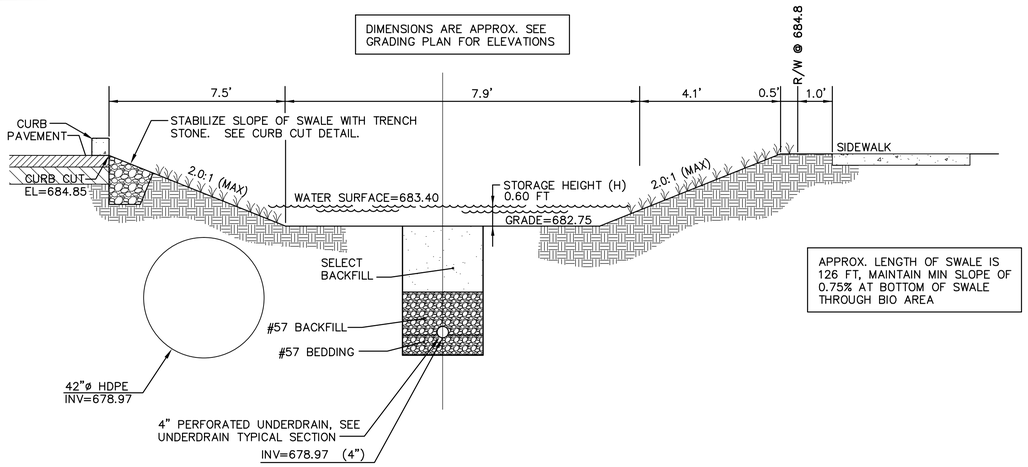
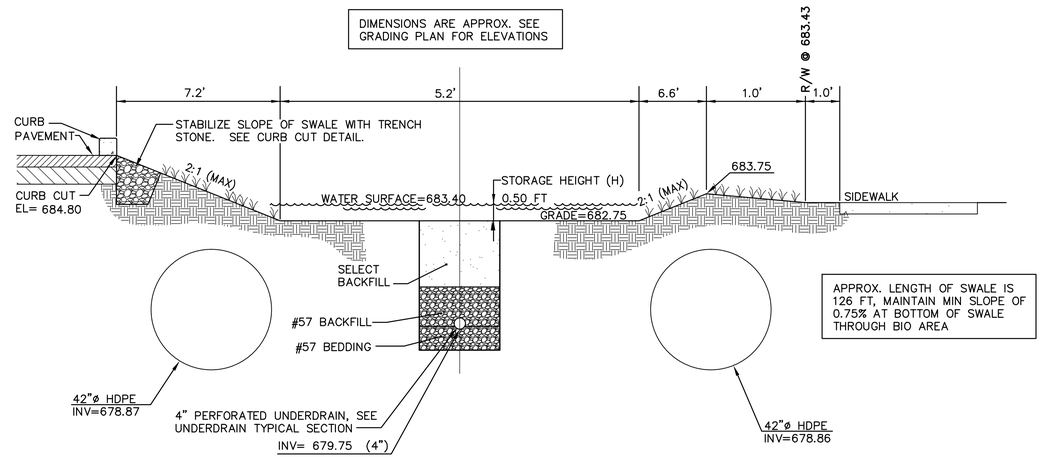


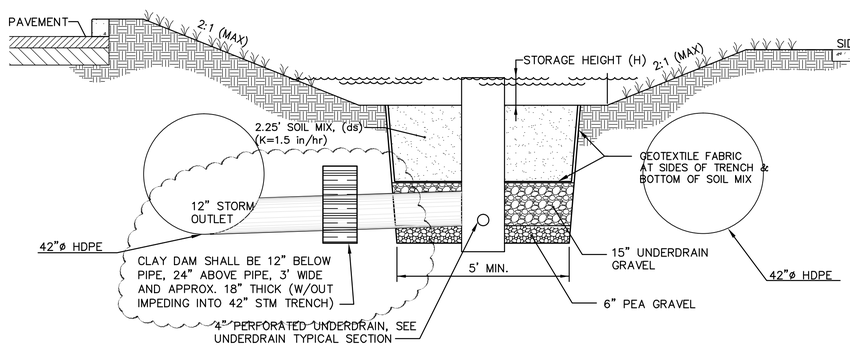
BIORETENTION SWALE SECTION #1 (WEST END)

NOT TO SCALE



BIORETENTION SWALE SECTION #2 (WEST END)

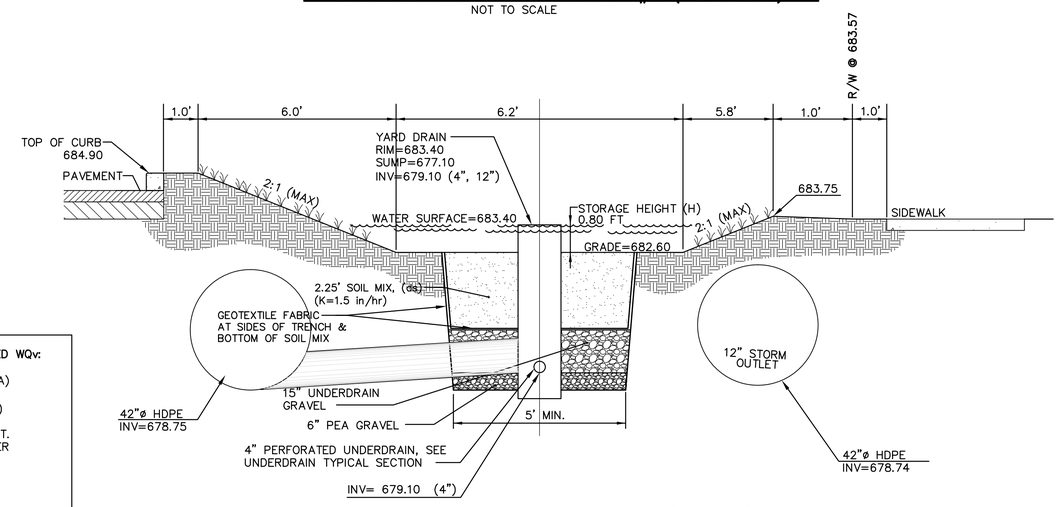
NOT TO SCALE



BIORETENTION SWALE SECTION

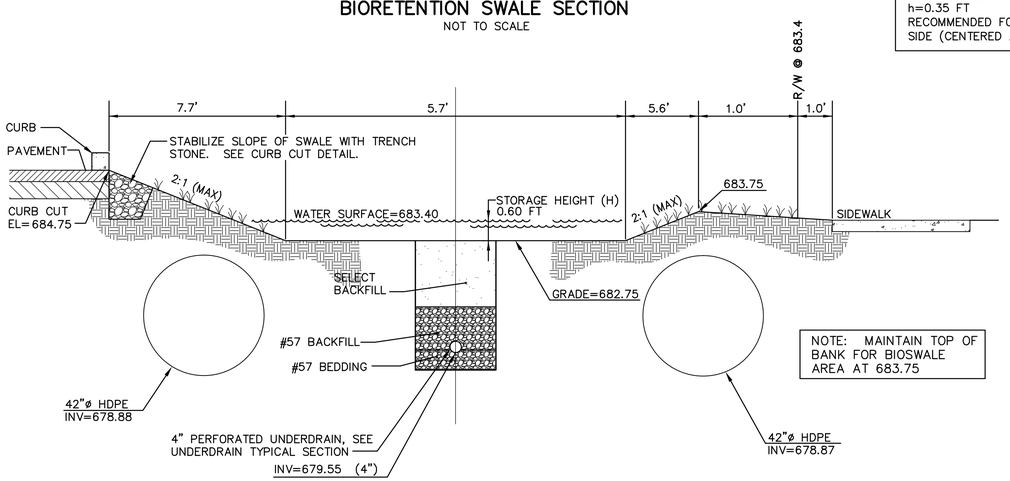
NOT TO SCALE

TOTAL FRONT DITCH REQUIRED WQv:
A=0.595 Acres
C=0.58 (22% PERVIOUS AREA)
WQv=1.2(C*P*A/12)
WQv=1.2(0.58*0.75*0.595/12)
WQv=0.026 AC.-FT.
WQv PROVIDED: 0.030 AC.-FT.
MINIMUM FOOTPRINT OF FILTER AREA=390 SF
WHEREBY...
Asf=(WQv*d)/(K*t(h+d))
d=2.25 FT
K=1.5 IN/HR
t=1.66 DAYS
h=0.35 FT
RECOMMENDED FOOTPRINT=5'x40'/EACH SIDE (CENTERED AROUND YARD DRAIN)



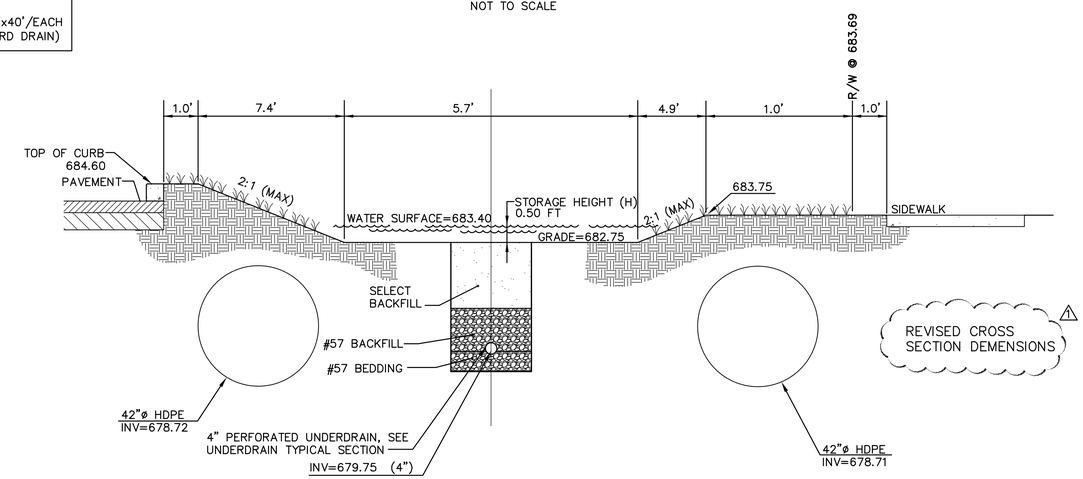
BIORETENTION SWALE SECTION #2 (CENTER)

NOT TO SCALE



BIORETENTION SWALE SECTION #1 (EAST END)

NOT TO SCALE



BIORETENTION SWALE SECTION #2 (EAST END)

NOT TO SCALE

6-4-09 ADDED CLAY DAM DETAIL CFE

REVISIONS

DATE	DESCRIPTION	BY
3-20-09	REVISED PER ENGINEER 1	CFE
3-16-09	REVISED PER ENGINEER	CFE
2-20-09	REVISED PER CITY COMMENTS	CFE
2-02-09	REISSUE TO CITY	CFE
1-05-09	CITY SUBMISSION	CFE
12-19-08	REISSUED FOR OWNER	CFE
7-07-08	ORIGINAL ISSUE	CFE

DATE: 7-07-08
DRAWN BY: CCC
CH'D BY:
DWG. NAME: 08301-H-SWPP08
PATH: 08301\LDDT\CONTROL
F.B.

KS Associates, Inc.
260 Burns Road, Suite 100
Elyria, OH 44035
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www.ksassociates.com
KS ASSOCIATES

SWPP DETAILS
CITY CENTRE No 2
PHASE 1
City of Avon
County of Lorain, State of Ohio

SHEET SWP-8 OF 27

JOB NO. 08301

R:\08000\08301\LDDT\CONTROL\DWG\08301-H-SWPP08 Rev.dwg 6/4/2009 5:24:32 PM EDT