

Project Name: FORT VANCOUVER NATIONAL PARK
Project Number: WA PRA FVNP 100(1)
Item No. 60201-0800 24-inch Pipe Culvert
Station: 20+12 RT
Measurements and Calculations by: Jake Mastrud 6/06/2011

- Approach Grade given -9.7% - Lowered from min. cover to Gnd.

- FG SH: 5.60 ft EL. 1731.065

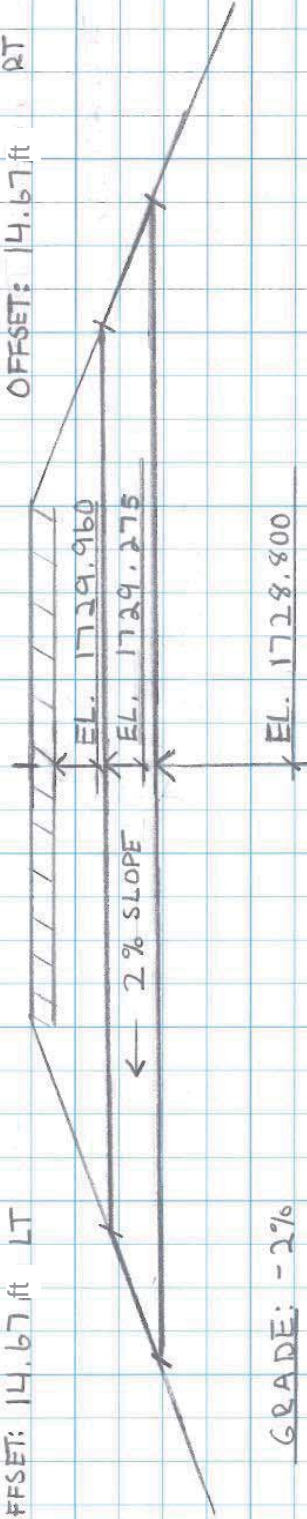
- DRAINAGE LOCATION OFFSET 14.67 ft CONSTANT

OUTLET (INVERT)

EL. 1728.66
STA. 20+12.775
OFFSET: 14.67 ft LT

INLET (INVERT)

EL. 1728.940
STA. 20+127.225
OFFSET: 14.67 ft RT



GRADE: -2%

TOTAL LENGTH: 14.00 ft

PIPE LENGTH: 12.50 ft

COVER: 0.69 ft

Flow Line Azimuth: 206° 39' 51"

field measurements by:

- JAKE MASTRUD
JUNE 6TH, 2011