

PROJECT ANALYSIS

FOR

Mercedes Benz Dealership

BY

Landon Kowalski

STATEMENT OF THE PROBLEM

To design a 48,000 square foot indoor golf facility near downtown Arlington Heights. The building will be called Golf Nation and will contain an artificial putting green, an artificial chipping green, a hitting range, and a café style restaurant. The site will need to have ample parking, the lot has over 35,000 square feet for parking. The structure is to have a flat roof, concrete walls, and an open floor plan . The total cost for the project must not exceed \$7 million and must be completed by December 17, 2009.

I. CLIENT DATA

- A. Company Name: [LJK Architecture](#)
- B. Owner or Contact Person: [Landon Kowalski](#)
- C. Street Address: [360 Butternut Drive](#)
- D. City: [Buffalo Grove](#) State: [IL](#) Zip Code: [60089](#)
- E. Product or Services: [Architectural Designer](#)

II. BUILDING SITE DATA

- A. Lot Dimensions [240 ft X 730 ft](#) Area [83,000 sq. ft.](#)
- B. Existing Contours [flat land](#)
- C. Existing Landscape [black top parking lot](#)
- D. Existing Easements [per city](#)
- E. Location of Lot (Address) [2020 Northwest Highway, Arlington Heights, IL](#)

III. PERSONNEL DATA & NEEDS

- A. Number of Occupants [24](#)
 - 1. Salaried Employees [\\$22,000 a year](#)

2. Hourly Employees \$10 an hour

3. Part-time Employees \$9 an hour

B. List of Personnel by Position

1. Job Title **Manager** Qty. 2

a. Responsibilities of Job **supervising employees, planning events, working at computer, and talking on phone.**

b. Equipment Needed for Job **chair, desk, computer, phone, enclosed office, printer, and file cabinets.**

2. Job Title **Custodian** Qty. 3

a. Responsibilities of Job **cleaning floors, bathrooms, offices, and tables of café.**

b. Equipment Needed for Job **floor polisher, vacuum cleaner, towels, and disinfectant spray.**

3. Job Title **Bartender** Qty. 2

a. Responsibilities of Job **serve customers beverages and food at bar**

b. Equipment Needed for Job **glasses/ cups, soda tap, cash register, and alcohol.**

4. Job Title **Waiter/ Waitress** Qty. 4

a. Responsibilities of Job **take customer food orders, bring food to customers, and give customers the bill.**

b. Equipment Needed for Job **small notebook for taking orders and cash register.**

5. Job Title **golf ball picker** Qty. 3

a. Responsibilities of Job **pick up all golf balls from hitting range and chipping green, rake sand bunker, and refill golf ball buckets at hitting stations.**

b. Equipment Needed for Job **golf ball picker, golf ball buckets, and sand trap rake.**

6. Job Title **Greeter/ Doorman** Qty. 3

a. Responsibilities of Job **to greet people that are entering the building and checking people in.**

b. Equipment Needed for Job [front desk and computer](#)

7. Job Title [Cashier](#) Qty. 4

a. Responsibilities of Job [process purchases made from the golf shop or the restaurant.](#)

b. Equipment Needed for Job [cash register, one in restaurant and one in the golf shop.](#)

8. Job Title [Chef/ Cook](#) Qty. 3

a. Responsibilities of Job [cook/ prepare food ordered by customers.](#)

b. Equipment Needed for Job [oven with stove top, sink, counter space, food supplies, deep fryer, and cooking utensils.](#)

IV. CUSTOMER NEEDS

A. Outside of Building [covered entrance, advertising signs, sidewalks, garden area with a pond, and parking spaces.](#)

B. Inside of Building [café with bar, lobby, restrooms, 3 employee offices, golf shop, hitting range, putting green, and chipping green.](#)

V. BUILDING DESIGN DATA

A. Approximate Shape Desired [rectangle](#)

B. Maximum Length & Width Allowed [500 ft X 100 ft.](#)

C. Number of Levels Desired [one level](#)

D. Square Footage Desired [48,000 square feet](#)

E. Style of Building Desired [traditional style](#)

VI. BUILDING MATERIALS DESIRED

A. Exterior Walls [block concrete](#)

B. Roofing [Cook county Roofing Co.](#)

C. Soffit or Trim [Wide Flange J Channel trim](#)

D. Windows [Andersen Casement windows](#)

E. Glazing of Windows [clear](#)

F. Exterior Doors [Andersen Commercial Entry doors](#)

- G. Roof Drainage System [AWD Sheet Drain](#)
- H. Interior Walls [2 x 4 with ½” gyp. board](#)
- I. Interior Doors [Andersen arched top interior doors](#)
- J. Interior Trim [wood trim](#)
- K. Cabinetry [Thomasville maple office cabinets](#)
- L. Hardware [wood and aluminum hardware](#)
- M. Floor Coverings [Armstrong vinyl tile floors](#)
- N. Wall Coverings [drywall with light brown/tan paint](#)
- O. Ceilings [Armstrong white ceiling panels](#)
- P. Lighting [Kichler ceiling lights](#)

VII. SPACE NEEDS

- A. Public Areas (Type & Sq.Ft.)
 - 1. [Café = 1,000 sq ft](#)
 - 2. [hitting range = 10,000 sq ft.](#)
 - 3. [putting and chipping green = 10,000 sq ft](#)
 - 4. [golf shop = 1,000 sq ft](#)
 - 5. [lounge = 500 sq ft](#)
- B. Employee Areas (Type & Sq.Ft.)
 - 1. [kitchen/ bar = 1,000 sq ft](#)
 - 2. [3 offices = 300 sq ft each](#)
- C. Mechanical Areas (Type & Sq.Ft.)
 - 1. [2 bathrooms = 500 sq ft each](#)
- D. Storage Areas (Type & Sq.Ft.)
 - 1. [golf ball and picker storage room= 300 sq ft](#)
 - 2. [janitor closet = 100 sq ft](#)

VIII. MECHANICAL EQUIPMENT & SPECIAL FEATURES

- A. Heating System [Kenmore multi-room air conditioner](#)
- B. Cooling System [Kenmore multi-room air conditioner](#)
- C. Electronic Air Cleaner [Kenmore Electrostatic air cleaner](#)
- D. Water Heater [Kenmore LP gas water heater](#)
- E. Humidifier [Kenmore 12 gallon humidifier](#)
- F. Dehumidifier [Kenmore 70 pint dehumidifier](#)
- G. Central Vacuum Cleaner [Kenmore Ebony Canister Vacuum](#)
- H. Intercom System [5 channel wireless intercom system](#)
- I. Security System [ADT small business security system](#)
- J. Skylights [Velux skylights](#)
- K. Atriums [none](#)