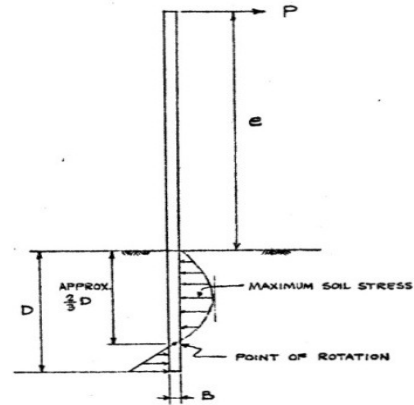


**Project: Design of Steel Pole Foundation as per CALTRANS standards**

**Client: A renowned client in Highway Signage Industry**

Our client needs a very simple mounting solution for the steel pole which supports LED sign powered with solar panel. He wants a design that uses conservative soil assumptions, with 150mph winds, a depth below the frost level and is not site specific. The foundation system needs to be simple and easy to install.

Paradigm was chosen to support them in selection of foundation, including design calculations & detailing.



**Objective:**

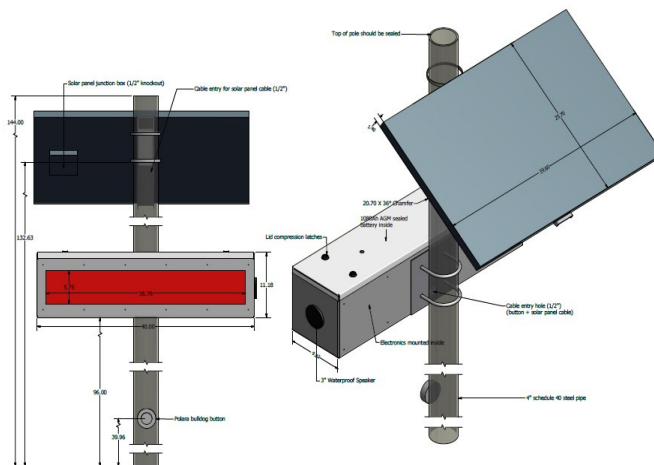
- To advise appropriate foundation solutions for the Structural Steel poles, to support solar signs.
- To provide design calculations, this supports given proposal, as per ASCE/ACI codes.
- To provide detailed drawings for submission to California DOT (CALTRANS).

**Services:**

- Suggest proposal for structural steel pole foundation, answering all client requirement.
- Design reports for said structural steel pole foundation, using ASCE/ACI codes.
- Preparation of Drawing which will supports all CALTRANS standards.
- Three tier checking of design and drawings to ensure the quality.
- Highly efficient team guided by well experienced professionals to generate high productivity.

**Benefits:**

- Economic Foundation Design based on embedment depth to induce sufficient soil friction, to provide stability.
- Easy Installation of Steel Pole, poles are fixed into circular concrete cases irrespective of site, fill by concrete.
- Effective co-ordination between Client and Design team, from proposal to preparation of drawing.
- Efficient Documentation and drawings, fullfills all client needs.



**Solar Signage Pole**

**Software Used:** Autocad2011, Mathcad 14 and Microsoft Office.

**Technology:** Customized worksheets in Excel and Mathcad for design.

**Codes Used:**

Country: ASCE / ACI  
Standards: CALTRANS

**Duration :** September 2011

**Team Size :** 1 Engineer and 1 Cad Staff

