

Computer Capabilities

Anderson Consulting Engineers, Inc. has extensive computer, computer modeling and field data collection capabilities. Every professional at ACE is equipped with a personal computer (IBM Pentium) and is networked to a full library of engineering, graphics and office management software. We maintain a high-speed DSL Internet connection allowing us to transmit and receive information, data, and email via the World Wide Web in a timely and efficient manner. Additionally, we have an FTP site linked to our website for posting and receiving data files.

ACE uses AutoCad v. 14.01, Softdesk 8 Civil/Survey and CAD Overlay package for drafting and design. These programs provide ACE with extensive graphic and design capabilities including: base mapping, contouring, plan and profiles, volumetrics, 3-D design, photographic overlays, photographic composites, and a wide range of digital imaging services. These graphic design products can then be produced at photographic quality on any of our color plotters (HP 650C, and HP 1055M).

Our software library includes a wide array of tools including everything from accounting software (WIND2) to graphical and engineering analysis programs. Hydraulic analysis tools with which ACE staff are proficient include HEC-2, HEC-RAS, HY8-Culvert Analysis, UDSEWER, and UNET (unsteady flow). For two-dimensional modeling, ACE uses FLO-2D and FESWM-2DH. Hydrologic models include HEC-1, HEC-HMS, EPASWMM, UDSWMM, DAMBREAK, TR55 and CUHP. Groundwater modeling is conducted using Visual Modflow or PLASM. Sediment runoff and transport software includes SEDCAD, HEC-6 and MULTSED. Additional software routinely utilized by ACE staff include WordPerfect Office 11.0, Microsoft Word 2000, Microsoft Excel 2000, Microsoft PowerPoint Presentations, Freelance Graphics, Adobe PhotoDeluxe, Grapher for Windows, and Visual Basic 5.0.

Our Geographic Information System (GIS) department contains a full suite of GIS and spatial data management software including: ArcView GIS versions 9.0 and 3.3, ArcView Spatial Data Analyst and HEC-GeoHms. We have also developed an extensive library of GIS extensions providing a wide variety of analytical tools. In addition, we have two Trimble handheld GPS receivers (GEO-XT, GEO-XM), which facilitate efficient and accurate field data collection and GIS development.