REVIEW.

AINTENANCE OF NATURAL FLOW PATTERNS THE PROJECT DOES NOT ALTER NATURAL DRAINAGE PATTERNS.

REVISION

REDUCTION OF IMPERVIOUS AREAS
THE NEW IMPERVIOUS AREA ASSOCIATED WITH THE PROJECT HAS BEEN MINIMIZED AS MUCH

AS IS PRACTICABLE TO STILL ALLOW THE FUNCTIONALITY OF THE COMPOSTING OPERATION. ITEGRATION OF EROSION AND SEDIMENT CONTROL IN THE SWM STRATEGY

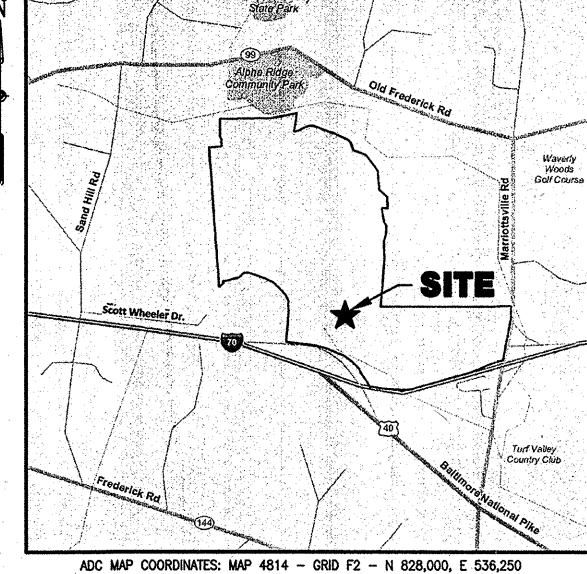
THE PROPOSED EROSION AND SEDIMENT CONTROL MEASURES ARE COMPATIBLE WITH THE PROPOSED ESD PRACTICES.

IMPLEMENTATION OF ESD PLANNING TECHNIQUES AND PRACTICES
THE PROPOSED PROJECT WILL UTILIZE A COMBINATION OF MICRO-BIORETENTION, AND SUBMERGED GRAVEL WETLAND FACILITIES, A GRASS SWALE AND BIORETENTIONS TO PROVIDED ESD TO THE MAXIMUM EXTENT PRACTICABLE. FOR ALL REMAINING REQUIRED ESD VOLUME, EXISTING WET POND WILL BE UTILIZED FOR TREATMENT PURPOSES.

DATE

WGS84 (DECIMAL DEGREES)
LAT: 39.310328 LONG: -79.912165

NORTHING: 598,623.21034 EASTING: 1.337.186.70975



LOCATION MAP

- NO GRADING, REMOVAL OF VEGETATIVE COVER OR TREES, PAVING AND NEW STRUCTURES SHALL BE PERMITTED WITHIN WETLANDS. STREAM(S) OF THEIR BUFFERS, FOREST CONSERVATION EASEMENT AREAS AND 100 YEAR FLOODPLAIN
- THIS CAPITAL PROJECT SITE PLAN IS EXEMPT FROM FOREST CONSERVATION REQUIREMENTS OUTLINED IN APPENDIX "O" OF THE HOWARD COUNTY FOREST CONSERVATION MANUAL. FOREST CONSERVATION OBLIGATIONS HAVE BEEN PREVIOUSLY ADDRESSED BY SDP-97-128. THE SYSTEM OF COORDINATES USED BY HOWARD COUNTY IS BASED IN THE FOLLOWING DATUMS AND PROJECTIONS:
 - VERTICAL: NAVD88

GENERAL NOTES:

- THE CONTRACTOR SHALL NOTIFY "MISS UTILITY" AT 1-800-257-7777 AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION WORK BEING DONE. ALL SIGN POSTS USED FOR TRAFFIC CONTROL SIGNS INSTALLED IN THE COUNTY RIGHT-OF-WAY SHALL BE MOUNTED ON A 2" GALVANIZED STEEL
- PERFORATED, SQUARE TUBE POST (14 GAUGE) INSERTED INTO A 2-1/2" GALVANIZED STEEL, PERFORATED, SQUARE TUBE SLEEVE (12 GAUGE) -

- 10. THE EXISTING WATER LINES HAVE BEEN PROVIDED FROM TWO SEPARATE AS-BUILT PLANS PREPARED BY KCI TECHNOLOGIES DATED DECEMBER
- 2004 AND JUNE 2009.
- 11. THE SOILS HAVE BEEN PROVIDED FROM THE WEB SOIL SURVEY IN MARCH 2014.
- 12. WATER IS PUBLIC. 13. SEWER IS PUBLIC.
- 14. STORMWATER MANAGEMENT IS PROVIDED VIA A COMBINATION OF MICRO-BIORETENTION AND SUBMERGED GRAVEL WETLAND FACILITIES ALONG WITH A GRASS SWALE TO PROVIDED ESD TO THE MAXIMUM EXTENT PRACTICABLE. FOR ALL REMAINING REQUIRED ESD VOLUME. AN EXISTING WET POND WILL BE UTILIZED FOR TREATMENT PURPOSES. ALL FACILITIES WILL BE OWNED AND MAINTAINED BY HOWARD COUNTY.
- 15. EXISTING UTILITIES ARE BASED ON THE SURVEY PREPARED BY HOWARD COUNTY SURVEY DIVISION DATED AUGUST 2011 16. THE FLOODPLAIN SHOWN HEREIN HAS BEEN PROVIDED FROM PLANS PREPARED BY URS DATED NOVEMBER 2006. THIS PLAN REFERENCES 1978
- FLOODPLAIN DELINEATION BY CENTURY ENGINEERING AND A 1986 UPDATE BY BERNARD JOHNSON, INC.
- 17. THE WETLANDS DELINEATION WAS OBTAINED FROM PLANS PREPARED BY SCS ENGINEERS DATED JULY 2013.

18. NO TRAFFIC STUDY IS REQUIRED FOR THIS PROJECT.

FEDERAL		STATE		LOCAL	
Wetlands	Shown	Tidal and Non-Tidal Wetlands	Shown	Steep Slopes	Shown
Major Waterways	Not Present	Wetlands of Special State Concern	Not Present	Highly Erodible Soils	Shown
Floodplains	Not Present	Wetland Buffers	Shown	Enhanced Stream Buffers	Not Present
		Stream Buffers	Not Present	Topography/Slopes	Shown
		Perennial Streams	Not Present	Springs	Not Present
		Floodplains	Not Present	Seeps	Not Present
		Forests	Shown	Intermittent Streams	Not Present
		Forest Buffers	Not Present	Vegetative Cover	Shown
	*	Critical Areas	Not Present	Soils	Shown
				Bedrock/Geology	Noted
>	125			Existing Drainage Areas	Shown

) Dr		3				S
INC			Perennial Streams	Not Present	Springs	Not Prese
vi LL be			Floodplains	Not Present	Seeps	Not Prese
LL DI			Forests	Shown	Intermittent Streams	Not Prese
			Forest Buffers	Not Present	Vegetative Cover	Shown
		†·	Critical Areas	Not Present	Soils	Shown
				,,	Bedrock/Geology	Noted
CH		A.S.			Existing Drainage Areas	Shown
l•	HYDROLOGIC SC	OIL GROUP	- HOWARD COUNTY, MA	ARYLAND*		The state of the s
•	MAP UNIT SYMBOL		MAP UNIT NAME	<u>HSG_RATIN</u>	IG <u>k rating</u>	,
	BaA		silt loam, 0-3% Slopes	D	0.32	
	GbB	Glads	tone loam, 3-8% Slopes	. B	0.20	

	H I DROLOGIC	SUIL GROUP - HOWARD COUNTY, WAR	KILAND"	,	
	MAP UNIT SYMBOL	MAP UNIT NAME	HSG RATING	k RATING	
	BaA	Baile silt loam, 0-3% Slopes	D	0.32	
	GbB	Gladstone loam, 3-8% Slopes	. В	0.20	
	GbC	Gladstone loam, 8-15% Slopes	В	0.20	
ED	GnB	Glenville-Baile silt loams, 0-8% Slopes	. C	0.37	
, AN	UbF	Udorthents, Refuse, 0-65% Slopes	N/A	N/A	,
1	*Soils information	provided from USDA NRCS Web Soil Survey			
ALCOHOLD IN	· · · · · · · · · · · · · · · · · · ·				

ROJECT: 14982.05

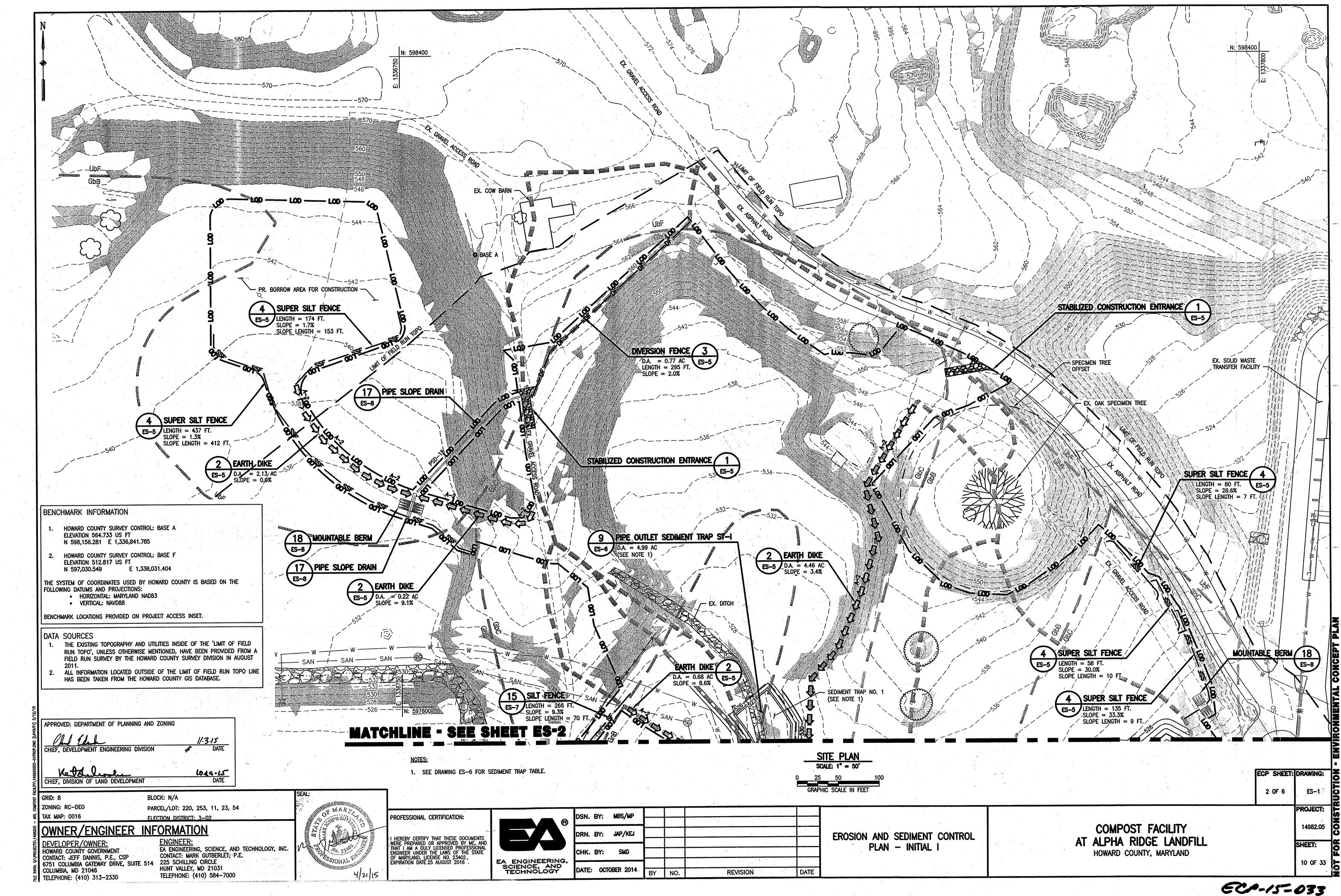
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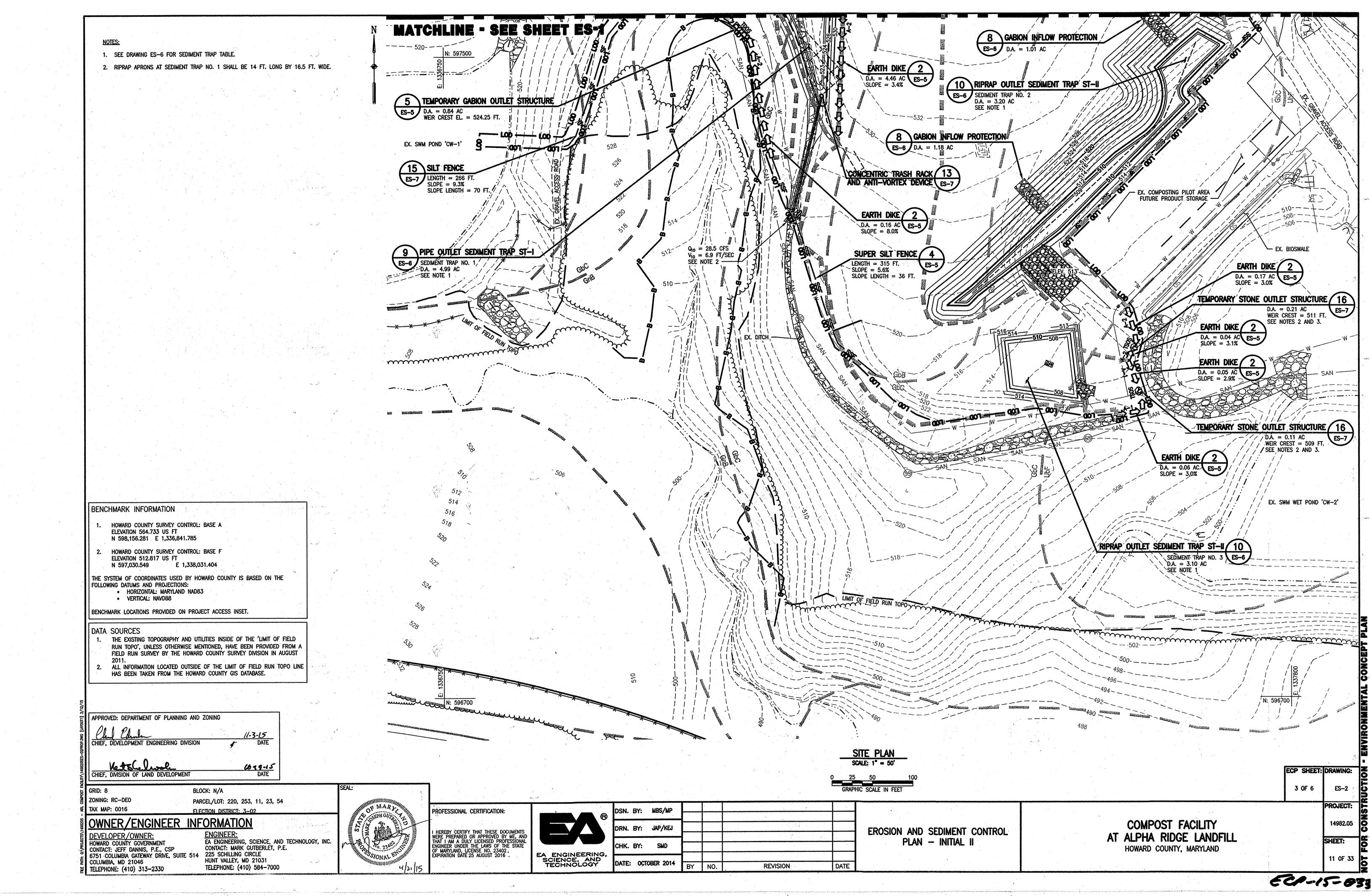
SHEET:

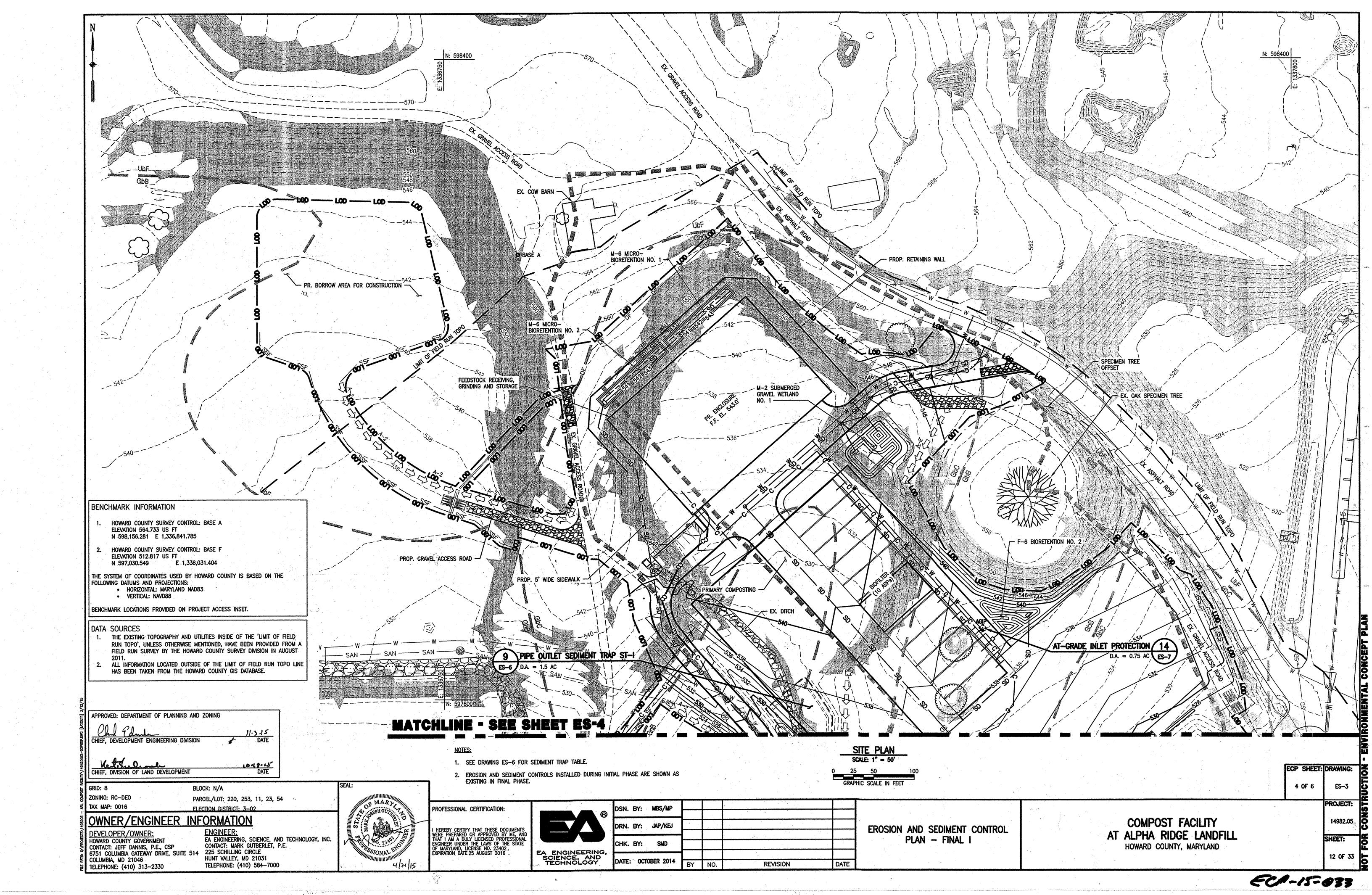
COMPOST FACILITY AT ALPHA RIDGE LANDFILL

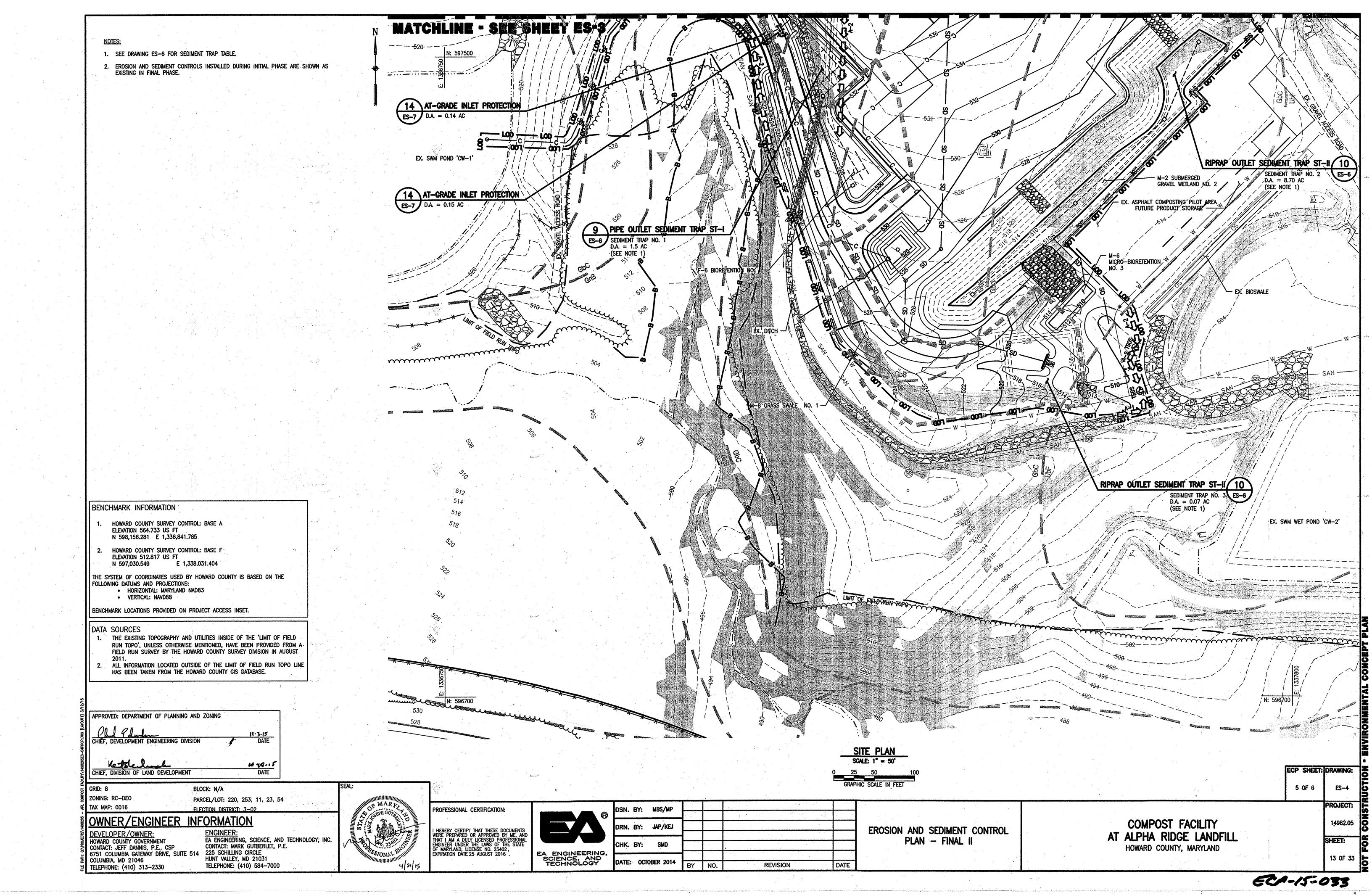
TITLE SHEET

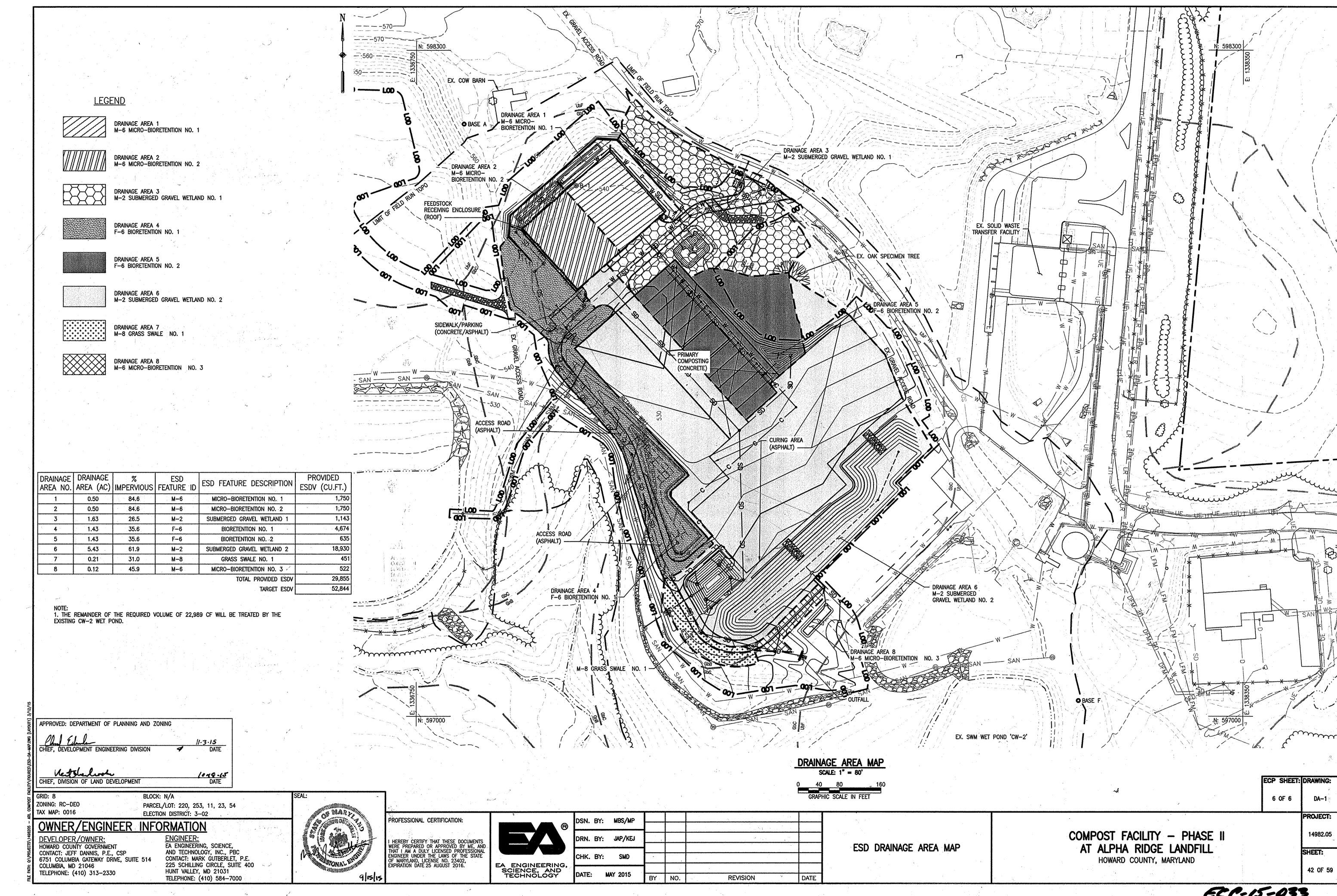
HOWARD COUNTY, MARYLAND











ECP-15-033