

Firm: E.D. Hill **2009**

Title: Sr. Civil Engineer

- Responsible Engineer leading the civil engineering department for land development projects.
- Used Civil 3D 2007 to design a campus residential hall on the OU campus, including drainage design.
- Performed Base Flood Elevation Certifications.

Firm: Gamba & Associates **2007-2008**

Title: Project Engineer/Office Manager

- Successfully lead the implementation of Civil 3D 2008 from Land Desktop 2004.
- Managed and assigned design tasks and schedules to engineering staff of 4-6 designers and engineers with primary responsibility of preparing Civil Construction Drawings. Lead the establishment of the Denver satellite office.
- Lead the design of subdivision streets, waterlines, sewer lines, storm sewers under the direction of the Project Manager/President and in accordance with Town of Minturn criteria. Used Civil 3D alignments, profiles, corridors and surfaces to design over 20 miles of roads and utilities for large subdivision projects located in Western Slope mountain communities. Preliminary design for small water reservoirs, retaining walls and culverts. Delineated 6,000 acre watershed for historical peak flow calculations.
- Authored several proposals and other marketing material.

Firm: EMK Consultants, Inc **2004-2007**

Title: Project Engineer

- Responsible for designing and preparing Civil Drawings of road plan and profiles, intersections, cul-de-sacs and roundabouts, grading, water lines with profiles, sewer lines with profiles, drain sewers with profiles, retaining walls, drainage structures and erosion control plans for large subdivision projects in accordance with City of Aurora, Town of Castle Rock and CDOT criteria.
- Designed major flood control channel, grouted boulder drop structures, storm sewers, detention and retention ponds and release structures. Generated drainage calculations, plans and reports in accordance with UDFCD and local jurisdiction drainage standards and criteria. Produced stormwater management plans (SWMP) and reports in accordance with the latest CDPHE requirements and standards. Created customized Excel spreadsheet to perform complex Rational Method calculations.
- Used both LDD 2004 and Civil 3D 2006 to define alignments, profiles, grading surfaces, pipes, ponds, etc.
- Participated in and lead project coordination activities with other consultants, architects and engineers. Interfaced with government jurisdiction contacts and clients to obtain the required approval and permits for projects.

Firm: Mountain States Engineering Associates, PC **2001-2004**

Title: Project Engineer

- Project Engineer in charge of preparing Civil Construction Drawings, including grading, site, utility and drainage plans. Projects included commercial sites, roads, and utilities. Designed waterlines, sewer lines, storm sewers, culverts and retaining walls. Assumed responsibility for several projects that were in trouble and brought them to completion through much effort. Projects required working with City of Lakewood, City of Arvada, Town of Castle Rock, CDOT, Clover-Bancroft Water and Sanitary District and several other jurisdictions' criteria.
- Produced preliminary and final drainage reports in accordance with UDFCD and local jurisdiction standards and criteria. Brought several detention ponds which required unique solutions to final design and approval.
- Trained entry level engineers in engineering practices and utilizing LDD 2004.
- Tracked project budgets and expenses, Planned meetings, prepared agenda and meeting minutes.
- Prepared and edited specifications, performed cost estimates, prepared Schedule of Values Form to be used for Contractor's Bid. Performed construction inspection and administration duties.

Firm: Bucher, Willis, & Ratliff Corporation 1997-2001

Title: Civil Engineer

- ❑ Key Project was US HWY 36/96th St. Infrastructure Phase 2 (E. Flatirons Circle), which had a \$1.2M design fee, ~\$12.5M construction budget, and included design, construction documents, coordination with subconsultants, and construction administration and inspection of 102" and 96" RCP Storm Sewer, jack & bore tunnel under US Hwy 36, two regional detention ponds, large cast-in-place concrete junction structures, and several cast-in-place drainage control structures, pedestrian arch bridges and E. Flatirons Circle..
- ❑ Project engineer in charge of preparing Civil Construction Drawings, including Street Plan and Profiles, Grading Plans, Site Plans, Water and Sewer Plans and Detail Sheets. Designs include commercial sites, roads, and utilities. Increased responsibility for management of engineering projects during tenure.
- ❑ Produced drainage studies in accordance with UDFCD criteria. Designed two hydraulically-connected regional detention ponds, using energy principles to determine water surface elevations, using Excel spreadsheet to perform calculations, which included look-up tables. Provided pond grading and structure and retaining wall designs. Provided grading and drainage designs for several smaller commercial projects.
- ❑ Authored and edited specifications, performed cost estimates, prepared Schedule of Values Form to be used for Contractor's Bid. Performed construction observation of runway drainage project, reviewed approval submittals and shop drawings. Plan meetings, prepared agendas, lead technical meetings with clients and other consultants, prepared meeting minutes.
- ❑ Train entry level engineers in engineering practices and utilizing LDD 2004.
- ❑ Assisted in the preparation of Proposals and RFQs.

EDUCATION:

- ❑ University of Hawaii/Manoa, Honolulu, HI B.S., Civil Engineering; Chi Epsilon National Civil Engineering Honor Society
- ❑ Fort Lewis College, Durango, CO; Pre-Engineering Program

CONTINUING EDUCATION:

- ❑ Value Engineering Seminar, Honolulu, HI-2-day VE Theory, 1 day Practicum
- ❑ Contract Review & Revision I, Centennial CO, 2006
- ❑ Intro to HEC-HMS & HEC-RAS for Watershed Management Hydrology & Hydraulics, CU Denver Continuing Engineering Education Program (CEEP), Fall 2009
- ❑ River Modeling & Advanced River Modeling using HEC-RAS v4.1, CU Denver CEEP, Spring 2010
- ❑ Environmental Engineer PE Exam Refresher Course, CU Denver CEEP, Spring 2010
- ❑ Western Water Rights and Water Engineering, CU Denver CEEP, Spring 2010