

DETAILS FOR ENGINEERING PLAN
PREPARATION

Engineering Plans must look professional and be easy to read and understand. Using the following details as a guide to prepare engineering plans should help achieve the goal of producing a neat, understandable and professional looking set of plans.

Survey Notes:

- readable
- BM descriptions
- title page complete
- RHDS (right hand downstream) or LHDS labeled
- pages numbered, named and dated

Design Data:

- checked
- assumptions stated
- references to methods used (books, charts, etc.)
- correct and meets FOTG standards

Location Map:

- job located by N-S and E-W roads or references
- north arrow (should point up or left)
- bar scale in feet
- watershed (if applicable), smaller watersheds can go on site plan

Site Plan:

- legend (if necessary)
- distances and dimensions labeled
- "existing" and "planned" items labeled
- north arrow (should point up or left)
- bar scale in feet
- BM's location, description and elevation
- streamflow should go left to right or bottom to top of page

Profiles:

- on profile paper
- label elevations and stations on bold grid lines only (x and y axis)
- label everything clearly, i.e. all lines, grades, grade changes, elevations

Cross-sections:

- on cross-section paper
- label elevations and stations (x and y axis)
- should be facing increasing stations (label RHDS, etc.)
- lines and pertinent elevations labeled

All Sheets:

- use straight edge on all straight lines
- use dark lead that will copy easily
- arrows are small and point is at the object, not out in air beside it
- all numbers should have units
- all sheets should be the same size