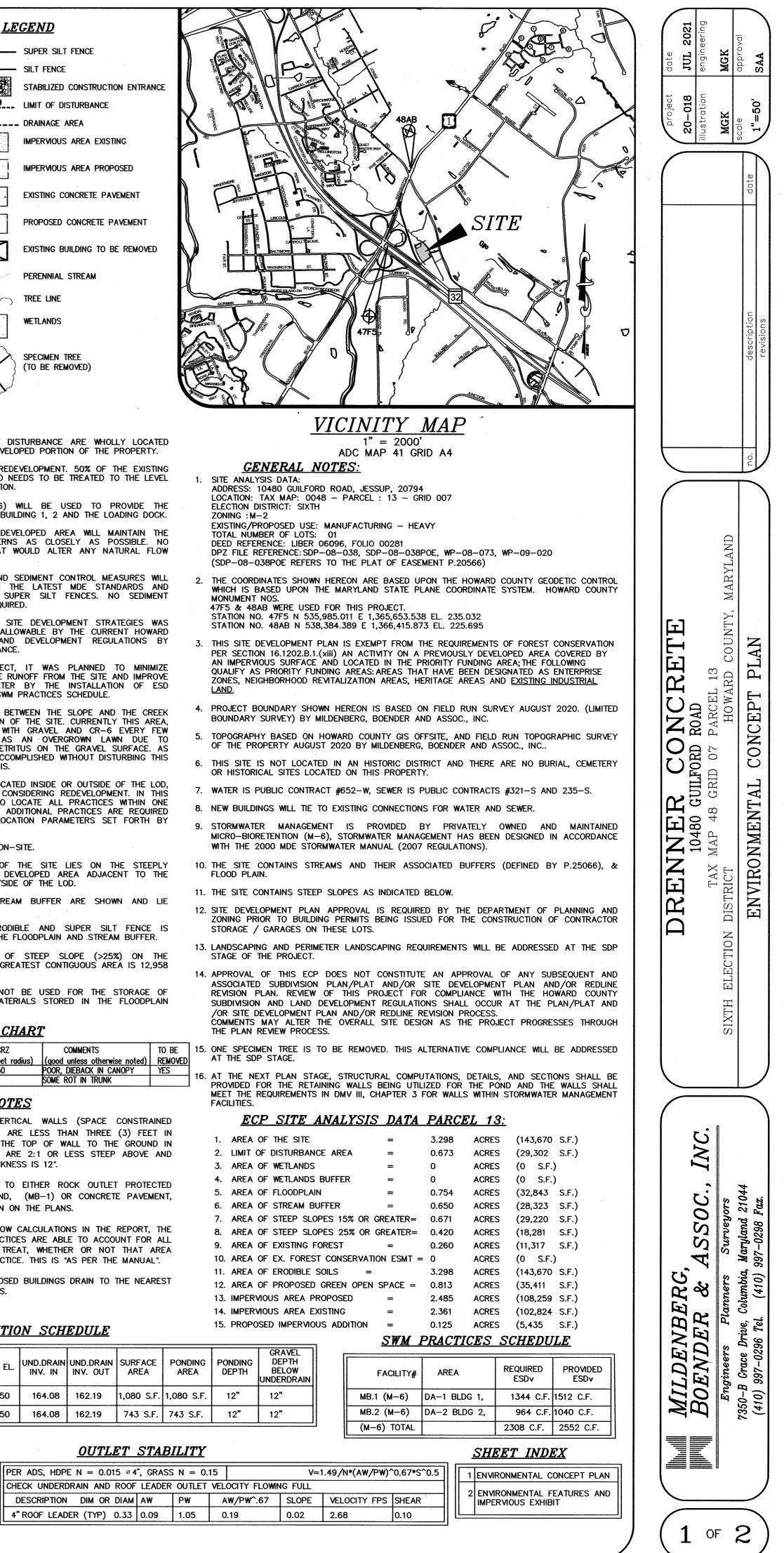


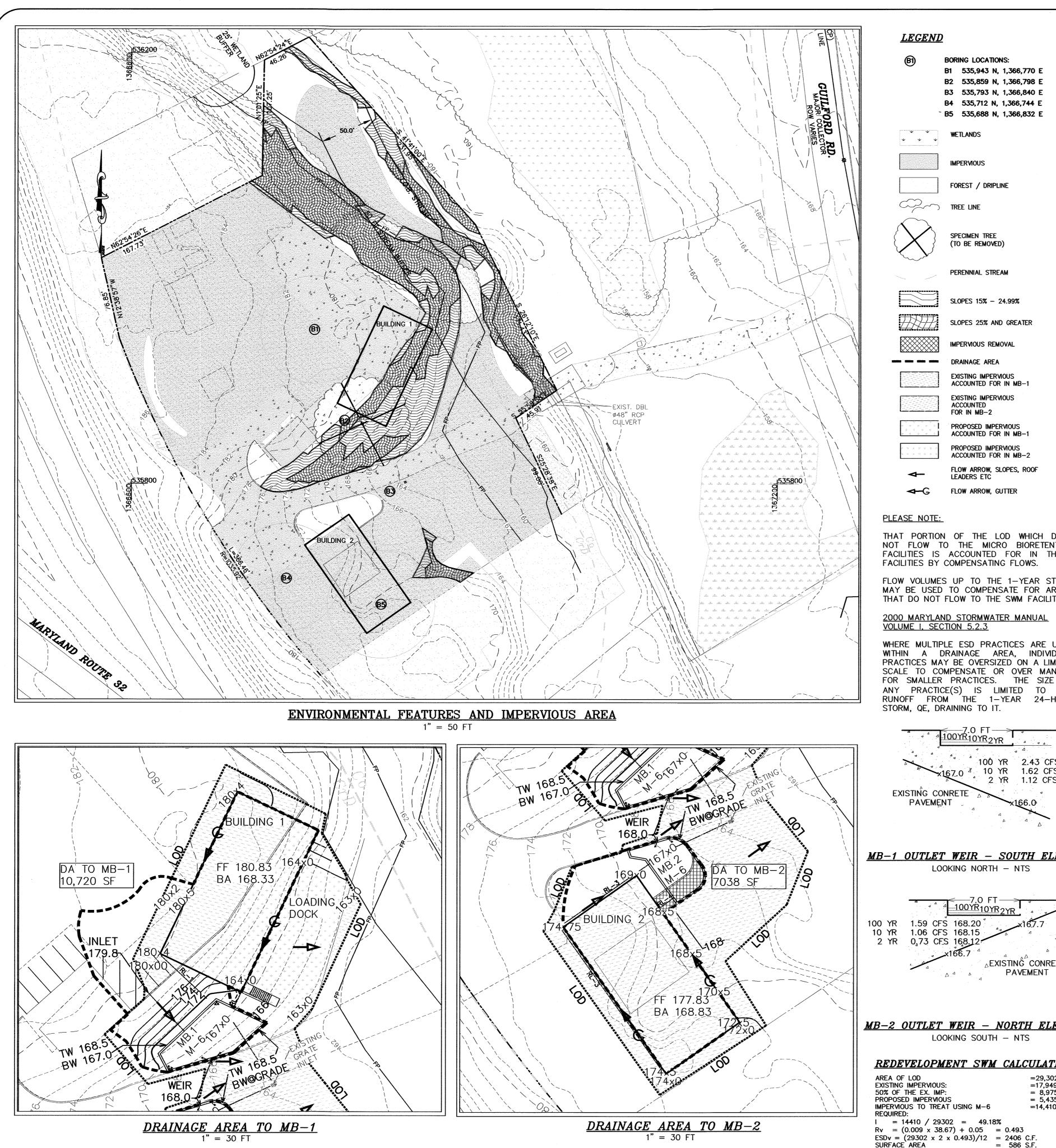
<u>LEGEND</u>

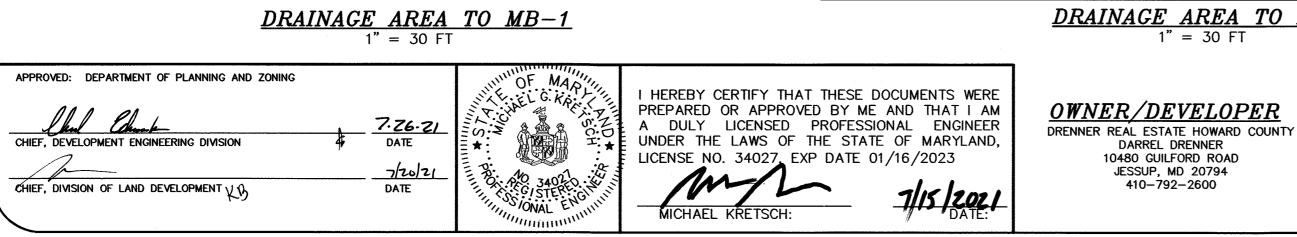
TREE LINE

WETLANDS



ECP-21-033





2000 MARYLAND STORMWATER MANUAL VOLUME I, SECTION 5.5.2

DARREL DRENNER

10480 GUILFORD ROAD

JESSUP, MD 20794

410-792-2600

STORMWATER MANAGEMENT SHALL BE ADDRESSED FOR REDEVELOPMENT ACC THE FOLLOWING CRITERIA: 1.c. USE A COMBINATION OF IMPERVIOUS AREA REDUCTION AND ESD IMPLEMEN

AT LEAST 50% OF EXISTING IMPERVIOUS AREAS. ALTERNATIVE STORMWATER MANAGEMENT MEASURES INCLUDE BUT ARE NOT LIMIT 2.c. A COMBINATION OF IMPERVIOUS AREA REDUCTION, ESD IMPLEMENTATION, A OR OFF-SITE STRUCTURAL BMP FOR AN AREA EQUAL TO OR GREATER OF EXISTING IMPERVIOUS AREA WITHIN THE LOD.

LOOKING NORTH - NTS

LOOKING SOUTH - NTS

BORING LOCATIONS:	
B1 535,943 N, 1,366,770 E	
B2 535,859 N, 1,366,798 E B3 535,793 N, 1,366,840 E	Eco-Science
B4 535,712 N, 1,366,744 E	Professionals, Inc.
B5 535,688 N, 1,366,832 E	Consulting Ecologists
WETLANDS	P.O. Box 5006 Glen Arm, Maryland 21057 Telephon
IMPERVIOUS	Mr. Mike Kretsch, P.E. Mildenberg, Boarder, & Association
	Mildenberg, Boender & Assoc., Inc. 7350B Grace Drive
FOREST / DRIPLINE	Columbia, Maryland 21044
TREE LINE	RE: 10480 Guilford Road
	Dear Mike,
	Eco-Science Professionals, Inc. has completed a field
SPECIMEN TREE (TO BE REMOVED)	The property is located at the referenced address in the Jessu Maryland. The property is shown on Tax map 48 parcel 13
	purpose of our review was to identify and assess regulated n part of the effort to construct a single family home on the pro-
PERENNIAL STREAM	performed March, 2021 by USACOE Certified Wetland Del Qualified Professionals.
	The subject property is a developed lot that is bound
SLOPES 15% - 24.99%	MD Route 32. The lot is roughly rectangular in shape with it roughly, by an existing stream channel. A separate lot is pre-
	and Guilford Road. The subject property does not have any accessed from a driveway to Guilford Road across this adjac
SLOPES 25% AND GREATER	the western half of a culverted road crossing of the stream cl edge of the property.
IMPERVIOUS REMOVAL	The majority of the site has been developed and inch
DRAINAGE AREA	provides parking, material and equipment storage. Several b on the site. The property appears to be utilized by several co
EXISTING IMPERVIOUS	companies. Some areas around the active use areas area ma and landscaping.
ACCOUNTED FOR IN MB-1	The only naturally vegetated portions of the site occu
EXISTING IMPERVIOUS	slopes that ascends from the floodplain terrace to the develo area is sparsely vegetated with a mix of trees and shrubs. Bo
ACCOUNTED FOR IN MB-2	www.ecoscienceprofessionals
PROPOSED IMPERVIOUS	
ACCOUNTED FOR IN MB-1	2
ACCOUNTED FOR IN MB-2	
FLOW ARROW, SLOPES, ROOF	
LEADERS ETC	
FLOW ARROW, GUTTER	E 2 TESTING
	CONSULTANTS, INC.
<u>.</u>	PRESIDENT: Mounir Adouzathm MSCE, PE CONSULTANTS: Edw
N OF THE LOD WHICH DOES	June 20, 2021
TO THE MICRO BIORETENTION ACCOUNTED FOR IN THOSE	Mildenberg, Boender & Associates, Inc.
COMPENSATING FLOWS.	7350-B Grace Drive Columbia, Maryland 21044
ES UP TO THE 1-YEAR STORM	Attn: Mr. Michael Kretsch, P.E.
D TO COMPENSATE FOR AREAS FLOW TO THE SWM FACILITIES.	Senior Engineer Ref: Infiltration Evaluation
FLOW TO THE SWM FACILITIES.	Proposed Infiltration Facilities 10480 Guilford Road
ND STORMWATER MANUAL CTION 5.2.3	Jessup, Maryland 20794 GE&T Project No. G-270
	Dear Mr. Kretsch:
PLE ESD PRACTICES ARE USED DRAINAGE AREA, INDIVIDUAL	GE&T Consultants, Inc. is pleased to submit this letter n
AY BE OVERSIZED ON A LIMITED	at the above-referenced site.
OMPENSATE OR OVER MANAGE R PRACTICES. THE SIZE OF	The letter discusses subsurface exploration procedures conditions, and presents our field measurements.
CE(S) IS LIMITED TO THE	We wish to advise you that the boring samples will be stor
DM THE 1-YEAR 24-HOUR RAINING TO IT.	period of 30 days from the date of this letter.
	GE&T appreciates the opportunity to provide this geotect you have any question regarding this report, please feel fi
-7.0 FT7.0 FT -	Sincerely,
168.0	GE&T Consultants, Inc.
100 YR 2.43 CFS 168.26	H
167.0 ³ 10 YR 1.62 CFS 168.20 2 YR 1.12 CFS 168.16	Mounir Abouzakhm, PE
2 YR 1.12 CFS 168.16	
NT x166.0	
Δ	
<u> T WEIR – SOUTH ELEVATION</u>	
DOKING NORTH - NTS	
	Summary of Field
4 100XProve	Pipe Riser Pipe Boring Depth to
100YR10YR2YR	Pripe Riser Pripe Borning Depth to No. Height Embedded Depth (ft) Groundwate (ft) Depth (ft) (ft) (ft) (ft)
FS 168.20 x167.7 FS 168.15	B-1 2.8 4.3 9.0 N/A
FS 168.12	B-2 2.1 4.4 9.0 N/A
x166.7 ⁴	B-3 0.8 4.7 9.0 N/A
A A PAVEMENT	B-4 2.1 4.4 9.0 N/A
	B-5 1.8 4.8 9.0 N/A
	B-5 1.8 4.8 9.0 N/A
	3.0 Subsurface Conditions
<u> Weir — North Elevation</u>	Details of the subsurface conditions encountered at the s
DOKING SOUTH - NTS	summarized below:
	<u>3.1</u> <u>Soils</u>
MENT SWM CALCULATIONS:	Strata encountered in the soil borings are described brief
=29,302 S.F. JS: =17,949 S.F.	Layer No. Depth (ft) 1 2.0-7.0 Fill Silty SAND (SM) and
$\begin{array}{llllllllllllllllllllllllllllllllllll$	1 2.0-7.0 Fill, Silty SAND (SM) and of roots, gra 2 Underneath Natural deposits, Silty 3
= 5,435 S.F. EAT USING M-6 =14,410 S.F.	the fill layer
9302 = 49.18%	Note: All depths are below existing site grades.
8.67) + 0.05 = 0.493 2 x 0.493)/12 = 2406 C.F.	Strata divisions shown on the boring logs have been estir recovered soil samples. In-situ, strata changes could oc indicated on the boring logs provided in this report. The st
= 586 S.F.	indicated on the boring logs provided in this report. The gr present the Unified Soil Classification System (USCS) ba recovered (ASTM D 2487). The soil decriminant on the
E I, SECTION 5.5.2	recovered (ASTM D-2487). The soil descriptions on the differ from soil laboratory test description.
ESSED FOR REDEVELOPMENT ACCORDING TO	
A REDUCTION AND ESD IMPLEMENTATION FOR AREAS.	3
URES INCLUDE BUT ARE NOT LIMITED TO: DUCTION, ESD IMPLEMENTATION, AND ON-SITE	
AREA EQUAL TO OR GREATER THAN 50% E LOD.	
	1

