

ADDA
American Design Drafting Association
Architectural Contest
High School and Post-Secondary Levels

Your clients are a younger couple that just made millions with their online realty business. The Stafford's now want to build their own home in a gated community in Pleasantville near Las Vegas, Nevada. There are strict regulations that you have to take into consideration when designing a house in this community. The house must blend in with the rest of the homes in the neighborhood in colors and design style. There is currently a somewhat Mediterranean style to the neighborhood. They have provided you with a sample elevation of another house in the area.

Before construction can be started you must submit a design review package to the planning department at the City of Las Vegas and to the neighborhood home owners association (HOA). Your job is to take the simple sketch that the Stafford's have provided and create this design review package. A design review package requires: $\frac{1}{4}'' = 1'-0''$ scaled floor plan dimensioned and labeled along with an openings schedule, $\frac{1}{4}'' = 1'-0''$ scaled elevations from the front and $\frac{1}{8}'' = 1'-0''$ of the other 3 sides, site plan at $1'' = 20'-0''$ with code analysis, one wall section at $\frac{3}{4}'' = 1'-0''$ scale showing the construction and material to be used, an interior elevation of the kitchen at $\frac{1}{2}'' = 1'-0''$, & a Foundation Plan at $\frac{1}{4}'' = 1'-0''$ including all relevant details at $\frac{3}{4}'' = 1'-0''$.

You must comply with general building codes and the 2009 IRC. The Stafford's have also provided a wish list as to what they want changed/added to their sketch. You must meet the deadline or you will have to wait another month for the next planning meeting. GOOD LUCK!!!!

Note: Modifications to current floor plan sketch will have to be made to accommodate additional closets and baths.

Your task is to provide the following drawings for your client's use:

- Floor Plan
- Openings Schedule
- Exterior Elevations
- Elevation of the Kitchen as indicated on the sketch at B
- Plot Plan
- Foundation Plan with Details

General Information

- Use good CAD production techniques.
- Utilize drawing layout wisely. **You are allowed a maximum of (FIVE) saved PDF sheets.**
- Dimensioning, general text, and notes shall have a plotted height of $\frac{1}{8}''$.
- Other text (i.e. titles, room names) may be a height of your choice, but must be legible and appropriately sized using architectural conventions.
- Include a title and scale for each drawing on the sheet. Include a North arrow where appropriate.
- Use the ADDA Architectural Sheet with border and title block provided. Be sure to fill out the title block properly.
- The scale of all required drawings will vary. Utilize wise sheet layout.

WISH LIST

Front Open Courtyard (no roof)

Raised Exterior Front Entry

Casita/Office off of courtyard

Full Bath

Walk-in closet

French doors

Bedroom 2

Full Bathroom

Master Bedroom

Built-in TV/Stereo niche

Direct Access to master bath w/o door

Master Bath

Jacuzzi tub

Walk-in shower

Separate water closet room

2 Lavatories

Walk-in closet

Great Room

Very Large and open

Built-in TV/Stereo niche w/ fireplace

Access to covered patio & rear yard w/ French doors

Must provide some kind of separation between kit/dining/nook & still keep open look

Covered Patio

Additional 1/2 Bath w/ water closet and lavatory or access to existing bath

Nook

Off Kitchen w/ lots of windows

Kitchen

Island w/ Sink, DW, & eating bar

Utility off Kitchen & Garage

Stove/Range

Refrigerator

Pantry

Utility Room

Counter for folding clothes w/ sink

Dining Room off Kitchen

3-Car Garage

Other Wishes

- All hallways to have all necessary linen closets.
- Front Entry/Coat closet is a necessity and must be added.
- Large Windows in rear to take advantage of exceptional rear view.
- Living square footage to be not less than 3,000 and not more than 3,100.
- Garage square footage to be not less than 700 and not more than 750.
- Provide living and garage square footage calculations on Floor Plan and Plot Plan.

CODE ANALYSIS (Should be provided next to the Plot Plan)

- Jurisdiction = City of Las Vegas
- Codes – 2009 IRC
- Construction Type: VN
- Zoning = R-1
- Total Square Footage of structure = _____ (House + Garage + Patio)
- Lot Coverage = _____% (Square Footage of Lot = 13,899.4 s.f.)
Lot coverage is the ratio of the square footage of the entire structure vs the square footage of the lot.

Foundation Info

- To be a turn down footing w/ min 28” thick and 14” wide w/ (3) #4 rebar cont. & 4” interior slab on grade w/ 6x6-w2.9xw2.9 WWM at center, over 4” A.B.C. earth

Requirements

Floor Plan

1. Single family residence per attached Sketch
2. Floor plan is to be plotted at a scale of ¼” = 1’-0”.
3. Exterior walls to be 2 X 6 wood studs @ 16” O.C. w/ R-19 batt insulation between & treated sill plates w/ ½” X 10” anchor bolts @ 48” O.C.
4. Exterior to be fully sheathed w/ 3/8” plywood for structural shear
5. 2-Coat stucco system over metal lath on exterior,
6. Interior partitions to be 2 X 4 wood framing @ 16” O.C. with ½” gyp. Bd. on all interior walls minus rear wall of garage. Rear garage to have 5/8” gyp. Bd.
7. 5/8” gyp. Bd. on all ceilings
8. All ceilings are to be 12’-0” high unless noted otherwise.
9. Combination Style Roof to be a 4:12 pitch
10. Boxed soffit construction w/ 8” RX-90 fascia board, 2 X 4 lookouts w/ 2” cont. eave vents thru ½” plywood soffit boards and 18” overhang.
11. Concrete roofing tile, over 30# felt, over 5/8” plywood sheathing, over pre-engineered roof trusses @ 24” O.C. w/ R-30 batt insulation between
12. Show casework, appliances and plumbing fixtures. Do not show furniture.
13. Provide necessary interior and exterior dimension for construction.
14. Dimension all exterior windows and doors to their center.
 - a. Sills of all bedroom windows shall be a maximum of 40 inches above the finished floor.
 - b. Front door to be a 36 wide door. All other doors to be 30 inches wide.
15. Indicate door and window sizes for each door and window on a single opening schedule. Make sure each door and window is scheduled with a unique door number and windows letter.
 - a. Include the openings schedule on the same drawing sheet as the floor plan.
16. Electrical information is not required.

Plot Plan

1” = 20’-0” Scale

Location of house and orientation w/ dimensions from property lines

Lot lines labeled and dimensioned

All setbacks labeled.

You must find the missing lengths and direction of the bearings not provided.

BSL’s = 5’ LEFT SIDE, 10’ RIGHT SIDE, AND 25’ FRONT AND REAR

Provide the driveway & walkway to front door.

Code Analysis included

Wall Section

Using the basic list of construction items provided, the information previously stated about the exterior wall construction, and all notes included throughout this packet as applicable, develop an exterior wall section where indicated at (A).

The wall section should cut directly thru a window in bedroom 2 where the section is indicated.

$3/4'' = 1'-0''$ Scale

Fully Dimensioned and materials called out

Elevations

Provide all four elevations

- Draft the Front Elevation at $1/4'' = 1'-0''$
- Draft the other 3 Elevations at $1/8'' = 1'-0''$
- Provide proper annotation and dimensioning

Interior Kitchen Elevation

Draft an elevation of the kitchen casework as indicated on the attached sketch.

Scale of the elevation to be $1/2'' = 1'-0''$

- Show lower and upper cabinets, range, and any other appliances that should be shown.
- Show all other elements that would be visible in the elevation.
- Dimension and annotate appropriately, including material designations.

Foundation plan

- Draft a Foundation Plan at $1/4'' = 1'-0''$ Scale
 - Indicate on the Foundation Plan each Detail
- Draft all Foundation Details required for the structure.

REMEMBER

- Your job is to bedazzle the Planning Commission with a clean, comprehensive Design Review Package.
- Read the contest problem thoroughly before starting, then read it again and highlight all important and necessary information and requirements.