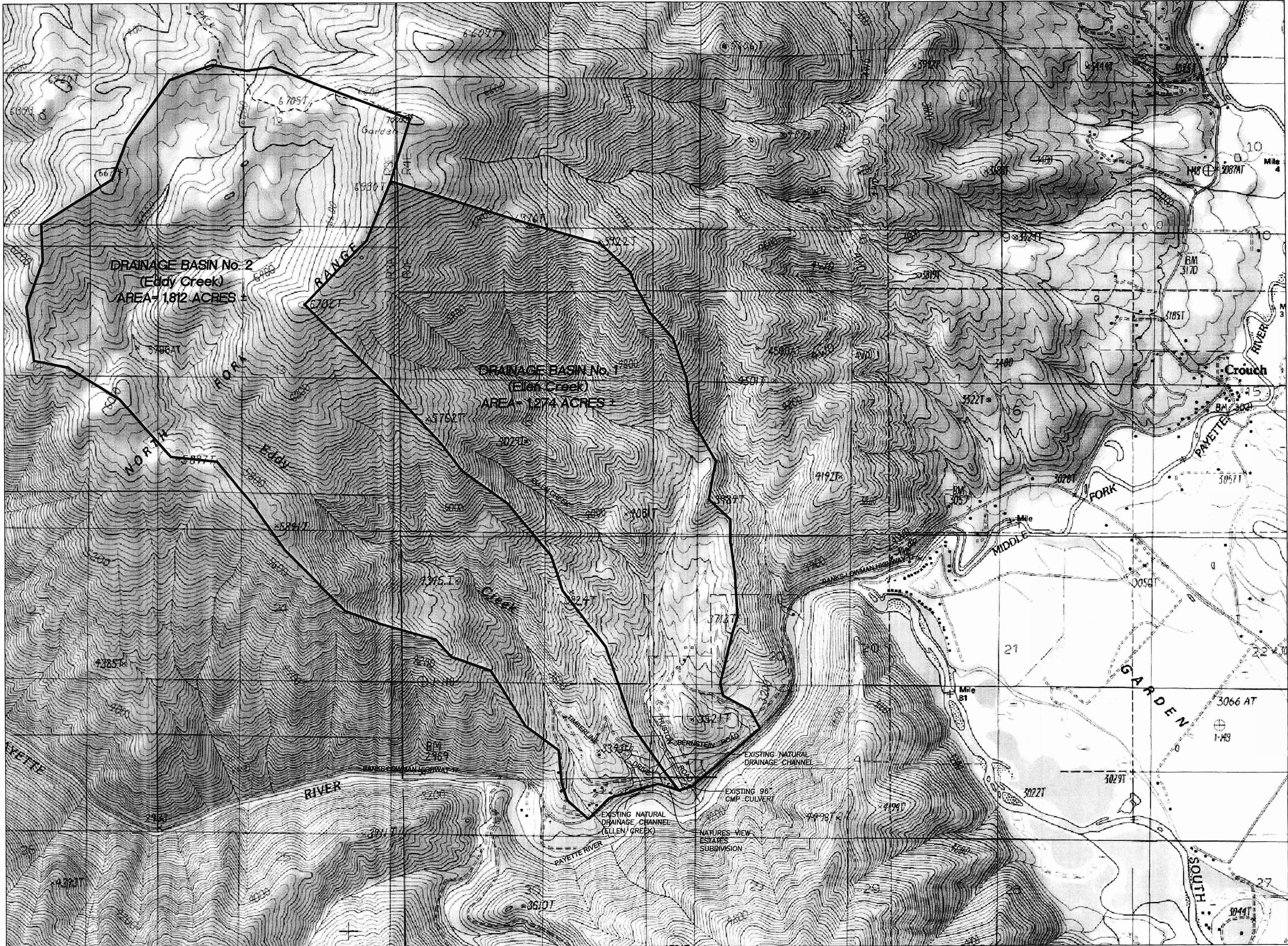




CULVERT DATA

DRAINAGE BASIN NAME ELLEN CREEK
DRAINAGE BASIN AREA 1274 AC
REQUIRED CULVERT SIZE 54"
REQUIRED CULVERT CAPACITY 89 cfs
PROVIDED CULVERT SIZE 96" CMP
CULVERT CAPACITY (LandDesktop 2007 Culvert Calculator)

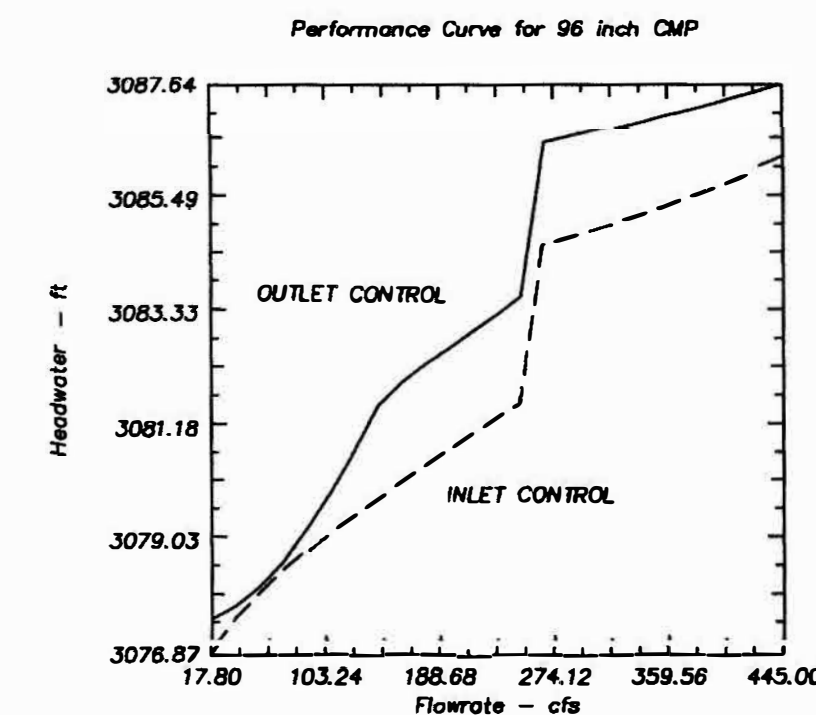
Entered Data:
Shape Circular
Number of Barrels 1
Solving for Headwater
Chart Number 2
Scale Number 3
Chart Description CORRUGATED METAL PIPE

CULVERT
Scale Description PIPE PROJECTING FROM

FILL
Overtopping Off
Flowrate 89.0000 cfs
Manning's n 0.0240
Roadway Elevation 3100.0000 ft (approx)
Inlet Elevation 3075.5000 ft (approx)
Outlet Elevation 3075.0000 ft (approx)
Diameter 96.0000 in
Length 175.0000 ft (approx)
Entrance Loss 0.0000
Tailwater 3.0000 ft (assumed)

Computed Results:
Headwater 3079.16 ft Outlet Control
Slope 0.0029 ft/ft
Velocity 5.1693 fps

Messages:
Outlet head > Inlet head.
Computing Outlet Control headwater.
Outlet not submerged.
Normal Depth: 35.2323 in
Critical Depth: 27.9056 in
Flow is subcritical.
Normal depth > critical depth.
Tailwater depth < normal depth.
M2 drawdown profile.
Tailwater depth > critical depth.
Depth computed with direct step method starting at tailwater depth.
Headwater: 3079.1581 ft



1. DRAINAGE BASIN AREAS ARE APPROXIMATED FROM TOPOGRAPHIC MAP RIDGE LINES, CONTOUR LINES AND INTERPRETED RUNOFF FLOW DIRECTION.

NATURE'S VIEW ESTATES
SUBDIVISION
Boise County, Idaho

Focus Engineering
Civil-Geotechnical-Environmental-Structural
3835 West Scenic Drive, Boise, Idaho 83703
(208) 395-1979 (208) 395-2399 fax focus@callesnet

REVISIONS:
1 _____
2 _____
3 _____
4 _____
5 _____
6 _____
7 _____

PRELIMINARY
DRAWING
NOT FOR CONSTRUCTION

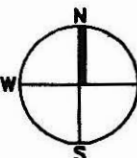
DRAINAGE PLAN

PROJECT NO: 06037
DATE: 02-07-07
DRAWN BY: CAG

C1.4

DRAINAGE PLAN
SCALE: 1"=1000'

0 1000 2000 3000 4000 5000
1 inch = 1000 ft.



TOPOGRAPHIC MAP BACKGROUND IS FROM NATIONAL GEOGRAPHIC TOPO!

