COUNTY COUNCIL

OF

TALBOT COUNTY, MARYLAND

2011 Legislative Session, Legislative Day No. :

November 22, 2011

Bill No.:

1213

Expiration Date:

January 26, 2011

Introduced by:

Mr. Bartlett, Mr. Duncan, Mr. Hollis, Mr. Pack, Ms. Price

A BILL TO REPEAL CHAPTER 164, TALBOT COUNTY CODE, STORMWATER MANAGEMENT, IN ITS ENTIRETY, AND RE-ENACT A NEW ORDINANCE TO IMPLEMENT NEWLY ADOPTED STORMWATER MANAGEMENT REQUIREMENTS MANDATED BY THE MARYLAND DEPARTMENT OF THE ENVIRONMENT (MDE) IN ACCORDANCE WITH MDE'S MODEL STORMWATER MANAGEMENT ORDINANCE, AS MODIFIED

By the Council:

November 22, 2011

Introduced, read first time, ordered posted, and public hearing scheduled on Tuesday, December 13, 2011 at 6:30 p.m. in the Bradley Meeting Room, South Wing, Talbot County Courthouse, 11 North Washington Street, Easton, Maryland 21601.

By Order Susan W. Moran, Secretary

A BILL TO REPEAL CHAPTER 164, TALBOT COUNTY CODE, STORMWATER MANAGEMENT, IN ITS ENTIRETY, AND RE-ENACT A NEW ORDINANCE TO IMPLEMENT NEWLY ADOPTED STORMWATER MANAGEMENT REQUIREMENTS MANDATED BY THE MARYLAND DEPARTMENT OF THE ENVIRONMENT (MDE) IN ACCORDANCE WITH MDE'S MODEL STORMWATER MANAGEMENT ORDINANCE, AS MODIFIED

	KEY
Boldfac	ce Heading or defined term.
<u>Underli</u>	ning Added to existing law by original bill.
Striketh	rough Deleted from existing law by original bill.
<u>Double</u>	underlining Added to bill by amendment.
Double	strikethroughDeleted from bill by amendment.
* *	*Existing law unaffected.

SECTION ONE: BE IT ENACTED BY THE COUNTY COUNCIL OF TALBOT COUNTY, MARYLAND, that Chapter 164, of the Talbot County Code entitled *Stormwater Management*, shall be and is hereby repealed and re-enacted as set forth herein.

Chapter 164 Stormwater Management

	<u>contents</u>	
1	§ 164-1.0 PURPOSE AND AUTHORITY	
2	§ 164-1.1 Criteria	
3	§ 164-1.2 Incorporation by reference	
4	§ 164-1.3 Grandfathering	
5	§ 164-2.0 DEFINITIONS	6
6	§ 164-3.0 APPLICABILITY	11
7	§ 164-3.1 Scope	11
8	§ 164-3.2 Exemptions	11
9	§ 164-3.3 Waivers/Watershed Management Plans	11
10	§ 164-3.4 Redevelopment	13
11	§ 164-3.5 Variance	15
12	§ 164-4.0 STORMWATER MANAGEMENT CRITERIA	15
13	§ 164-4.1 Minimum Control Requirements	15
14	§ 164-4.2 Stormwater Management Measures	16
15	§ 164-4.3 Specific Design Criteria	18
16	§ 164-5.0 STORMWATER MANAGEMENT PLANS	18
17	§ 164-5.1 Review and Approval of Stormwater Management Plans	19
18	§ 164-5.2 Contents and Submission of Stormwater Management Plans	19
19	§ 164-5.3 Preparation of Stormwater Management Plans	22
20	§ 164-6.0 PERMITS	22
21	§ 164-6.1 Permit Requirement	22
22	§ 164-6.2 Permit Fee	23
23	§ 164-6.3 Permit Suspension and Revocation	23
24	§ 164-6.4 Permit Conditions	23
25	§ 164-7.0 PERFORMANCE BOND	23
26	§ 164-8.0 INSPECTION	24
27	§ 164-8.1 Inspection Schedule and Reports	24
28	§ 164-8.2 Inspection Requirements During Construction	24
29	§ 164-9.0 MAINTENANCE	27
30	§ 164-9.1 Maintenance Inspection	27
31	§ 164-9.2 Maintenance Agreement	28
32	§ 164-9.3 Maintenance Responsibility	29
33	§ 164-10.0 APPEALS	29
34	§ 164-11.0 SEVERABILITY	29
35	§ 164-12.0 PENALTIES	29
36		*

§ 164-1.0 PURPOSE AND AUTHORITY

- This Ordinance is adopted to protect, maintain, and enhance public health, safety, and welfare,
- and establish minimum requirements to manage stormwater runoff by using environmental site
- design (ESD) to the maximum extent practicable (MEP). The goal is to maintain post
- development as nearly as possible to the predevelopment runoff characteristics: to reduce stream
- channel erosion, pollution, siltation and sedimentation, and local flooding; and use appropriate
- 42 structural best management practices (BMPs) only when necessary.

43

This Ordinance is adopted pursuant to the requirements of Environment Article, Title 4, Subtitle 2, Annotated Code of Maryland, 2009 replacement volume, and shall apply to all development within the unincorporated area of Talbot County. The County Engineer shall be responsible for the coordination and enforcement of this Ordinance.

48

§ 164-1.1 Criteria

49 50 51

The County Council, by resolution, may adopt, Criteria as a guide to administrating this Stormwater Management Ordinance.

525354

§ 164-1.2 Incorporation by reference

55

For the purpose of this Ordinance, the following documents are incorporated by reference:

565758

59

60

A. The 2000 Maryland Stormwater Design Manual, Volumes I & II (Maryland Department of the Environment, April 2000), and all subsequent revisions, is incorporated by reference by Talbot County and shall serve as the official guide for stormwater management principles, methods, and practices.

61 62

B. USDA Natural Resources Conservation Service Maryland Conservation Practice
 Standard Pond Code 378 (January 2000).

65 66

C. Talbot County Stormwater Management Process & Implementation Guide, as approved by resolution of the County Council.

67 68 69

§ 164-1.3 Grandfathering

70 71

A. In this section, the following terms have the meanings indicated:

72 73

(1) Administrative waiver.

75 76

74

(a) "Administrative waiver" means a decision by the County Engineer to allow construction of a project to be governed by the stormwater management ordinance and 2009 regulatory requirements in effect immediately prior to the effective date of this Ordinance.

77 78

79		(b)	"Administrative waiver" is distinct from a waiver granted pursuant to §
80			164-3.3 of this Ordinance.
81			
82	(2)	Appı	roval.
83		(a)	"Approval" means a favorable decision by the County that a project meets
84			requirements for a specific stage in the development review process.
85			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
86		(b)	"Approval" does not include an acknowledgement by the County Engineer
87		` '	that submitted material has been received for review.
88			The same of the sa
89	(3)	Final	project approval.
90	(-)	1 11141	r project approvar.
91		(a)	"Final project approval" moons approval of the final standard
92		(4)	"Final project approval" means approval of the final stormwater
93			management plan and erosion and sediment control plan required to
94			construct a stormwater management system.
95		(b)	Without and the state of the st
96		(b)	"Final project approval" also includes execution and delivery of a public
90 97			works agreement for stormwater management systems, if required by the
			County Engineer.
98	(4)	UD 1	
99	(4)	"Prel	iminary project approval" means a favorable decision in a preliminary
100		devel	lopment review process that included, at a minimum:
101			
102		(a)	The number of planned dwelling units or lots;
103		(b)	The proposed project density;
104		(c)	The proposed size and location of all land uses for the project;
105		(d)	A plan that identifies:
106			(i) The proposed drainage patterns;
107			(ii) The location of all points of discharge from the site; and
108			(iii) The type, location, and size of all stormwater management measures
109			based on site-specific stormwater management requirement computations;
110			and
111			and a second sec
112		(e)	Any other information that was required by the Country in 1.1.
113		(0)	Any other information that was required by the County including, but not limited to:
114			minted to.
115			(i) The proposed elignment leasting 1
116			(i) The proposed alignment, location, and construction type and standard
117			for all roads, access ways, and areas of vehicular traffic;

	(ii) A demonstration that the methods by which the development will be supplied with water and wastewater service are adequate; and
	(iii) The size, type, and general location of all proposed wastewater and water system infrastructure.
a pre	County Engineer may grant an administrative waiver to a development that received liminary project approval prior to May 4, 2010. Administrative waivers expire ding to § 164-1.3 C. of this Ordinance and may be extended according to § 164-1.3 this Ordinance.
Expir	ation of Administrative Waivers.
(1)	Except as provided for in § 164-1.3 D. of this Ordinance, an administrative waiver shall expire on:
	(a) May 4, 2013, if the development does not receive final project approval prior to that date; or
	(b) May 4, 2017, if the development receives final project approval prior to May 4, 2013.
(2)	All construction authorized pursuant to an administrative waiver must be completed by May 4, 2017, or, if the waiver is extended as provided in § 164-1.3 D. of this Ordinance, by the expiration date of the waiver extension.
Exten	sion of Administrative Waivers.
(1)	Except as provided in § 164-1.3 D. (2) of this Ordinance, an administrative waiver shall not be extended.
(2)	An administrative waiver may only be extended if, by May 4, 2010 the development:
	(a) Has received a preliminary project approval; and
	(b) Was subject to a Development Rights and Responsibilities Agreement, a Tax Increment Financing approval, or an Annexation Agreement.
(3)	Administrative waivers extended according to § 164-1.3 D. (2) of this Ordinance shall expire when the Development Rights and Responsibilities Agreement, the Tax Increment Financing approval, or the Annexation Agreement expires.
	a pre accord D. of Expire (1) (2) Extend (1) (2)

<u>§ 164-2.0 DEFINITIONS</u>

161

162

A. The following definitions are provided for the terms used in this Ordinance:

163 164 (1) "Administration" means the Maryland Department of the Environment (MDE) 165 Water Management Administration (WMA). 166 167 **(2)** "Adverse impact" means any deleterious effect on waters or wetlands, including 168 their quality, quantity, surface area, species composition, aesthetics or usefulness 169 for human or natural uses which are or may potentially be harmful or injurious to 170 human health, welfare, safety or property, to biological productivity, diversity, or 171 stability or which unreasonably interfere with the enjoyment of life or property. 172 including outdoor recreation. 173 174 "Agricultural land management practices" means those methods and procedures (3) 175 used in the cultivation of land in order to further crop and livestock production 176 and conservation of related soil and water resources. 177 178 **(4)** "Applicant" means the owner, including successors in title or interests, of land 179 which is the subject of an application for development or a permit to carry out 180 construction of a stormwater management system, facility, or structure pursuant to 181 this chapter, or a representative of the owner who has received written authority to 182 act on behalf of the owner. 183 184 (5) "Approving Agency" means the Talbot County Department of Public Works. 185 186 (6) "Aquifer" means a porous water bearing geologic formation generally restricted to 187 materials capable of yielding an appreciable supply of water. 188 189 **(7)** "Best management practice (BMP)" means a structural device or nonstructural 190 practice designed to temporarily store or treat stormwater runoff in order to 191 mitigate flooding and reduce pollution. 192 193 (8) "Channel protection storage volume (Cp_v)" means the volume used to design 194 structural management practices to control stream channel erosion. Methods for 195 calculating the channel protection storage volume are specified in the 2000 196 Maryland Stormwater Design Manual. 197 198 (9) "Clearing" means the removal of trees, their stumps, and brush from the land but 199 shall not include the ordinary mowing of grass. 200 201 (10)"Concept plan" means the first of three required plan approvals (concept, site 202 development and final) that includes the information necessary to allow an initial 203 evaluation of a proposed project. 204 205 (11)"County" means Talbot County, Maryland.

206

207 (12)"County Engineer" means the Director of the Talbot County Department of 208 Public Works, or an authorized representative of the Talbot County Department of 209 Public Works. 210 (13)"Design manual" means the 2000 Maryland Stormwater Design Manual, and all 211 subsequent revisions, that serves as the official guide for stormwater management 212 principles, methods, and practices. 213 214 (14)"Detention structure" means a permanent structure for the temporary storage of 215 runoff which is designed so as not to create a permanent pool of water. 216 217 (15)"Develop land" or "Land Development" or "Development" means to change the 218 runoff characteristics of a parcel of land in conjunction with construction or 219 alteration. 220 221 (16)"Direct discharge" means the concentrated release of stormwater to tidal waters or 222 vegetated tidal wetlands from new development or redevelopment projects in the 223 Critical Area. 224 225 (17)"Drainage area" means that area contributing runoff to a single point measured in 226 a horizontal plane, which is enclosed by a ridge line. 227 228 (18)"Environmental site design (ESD)" means using small-scale stormwater 229 management practices, nonstructural techniques, and better site planning to mimic 230 natural hydrologic runoff characteristics and minimizes the impact of land 231 development on water resources. Methods for designing ESD practices are 232 specified in the Design Manual. 233 234 (19)"Exemption" means those land development activities that are not subject to the 235 stormwater management requirements contained in this Ordinance. 236 237 (20)"Extended detention" means a stormwater design feature that provides gradual 238 release of a volume of water to increase settling of pollutants and protect 239 downstream channels from frequent storm events. Methods for designing 240 extended detention BMPs are specified in the Design Manual. 241 242 (21)"Extreme flood volume (Q_f)" means the storage volume required to control those 243 infrequent but large storm events in which overbank flows reach or exceed the 244 boundaries of the 100-year floodplain. 245 246 (22)"Final stormwater management plan" means the last of three required plan 247 approvals (concept, site development and final) that includes the information 248 necessary to allow all approvals and permits to be issued by the approving 249 agency. 250 251 (23)"Flow attenuation" means prolonging the flow time of runoff to reduce the peak

252

discharge.

253 254 255 256	(24)	"Grading" means any act by which soil is cleared, stripped, stockpiled, excavated, scarified, filled, or any combination thereof.
257 258 259	(25)	"Guide" means the Talbot County Stormwater Management Process & Implementation Guide.
260 261 262	(26)	"Impervious area" means any surface that does not allow stormwater to infiltrate into the ground.
263 264	(27)	"Infiltration" means the passage or movement of water into the soil surface.
265 266 267 268 269	(28)	"Maximum extent practicable (MEP)" means to design a stormwater management system to exhaust all reasonable opportunities to use ESD planning techniques and treatment practices, and to use structural BMPs only where absolutely necessary.
270 271 272	(29)	"Off-site stormwater management" means the design and construction of a facility necessary to control stormwater from more than one development.
273 274 275	(30)	"On-site stormwater management" means the design and construction of systems necessary to control stormwater within an immediate development.
276 277 278 279 280	(31)	"Overbank flood protection volume (Q_p) " means the volume controlled by structural practices to prevent an increase in the frequency of out-of-bank flooding generated by development. Methods for calculating the overbank flood protection volume are specified in the Design Manual.
281 282 283 284 285 286	(32)	"Person" means the federal government, the State, any county, municipal corporation, or other political subdivision of the State, or any of their units, or an individual receiver, trustee, guardian, executor, administrator, fiduciary, or representative of any kind, or any partnership, firm, association, public or private corporation, or any other entity.
287 288	(33)	"Public Works" means Talbot County Department of Public Works.
289 290 291 292	(34)	"Planning techniques" means a combination of strategies employed early in project design to reduce the impact from development and to incorporate natural features into a stormwater management plan.
293 294 295 296	(35)	"Recharge volume (Re_v) " means that portion of the water quality volume used to maintain groundwater recharge rates at development sites. Methods for calculating the recharge volume are specified in the Design Manual.
297 298	(36)	"Redevelopment" means any construction, alteration, or improvement on sites where existing land use is commercial, industrial, institutional, or

299 300		multifamily residential and existing site impervious area exceeds 40 percent.
300	(27)	IID stantian stant II
301	(37)	"Retention structure" means a permanent structure that provides for the storage of
302		runoff by means of a permanent pool of water.
	(20)	HTD -4 Citi's H
304	(38)	"Retrofitting" means the implementation of ESD practices, the construction of a
305		structural BMP, or the modification of an existing structural BMP in a previously
306		developed area to improve water quality over current conditions.
307	(20)	NO 11
308	(39)	"Sediment" means soils or other surficial materials eroded, transported or
309		deposited by the action of wind, water, ice, or gravity.
310	(40)	
311	(40)	"Site" means any tract, lot, or parcel of land, or combination of tracts, lots, parcels
312		of land that are in single ownership, or are contiguous and in separate ownership,
313		where development is to be performed as part of a unit, subdivision, or project.
314		
315	(41)	"Site development plan" means the second of three (3) required plan approvals
316		(concept, site development and final) that includes the information necessary to
317		allow a detailed evaluation of a proposed project.
318		
319	(42)	"Stabilization" means prevention of soil movement by any of various
320		vegetative and/or structural means.
321		
322	(43)	"Stormwater" means water that originates from a precipitation event.
323		
324	(44)	"Stormwater management system" means the network of ESD planning
325		techniques, ESD practices and structural practices and conveyance facilities and
326		any other structure through which stormwater flows, infiltrates, or discharges
327		from a site.
328		
329	(45)	"Stripping" means any activity that removes the vegetative surface cover
330	` ,	including tree removal, clearing, grubbing, and storage or removal of topsoil.
331		
332	(46)	"Technical Advisory Committee" or "TAC" means the government departments
333	` ,	and agencies having review and approval authority over aspects of an application
334		for development activities, as defined in Chapter 190, Zoning, Subdivision and
335		Land Development, of the County Code.
336		Zana Zeresopmeni, of the County Code.
337	(47)	"Variance" means the modification of the minimum stormwater management
338	(.,)	requirements for specific circumstances where strict adherence to the
339		requirements would result in unnecessary hardship and would not fulfill the intent
340		of this Ordinance.
341		or and ordinality.
342	(48)	"Waiver" means the reduction of stormwater management requirements be-
343	(10)	"Waiver" means the reduction of stormwater management requirements by
344		the County Engineer based upon specific circumstances of a development.
JTT		

- 345 "Watercourse" means any natural or artificial stream, river, creek, ditch, channel, canal, conduit, culvert, drain, waterway, gully, ravine or wash, in and including any adjacent area that is subject to inundation from overflow or flood water.
- 349 (50) "Water quality volume (WQ_v)" means the volume needed to capture and treat 90 percent of the average annual rainfall events at a development site. Methods for calculating the water quality volume are specified in the Design Manual.

 352
 - (51) "Watershed" means the total drainage area contributing stormwater runoff to a single point.

§ 164-3.0 APPLICABILITY

§ 164-3.1 Scope

353

354

355

356357

358

363364

365

366367

368

376377

388

No person shall develop land without obtaining a final project approval in accordance with § 164-1.3A.(3) to control or manage runoff from such development except as provided within § 164-3.0. Stormwater management measures shall be designed consistent with the Design Manual and constructed according to an approved plan.

§ 164-3.2 Exemptions

The following development activities are exempt from the provisions of this Ordinance:

- A. Agricultural land management practices;
- 369 B. Additions or modifications to existing single family detached residential structures if they comply with § 164-3.2 C. of this Ordinance; 371
- 372 C. Any developments that do not disturb over 5,000 square feet of land area; and 373
- D. Land development activities that the Administration determines will be regulated under specific State laws, which provide for managing stormwater runoff.

§ 164-3.3 Waivers/Watershed Management Plans

- 378 379 A. Except as provided in § 164-3.3. B. and D. of this Ordinance, the County Engineer shall 380 grant stormwater management quantitative control waivers only to those projects within 381 areas where watershed management plans have been developed consistent with § 164-3.3 382 G. of this Ordinance. Requests for quantitative stormwater management waivers shall be 383 in writing and shall contain sufficient descriptions, drawings, and other information 384 necessary to demonstrate that ESD has been implemented to the MEP. A separate 385 written waiver request shall be required in accordance with the provisions of this section 386 if there are subsequent additions, extensions, or modifications to a development that has 387 received a waiver.
- B. Except as provided in § 164-3.3 D. of this Ordinance, if watershed management plans

consistent with § 164-3.3 G. of this Ordinance have not been developed, a stormwater management quantitative control waiver may be granted to the following types of projects provided that ESD has been implemented to the MEP:

(1) That have direct discharge to tidally influenced receiving waters; or,

(2) That are in-fill development located in a Priority Funding Area where the economic feasibility of the project is tied to the planned density, and where

- (2) That are in-fill development located in a Priority Funding Area where the economic feasibility of the project is tied to the planned density, and where implementation of the 2009 regulatory requirements would result in a loss of the planned development density, provided that:
 - (a) Public water and sewer and stormwater conveyance exist;
 - (b) The quantitative waiver is applied only to the impervious cover that previously existed on the site;
 - (c) ESD to the MEP is used to meet the full water quality treatment requirements for the entire development; and
 - (d) ESD to the MEP is used to provide full quantity control for all new impervious surfaces; or
- When the approving agency determines that existing circumstances reasonably prevent implementation of quantity control practices.
- 415 C. Except as provided in § 164-3.3 D. of this Ordinance, stormwater management qualitative control waivers apply only to:
 - (1) In-fill development projects where ESD has been implemented to the MEP and other BMPs are not feasible;
 - (2) Redevelopment projects where the requirements of § 164-3.4 of this Ordinance are satisfied; or
 - (3) Sites where the approving agency determines that existing circumstances reasonably prevent implementation of ESD to the MEP.
- D. Stormwater management quantitative and qualitative control waivers may be granted for phased development projects if a system designed to meet the 2000 regulatory requirements and the County ordinance for multiple phases has been constructed by May 4, 2010. If the 2009 regulatory requirements cannot be met for future phases constructed after May 4, 2010, all reasonable efforts to incorporate ESD in future phases must be demonstrated.
- Waivers shall be granted only when it has been demonstrated that ESD has been implemented to the MEP. Waivers shall:

436 437 **(1)** Be based on the unique circumstances of a specific development on a case-by-case 438 basis: 439 440 (2) Consider the cumulative effects of any previous County waiver; and 441 442 (3) Reasonably ensure the development will not adversely impact stream quality. 443 444 F. If the County has established an overall watershed management plan for a specific 445 watershed, then the County may develop quantitative waiver and redevelopment 446 provisions that differ from § 164-3.3 B and § 164-3.4 of this Ordinance. 447 448 G. A watershed management plan developed for the purpose of implementing different 449 stormwater management policies for waivers and redevelopment shall: 450 451 (1) Include detailed hydrologic and hydraulic analyses to determine hydrograph 452 timing; 453 454 (2) Evaluate both quantity and quality management and opportunities for ESD 455 implementation; 456 457 (3) Include a cumulative impact assessment of current and proposed watershed 458 development; 459 460 **(4)** Identify existing flooding and receiving stream channel conditions: 461 462 (5) Be performed on a reasonable scale; 463 464 (6) Specify where on-site or off-site quantitative and qualitative stormwater 465 management practices are to be implemented; 466 467 **(7)** Be consistent with the General Performance Standards for Stormwater 468 Management in Maryland of the Design Manual; and 469 470 (8) Be approved by the Administration. 471 472 473 § 164-3.4 Redevelopment 474 475 Α. Stormwater management plans are required by the County for all redevelopment, unless 476 otherwise specified by watershed management plans adopted pursuant to § 164-3.3 G. of 477 this Ordinance. Stormwater management measures must be consistent with the Design 478 Manual. 479

All redevelopment designs shall either:

480

481

B.

482 (1) Reduce impervious area within the limit of disturbance (LOD) by at least 50 483 percent according to the Design Manual; or 484 485 **(2)** Implement ESD to the MEP to provide water quality treatment for at least 50 486 percent of the existing impervious area within the LOD; or 487 488 (3) Use a combination of § 164-3.4 (1) and § 164-3.4 (2) above for at least 50 percent 489 of the existing site impervious area. 490 491 C. Alternative stormwater management measures may be used to meet the requirements in 492 § 164-3.4 B. of this Ordinance if the applicant demonstrates to the satisfaction of the 493 County Engineer that impervious area reduction has been maximized and ESD has been 494 implemented to the MEP. Alternative stormwater management measures include. 495 without limitation: 496 497 **(1)** On-site structural BMPs; 498 499 **(2)** Off-site structural BMPs that provide water quality treatment for an area equal to 500 or greater than 50 percent of the existing impervious area; or 501 502 (3) A combination of impervious area reduction, ESD implementation, and on-site or 503 off-site structural BMPs for an area equal to or greater than 50 percent of the 504 existing site impervious area within the LOD. 505 506 D. The County may develop separate policies for providing water quality treatment for 507 redevelopment projects if the requirements of § 164-3.4 B. and C. of this Ordinance 508 cannot be met. Any separate redevelopment policy shall be reviewed and approved by 509 the Administration and may include, without limitation: 510 511 (1) A combination of ESD and on or off-site structural BMPs; 512 513 **(2)** Retrofitting, including upgrades to existing BMPs, filtering practices, and off-site 514 ESD implementation: 515 516 (3) Participation in a stream restoration project; 517 518 **(4)** Pollution trading: 519 520 (5) Payment of a fee-in-lieu; or 521 522 **(6)** A partial waiver of the treatment requirements if ESD is not practicable. 523 524 E. If the County Engineer determines that it is not practical to meet the 2009 regulatory 525 requirements using ESD on a specific redevelopment project, the County Engineer shall 526 consider alternatives in § 164-3.4D. (1) through (6) above, in order of priority in deciding

- what alternatives shall be required. The County Engineer's decision may consider without limitation:
 - (1) Whether the project is in an area targeted for development incentives such as a Priority Funding Area, a designated Transit Oriented Development area, or a designated Base Realignment and Closure Revitalization and Incentive Zone;
 - Whether the project is necessary to accommodate growth consistent with County Comprehensive Plan; or
 - (3) Whether bonding and financing have already been secured based on an approved development plan.
 - F. For any net increase in impervious area on a redevelopment project stormwater management shall be treated as new development in accordance with § 164-4.0.

§ 164-3.5 Variance

The County Engineer may grant, in writing, a variance from any requirement of § 164-4.0, Stormwater Management Criteria, if there are unique physical characteristics of the site such that strict adherence to the requirements of this Ordinance will cause unnecessary hardship. The applicant shall submit a written request for a variance to the County Engineer, which shall fully describe the specific variance sought, and reasons for the request. The County Engineer shall not grant a variance without satisfactory evidence that implementation of ESD to the MEP has been investigated thoroughly and the above requirements for a variance have been met.

§ 164-4.0 STORMWATER MANAGEMENT CRITERIA

§ 164-4.1 Minimum Control Requirements

- A. The minimum control requirements established in this section and the Design Manual are as follows:
 - Planning techniques, nonstructural practices, and design methods specified in the Design Manual shall be used to implement ESD to the MEP. The use of ESD planning techniques and treatment practices must be exhausted before any structural BMP is implemented. Stormwater management plans for development projects subject to this Ordinance shall be designed using ESD sizing criteria, recharge volume, water quality volume, and channel protection storage volume criteria according to the Design Manual. The MEP standard is met when channel stability is maintained, predevelopment groundwater recharge is replicated, nonpoint source pollution is minimized, and structural stormwater management practices are used only if determined to be absolutely necessary.
 - (2) Control of the 2-year or 10-year frequency storm event may be required according to the Design Manual if the County Engineer determines that additional

572 stormwater management is necessary because historical flooding problems exist 573 or are anticipated. 574 575 (3) Without limitation of the foregoing, the County Engineer may require more than 576 the minimum control requirements specified in this Ordinance if hydrologic, 577 topographic or stream channel conditions warrant. 578 579 B. Alternate minimum control requirements may be adopted subject to County and 580 Administration approval if alternative requirements will implement ESD to the MEP and 581 control flood damage, accelerated stream erosion, water quality, and sedimentation. 582 Comprehensive watershed studies may also be required. 583 584 § 164-4.2 Stormwater Management Measures 585 586 The ESD planning techniques and practices and structural stormwater management measures established in this Ordinance and the Design Manual shall be used, either alone or in 587 588 combination in a stormwater management system. A developer shall demonstrate that ESD has 589 been implemented to the MEP before the use of a structural BMP is considered in developing a 590 stormwater management system. 591 592 A. ESD Planning Techniques and Practices. 593 594 (1) The following ESD planning techniques shall be incorporated into the stormwater 595 management plan as necessary to satisfy minimum control requirements 596 established in § 164-4.1 of this Ordinance, to: 597 598 (a) Preserve and protect natural resources; 599 (b) Conserve natural drainage patterns; 600 (c) Minimize impervious area; 601 (d) Reduce runoff volume: 602 (e) Maintain 100 percent of the annual 603 predevelopment groundwater recharge volume; 604 605 (f) Use green roofs, permeable pavement, reinforced turf, and other 606 alternative surfaces: 607 608 (g) Limit soil disturbance, mass grading, and compaction; and 609 610 (h) Clustering development; 611 612

613 614 615 616		(2)	The following ESD treatment practices shall be incorporated into the stormwater management plan as necessary to satisfy minimum control requirements established in § 164-4.1 of this Ordinance:		
617			(a) Disconnection of rooftop runoff;		
618			(b) Disconnection of non-rooftop runoff;		
619			(c) Sheetflow to conservation areas;		
620			(d) Rainwater harvesting;		
621			(e) Submerged gravel wetlands;		
622			(f) Landscape infiltration;		
623			(g) Infiltration berms;		
624			(h) Dry wells;		
625			(i) Micro-bioretention;		
626			(j) Rain gardens;		
627			(k) Swales; and		
628			(l) Enhanced filters;		
629 630 631 632 633 634		(3)	The Guide shall be used for evaluation and selection of ESD planning techniques and treatment practices. Also, the Guide details the interrelationship between the Planning & Zoning development review process and the review and approval of stormwater management plans.		
635 636 637 638		(4)	ESD planning techniques and practices or treatment practices not specified in this § 164-4.2(A) may be considered if approved by the Administration and allowed by the County Engineer.		
639 640 641 642		(5)	The use of ESD planning techniques and treatment practices specified in this section shall not conflict with existing State or local law or local ordinances, regulations, or policies.		
643 644	B.	Struct	rural Stormwater Management		
645 646 647		(1)	The following structural stormwater management practices shall be incorporated into the stormwater management plan as necessary to satisfy the minimum control requirements established in § 164-4.1 of this Ordinance:		

- (a) Stormwater management ponds: (b) Stormwater management wetlands; (c) Stormwater management infiltration; (d) Stormwater management filtering systems; and (e) Stormwater management open channel systems. (2) The performance criteria specified in the Design Manual with regard to general feasibility, conveyance, pretreatment, treatment and geometry, environment and landscaping, and maintenance shall be considered when selecting structural stormwater management practices. (3) Structural stormwater management practices shall be selected to accommodate the unique hydrologic or geologic regions of the County.
 - C. A stormwater maintenance and inspection agreement incorporating the approved stormwater management system shall be recorded in the County Land Records. A stormwater management system shall remain functional and shall be unaltered by subsequent property owners. Prior approval from the County Engineer shall be obtained before any stormwater management system is altered.
 - D. Alternative ESD planning techniques and treatment practices and structural stormwater measures may be used to control runoff from new development if they meet performance criteria established in the Design Manual and are approved by the Administration and allowed by the County Engineer. Practices used for redevelopment projects shall be approved by the County Engineer
 - E. To modify any minimum control requirement or design criteria, an applicant shall submit an analysis of the impact of stormwater flows downstream to the County Engineer. The analysis shall include hydrologic and hydraulic calculations necessary to determine the impact of hydrograph timing modifications of the proposed development upon a dam, highway, structure, or natural point of restricted streamflow. The point of investigation shall be established, with concurrence of the County Engineer, downstream of the first downstream tributary whose drainage area equals or exceeds the contributing area to the project or stormwater management facility.

§ 164-4.3 Specific Design Criteria

The design, methodologies, and construction specifications, subject to the approval of the County Engineer, shall be as specified in the Design Manual and this Ordinance.

§ 164-5.0 STORMWATER MANAGEMENT PLANS

§ 164-5.1 Review and Approval of Stormwater Management Plans

- A. For any proposed development, the applicant shall submit phased stormwater management plans to Public Works for review and approval. At a minimum, plans shall be submitted for concept, site development, and final stormwater management phases of project design. Each submittal shall include the content specified in § 164-5.2 of this Ordinance and meet all requirements of the Design Manual and § 164-4.0 of this Ordinance.
- B. The County shall perform a technical review of the stormwater management plans for each phase of site design and provide coordinated comments as may be required from appropriate agencies such as Talbot County Soil Conservation District (SCD) and the Departments of Planning & Zoning, and Public Works. The applicant shall adequately address all comments from Public Works and other agencies, subject to Public Works review and approval, at each phase of project design before subsequent submissions will be accepted.

§ 164-5.2 Contents and Submission of Stormwater Management Plans

A. Concept Plan

The applicant shall submit a concept plan that provides sufficient information for initial assessment of the proposed project to determine whether stormwater management can be provided according to § 164-4.2 of this Ordinance and the Design Manual. Plans submitted for concept approval shall include, without limitation:

- (1) A map at a scale specified by the County Engineer showing site location, existing natural features, water and other sensitive resources, topography, and natural drainage patterns;
- (2) The anticipated location of all proposed impervious areas, buildings, roadways, parking, sidewalks, utilities, and other site improvements;
- (3) The location of the proposed limit of disturbance, erodible soils, steep slopes, and areas to be protected during construction;
- (4) Preliminary estimates of stormwater management requirements, the selection and location of ESD practices to be used, and the location of all points of discharge from the site;
- (5) A narrative that supports the concept design and describes how ESD will be implemented to the MEP; and
- (6) Any other information required by the County Engineer.
- 738 B. Site Development Plan
 739 Following concept plan approval by the County Engineer, the applicant shall

740 submit a site development plan that addresses all previous comments and that contains 741 sufficient detail to allow appropriate review, including without limitation: 742 743 (1) All information provided during the concept plan review; 744 745 (2) Final site layout, exact impervious area locations and acreages, proposed 746 topography, delineated drainage areas at all points of discharge from the site, and 747 stormwater volume computations for ESD practices and quantity control 748 structures; 749 750 (3) A proposed erosion and sediment control plan that contains the construction 751 sequence, any phasing necessary to limit earth disturbances and impacts to natural 752 resources and an overlay plan showing the types and locations of ESD and 753 erosion and sediment control practices to be used; 754 755 **(4)** A narrative that supports the site development design, describes how ESD will be 756 used to meet the minimum control requirements, and justifies any proposed 757 structural stormwater management measure; and 758 759 (5) Any other information required by the County Engineer. 760 761 C. Final Plan 762 Following site development approval by the County Engineer, the applicant shall submit final erosion and sediment control and stormwater management plans that 763 764 address all comments received during the previous review. Plans submitted for final 765 approval shall include sufficient detail to allow all approvals and permits to be issued as 766 follows: 767 768 (1) Final erosion and sediment control plans shall be submitted according to COMAR 769 26.17.01.05; and 770 771 **(2)** Final stormwater management plans shall be submitted for approval in the form of 772 construction drawings and be accompanied by a report that includes sufficient 773 information to evaluate the effectiveness of the proposed runoff control design. 774 775 D. Reports submitted for final stormwater management plan approval shall include without 776 limitation: 777 778 (1) Geotechnical investigations including soil maps, borings, site specific 779 recommendations, and any additional information necessary for the final 780 stormwater management design; 781 782 **(2)** Drainage area maps depicting predevelopment and post development runoff flow 783 path segmentation and land use: 784 785 **(3)** Hydrologic computations of the applicable ESD and unified sizing criteria 786 according to the Design Manual for all points of discharge from the site;

787			
788		(4)	Hadaalia ahaa ahaa ahaa ahaa ahaa ahaa ahaa
789		(4)	Hydraulic and structural computations for all ESD practices and structural
			stormwater management measures to be used;
790		(5)	
791		(5)	A narrative that supports the final stormwater management design; and
792		4	
793		(6)	Any other information required by the County Engineer.
794			
795	E.	Const	ruction drawings submitted for final stormwater management plan approval shall
796		inclu	de, but are not limited to:
797			
798		(1)	A vicinity map;
799			
800		(2)	Existing and proposed topography and proposed drainage areas, including areas
801			necessary to determine downstream analysis for proposed stormwater
802			management facilities;
803			,
804		(3)	Any proposed improvements including location of buildings or other structures,
805		` /	impervious surfaces, storm drainage facilities, and all grading;
806			and the grading,
807		(4)	The location of existing and proposed structures and utilities;
808		(.)	The resultant of existing and proposed structures and utilities,
809		(5)	Any easements and rights-of-way;
810		(5)	This cuscinents and rights-or-way,
		(6)	The delineation if annicable of the 100 year floodnlain and any on site
811		(6)	The delineation, if applicable, of the 100-year floodplain and any on-site
811 812		(6)	The delineation, if applicable, of the 100-year floodplain and any on-site wetlands;
811 812 813			wetlands;
811 812 813 814		(6)(7)	wetlands; Structural and construction details including representative cross sections for all
811 812 813 814 815			wetlands; Structural and construction details including representative cross sections for all components of the proposed drainage system or systems, and stormwater
811 812 813 814 815 816			wetlands; Structural and construction details including representative cross sections for all
811 812 813 814 815 816 817		(7)	wetlands; Structural and construction details including representative cross sections for all components of the proposed drainage system or systems, and stormwater management facilities;
811 812 813 814 815 816 817 818			wetlands; Structural and construction details including representative cross sections for all components of the proposed drainage system or systems, and stormwater
811 812 813 814 815 816 817 818 819		(7)	wetlands; Structural and construction details including representative cross sections for all components of the proposed drainage system or systems, and stormwater management facilities; All necessary construction specifications;
811 812 813 814 815 816 817 818 819 820		(7)	wetlands; Structural and construction details including representative cross sections for all components of the proposed drainage system or systems, and stormwater management facilities;
811 812 813 814 815 816 817 818 819 820 821		(7) (8) (9)	wetlands; Structural and construction details including representative cross sections for all components of the proposed drainage system or systems, and stormwater management facilities; All necessary construction specifications; A sequence of construction;
811 812 813 814 815 816 817 818 819 820 821 822		(7)	wetlands; Structural and construction details including representative cross sections for all components of the proposed drainage system or systems, and stormwater management facilities; All necessary construction specifications; A sequence of construction; Data for total site area, disturbed area, new impervious area, and total impervious
811 812 813 814 815 816 817 818 819 820 821 822 823		(7) (8) (9)	wetlands; Structural and construction details including representative cross sections for all components of the proposed drainage system or systems, and stormwater management facilities; All necessary construction specifications; A sequence of construction;
811 812 813 814 815 816 817 818 819 820 821 822 823 824		(7) (8) (9) (10)	wetlands; Structural and construction details including representative cross sections for all components of the proposed drainage system or systems, and stormwater management facilities; All necessary construction specifications; A sequence of construction; Data for total site area, disturbed area, new impervious area, and total impervious area;
811 812 813 814 815 816 817 818 819 820 821 822 823 824 825		(7) (8) (9)	wetlands; Structural and construction details including representative cross sections for all components of the proposed drainage system or systems, and stormwater management facilities; All necessary construction specifications; A sequence of construction; Data for total site area, disturbed area, new impervious area, and total impervious area; A table showing the ESD and unified sizing criteria volumes required in the
811 812 813 814 815 816 817 818 819 820 821 822 823 824 825 826		(7) (8) (9) (10)	wetlands; Structural and construction details including representative cross sections for all components of the proposed drainage system or systems, and stormwater management facilities; All necessary construction specifications; A sequence of construction; Data for total site area, disturbed area, new impervious area, and total impervious area;
811 812 813 814 815 816 817 818 819 820 821 822 823 824 825 826 827		(7) (8) (9) (10) (11)	Structural and construction details including representative cross sections for all components of the proposed drainage system or systems, and stormwater management facilities; All necessary construction specifications; A sequence of construction; Data for total site area, disturbed area, new impervious area, and total impervious area; A table showing the ESD and unified sizing criteria volumes required in the Design Manual;
811 812 813 814 815 816 817 818 819 820 821 822 823 824 825 826 827 828		(7) (8) (9) (10)	wetlands; Structural and construction details including representative cross sections for all components of the proposed drainage system or systems, and stormwater management facilities; All necessary construction specifications; A sequence of construction; Data for total site area, disturbed area, new impervious area, and total impervious area; A table showing the ESD and unified sizing criteria volumes required in the
811 812 813 814 815 816 817 818 819 820 821 822 823 824 825 826 827 828 829		(7) (8) (9) (10) (11) (12)	Structural and construction details including representative cross sections for all components of the proposed drainage system or systems, and stormwater management facilities; All necessary construction specifications; A sequence of construction; Data for total site area, disturbed area, new impervious area, and total impervious area; A table showing the ESD and unified sizing criteria volumes required in the Design Manual; A table of materials to be used for stormwater management facility planting;
811 812 813 814 815 816 817 818 819 820 821 822 823 824 825 826 827 828 829 830		(7) (8) (9) (10) (11)	Structural and construction details including representative cross sections for all components of the proposed drainage system or systems, and stormwater management facilities; All necessary construction specifications; A sequence of construction; Data for total site area, disturbed area, new impervious area, and total impervious area; A table showing the ESD and unified sizing criteria volumes required in the Design Manual;
811 812 813 814 815 816 817 818 819 820 821 822 823 824 825 826 827 828 829 830 831		(7) (8) (9) (10) (11) (12) (13)	wetlands; Structural and construction details including representative cross sections for all components of the proposed drainage system or systems, and stormwater management facilities; All necessary construction specifications; A sequence of construction; Data for total site area, disturbed area, new impervious area, and total impervious area; A table showing the ESD and unified sizing criteria volumes required in the Design Manual; A table of materials to be used for stormwater management facility planting; All soil boring logs and locations;
811 812 813 814 815 816 817 818 819 820 821 822 823 824 825 826 827 828 829 830		(7) (8) (9) (10) (11) (12)	Structural and construction details including representative cross sections for all components of the proposed drainage system or systems, and stormwater management facilities; All necessary construction specifications; A sequence of construction; Data for total site area, disturbed area, new impervious area, and total impervious area; A table showing the ESD and unified sizing criteria volumes required in the Design Manual; A table of materials to be used for stormwater management facility planting;

- 834 (15) Certification by the applicant that all stormwater management construction will be done according to this plan;
 - (16) An as-built certification signature block to be executed after project completion; and
 - (17) Any other information required by the County Engineer.

F. The applicant shall obtain any easements or other property rights or interests from affected adjacent property owners concerning modification of water flow and drainage, in accordance with the Design Manual, from the site. Approval of a stormwater management plan does not create any new right to collect or direct runoff onto adjacent or downstream property. The County's adoption and implementation of stormwater management controls through this Ordinance is required by Maryland state law and is a governmental function. The County shall have no liability in tort to any applicant, any third person, firm, corporation, or other entity in connection with the review, approval, or disapproval of any plan, stormwater management system, stormwater management measure, technique, or structure, or any amendments, modifications, or changes thereto, or for any other decision or action in connection with or resulting from application of this chapter.

§ 164-5.3 Preparation of Stormwater Management Plans

- A. The design of stormwater management plans shall be prepared by an individual whose qualifications are acceptable to the County Engineer. The County Engineer may require that the design be prepared by either a professional engineer, professional land surveyor, or landscape architect licensed in the State, as necessary to protect the public or the environment.
- B. If a stormwater BMP requires either a dam safety permit from MDE or small pond approval from the Talbot County Soil Conservation District, the design shall be prepared by a professional engineer licensed in the State.

§ 164-6.0 PERMITS

§ 164-6.1 Permit Requirement

A grading or building permit may not be issued for any parcel or lot unless final erosion and sediment control plans have been approved by Talbot County Soil Conservation District and stormwater management plans have been approved by the County Engineer that meet all the requirements of the Design Manual and this Ordinance. Where appropriate, a building permit may not be issued without:

A. Recorded easements for the stormwater management facility and easements to provide adequate access for inspection and maintenance from a public right-of-way;

- 879 B. A recorded stormwater management maintenance agreement as described in § 164-9.2 of this Ordinance; and
- 882 C. A performance bond as described in § 164-7.0 of this Ordinance.

§ 164-6.2 Permit Fee

884

885

891

892 893

894

895

896

908

909

913

914

Non-refundable permit fees will be collected at each phase of stormwater management plan submittal. Permit fees will provide for the cost of plan review, administration, management of the permitting process, and inspection of all projects subject to this Ordinance. A permit fee

schedule shall be established by the County Council based upon the relative complexity of the project and may be amended from time to time.

§ 164-6.3 Permit Suspension and Revocation

Any permits or approvals issued to the applicant for the project by the County associated with an approved stormwater management plan may be disapproved, suspended or revoked after written notice to the permittee for any of the following reasons:

- Any violation(s) of the conditions of the approved stormwater management plan;
- 899 B. Changes in site runoff characteristics for which a waiver was granted; 900
- 901 C. Construction other than in accordance with the approved plan; 902
- 903 D. Noncompliance with correction notice(s) or stop work order(s) issued for any stormwater management practice or system; or
- 906 E. An immediate danger exists in a downstream area.

§ 164-6.4 Permit Conditions

In granting an approval for any phase of site development, the County Engineer may impose such conditions that may be deemed necessary to ensure compliance with the provisions of this Ordinance and the preservation of public health and safety.

§ 164-7.0 PERFORMANCE BOND

915 The County Engineer shall require from the applicant a surety or cash bond, irrevocable letter of 916 credit, or other security acceptable to the County prior to the issuance of any building or grading permit for the construction of a project requiring stormwater management. The amount of 917 918 security shall not be less than one hundred twenty-five percent (125%) of the total estimated 919 construction cost of all stormwater management facilities. The bond required in this section 920 shall include provisions relative to forfeiture for failure to complete work specified in the 921 approved stormwater management plan, compliance with all of the provisions of this Ordinance 922 and other applicable laws and regulations, and any time limitations. The bond shall not be fully released without a final inspection of the completed work acceptable to the County Engineer, 923

submission of "as-built" plans, and certification of completion by the applicant that all stormwater management facilities comply with the approved plan and the provisions of this Ordinance.

§ 164-8.0 INSPECTION

§ 164-8.1 Inspection Schedule and Reports

A. The applicant shall notify the County Engineer at least 48 hours before commencing any work in conjunction with site development, the stormwater management plan, and upon completion of the project.

B. The applicant shall perform and document inspections for each ESD planning technique and practice at the stages of construction specified in the Design Manual. Inspections shall be performed and certified by the applicant or a professional engineer licensed in the State of Maryland as specified by the County Engineer. At a minimum, all ESD and other nonstructural practices shall be inspected upon completion of final grading, the establishment of permanent stabilization, and before issuance of final project approval by Public Works.

C. Written inspection reports shall include:

(1) The date and location of the inspection;

(2) Certification that construction is in compliance with the approved stormwater management plan, except as noted;

(3) All changes, variations or deviations from the approved construction plan or specifications; and

(4) Any violations that exist.

D. No work shall proceed on the next phase of development until the County Engineer has reviewed and approved the inspection report for all work previously completed.

E. The County shall give the applicant written notice of violations which shall describe the nature of the violation, the corrective action required and any stop work order(s).

§ 164-8.2 Inspection Requirements During Construction

A. At a minimum, the applicant shall make and document inspections at the following stages of construction:

(1) For ponds:

(a) Upon completion of excavation to sub-foundation and, when required,

970 971		installation of structural supports or reinforcement for structures, including but not limited to:		
972			<i>(</i> 15)	
973			(i)	Core trenches for structural embankments;
974				
975			(ii)	Inlet and outlet structures, anti-seep collars or diaphragms, and
976				watertight connectors on pipes; and
977				
978			(iii)	Trenches for enclosed storm drainage facilities;
979				
980		(b)		g placement of structural fill, concrete, and installation of piping and
981			catch	basins;
982				
983		(c)	Durin	g backfill of foundations and trenches;
984				
985		(d)	Durin	g embankment construction; and
986				
987		(e)	Upon	completion of final grading and establishment of permanent
988			stabil	ization.
989				
990	(2)	Wetla	ands – a	t the stages specified for pond construction in § 164-8.2 A (1) of this
991		Ordin	iance, d	luring and after wetland reservoir area planting, and during the
992				ng season to verify a vegetation survival rate of at least 50 percent.
993				•
994	(3)	For in	nfiltratio	on trenches:
995				
996		(a)	Durin	g excavation to subgrade;
997				
998		(b)	Durin	g placement and backfill of under drain systems and observation
999			wells;	
1000				
1001		(c)	Durin	g placement of geotextiles and all filter media;
1002				,
1003		(d)	Durin	g construction of appurtenant conveyance systems such as diversion
1004				ures, pre-filters and filters, inlets, outlets, and flow distribution
1005				ures; and
1006				
1007		(e)	Upon	completion of final grading and establishment of permanent
1008		, ,		zation.
1009				
1010	(4)	For in	nfiltratio	on basins – at the stages specified for pond construction in § 164-8.2
1011				is Ordinance and during placement and backfill of under drain
1012		syster		
1013		=		
1014	(5)	For fi	ltering s	systems:
1015			_	
1016		(a)	Durin	g excavation to subgrade;

1017				
1018			(b)	During placement and backfill of under drain systems;
1019			(0)	build placement and bucking of under drain systems,
1020			(c)	During placement of geotextiles and all filter media;
1021			()	61
1022			(d)	During construction of appurtenant conveyance systems such as flow
1023				diversion structures, pre-filters and filters, inlets, outlets, orifices, and flow
1024				distribution structures; and
1025				
1026			(e)	Upon completion of final grading and establishment of permanent
1027				stabilization.
1028		(6)	_	
1029		(6)	For o	pen channel systems:
1030			()	
1031			(a)	During excavation to subgrade;
1032 1033			(1-)	
1033			(b)	During placement and backfill of under drain systems for dry swales;
1034			(c)	During installation of disubuscus shorts down a series of disubuscus shorts down a ser
1036			(0)	During installation of diaphragms, check dams, or weirs; and
1037			(d)	Upon completion of final grading and establishment of permanent
1038			(4)	stabilization.
1039				Stabilization.
1040	B.	The C	County 1	may, enforce this Ordinance by any one or a combination of the following
1041		remed	lies. Pu	resuit of one remedy does not preclude pursuit of others:
1042				Factorian Paragraphic
1043		(1)	A noti	ice of violation describing the corrective action required;
1044				• ,
1045		(2)	A stop	work order may be issued;
1046				
1047		(3)	Bonds	s or sureties may be enforced;
1048		<i>(</i> ((((((((((
1049		(4)	Admıı	nistrative abatement orders;
1050 1051		(5)	A .d:	
1051		(5)	Admii	nistrative assessment of civil penalties;
1052		(6)	In add	lition to one other continue a similar discounting to the second
1055		(0)		dition to any other sanctions, a civil action seeking damages, declaratory, extive or other relief.
1055			mjune	dive of other refier.
1056		(7)	Chapte	er 58, Talbot County Code, "Enforcement of Code," shall be applied to
1057		(.)		ions of this Ordinance.
1058			,	of this of thinking.
1059	C.	Once	constru	ction is complete, the applicant shall submit "as-built" plan certification by
1060		either	a profe	essional engineer or professional land surveyor licensed in the State of
1061		Maryl	and, as	approved by the County Engineer, to ensure that ESD planning techniques,
1062		treatm	nent pra	ctices, and structural stormwater management measures and conveyance
1063		systen	ns comp	ply with the specifications contained in the approved plans. At a minimum,

- 1064 "as-built" certification shall include a set of drawings identifying all differences between 1065 the approved stormwater management plan and actual construction. The County 1066 Engineer may require additional information.
- 1068 D. The applicant shall prepare and submit to the County notice of construction completion 1069 for submission to the Administration on a form supplied by the Administration for each 1070 structural stormwater management practice within 45 days after construction has been 1071 completed and inspected, and has been approved by the County. The type, number, total 1072 drainage area, and total impervious area treated by all ESD techniques and practices shall 1073 be reported to the Administration on a site by site basis. If BMPs requiring SCD 1074 approval are constructed, notice of construction completion shall also be submitted to the 1075 appropriate SCD.

§ 164-9.0 MAINTENANCE

1076 1077

1078

1089

1096

1097 1098

1099 1100

1101

1102 1103

1104

1107

§ 164-9.1 Maintenance Inspection

- 1079 A. The applicant shall ensure that preventative maintenance is performed for all privately 1080 owned ESD treatment systems and structural stormwater management measures in 1081 accordance with a maintenance agreement as described in § 164-9.2 of this Ordinance. 1082 The County shall inspect all ESD treatment systems and structural stormwater 1083 management measures during the first year of operation and at least once every 3 years 1084 thereafter to ensure the approved stormwater management system remains intact and 1085 functional, and is in compliance with the maintenance agreement. The applicant(s), 1086 jointly and severally shall reimburse the County for the reasonable costs of such 1087 inspections in accordance with a fee schedule set, established, and amended by the 1088 County Council from time to time.
- 1090 B. Inspection reports shall be maintained by Public Works for all ESD treatment systems and structural stormwater management measures.
- 1093 C. Inspection reports for ESD treatment systems and structural stormwater management measures shall include the following:
 - (1) The date of inspection;
 - (2) Name of inspector;
 - An assessment of the quality of the stormwater management system related to ESD treatment practice efficiency and the control of runoff to the MEP;
 - (4) The condition of:
- 1105 (a) Vegetation or filter media; 1106
 - (b) Fences or other safety devices;

1108				
1109			(c)	Spillways, valves, or other control structures;
1110			` '	1 2,
1111			(d)	Embankments, slopes, and safety benches;
1112				
1113			(e)	Reservoir or treatment areas;
1114 1115			(1)	Inlot and and at the control of the
1116			(f)	Inlet and outlet channels or structures;
1117			(g)	Underground drainage;
1118			(8)	ondorground dramago,
1119			(h)	Sediment and debris accumulation in storage and forebay areas;
1120			, ,	<i>5</i> ,
1121			(i)	Any nonstructural practices to the extent practicable; and
1122				
1123			(j)	Any other item that could affect the proper function of the stormwater
1124				management system.
1125		(5)	_	
1126		(5)	Desci	ription of needed maintenance.
1127 1128	D.	The	1:	-1-11
1129	D.	of no	ippiicani	shall have 30 days, unless extended by the County Engineer, from the date
1130		chall	inco of the	he results of inspection to repair or correct any deficiencies. The County ll repairs to ensure satisfactory completion.
1131		Silaii	mspect a	in repairs to ensure satisfactory completion.
1132	E.	If an	inspectio	on by the County discloses that the condition of a stormwater management
1133				ts an immediate danger to public health or safety the County may take such
1134				essary to protect the public. Any cost incurred by the County shall be
1135		asses	sed agair	ast the applicant, as provided in § 164-9.2 C. of this Ordinance.
1136			_	· · · · · · · · · · · · · · · · · · ·
1137	<u>§ 164</u>	1-9.2 M	<u>aintenan</u>	ce Agreement
1138		- .	_	
1139	A.	Prior	to the	issuance of any building permit for which stormwater management is
1140		requi	red, the	County shall require the applicant or owner to execute an inspection and
1141 1142		maini	tenance a	agreement binding on all subsequent owners of land served by a privately
1142		facili	u stormv	water management system. Such agreement shall provide for access to the
1144				onable times for regular inspections by the County Engineer to ensure that naintained in proper working condition to meet design standards.
1145		the ra	icility 15 1	maintained in proper working condition to meet design standards.
1146		(1)	The agr	eement shall also provide that the applicant shall indemnify the County and
1147		(-)		e County harmless from and against any liability, costs, or expenses in
1148				ion with the operation or maintenance of the stormwater management
1149			facility.	
1150				
1151		(2)		eement shall also provide that all amounts due the County in connection
1152				e administration or implementation of this chapter shall billed to the owner,
1153				nt, or other responsible party and shall be payable in full within thirty (30)
1154			days.	

1155

1156 B. The agreement shall be recorded by the applicant or owner in the land records of Talbot 1157 County.

1158

1159 C. The agreement shall also provide that, if after notice by the County Engineer to correct a 1160 violation requiring maintenance work, satisfactory corrections are not made by the 1161 owner(s) within a reasonable period of time (30 days maximum), the County or its 1162 designee may perform all necessary work to place the facility in proper working 1163 condition or to perform the maintenance. The owner(s) of the facility shall be assessed 1164 the cost of the work, including reasonable overhead, and any penalties.

1165

§ 164-9.3 Maintenance Responsibility

1166 1167 1168

1169

1170

1171

A. The property owner or any other person or agent in control of property that contains stormwater management systems shall maintain all ESD practices, grade surfaces, walls, drains, dams and structures, vegetation, erosion and sediment control measures, and other protective devices in good condition and shall promptly repair and restore the same to comply with all applicable requirements.

1172 1173 1174

1175

1176

B. A maintenance schedule is required for the life of any structural stormwater management facility or system and ESD practice. It shall set forth the maintenance to be completed, the time period for completion, and the party responsible to perform the maintenance, and shall be set forth on the approved stormwater management plan.

1177 1178

§ 164-10.0 APPEALS

1179

1180 Any person aggrieved by the action of any official in the administration or enforcement of this 1181 Ordinance, shall have the right to appeal to the Talbot County Board of Appeals. The appeal 1182 shall be filed and processed in the manner prescribed for administrative appeals under Chapter 1183 20, Board of Appeals, Talbot County Code.

1184

§ 164-11.0 SEVERABILITY

1185

1186 The parts and sub-parts of this Ordinance are intended to be severable. If any Court of competent 1187 jurisdiction should determine by a valid and final judgment that any part of this Ordinance, or the 1188 application thereof to any person or circumstance, is unconstitutional, illegal, or void for any 1189 reason, then, notwithstanding that determination, the remaining provisions hereof and the 1190 application thereof to all other persons and circumstances shall remain in full force and effect.

1191

§ 164-12.0 PENALTIES

1192

1198

1193 Any person convicted of violating the provisions of this Ordinance shall be guilty of a 1194 misdemeanor, and upon conviction thereof, shall be subject to a fine of not more than Five 1195 Thousand Dollars (\$5,000.00) for each such violation, not to exceed a total of Fifty Thousand 1196 Dollars (\$50,000.00), or imprisonment not exceeding one (1) year for each violation, or both, 1197 with costs imposed in the discretion of the court. Each day that a violation continues shall be a

separate offense. In addition, The County may institute injunctive, mandamus or other

1199 1200 1201 1202	appropriate action or proceedings of law to correct violations of this Ordinance. Any court of competent jurisdiction shall have the right to issue temporary or permanent restraining orders, injunctions or mandamus, or other appropriate forms of relief.
1203 1204 1205	Without limitation of the foregoing, violation of this Ordinance is also subject to the provisions of Chapter 58, Talbot County Code, as amended from time to time, which creates additional, supplemental, and non-exclusive alternative remedies for enforcement as set forth therein.

SECTION TWO: BE IT FURTHER ENACTED, that this Ordinance shall take effect sixty (60) days from the date of its passage.

SECTION THREE: AND BE IT FURTHER ENACTED, That if any provision of this Ordinance or the application thereof to any person or circumstance is held invalid for any reason in a court of competent jurisdiction, the invalidity does not affect other provisions or any other application of this Ordinance which can be given effect without the invalid provision or application, and for this purpose the provisions of this Ordinance are declared severable.

PUBLIC HEARING

Having been posted and Notice of time, date, and place of hearing, and Title of Bill No. 1213 having been published, a public hearing was held on Tuesday, December 13, 2011 at 6:30 p.m. in the Bradley Meeting Room, South Wing, Talbot County Courthouse, 11 North Washington Street, Easton, Maryland 21601.

BY THE COUNCIL

Read the third time.

ENACTED: December 13, 2011

By Order Susan Wymoran

Susan W. Moran, Secretary

Pack - Aye

Hollis - Aye

Bartlett - Aye

Price - Aye

Duncan - Aye