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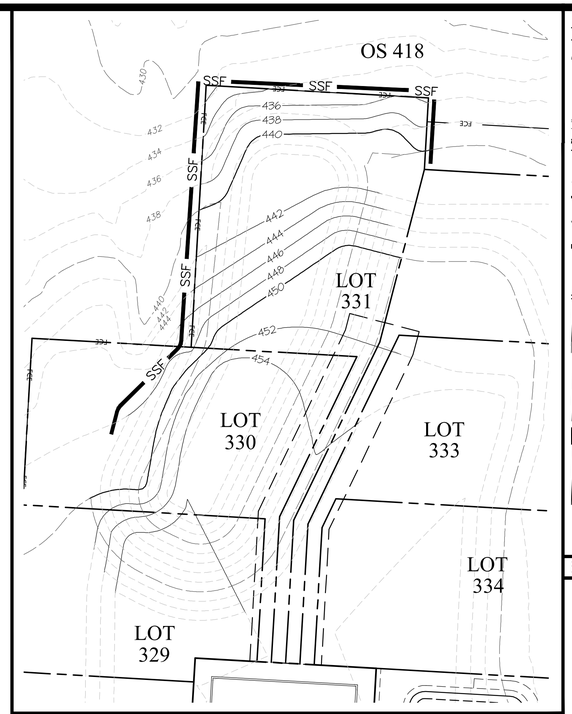
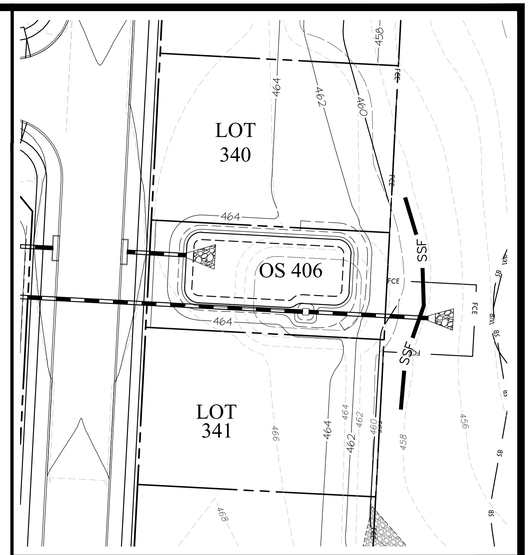
SEDIMENT CONTROL DESIGN INFORMATION	UNITS	BASIN 8	BASIN 11
TOTAL INITIAL AREA DRAINING TO BASIN	ACRES	13.8	8.6
TOTAL FINAL AREA DRAINING TO BASIN	ACRES	13.5	7.9
REQUIRED TOTAL STORAGE VOLUME	CF	93,340	54,343
REQUIRED WET STORAGE VOLUME	CF	24,840	15,480
REQUIRED DRY STORAGE VOLUME	CF	68,550	43,863
BASIN BOTTOM ELEVATION	FT	459.60	439.50
RISER CREST (DRY STORAGE) ELEVATION	FT	464.27	444.31
PROVIDED TOTAL STORAGE VOLUME	CF	93,663	54,694
WET STORAGE ELEVATION (OUTLET ELEVATION)	FT	460.45	441.00
PROVIDED WET STORAGE VOLUME	CF	25,113	15,806
PROVIDED DRY STORAGE VOLUME	CF; FT	68,550 @ 464.24	43,863 @ 444.24
CLEANOUT ELEVATION	FT	460.28	440.25
DISTANCE FROM RISER CREST ELEV. TO CLEAN OUT ELEV.	FT	3.99	4.06
Q_{10} (BEFORE DEVELOPMENT)	CFS	18.22	10.67
Q_{10} (AFTER DEVELOPMENT) (UNMANAGED)	CFS	74.93	43.12
Q_{10} (AFTER DEVELOPMENT) (MANAGED)	CFS	41.31 @ 465.39	24.29 @ 445.10
MINIMUM BASIN SURFACE AREA	ACRES	0.26	0.15
DESIGN Q_{PS} FOR BARREL	CFS; FT	41.31 @ 465.39	24.29 @ 445.10
BARREL HEAD, H_1 BARREL LENGTH, L	FT; FT	4.99; 45	4.60; 30
BARREL DIAMETER; Q_{BS}	IN; CFS	30; 46.9	30; 48.8
RISER DIAMETER; RISER HEIGHT; RISER HEAD	IN; FT; FT	42; 4.67; 1.12	42; 4.81; 0.79
TRASH RACK DIAMETER; TRASH RACK HEIGHT	IN; IN	60; 27	60; 27
EMERGENCY SPILLWAY CAPACITY Q_{ES}	CFS	N/A	N/A
WIDTH; H_D	FT; FT	N/A	N/A
EXIT CHANNEL SLOPE	%	N/A	N/A
EMERGENCY SPILLWAY CREST	FT	N/A	N/A
DESIGN HIGH WATER	FT	465.39	445.10
SETTLED TOP OF EMBANKMENT ELEVATION	FT	467.39	447.10
Y; Z; PIPE SLOPE; L_b	FT; H:V; %; FT	4.67; 2.5:1; 1.00; 34.6	4.81; 2.5:1; 1.00; 34.1
USE 1 SQUARE COLLAR; PROJECTION	FT; FT	1.69; 2.60	1.62; 2.56
Q_{9-d}	CFS	0.69	0.43
CALCULATED A_D	SF	0.10	0.06
DESIGN A_D (USED FOR DRAWN DOWN DEVICE)	SF	0.025	0.012
CALCULATED d_D	IN	4.32	3.36
MAXIMUM DIAMETER FROM TABLE 6.10	IN	6	4
DESIGN d_D	IN	2.125	1.5
DRAW-DOWN DEVICE PIPE DIAMETER	IN	12	12
MINIMUM A_t	SF	0.10	0.05
PERFORATION DIAMETER, AREA	IN; SF	1; 0.0055	1; 0.0055
MINIMUM NUMBER OF PERFORATIONS	--	20	10
NUMBER OF LONGITUDINAL ROWS	--	3	2
PERFORATED PIPE LENGTH	FT	3	3
ACTUAL A_t (PERFORATION AREA x PERFORATIONS PROVIDED)	SF	0.12	0.09
A = SURFACE AREA AT WET STORAGE ELEVATION (r=#14)	SF	18,645	11,271
EFFECTIVE WIDTH, W_e	FT	97	75
FLOW LENGTH FROM INFLOW POINT TO OUTLET	FT	11, 173, 191	60
W_e x 2	FT	194	150
EFFECTIVE FLOW LENGTH, L_e	FT	194, 202, 194	151

SEDIMENT CONTROL DESIGN INFORMATION	UNITS	TRAP 9	TRAP 10	TRAP 13
DRAINAGE AREA - INITIAL	ACRES	0.8	3.2	0.2
DRAINAGE AREA - INTERIM	ACRES	---	---	---
DRAINAGE AREA - FINAL	ACRES	1.7	3.0	0.9
TOTAL STORAGE REQUIRED	CF	6,120	17,658	3,240
TOTAL STORAGE PROVIDED	CF	6,120	23,614	3,310
WET STORAGE REQUIRED	CF	3,060	5,760	1,620
WET STORAGE PROVIDED	CF	3,060	8,047	1,669
DRY STORAGE REQUIRED	CF	3,060	11,898	1,620
DRY STORAGE PROVIDED	CF	3,060	15,517	1,641
TRAP BOTTOM ELEVATION	FT	458.20	434.00	448.00
TRAP DIMENSIONS	FT x FT	45 x 24	157 x 30	30 x 14
WEIR CREST (DRY STORAGE) ELEVATION	FT	461.85	438.20	452.14
OUTLET (WET STORAGE) ELEVATION	FT	460.31	435.70	450.50
CLEANOUT ELEVATION	FT	459.26	434.85	449.25
TOP OF EMBANKMENT ELEVATION	FT	462.60	439.20	453.14
SIDE SLOPE	H:V RATIO	2:1	2:1	2:1
TOP OF EMBANKMENT WIDTH	FT	4	4	4
WEIR LENGTH	FT	4.92	15.46	5.00
OUTLET PROTECTION - LENGTH	FT	10	10	10
OUTLET PROTECTION - WIDTH	FT	5	16	5
OUTLET PROTECTION - DEPTH	IN	19	19	19

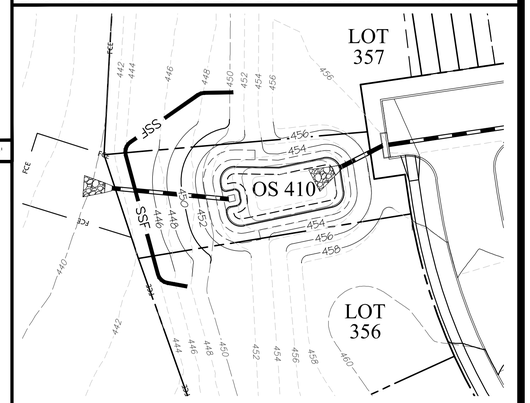
NOTE:
SEE SHEETS 29 & 30 FOR SEDIMENT TRAP/BASIN LOCATIONS.
SEE SHEETS 27 & 28 FOR SEDIMENT TRAP/BASIN BACKFILL PLAN.



BACKFILL DETAIL - STONE OUTLET SEDIMENT TRAP 10 SCALE: 1"=30'



BACKFILL DETAIL - STONE OUTLET SEDIMENT TRAP 9 SCALE: 1"=30'



BACKFILL DETAIL - STONE OUTLET SEDIMENT TRAP 13 SCALE: 1"=30'

PRIOR TO THE CONTRACTOR BACKFILLING THE TRAPS AND BASINS, THE DEVICES ARE TO BE DE-WATERED AND AT A MINIMUM, EXCAVATED TO THE BOTTOM ELEVATION SHOWN ON THESE PLANS. COMPACTION OF THE BACKFILL MATERIAL MUST BE PERFORMED TO A LEVEL APPROPRIATE FOR THE CONSTRUCTION OF HOMES IN THE FUTURE.

BUILDER'S CERTIFICATE

"I/WE CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A MARYLAND DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HSCD."

M. Jenny Rattle 10/27/21
SIGNATURE OF DEVELOPER/BUILDER DATE

ENGINEER'S CERTIFICATE

"I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT 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 CONSERVATION DISTRICT."

10/28/21
SIGNATURE OF ENGINEER DATE

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.

DocuSigned by: Alexander Bratchie 11/23/2021
HOWARD S.C.D. DATE

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
Chief, Division of Land Development Date

DocuSigned by: Chad Edmundsen 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: DEV
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 CHRISTOPHER LEWIS GIBBONS No. 12975 PROFESSIONAL ENGINEER

SEDIMENT TRAP BACKFILL PLAN

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.
AS SHOWN	R-ED	13-013
DATE	TAX MAP - GRID	SHEET
OCT., 2021	23-6&12	28 OF 45

L:\CADD\DRAWINGS\13013\PLANS BY GLW\ROADS-SD (PH4)\PHASE 4_27-28_SC TRAP INFORMATION.dwg, PLOTTED BY: Amy Langer, LAST SAVED: 10/25/2021 3:05 PM, LAST PLOTTED: 10/25/2021 3:05 PM

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