

Water Quality Volume Required: WQv = (P) Rv (A) / 12

Rv = 0.05 + 0.009 (I)P = 1.14 Inches of Rainfall

A = Drainage Area = 0.53 Acres (Pervious=0.12Ac. Impervious=0.41) A = Drainage Area = 1.03 Acres (Pervious=0.14Ac. Impervious=0.89) A = Drainage Area = 1.64 Acres (Pervious=0.73Ac. Impervious=0.91) I = Percent Impervious = 0.41/0.53 = 77%

 $WQv = ((1.14)(0.05 + 0.009 \times .77)) \times 0.53Ac/12$ $WQv = 0.0374 Ac-Ft = 1630 ft^3 Required.$

Swale Water Quality Volume:

574 1122 575 2278 VOL. @ 574.51 1757 Water Quality Volume Required:

WQv = (P) Rv (A) / 12

Rv = 0.05 + 0.009 (I)

P = 1.14 Inches of Rainfall I = Percent Impervious = 0.89/1.03 = 86%

 $WQv = ((1.14)(0.05 + 0.009 \times .86)) \times 1.03Ac/12$ $WQv = 0.0806 Ac-Ft = 3512 ft^3 Required.$ Swale Water Quality Volume:

572 573 573.5 2185 3774 1374 1571 2980 VOL. @ 573.43

WQv = (P) Rv (A) / 12Rv = 0.05 + 0.009 (I)

P = 1.14 Inches of Rainfall

I = Percent Inpervious = 0.91/1.64 = 55% $WQv = ((1.14)(0.05 + 0.009 \times .55)) \times 1.64Ac/12$ $WQv = 0.0849 Ac-Ft = 3699 ft^3 Required.$

Swale Water Quality Volume:

425 572 573 3589 5318 2503 2928 4454 7382 VOL. @ 572.17

devices are depicted on the construction plans prepared by Bax Engineering Company, Inc.

2.Re-vegetation: The site will consist of varying ground slopes upon completion of the grading activities and will be seeded and strawed to stabilize the slope and prevent erosion.

3.Storm Water Quality: Construction of Bio-Retention areas and Bio-Swales will be utilized for storm water protection.

C. MAINTENANCE AND INSPECTION:

Regular Maintenance: Weekly inspections of the project will include: (a) The repair of any sediment (silt) mulch barriers not well shaped or out of place; (b) The removal of any accumulated trash and/or debris: (c) The clearing of debris, weeds and wild growth and the removal of vegetation where necessary to allow the storm water quality items to perform effectively; and (d) The removal of any externally deposited waste materials.

Periodic Inspections: Following each rain of more than 0.25 inch, the site will be inspected within 24 hours, and any necessary maintenance will be provided for a period of one year following the completion of the above remediation measures.



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Site Address: 1300 & 1400 Grant Industrial Drive

UNDERGROUND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE INFORMATION AND THEREFORE THEIR LOCATIONS SHALL BE CONSIDERED APPROXIMATE ONLY. THE VERIFICATION OF THE LOCATION OF ALL UNDERGROUND UTILITIES, EITHER SHOWN OR NOT SHOWN ON THESE PLANS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR, AND SHALL BE LOCATED PRIOR TO ANY GRADING OR CONSTRUCTION OF

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PLAN

PREVENTION

POLLUTION

STORM