

EXAMPLE

USE APPROPRIATE PAGE NUMBERS

SUPPLEMENTARY EXPERIENCE RECORD

Page no. 1 of 9 pages

REFER TO THE REVERSE SIDE OF THIS FORM FOR INSTRUCTIONS FOR COMPLETING THE SUPPLEMENTARY EXPERIENCE RECORD.

DESCRIPTION OF ENGINEERING PERFORMED:

(Use complete sentences written in first person.)

SAME NUMBER AS APPLICABLE SECTION OF APPLICATION

ENGAGEMENT NO. ____ FROM: _____ TO: _____ (dates)

NAME OF EMPLOYER AND LOCATION: ABC Engineering Company, Dallas, Texas

ENGINEERING SUPERVISOR'S NAME(S): Samuel J. Smythe, P.E.

GENERAL: WHEN, WHERE, AND WHAT

My first year and a half of experience entailed being a member of the engineering production staff designing Wal Mart Stores. I performed analysis and design on 29 Wal Mart Stores in 7 different states.

TYPE OR DESCRIPTION OF WORK

Each project included the design of foundation, walls, and roof and the interface of each. Occasionally special structures were included. Local codes were considered in each situation.

I designed the roof framing, which consisted of a joist/joist girder system supported by tube columns, the masonry walls, the foundation systems (spread footing or pier and grade beam). I also designed a two-way flat plate slab supported by timber piles for the Wal Mart in Philadelphia, PA.

TELL US IN DETAIL WHAT YOU PERSONALLY PERFORMED

One of the more challenging projects I designed is located in Hallandale, Florida. I analyzed and designed the 12" load bearing masonry walls for 100 mph wind forces under the South Florida Building Code. The lateral system involved 2 C-shaped cantilevered diaphragms separated by an expansion joint. I calculated the deck shears for the C-shaped diaphragm taking into account a rigid diaphragm analysis. Due to the high deck shears, I determined that zones of heavier gauge roof deck must be used along the perimeter of the shear walls. I also calculated the tension/compression chord forces of the cantilevered diaphragm and sized the chord angles. I designed the spread footing foundation system for gravity loads as well as the large uplift loads. I concluded that for an economical design, the footing must be placed 2.5 feet below the finished floor to take advantage of the dead load of the soil above the footing. This particular Wal Mart also had a wood framed canopy along the front of the building. I designed all the connections necessary (i.e., hurricane ties to hold the canopy down at the ledger and adhesive anchors to anchor the ledger to the masonry wall) to resist the wind uplift forces.

The projects, ranging in size from 90,000 to 120,000 square feet, were located in the following cities:

Aberdeen, MD
Bedford Park, IL
Philadelphia, PA

Albuquerque (E), NM
Boca Rotan, FL

Hallandale, FL
Coshocton, OH

YOU MAY LIST ADDITIONAL SIMILAR PROJECTS BY TITLE, SIZE, LOCATION, ETC. BELOW OR ON AN ADDITIONAL SHEET OF PAPER.

Samuel Smythe, P.E.
Reference's Signature

11-7-96
Date

Your Name
Applicant's Signature

11/1/96
Date