

# MANJULA BATHINA, P.E., CFM

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## PROFILE

Over four years of experience on wide variety of projects in Civil, and Water Resources Engineering. Excellent skills in hydrologic and hydraulic modeling, civil design, preparation of engineering reports, construction plans, and specifications.

## CERTIFICATIONS

- Professional Engineer, State of Georgia, PE035011.
- Association of State Floodplain Managers Certified Floodplain Manager, US-10-05008.
- Georgia Soil and Water Conservation Commission NPDES Level 1A Certification.

## EDUCATION

- M.S. in Civil Engineering - Texas A&M University, College Station, Texas May 2005(GPA-3.8/4.0)
- B.S. in Civil Engineering – Jawaharlal Nehru Technological University, India Oct 2002 (GPA-3.9/4.0)

## PROFESSIONAL EXPERIENCE

### Geosyntec Consultants, Kennesaw, Georgia, Senior Staff Engineer

Jan 2008 – Oct 2009

- Performed hydrologic and hydraulic modeling, and prepared stormwater drainage reports. Designed stormwater drainage infrastructure, and Low impact development technology (LIDs). Performed coastal engineering study.
- Performed site layout and grading design. Prepared construction plans, specifications, and cost estimates. Supervised CADD operators for plan production.
- Conducted field inspection of erosion and sediment control measures. Traveled to project sites throughout the Southeast and Midwest United States.
- Performed technical review of hydrologic and hydraulic studies. Assisted Project Manager in preparation of project proposals.

## PROJECTS

### Regional Watershed Demonstration Project at Iroquois and Cherokee Park, Louisville, Kentucky

Designed low impact development (LID) stormwater BMPs features for enhancement of water quality such as detention basin, bioretention cells, and permeable pavement parking lot. Performed site grading design for the LID features, and developed construction drawings for the project. Performed hydrology study including continuous hydrologic simulation of runoff quality and quantity using EPA SWMM. Conducted site visits for the installation of ground water monitoring wells, and soil sampling.

### Basewide Stormwater Drainage Study at Robins Airforce Base, Warner Robins, Georgia

Performed basewide surface water modeling using EPA SWMM to identify critical areas of flooding and overflow for an approximate watershed area of 4 square miles within the Robins Airforce Base.

### Nationwide NPDES Construction Site Audit – Confidential Client

Support field auditor for conducting internal NPDES compliance audits of construction sites. Managed and conducted 15 audits throughout the Southeast and Midwest United States for a large commercial developer. Reviewed NPDES and wetland permits, evaluated storm water pollution prevention plans (SWPPP), and field implementation for each site. Prepared summary reports including recommended action measures for each site.

### Gulf Coast Authority Campbell Bayou Facility, Texas City, Texas

Performed coastal engineering study to determine the wave run-up and 100-year hurricane storm surge level at the project site with the aid of USACE Coastal Engineering Manual. Designed a perimeter dike to prevent hurricane storm surge overtopping, and prepared technical report. Performed hydrology study within the landfill facility and designed stormwater drainage conveyance measures.

### Mc Clellan Final Cover Systems, Anniston, Alabama

Designed storm water conveyance measures to mitigate post construction erosion at the landfill. Prepared a FEMA Letter of Map Revision based on Fill (LOMR-F) application package for the project site.

Elba III Terminal Expansion Project, Savannah, Georgia

Performed stormwater drainage study of the existing and proposed surface water management system for an approximate watershed area of 700 acres in Elba Island using HydroCAD software. Prepared hydrology report.

Post-Construction Stormwater Management Plan - Confidential Client

Performed the technical review of the post-construction stormwater management plan for the project site where a large landslide occurred during the development of the site for commercial use. Outlined the sequence of the construction activities during the various construction phases.

Chicken of the Sea International, Lyons, Georgia

Prepared Spill Prevention, Control, and Countermeasure (SPCC) Plan for the construction and maintenance of a seafood processing facility.

**Kirkham Michael, Omaha, Nebraska, Engineer in Training**

**Nov 2006 – Aug 2007**

- Performed site layout and grading design. Prepared construction plans, specifications, cost estimates.
- Performed Wastewater pipeline design.
- Conducted meetings with clients and project site visits.

**PROJECTS**

Bellevue Pump station and Maintenance Building, Bellevue, Nebraska

Designed a 3.0 mile wastewater pipeline/force main. Designed site grading, utilities for a sanitary sewer lift station, and maintenance building.

Chappell City & Lake Trail, City of Chappell, Nebraska

Designed horizontal and vertical alignment for a 2.0 mile PCC bikeway trail. Prepared construction plans, specifications, cost estimate, and bid documents.

Nebraska City Trail, Nebraska City, Nebraska

Designed horizontal and vertical alignment for a 1.0 mile PCC bikeway trail. Prepared construction plans, specifications, cost estimate, and bid documents.

**R.O. Anderson Engineering, Minden, Nevada, Civil Engineer Intern**

**May 2005 - Nov 2006**

- Performed watershed delineation, hydrologic and hydraulic modeling, and prepared stormwater drainage reports. Performed stormwater management infrastructure design.
- Performed site layout, grading, and utilities design. Prepared construction plans, specifications, and cost estimates.
- Conducted meeting with clients and local government officials for project planning and approvals. Visited Project sites.

**PROJECTS**

Topaz Medical Clinic, Wellington, Nevada

Performed site layout, grading, utilities design, and construction drawings for a medical clinic. Performed stormwater drainage study and prepared hydrology report. Performed septic tank and leach field design.

Sunridge Medical Clinic, Carson City, Nevada

Performed site layout, grading, and utility design for a proposed medical clinic. Designed parking lot, and prepared project cost estimate. Performed hydrology study.

Calvary Chapel of Carson City, Carson City, Nevada

Performed onsite grading, utilities, parking lot design, and prepared design drawings for the construction of a church and school building. Performed drainage study and designed storm drainage system.

Dave Davis Industrial Building, Minden, Nevada

Performed site layout, grading, and utilities design for an industrial building site. Performed the hydrologic study and prepared drainage report. Prepared the construction cost estimate.

**SOFTWARE/MODELLING SKILLS**

HydroCAD, HECRAS, HEC-HMS, EPA SWMM 5, Pondpack v9, Flow Master, CulvertMaster, StormCAD, ArcGIS 9.2, AutoCAD 2010, Civil 3D 2010, Land Development Desktop 2009, MicroStation v8, MS-Office, MS-Access.