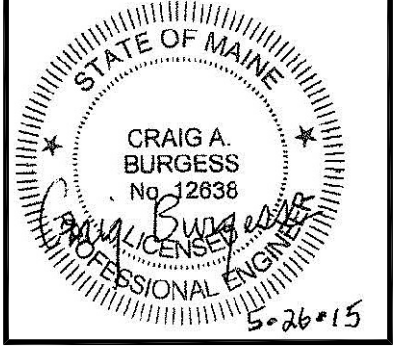


EXISTING	DESCRIPTION	PROPOSED
---	BOUNDARY LINE/ROW	---
---	ABUTTER LINE/ROW	---
---	TIE LINE	---
---	EASEMENT	---
---	BUILDING	---
---	WETLANDS	---
---	EDGE WETLAND	---
---	EDGE PAVEMENT	---
---	EDGE CONCRETE	---
---	PAVEMENT PAINT	---
---	GRAVEL ROAD	---
---	CONTOURS	---
---	SPOT GRADE	---
---	TREELINE	---
---	CHAIN LINK FENCE	---
---	STONE WALL	---
---	RETAINING WALL	---
---	DECIDUOUS TREE	---
---	CONIFEROUS TREE	---
---	WATER	---
---	HYDRANT	---
---	SEWER	---
---	SEWER MH	---
---	STORM DRAIN	---
---	CATCH BASIN	---
---	DRAINAGE MH	---
---	OVERHEAD UTILITY	---
---	LIGHT POLE/WALL	---
---	UTILITY POLE	---
---	GUY	---
---	EC. BLANKET	---
---	FILTER BARRIER	---
---	RIPRAP	---



REV.	DATE	BY	DESCRIPTION
D	05-26-15	OAM	RESUBMITTED TO CITY
C	09-5-14	OAM	SUBMITTED TO DEP
B	08-18-14	OAM	ISSUED FOR PRELIMINARY REVIEW
A	02-05-14	OAM	ISSUED FOR CLIENT REVIEW

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SEBAGO TECHNICS
 WWW.SEBAGOTECHNICS.COM
 75 John Roberts Rd., Suite 1A, 250 Goddard Rd., Suite B
 South Portland, ME 04106
 Lewiston, ME 04240
 Tel: 207-262-2100 Fax: 207-783-5858

PROJECT NO. 09405
 FIELD BOOK DESIGN CHKD DRAWN
 OAM OAM OAM JAR

POST-DEVELOPMENT WATERSHED/TREATMENT PLAN AND GREAT DIAMOND ISLAND TRANSFER AND RECYCLING FACILITY

FOR: CITY OF PORTLAND
 55 PORTLAND STREET
 PORTLAND, MAINE 04101

DATE	SCALE
01-29-14	NTS

SHEET 9 OF 9

WATER QUALITY VOLUME CALCULATIONS

CALCULATION OF MINIMUM REQUIRED WATER VOLUME FOR TREATMENT, MAINE DEP STORMWATER REGULATIONS REQUIRE THE TREATMENT OF 95% OF IMPERVIOUS AREA, AND 80% DEVELOPED AREA.

PROPOSED IMPERVIOUS AREA: 18,800 SF.
 EXISTING IMPERVIOUS AREA: 8,924 SF.
 95% TREATMENT OF IMPERVIOUS (18,800 SF. x 95%): 17,860 SF.
 80% TREATMENT OF DEVELOPED AREA (1,927 SF. x 80%): 1,542 SF.
 *INCLUDES GRAVEL DRIVES AND STOCKPILE MATERIALS

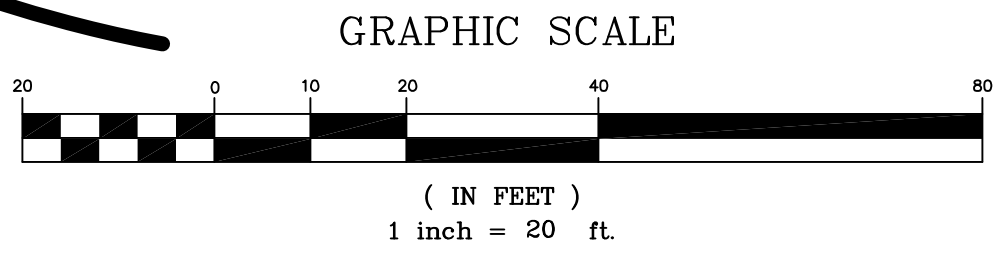
1. ADDITIONAL AREAS OUTSIDE OF PAVEMENT WILL REVERT BACK TO NATURAL CONDITIONS AND ARE NOT CONSIDERED LANDSCAPE/DEVELOPED AREAS.

2. BASED ON THE CALCULATIONS ABOVE, TREATMENT WOULD BE REQUIRED ON 8,924 SF. OF IMPERVIOUS AREA AND 993 SF. OF LANDSCAPED AREA, SINCE IMPERVIOUS LOADING AREAS AND DRIVEWAYS ARE A MORE INTENSE USE, THE TREATMENT PORTION OF THE PROPOSED DEVELOPED AREA WILL BE COLLECTED FROM MAINLY THE LOADING AREAS/DRIVES. THEREFORE, CALCULATIONS HAVE BEEN COMPLETED TO DETERMINE THE REQUIRED WATER QUALITY VOLUME REQUIRED FOR TREATMENT.

DETERMINATION OF REQUIRED WATER QUALITY VOLUME:
 IMPERVIOUS AREA x 1" = 8,924 SF. x 1 IN. = 743 CF.
 LANDSCAPED AREA x 0.4" = 993 SF. x 0.4 IN. = 32 CF.
 TOTAL WATER QUALITY TREATMENT VOLUME REQUIRED: 775 CF.

PROPOSED TREATMENT VOLUME
 AREA TO DRAIN TO PROPOSED TREATMENT UNDERDRAINED SOIL FILTER 1
 IMPERVIOUS (DRIVES/PARKING): 4,228 SF.
 LANDSCAPED AREA: 0 SF.
 WATER QUALITY VOLUME REQUIRED (5,428 SF. x 1 IN.): 453 CF.
 FILTER POND PROVIDED: 503 CF.

AREA TO DRAIN TO PROPOSED TREATMENT UNDERDRAINED SOIL FILTER 2
 IMPERVIOUS (DRIVES/PARKING): 5,316 SF.
 LANDSCAPED AREA: 0 SF.
 WATER QUALITY VOLUME REQUIRED (5,316 SF. x 1 IN.): 443 CF.
 FILTER POND PROVIDED: 480 CF.



GENERAL NOTE
 SEE PRE-DEVELOPMENT MAP FOR CONTINUATION OF SUBCATCHMENT.

LEGEND	DESCRIPTION
---	WATERSHED BOUNDARY
B C	TIME OF CONCENTRATION
○	REACH
1	WATERSHED LABEL
1	REACH
1	DETENTION POND
---	SOILS BOUNDARY

