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LEGEND

- 400 — EXISTING CONTOUR
- 400 — PROPOSED CONTOUR
- STABILIZED CONSTRUCTION ENTRANCE
- EARTH DIKE
- SF — PROPOSED SILT FENCE
- SSF — PROPOSED SUPER SILT FENCE
- EXISTING TREELINE
- FP — 100 YEAR FLOODPLAIN
- SB — STREAM BUFFER
- CENTERLINE OF STREAM
- WB — WETLAND BUFFER
- LIMIT OF WETLAND
- DRAINAGE DIVIDE

EARTH DIKE SIZING FOR EXISTING CONDITIONS

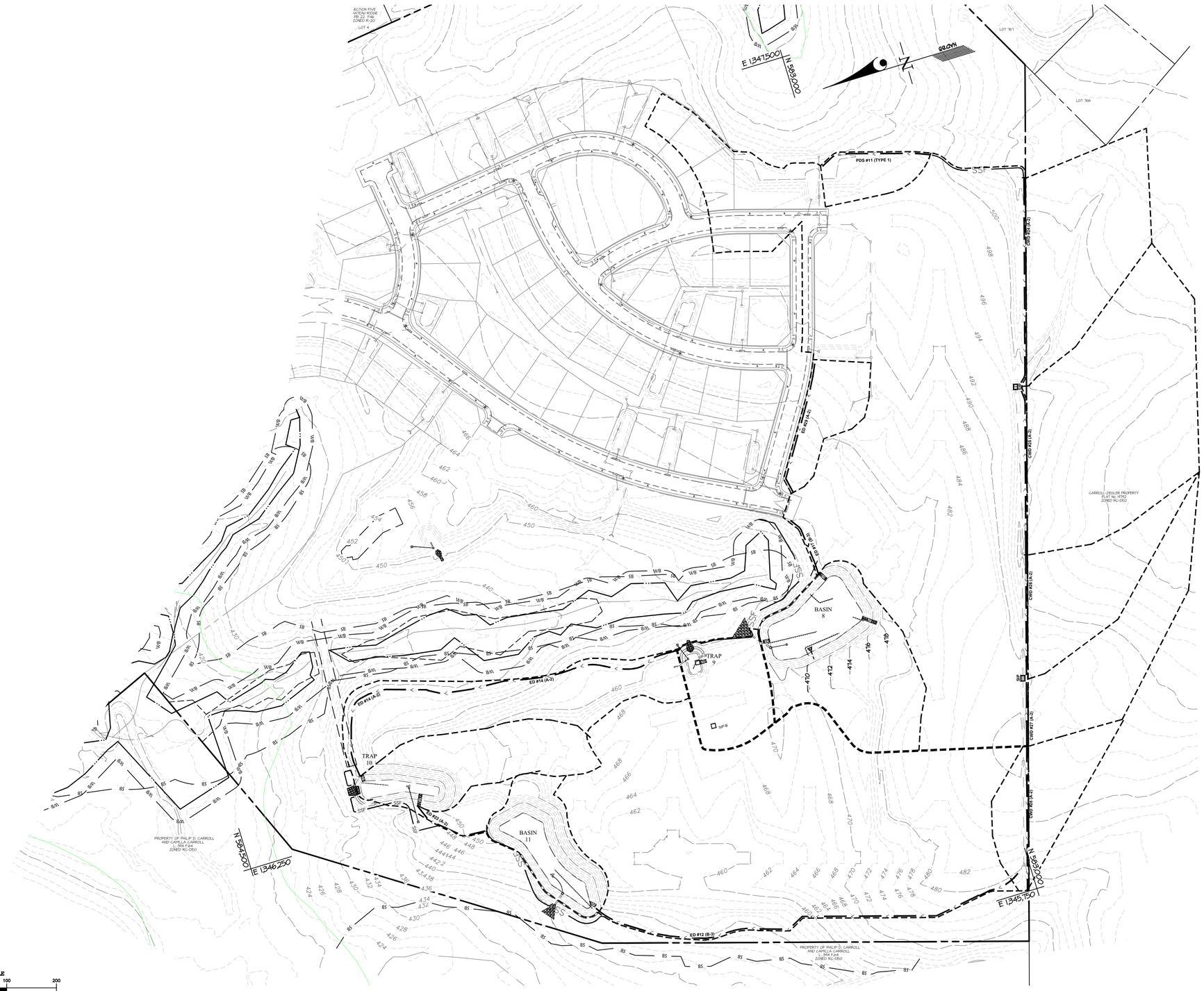
EX. EARTH DIKE TREATMENT (PER F-17-001)						
EARTH DIKE NO.	AVG. SLOPE	DRAINAGE AREA	TREATMENT	Q2	V2*	SHEAR STRESS (lb/ft²)
11	4.9%	0.40 AC.	A-2	1.14 CFS	4.65 FPS	0.55
12	4.5%	7.41 AC.	B-3	21.03 CFS	9.36 FPS	1.32
14	2.9%	1.61 AC.	A-2	4.57 CFS	5.41 FPS	0.53
17	2.6%	8.85 AC.	B-3	25.12 CFS	8.04 FPS	0.92
23	8.1%	0.37 AC.	A-2	1.05 CFS	5.46 FPS	0.71
24	2.6%	0.67 AC.	A-2	1.90 CFS	1.90 FPS	0.10
25	1.9%	4.01 AC.	A-2	11.38 CFS	2.81 FPS	0.16
26	2.2%	1.09 AC.	A-2	3.09 CFS	2.17 FPS	0.12
27	1.4%	0.46 AC.	A-2	1.31 CFS	1.23 FPS	0.04
28	1.2%	0.15 AC.	A-2	0.43 CFS	1.51 FPS	0.09

*2-YEAR VELOCITY VALUES COMPUTED USING HYDRAFLOW EXPRESS EXTENSION.

PROPOSED EARTH DIKE TREATMENT						
EARTH DIKE NO.	AVG. SLOPE	DRAINAGE AREA	TREATMENT	Q2	V2*	SHEAR STRESS (lb/ft²)
29	5.9%	0.35 AC.	A-2	1.56 CFS	5.40 FPS	0.63

*2-YEAR VELOCITY VALUES COMPUTED USING HYDRAFLOW EXPRESS EXTENSION.

NOTE: EARTH DIKE NUMBERING IS PER F-17-001 PLANS FOR CONSISTENCY.



GRAPHIC SCALE

100 0 50 100 200

1 inch = 100 ft.

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

DocuSigned by: 11/29/2021
Chief, Bureau of Highways — Date

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING

DocuSigned by: 11/24/2021
Director — Date

DocuSigned by: Chad Edmundson 11/23/2021
Chief, Development Engineering Division — Date

GLW
PLANNING | ENGINEERING | SURVEYING
3909 NATIONAL DRIVE | SUITE 250 | BURTONSVILLE, MD 20866 | GLWPA.COM
PHONE: 301-421-4024 | BALT: 410-880-1820 | DC&VA: 301-989-2524 | FAX: 301-421-4186

DESIGNED BY: AWL
DRAWN BY: AWL
CHECKED BY: DEV

DATE	REVISION	BY	APP'R.

PREPARED FOR:

WESTMOUNT DEVELOPMENT CORPORATION
307 INTERNATIONAL CIRCLE, SUITE 130
HUNT VALLEY, MARYLAND 21030
410-489-4489
ATTN.: ROBERT GOODIER

PROFESSIONAL CERTIFICATION

I HEREBY CERTIFY THAT THESE PLANS 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. 12975
EXPIRATION DATE: MAY 26, 2022

10/28/21

STATE OF MARYLAND — ANDREW W. LEWIS — No. 12975 — PROFESSIONAL ENGINEER

EARTHDIKE TREATMENT PLAN - EXISTING CONDITIONS

WESTMOUNT - PHASE 4

LOTS 295-394 AND OPEN SPACE LOTS 395-418

A RESUBDIVISION OF NON-BUILDABLE BULK PARCELS E & F

ELECTION DISTRICT No. 2 — HOWARD COUNTY, MARYLAND

SCALE	ZONING	G. L. W. FILE No.
1"=100'	R-ED	13-013
DATE	TAX MAP - GRID	SHEET
OCT., 2021	23-6&12	31 OF 45

F-21-032

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