INTRODUCTION & MISSION STATEMENT

Global Solutions, LLC (GS) is a Civil Engineering firm founded by Mr. Vinay K. Polepalli in 2003. Global Solutions is a 100% minority-owned business enterprise. Global Solutions is a certified 8(a)/SDB, DBE and MBE firm. GS is one of very few firms in the state of Kentucky that is pre-qualified and certified as a DBE to provide Traffic Engineering Services.

Global Solutions mission is to serve the client with respect and produce a quality and cost effective product to establish a long term mutually beneficial relationship. Global Solutions would make every effort to reinforce this relationship with dependable, trustworthy and affordable service.

OWNER’S BACKGROUND:

As a consultant Mr. Polepalli has been practicing civil engineering for several years. In this role he oversaw design development on several projects which include civil engineering projects (such as churches, schools and various commercial buildings) and highway/traffic engineering projects (I-65 widening, Central Avenue, Jefferson Blvd, I-75 Interchange etc.)

Mr. Polepalli has license to practice civil engineering in the states of Kentucky and Indiana. He has graduated with Masters in Civil Engineering (MS) from University of Kentucky and Masters in Business Administration (MBA) from UofL. He is very proficient with computer software that is used in design and drafting. He is also very well trained in various aspects of project management and project development.

SERVICES OFFERED BY THE FIRM

Global Solutions offers Highway, Traffic Engineering Site Development and Project Management services. GS provides civil engineering services such as layout, grading & drainage, traffic control plans etc. We are proficient in using MicroStation, AutoCADD and InRoads. We are proficient in using various drainage spreadsheets and software (KTDID, HYDRAIN, HY-8 Energy etc.) We are also proficient in using corridor simulation model CORSIM software to simulate traffic in a network and HCS (Highway Capacity Software) to analyze traffic at various locations. We are also familiar with TRANSYT 7F and PASSER software.

Following are a few services offered by Global Solutions, LLC:

CIVIL/SITE DEVELOPMENT:
- Layout Plans
- Grading Plans
- Drainage Plans
- Utility Plans
- Detail Sheets
- Permits, Specifications and etc.
- Divide land for residential and commercial development
- Plot house pads for residential development
- Prepare plans for connections to public water and sewer lines
- Provide site plans indicating setbacks from property lines and adjacent public/private roads

HIGHWAY ENGINEERING:
- Roadway Geometric Design (Urban and Rural)
- Maintenance of Traffic Plans
- Project Management
- Bid Evaluation
- Cost Estimation
- Bid Document Preparation
- Erosion Control Plans
- Utility Co-ordination
- Right-of-Way Takings
- Highway Drainage Analysis
- Roadway Storm Water Design

TRAFFIC ENGINEERING:
- Traffic Signal Plans
- Signing and Stripping Plans
- Signal Timing
- Traffic Impact Studies
- Signal Warrant Analysis
- Network Signal Analysis
- Surface Street and Freeway Network Simulation
- Capacity Analysis
  - Signalized & Un-signalized Intersections
  - Ramps and Ramp Junctions
  - Interchange Ramp Terminals
  - Multilane Facilities
  - Two-lane Facilities
  - Weaving Sections

PROJECT MANAGEMENT:
- Project Scope preparation
- Prepare work breakdown structure
- Perform EV analysis
- Setup project controls
- Perform QA/QC
- Monitor Project Progress & Sub-Consultant management