

Concept Design Report

For Project: Roundhouse

For Project Number: 304

February 24, 2016

Schmitt Werbenjegermanjensen



**GORDON AND SONS
ENGINEERING SERVICES
Est. 1996**

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100 Road Street
City Town, PA 65447

Concept Design Report

Background

A custom home was expected to be built to meet the standard necessities of a house. The house was expected to have either multiple rooms or large multipurpose rooms. This was to include at the least a dining room, a kitchen, a bathroom, a bedroom, and family room. The home was to be fully furnished with all standard appliances and devices for entertainment as well as general practicality. The client wanted at least six windows and at least two exterior doors. Also the client wanted matching wood of the floor, walls, and doors.

Along with the specifics for the house, the client also had requests for outdoors. First the property should be fully landscaped. They requested that trees and shrubs of at least 3 different types surround the house. Some type of patio with a deck and some type of luxury item, like a pool or Jacuzzi should be constructed along with walk ways that lead around the house. A driveway is to be included. Finally, it was asked that something different or exciting be included as well.

To build the house, a preliminary design was created in a three-dimensional modeling software called Sketchup. In this modeling software, a full-scale model of the house was created. In the model, all rooms, furniture, and landscaping was laid out. Initially, the floor plan was laid out. The design decided upon was different and exciting in itself. It was to have 2 half circles stacked on top of one another. The top having twice the radius of the bottom. These circles were to be offset and supported by a concrete column encased in steel in the center that doubled as a chimney. There would also be columns under the top section to compensate for its offset. Because the circles were offset, this allowed for a deck area to be built on top of the offset portion of the lower section of the house. The outer curved sections of the house were lined with windows, but these windows allow sunlight to heat up the dark floor, therefore creating a more efficient source of heat in the winter, while in the summer, the sun will be too high to enter the house. Because the walls are stone, assuming that the house is kept closed up, it will stay cool in the summer. The floors are hard wood as well as the walls.

Because of the offset circle design, the bottom section and supports for the top section were built first. With the supports in place, the wood floor and stone walls for the top section were built. The wood dividing wall for the bathroom in the upstairs was then built. The plumbing and electrical system for the upstairs was then run through an auxiliary shaft in the center support for the house.

Design Concept

The house was meant to be more of an extravagant designer home. It is, however, functional for keeping warm in the winter due to its array of windows and cool in the summer due to its stone construction. The general theme that was trying to be conveyed was a blend of uniqueness, but with practicality, and nature. The house was built on the edge of a river and its windows provide a panoramic view of the river as well as the surrounding forest. The mixture of stone and dark wood in the house are meant to make the owner feel as though they are in a forest at any given time and because of the windows, that is mostly what they will see. It is the ultimate place to relieve stress and become one with nature.

Components of the Project

- At least 5 rooms or a large great room, which combines the specific functions of several of the more traditional room spaces. This includes at least six windows and two exterior doors.
- Furniture, such as beds, sinks, dressers, couches, tables, chairs, TVs, etc.
- All components of a house, including walls, roof, doors, windows, etc. must be coordinated by style, texture, and color.
- A lawn and scaled shrubs that completely surrounds the house.
- At least three different type trees/shrubs in the yard.
- An exterior patio, pool, Jacuzzi, play area, etc.
- A sidewalk and driveway
- A really cool something unusual or unique, but appropriate

Project Description

Exterior View:

Figure 1:



Figure 2:



Figure 3:



Figure 1 provides a view of the house and its positioning by the river. One can see the deck on the top of the lower portion of the offset and the supports for the top portion of the offset. One can also take note of the fact that the windows wrap around the entire curved face of the structure.

Figure 2 provides a rear view of the structure. One can see the parking space under the top part of the offset. As well as the deck in the rear with the Jacuzzi. One may also note the

entrance to the deck from the upstairs of the house as well as the center support and chimney.

Figure 3 provides a closer look at the face of the structure and the alignment of the windows using flat panels. One may also note the dividing wall between the bedroom and living area and the bathroom.

Interior View

Figure 1:



Figure 2:

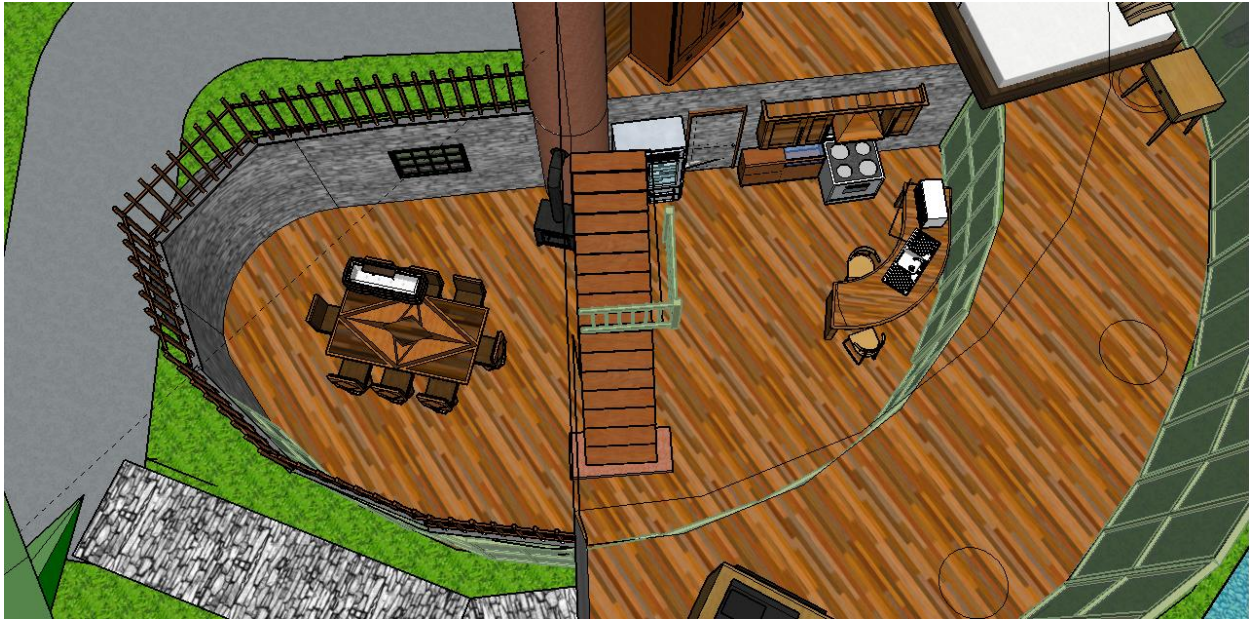


Figure 1 displays the upstairs of the house. It shows the layout of the bedroom, living, and bathroom. Note that the bath room contains a tub, a standing shower, a sink, and a toilet. The bedroom contains a bed, a dresser and a wardrobe, as well as a mirror and night tables. The bedroom is connected to an entertainment center containing a television cabinet and seating. Also notice the patio at the top of the image as well as the bridge and trees.

Figure 2 displays the downstairs of the house. It displays the layout of the kitchen and dining area. The front entrance of the house is directly in front of the staircase. The kitchen includes counter space, an oven a microwave, cabinets, and a refrigerator. The dining are includes a dining room table set, a chandelier, and a wood stove.

Fees

See attached Invoice No. 3456



INVOICE

INVOICE NO: 3456

Gordon and Sons Engineering Services

DATE: 24 FEBRUARY 2016

100 Road Street
City Town, PA 65447
Telephone No.: 456-879-5667
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TO Schmitty Werbenjegermanjensen
1 Iam#1 Road
#1 Town, PA 87658
Telephone No.: 218-985-8768
eMail: iam#1@gmail.com

TASK	UNIT	QUANTITY	RATE PER HOUR	TOTAL
Professional Services	Hour	300	\$8,950.00	\$2,685,000.00
Technical Support	Hour	350	\$7,000.00	\$2,450,000.00
PC Time	Hour	009	\$5,000.00	\$45,000.00
SUBTOTAL				\$5,180,000.00
Profit (10%)				\$518,000
TOTAL				\$5,698,000.00

Make all payments payable to: Gordon and Sons Engineering Services
Payment due within [90] days

If you have any questions concerning this invoice, please contact Gordon and Sons Engineering Services office:
Phone: (456) 879-5667
eMail: [gordonandsons@gordonandsons.ind]

Thank you for your business!

