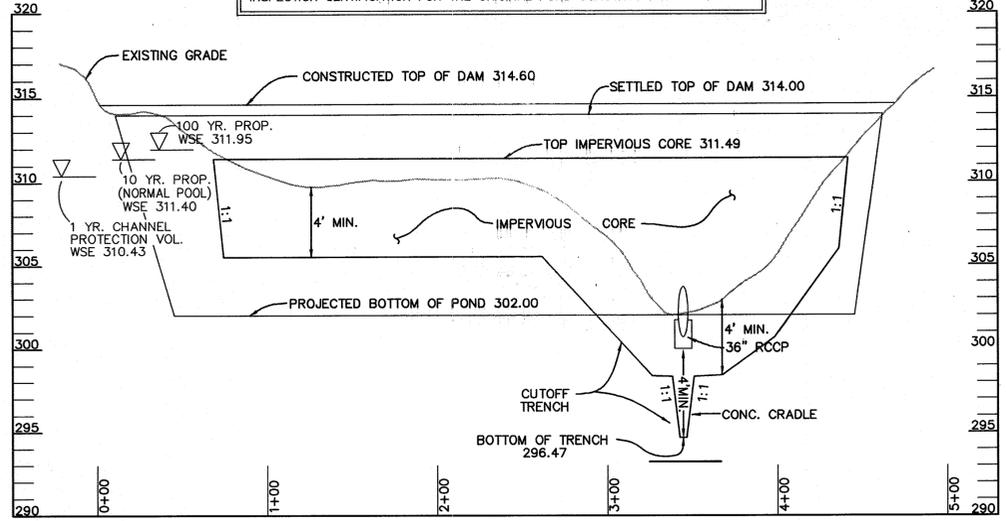


SWM POND * AS BUILT NOTE
 THE DEVELOPER WILL PROVIDE AN AS-BUILT SURVEY, WHICH WILL SHOW THE EXISTING POND WITH ALL PROPOSED IMPROVEMENTS. THE DEVELOPER WILL ALSO WORK WITH THE CONTRACTOR TO PROVIDE AN AS-BUILT CONSTRUCTION INSPECTION CERTIFICATION FOR THE ORIGINAL POND CONSTRUCTION.



PROFILE ALONG CENTERLINE OF EMBANKMENT SWM
 SCALE: HORIZ. -1"=50'
 VERT. -1"=5'

ENGINEER'S CERTIFICATION:
 I HEREBY CERTIFY THAT THIS PLAN HAS BEEN PREPARED BY ME OR UNDER MY SUPERVISION AND MEETS THE MINIMUM STANDARDS OF THE HOWARD COUNTY DEPARTMENT OF ENVIRONMENTAL PROTECTION AND RESOURCE MANAGEMENT AND THE HOWARD COUNTY SOIL CONSERVATION DISTRICT.

SIGNATURE _____ P.E. NO. 6519
 PRINT NAME GEORGE LAMBROS DATE _____

AS-BUILT CERTIFICATION:
 I HEREBY CERTIFY THAT THE FACILITY SHOWN ON THIS PLAN WAS CONSTRUCTED AS SHOWN ON THE "AS-BUILT" PLANS AND MEETS THE APPROVED PLANS AND SPECIFICATIONS.

SIGNATURE _____ P.E. NO. _____
 PRINT NAME _____ DATE _____

LANDOWNER'S/DEVELOPER'S CERTIFICATION:
 I/WE HEREBY CERTIFY THAT ALL WORK SHOWN ON THESE CONSTRUCTION DRAWINGS WILL BE ACCOMPLISHED PURSUANT TO THESE PLANS. I/WE ALSO UNDERSTAND THAT IT IS MY/OUR RESPONSIBILITY TO HAVE THE CONSTRUCTION SUPERVISED AND CERTIFIED, INCLUDING THE SUBMITTAL OF "AS-BUILT" PLANS WITHIN THIRTY (30) DAYS OF COMPLETION, BY A REGISTERED PROFESSIONAL ENGINEER.

SIGNATURE _____ DATE _____
 PRINT NAME _____

OPERATION AND MAINTENANCE SCHEDULE FOR PRIVATELY OWNED AND JOINTLY MAINTAINED STORMWATER MANAGEMENT PONDS

- ROUTINE MAINTENANCE BY HOA**
- FACILITY SHALL BE INSPECTED ANNUALLY AND AFTER MAJOR STORMS, INSPECTIONS SHALL BE PERFORMED DURING WET WEATHER TO DETERMINE IF THE POND IS FUNCTIONING PROPERLY.
 - TOP AND SIDE SLOPES OF THE EMBANKMENT SHALL BE MOWED A MINIMUM OF TWO (2) TIMES PER YEAR, ONCE IN JUNE AND ONCE IN SEPTEMBER, OTHER SIDE SLOPES AND MAINTENANCE ACCESS SHALL BE MOWED AS NEEDED.
 - DEBRIS AND LITTER SHALL BE REMOVED DURING REGULAR MOWING OPERATIONS AND AS NEEDED.
 - VISIBLE SIGNS OF EROSION IN THE POND AS WELL AS THE RIP-RAP OR GABION OUTLET AREA SHALL BE REPAIRED AS SOON AS IT IS NOTICED.

- NON-ROUTINE MAINTENANCE BY HOA**
- STRUCTURAL COMPONENTS OF THE POND SUCH AS THE DAM, RISER AND THE PIPES SHALL BE REPAIRED UPON THE DETECTION OF ANY DAMAGE. THE COMPONENTS SHALL BE INSPECTED DURING ROUTINE MAINTENANCE OPERATIONS.
 - SEDIMENT SHALL BE REMOVED FROM THE POND AND FOREBAY NO LATER THAN WHEN THE CAPACITY OF THE POND OR FOREBAY IS HALF FULL OF SEDIMENT OR WHEN DEEDED NECESSARY FOR AESTHETIC REASONS. UPON APPROVAL FROM THE DEPARTMENT OF PUBLIC WORKS.

APPROVED: HOWARD COUNTY DEPT. OF PUBLIC WORKS
Howard M. Deane 4-22-03
 CHIEF, BUREAU OF HIGHWAYS #8 DATE

Date	No	Revision Description

BY THE DEVELOPER:
 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 DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I SHALL ENGAGE A REGISTERED PROFESSIONAL ENGINEER TO SUPERVISE POND CONSTRUCTION AND PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH AN "AS-BUILT" PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTIONS BY THE HOWARD CONSERVATION DISTRICT.
Paul G. Cavanaugh 4/4/03
 SIGNATURE OF DEVELOPER DATE
 PRINT NAME BELOW SIGNATURE

BY THE ENGINEER:
 I CERTIFY THAT THIS PLAN FOR POND CONSTRUCTION, EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS. THIS PLAN WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT. I HAVE NOTIFIED THE DEVELOPER THAT HE/SHE MUST ENGAGE A REGISTERED PROFESSIONAL ENGINEER TO SUPERVISE POND CONSTRUCTION AND PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH AN "AS-BUILT" PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION.
George Lambros 4-3-03
 SIGNATURE OF ENGINEER DATE
 PRINT NAME BELOW SIGNATURE

THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL.

Jim Myers 4/9/03
 U.S. NATURAL RESOURCES CONSERVATION SERVICE DATE

THESE PLANS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL MEET THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.
George Lambros 4/9/03
 HOWARD S.O.D. DATE

APPROVED FOR PUBLIC (OR PRIVATE) WATER AND PUBLIC OR PRIVATE SEWERAGE SYSTEMS
 COUNTY HEALTH OFFICER
 HOWARD COUNTY HEALTH DEPARTMENT
 DATE _____

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING

Cindy Hamilton 5/5/03
 Chief, Division of Land Development #8 DATE
 Chief, Development Engineering Division MK DATE

Date	No	Revision Description
7-24-06	1	REVISED SWM POND GRADING TO SHOW BENCHES

PROJECT: EMERSON SECTION 2
 (KEY PROPERTY)
 PHASE 4
 LOTS 1-120 & OPEN SPACE LOTS 121-124
 TAX MAP NO. 47 ZONED: PEC-MXD-3
 PARCEL P.837, P.3, P.462
 BLOCK 2, 7, 8, 9, 14, 15, 20, & 21
 ELECTION DISTRICT No.6 HOWARD COUNTY, MARYLAND

CENTURY ENGINEERING, INC.
 CONSULTING ENGINEERS, PLANNERS
 32 WEST ROAD
 TOWSON, MARYLAND 21204

OWNER/DEVELOPER: THE HOWARD RESEARCH & DEVELOPMENT CORPORATION
 THE ROUSE BUILDING
 10275 LITTLE PATUXENT PARKWAY
 COLUMBIA, MARYLAND 21044
 PHONE: (410) 992-6084

TITLE		
STORMWATER MANAGEMENT PLAN		
Des By K.D.	Scale 1"=50'	Proj No 21125.01
Dwn By M.C.A.	Date OCT. ,2002	DRAWING NO
Chk By G.K.	Approved	22 OF 29

