

BEDROOM #2 BEDROOM #3 BEDROOM #3 BEDROOM #2 BEDROOM #3 BEDROOM #2 BEDROOM#3 BEDROOM#2 BEDROOM#2 BEDROOM#3 BEDROOM#2 BEDROOM#3 LOFT SPACE LOFT SPACE LOFT SPACE LOFT SPACE LOFT SPACE LOFT SPACE OPEN TO PAMEY RM OPEN TO SECOND FLOOR

Precedent Studies.

Town House



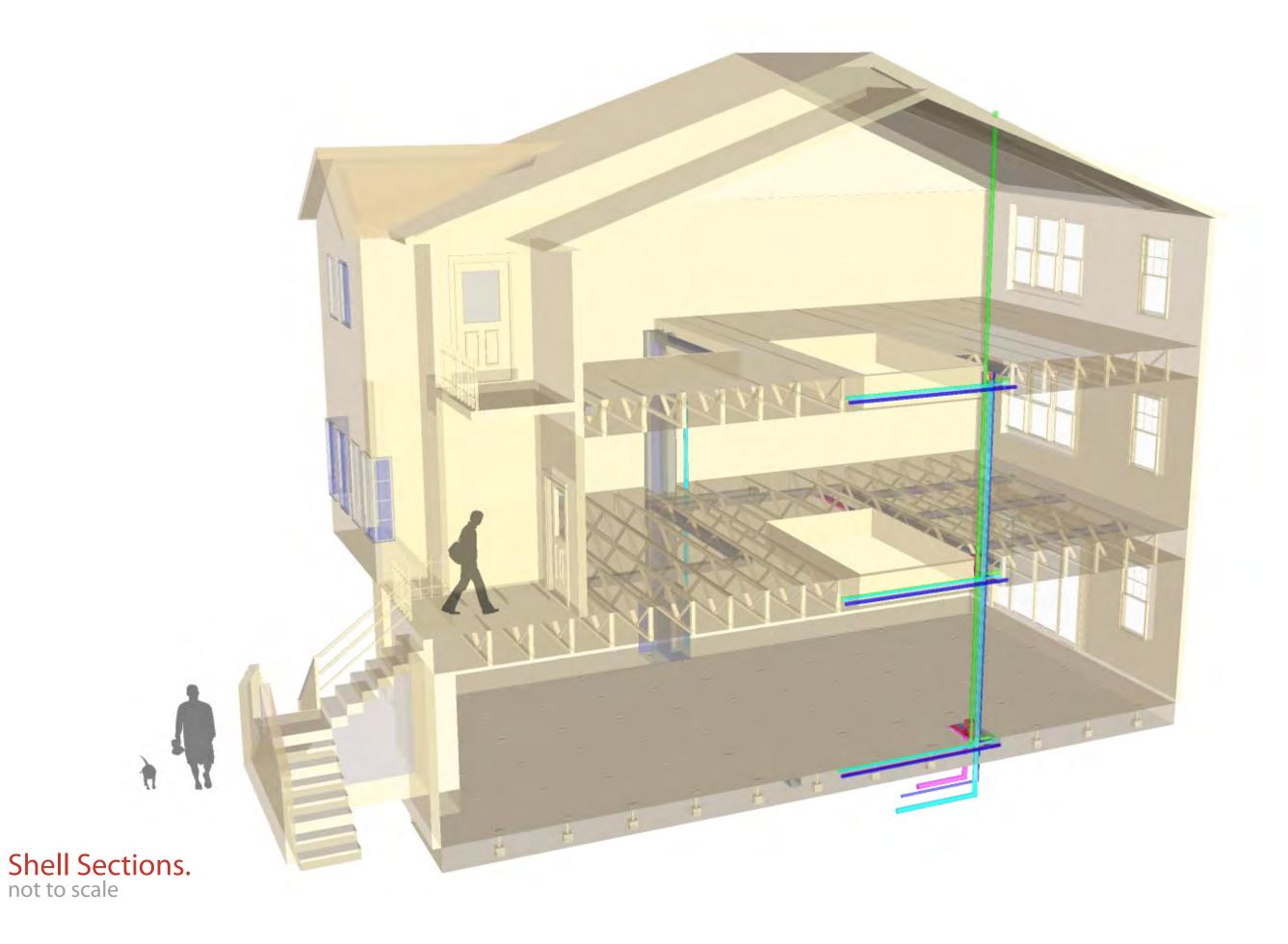


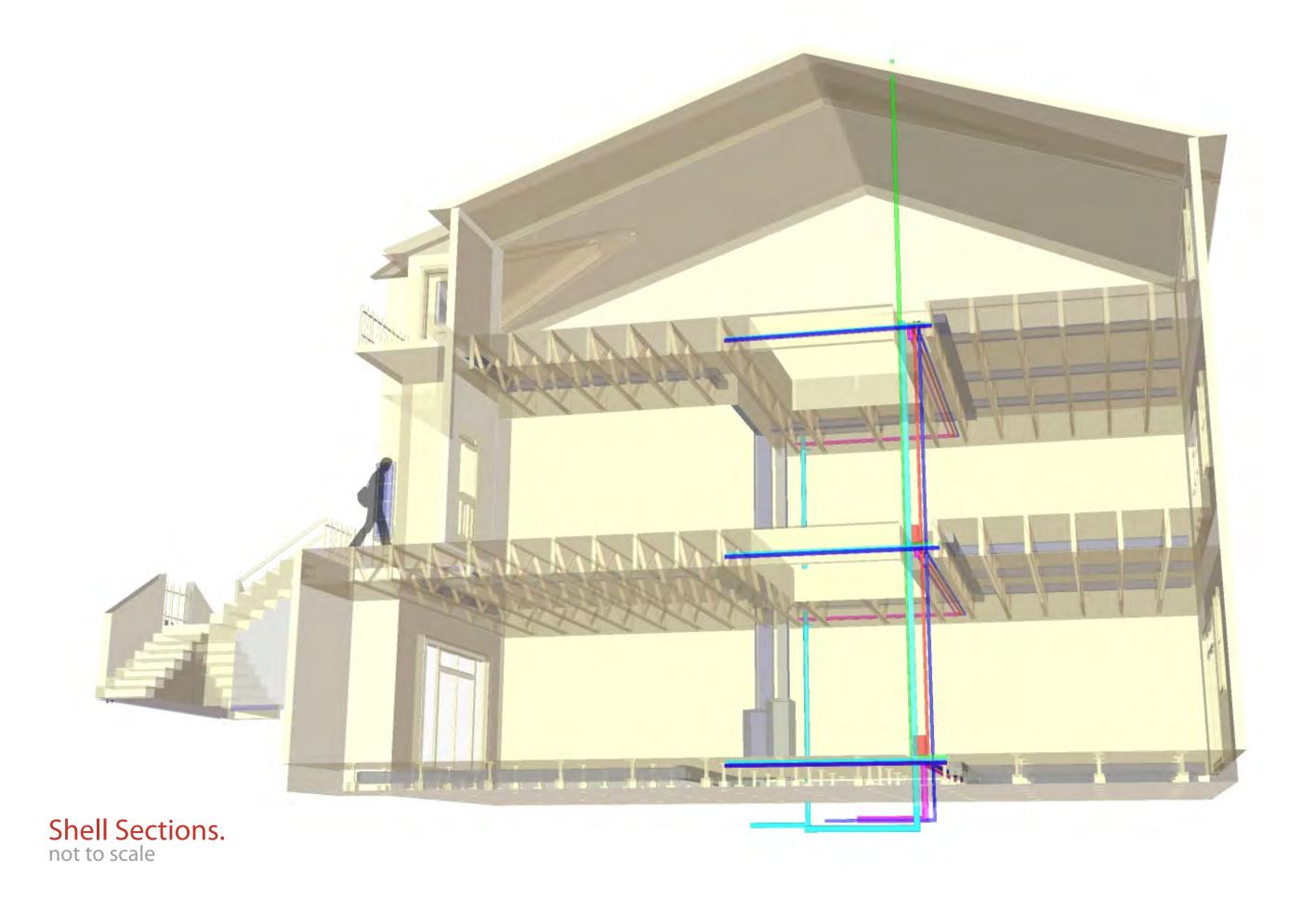


Extensive studies of basic floor plans found found in text books, journals, via internet, and also provided by Ryland homes and The Village of West Clay lead to a clear understanding of basic infill variations based on basic needs.

Facade studies provided a wide range of design solutions, material palettes, and facade organization.

Studies also showed a clear distinction, or series of "zones" as the user approaches and enters his or her private space.





The electrical bundle is ran through the rear Open web joists span the second shaft and utilizes a trench system to access and third floors with all systems the front shaft in the shell model. The wire mold to be ran within. The ground floor product line would be used to provide infill walls is a concrete slab with a pedestal with any electrical needs. style raised floor to provide an adequate plenum space. HVAC. Sewage. The HVAC ducts are ran in the shell floor with the furnace located in a mechanical closet Sewage lines are located in both on the first floor and a condenser unit placed vertical shafts. Additional sewage outdoors. Supply ducts are consistent with lines are to be ran with the infill walls the heat gain and heat loss of the shell, and return and correspond to either shaft. air is centrally located. Vent Gas. H_20 Vent lines are located in both shafts All plumbing supply is ran through the rear shaft and may be ran within infill walls and utilizes the trench system to access the as needed. front shaft in the shell model. A tankless hot water heater is located on the first floor and a secondary unit could be located on the third if needed.

ELECTRICAL.

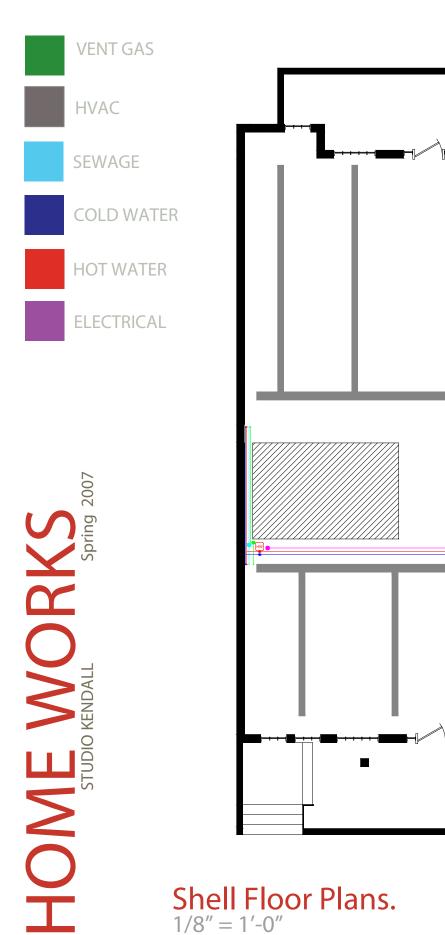
Shell Sections.

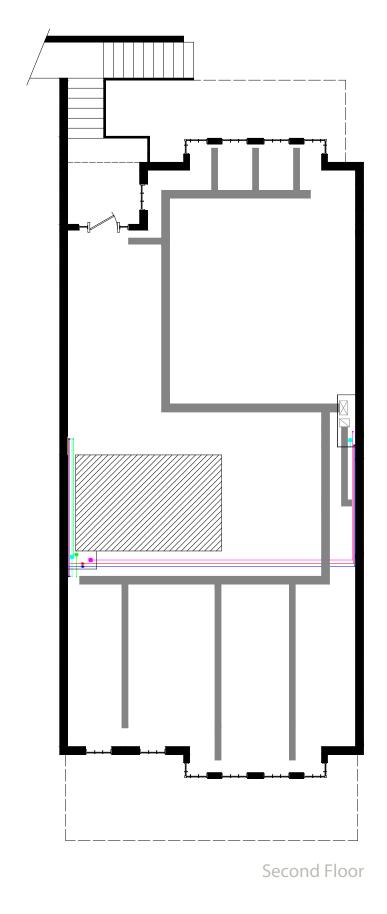
STRUCTURE.

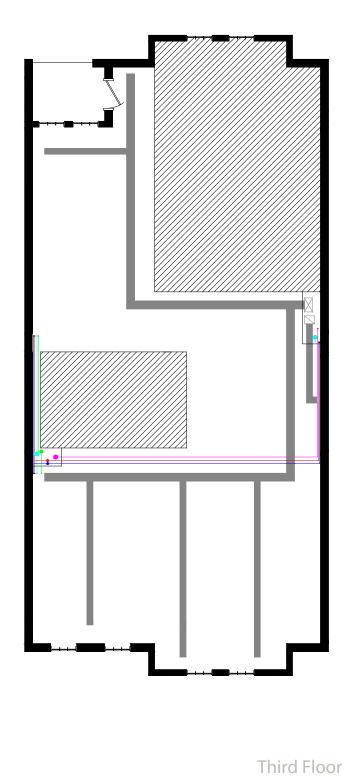
1/8'' = 1'-0''



Shell Perspective. not to scale



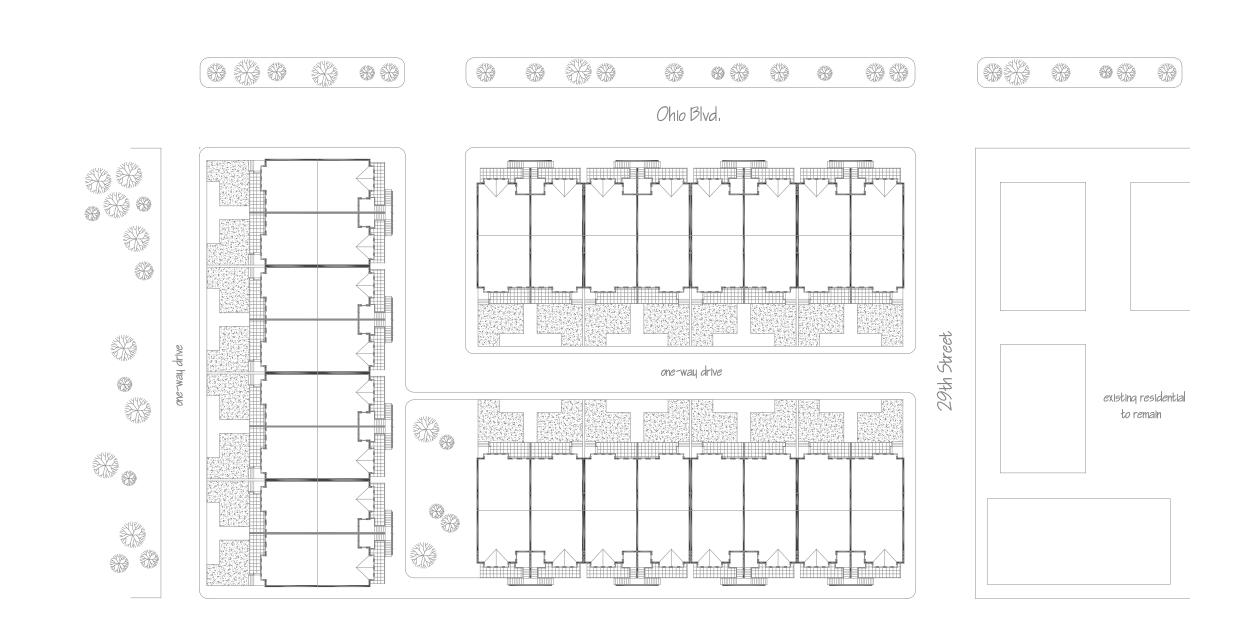




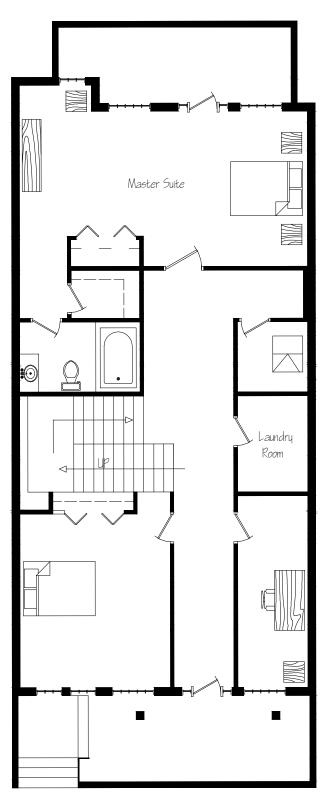
First Floor

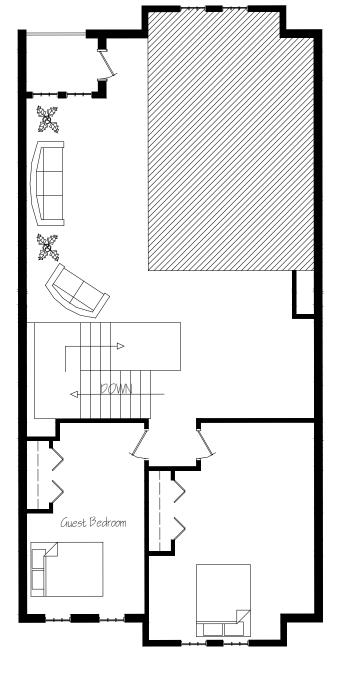
Shell Floor Plans. 1/8" = 1'-0"

2 Powers



Site Plan. 1" = 20'-0"

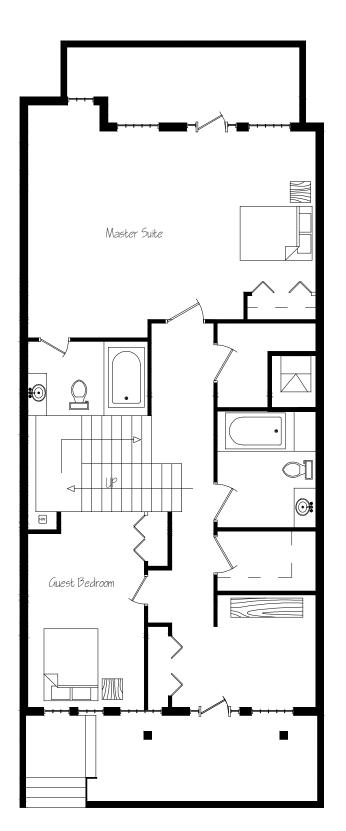


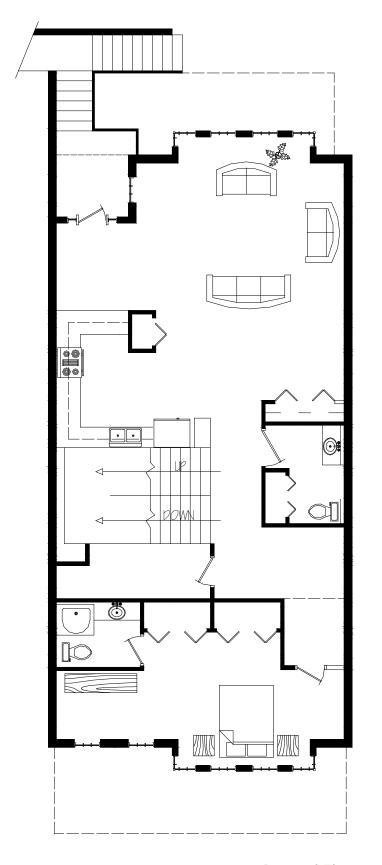


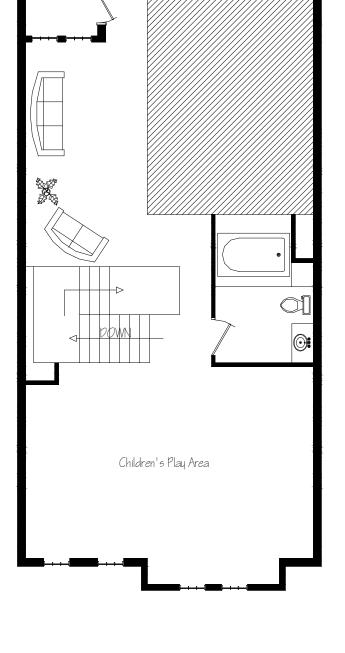
First Floor

Variation #1. 1/8" = 1'-0"

Second Floor Third Floor



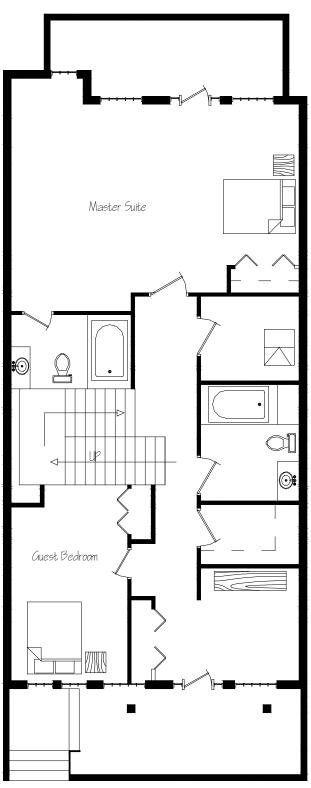




First Floor

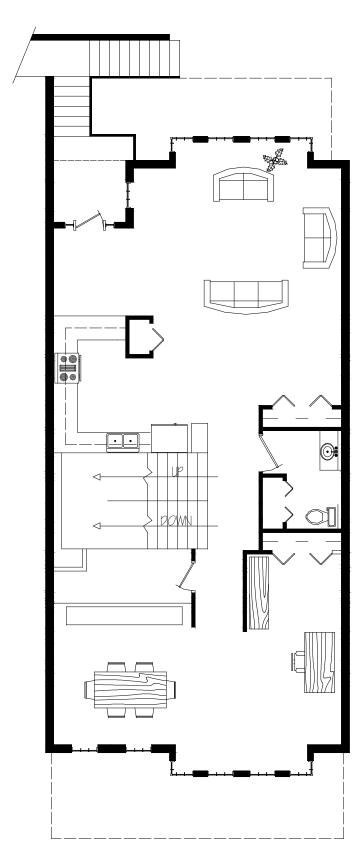
Variation #2. 1/8" = 1'-0"



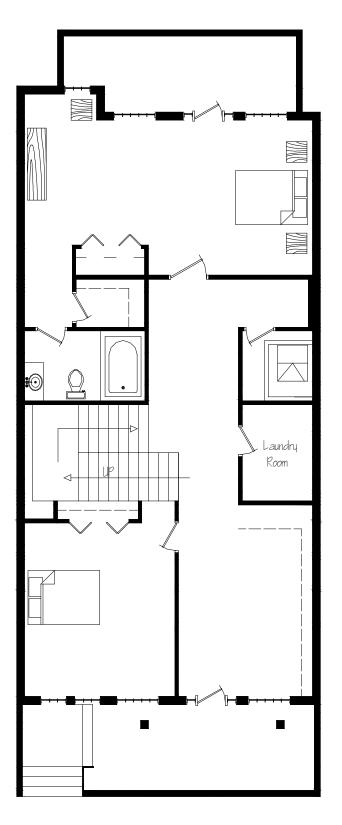


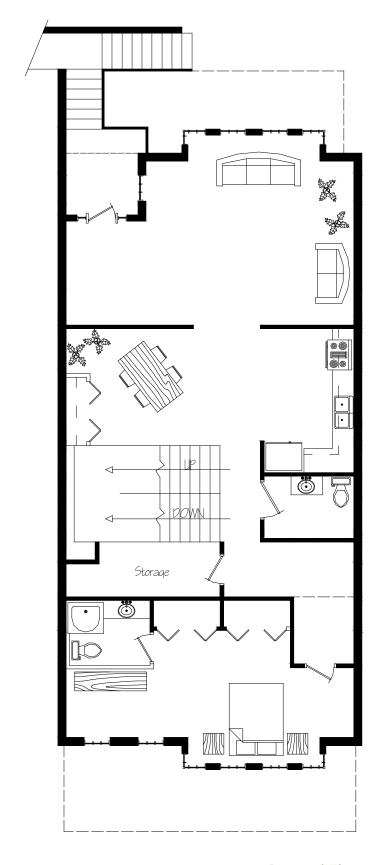
First Floor

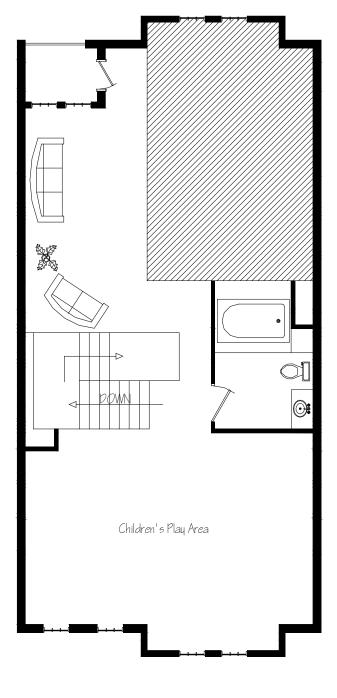
Variation #3. 1/8" = 1'-0"



Second Floor Third Floor







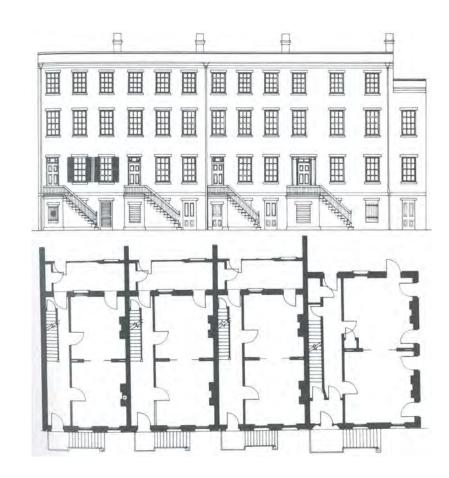
First Floor

Variation #4. 1/8" = 1'-0"







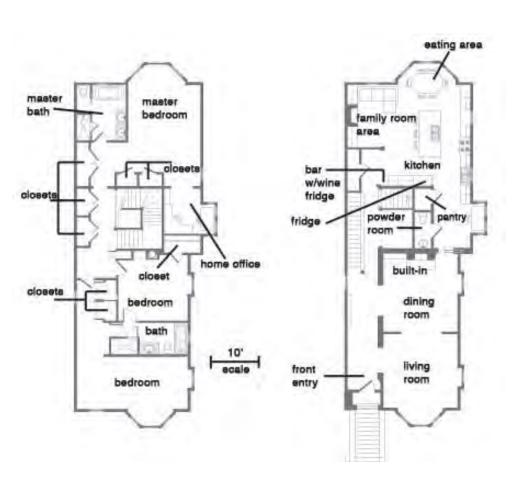












precedence



s i t e

context.

location:

- Indiana
- Not West Clay
- •Suburban

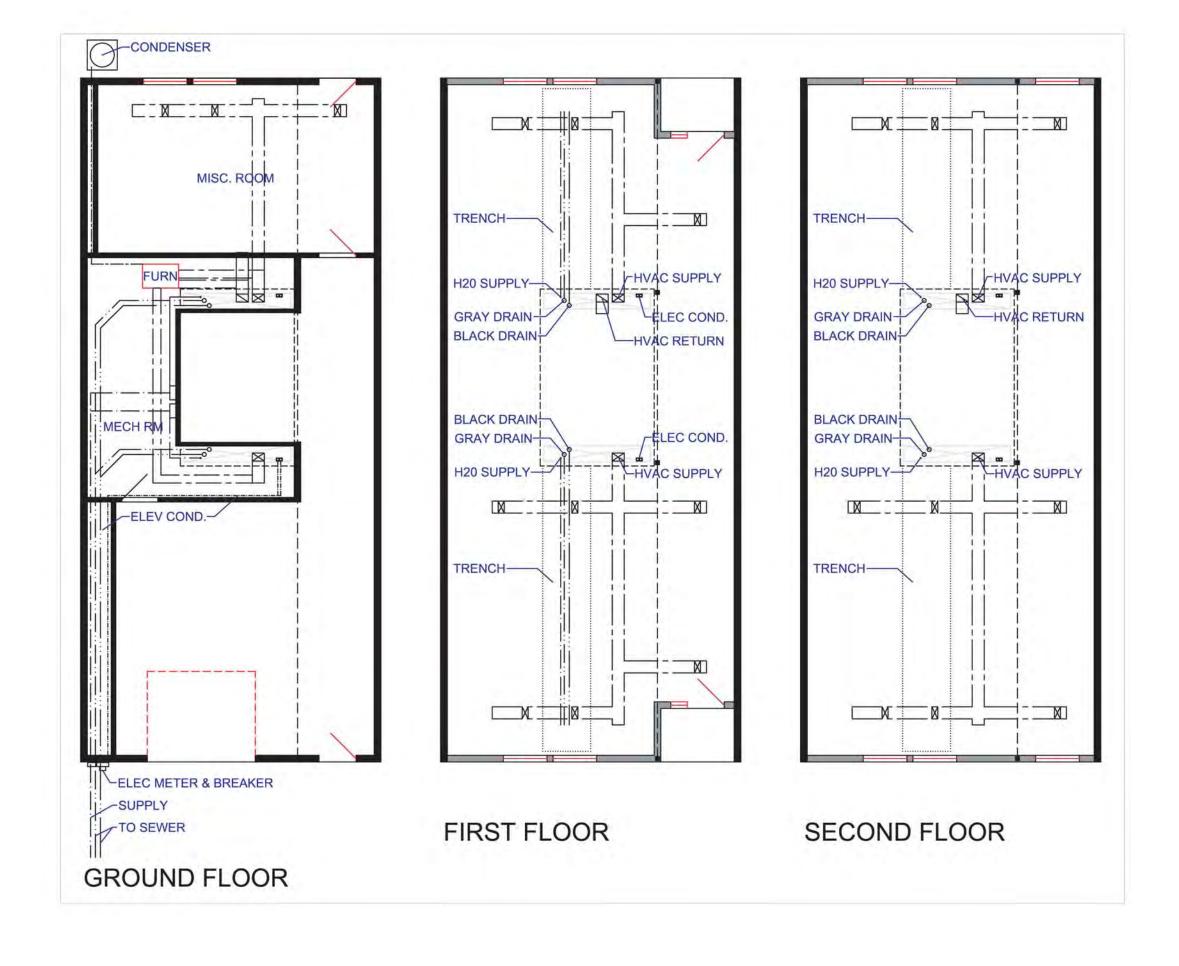
skin/materials:

- Brick, siding (wood or vinyl)
- •Rough openings for windows & doors

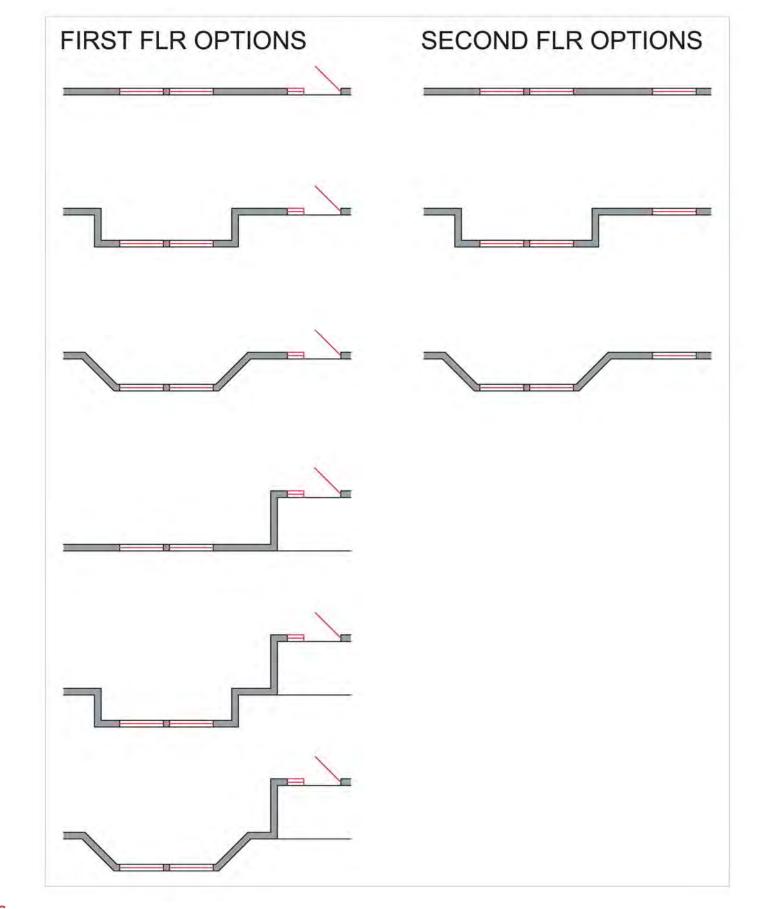
assumptions:

- •Every unit has basement
- •Facade wall selectable

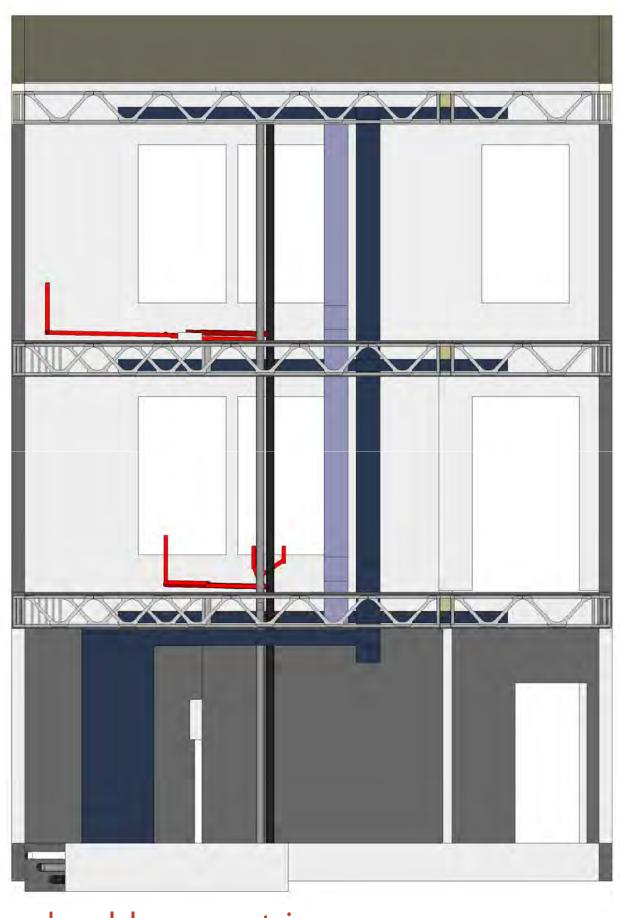


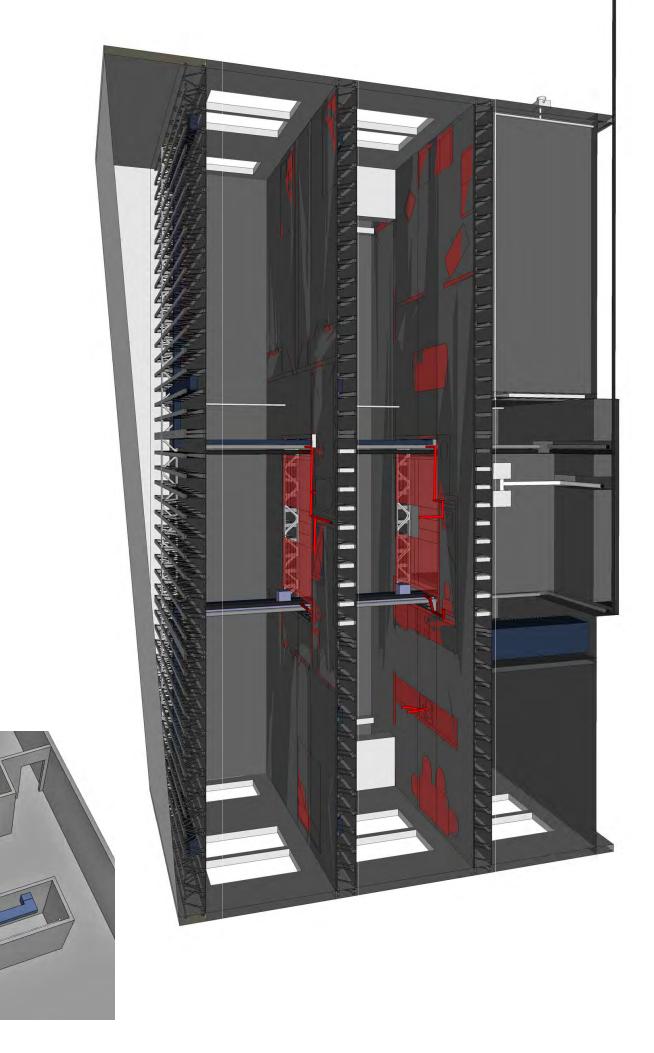


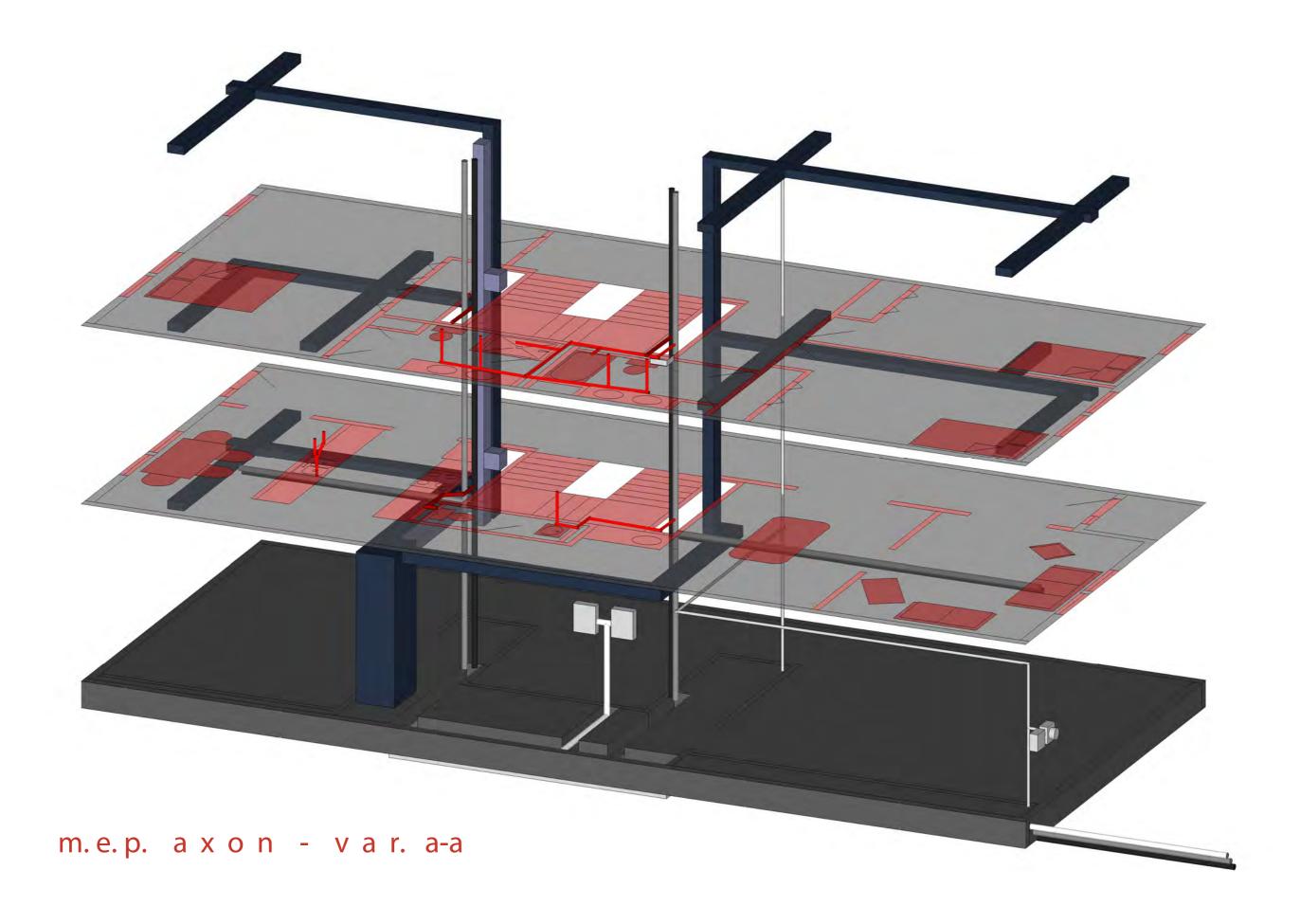


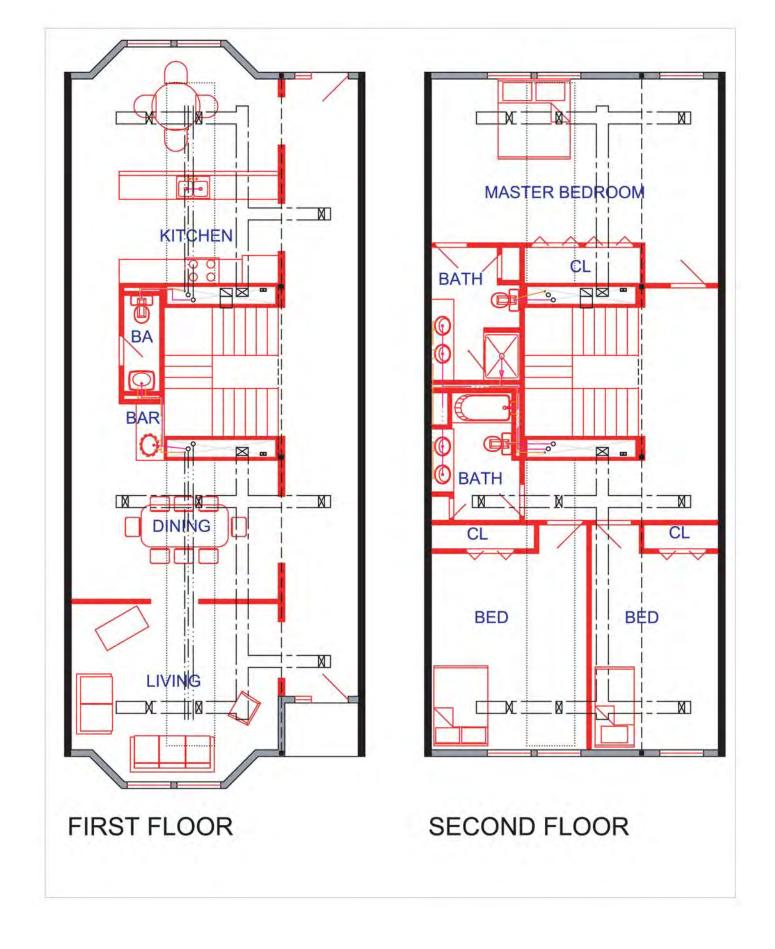


facade options scale: 1/8" = 1'-0"

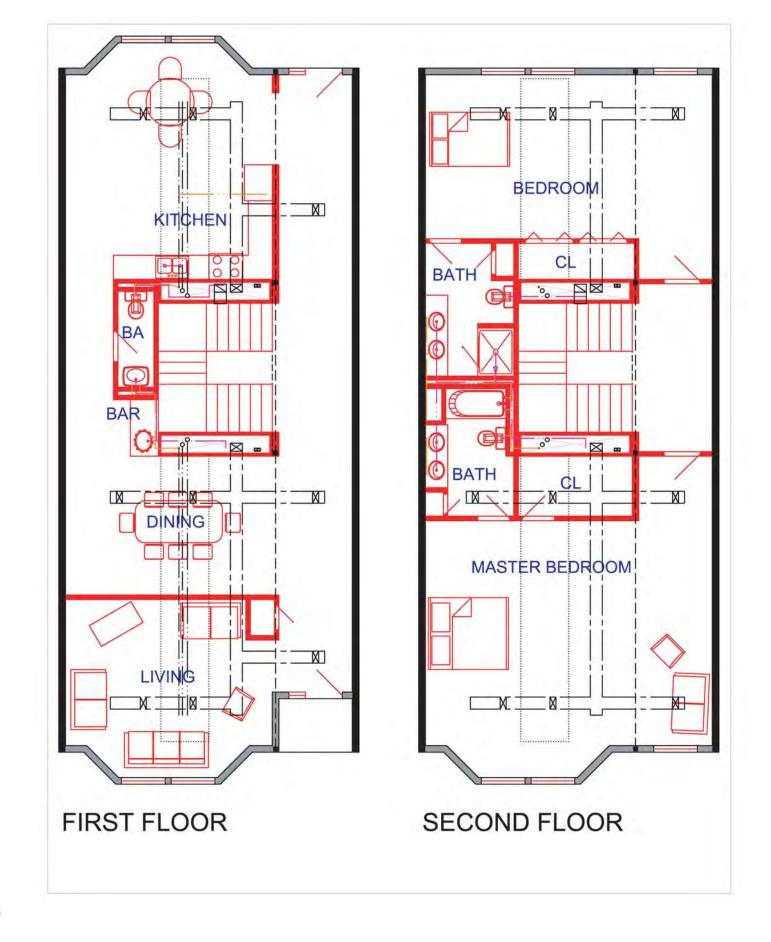




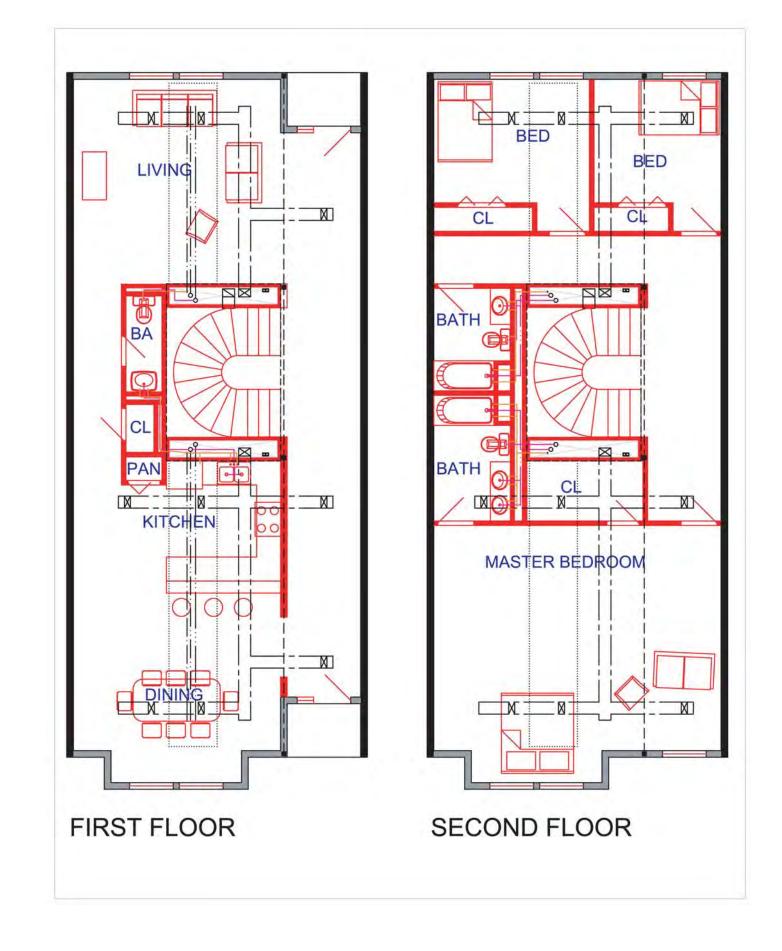




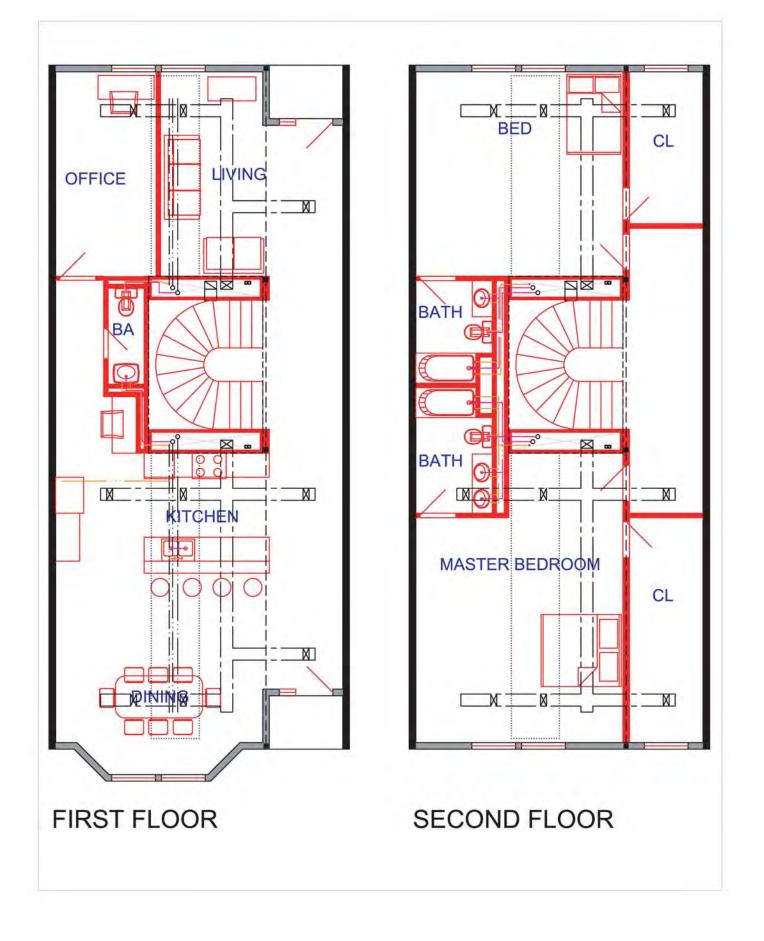
v a r i a t i o n a-a scale: 1/8" = 1'-0"



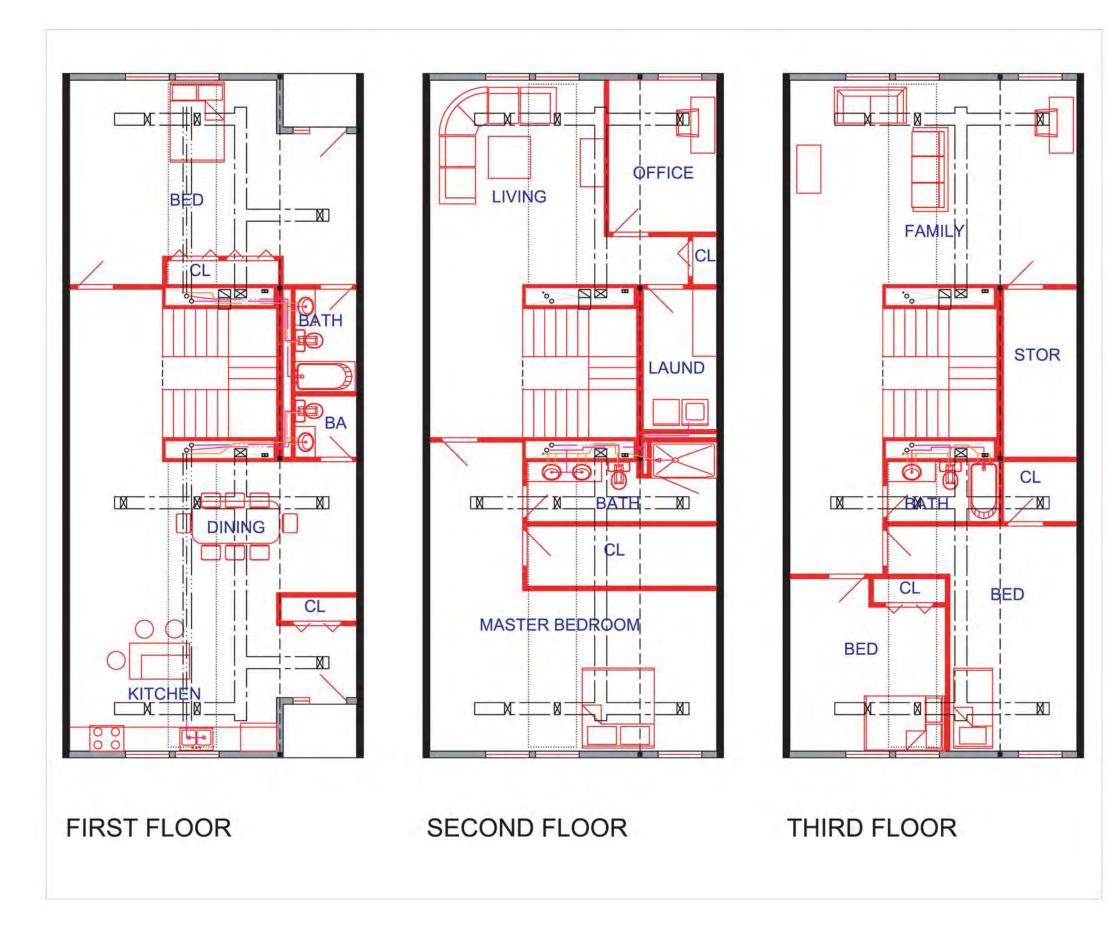
v a r i a t i o n a-b scale: 1/8" = 1'-0"



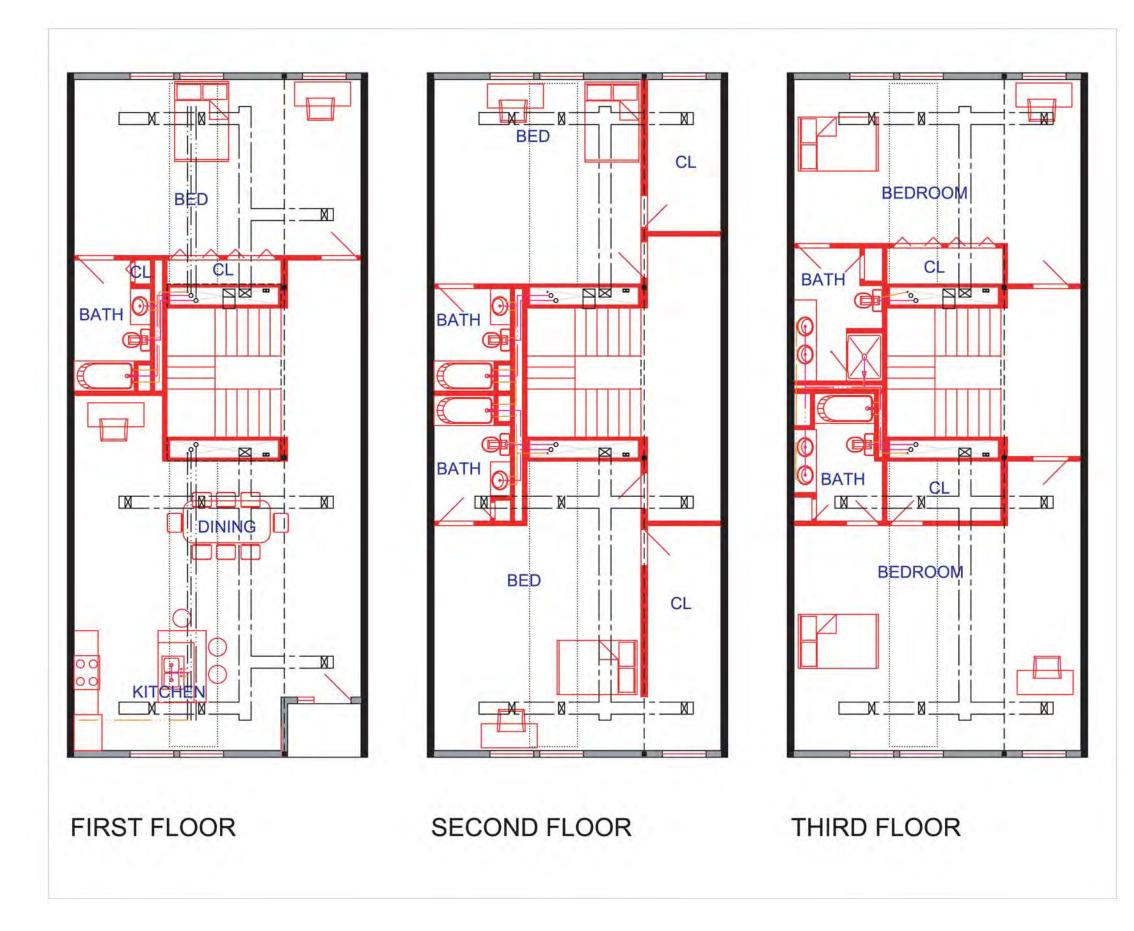
v a r i a t i o n b-a scale: 1/8" = 1'-0"



variation b-b scale: 1/8" = 1'-0"



variation c scale: 1/8" = 1'-0"



v a r i a t i o n d scale: 1/8" = 1'-0"



This modern townhouse development is located in Denver, Colorado. The modern look of the townhouse was a nice contrast to what we observed at the Village of WestClay.



This townhouse is located in Longmont, Colorado and was a merit award winner for its design. The architecture firm, Studio Completiva, designed the townhouses which featured two and three story townhouses.

An example of a modern townhouse row that does not feature much variation from house to house. The project is located near Washington D.C. in a suburb called Clifton.



A great example of a modern townhouse in Chicago, Illinois.

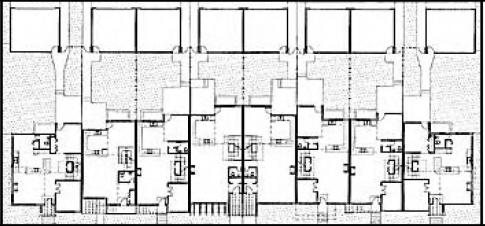






I found the products from the wiremold company to be reason to attempt to develop a better way of concealing the wires in the wall. Which was the inspiration for creating the cavity in the bottom of the stud walls to run the wiring.

This is the site plan for the townhouses located in Longmont, Colorado. The offsetting of the floor plans created a more dynamic facade, as you can see in the photo in the top right.



precedent studies.
both good and bad

shell concept.

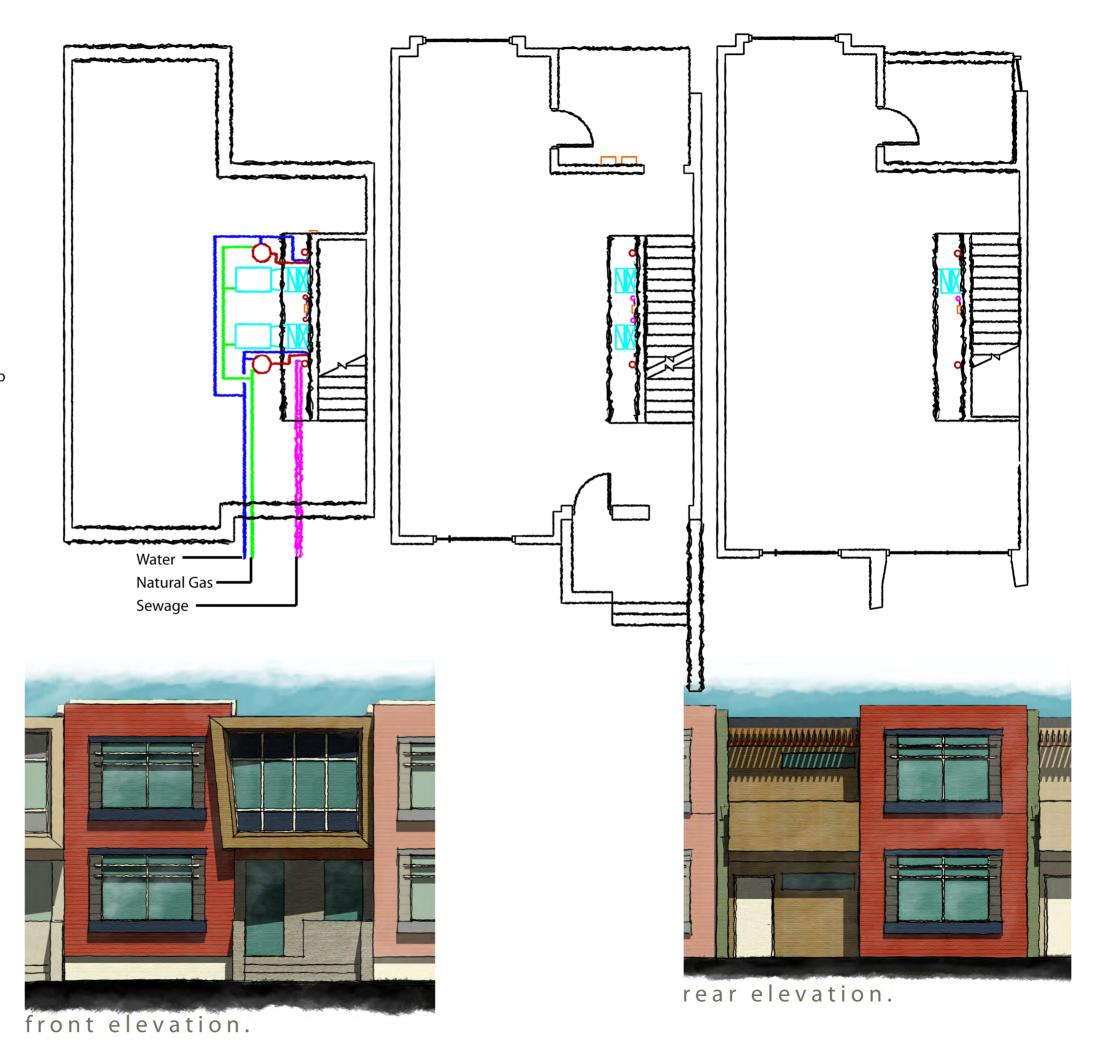
flexible ocupancy:

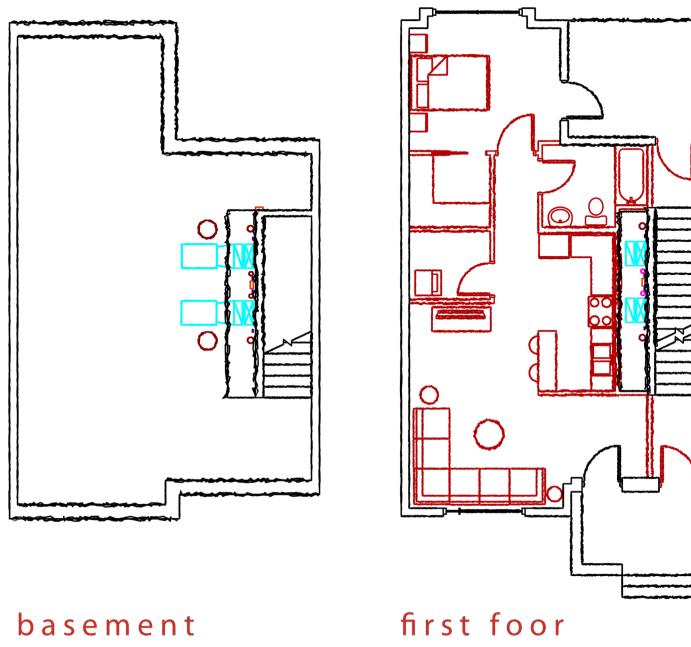
Main concept was to create a shell that would be able to allow either one ocupant to live in the entire townhouse or allow for the upstair and downstairs to be occupied by differant users. This will allow the developer to build a large number of shells and then decide what type of units need to be built to meet market demand.

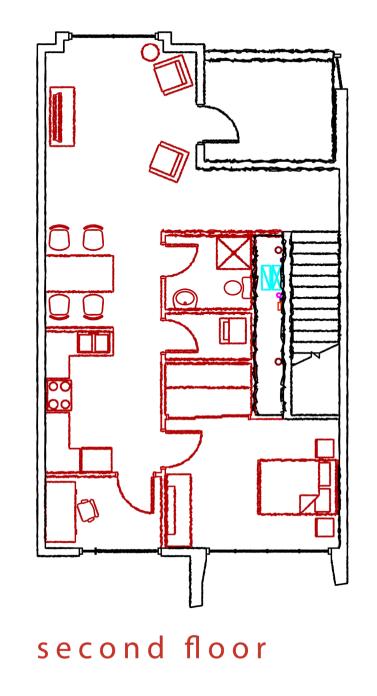
shell materials:

The exterior skin is composed of rust colored metal panels and also features wood banding on the back porch.

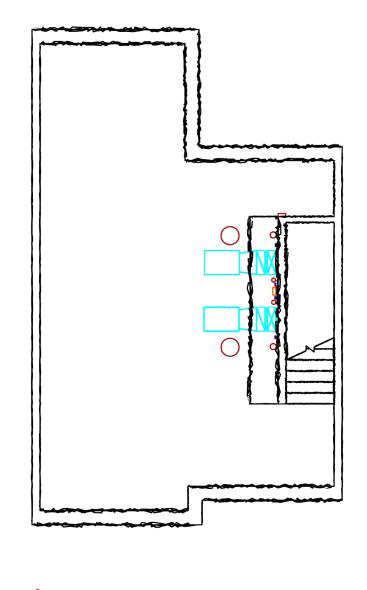
shell plan



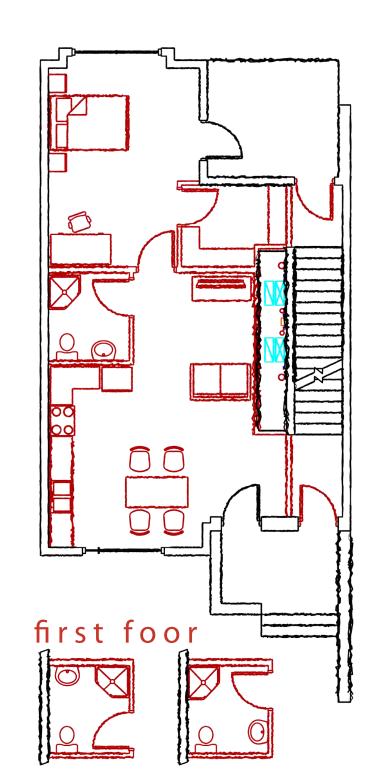




variation one.
2 tenants // studio apartments

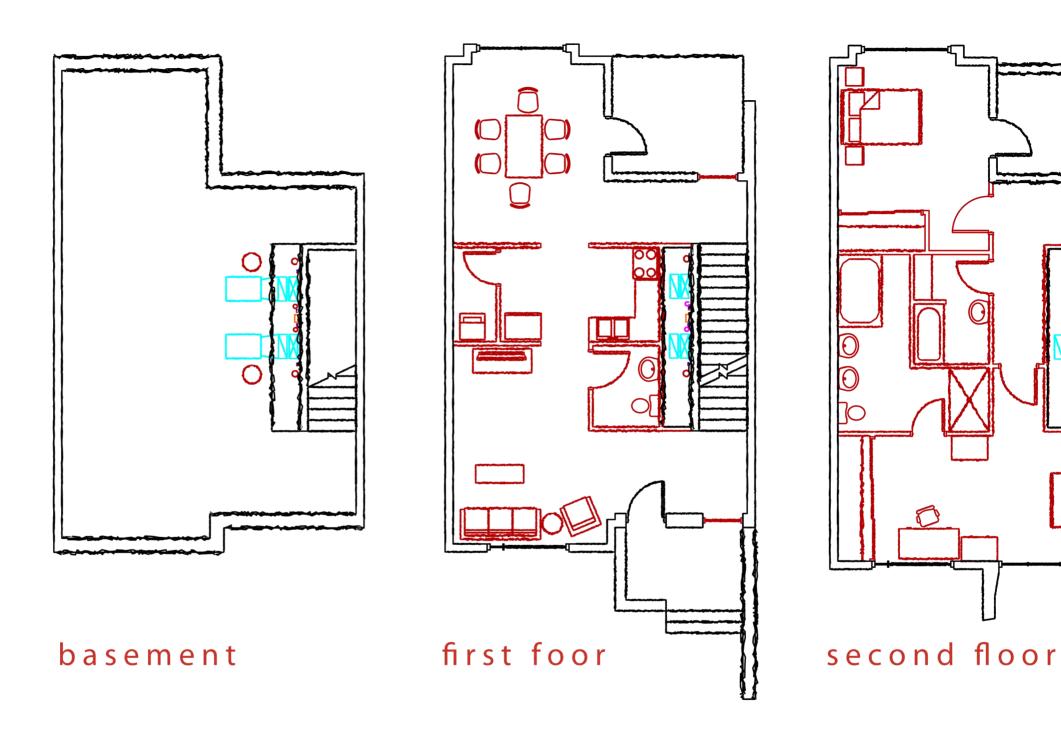


basement

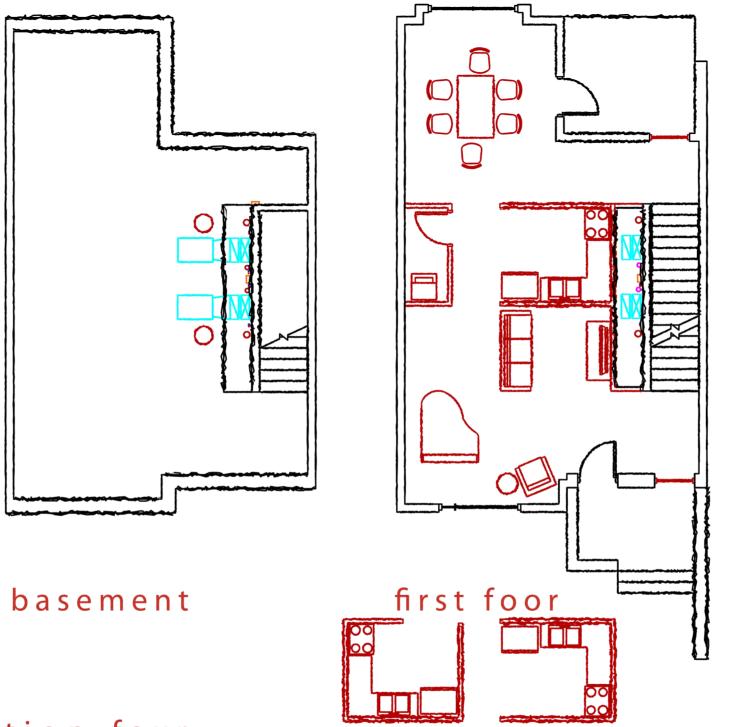


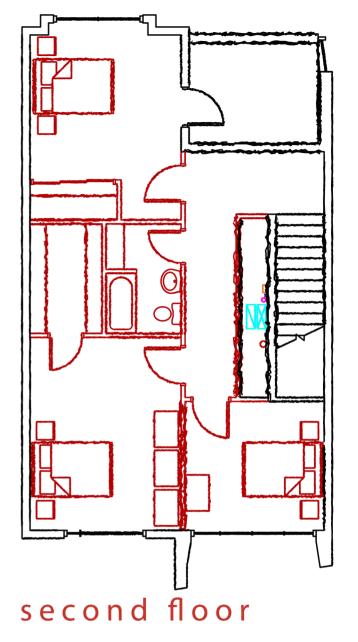
second floor

variation two.
2 tenants // studio apartments

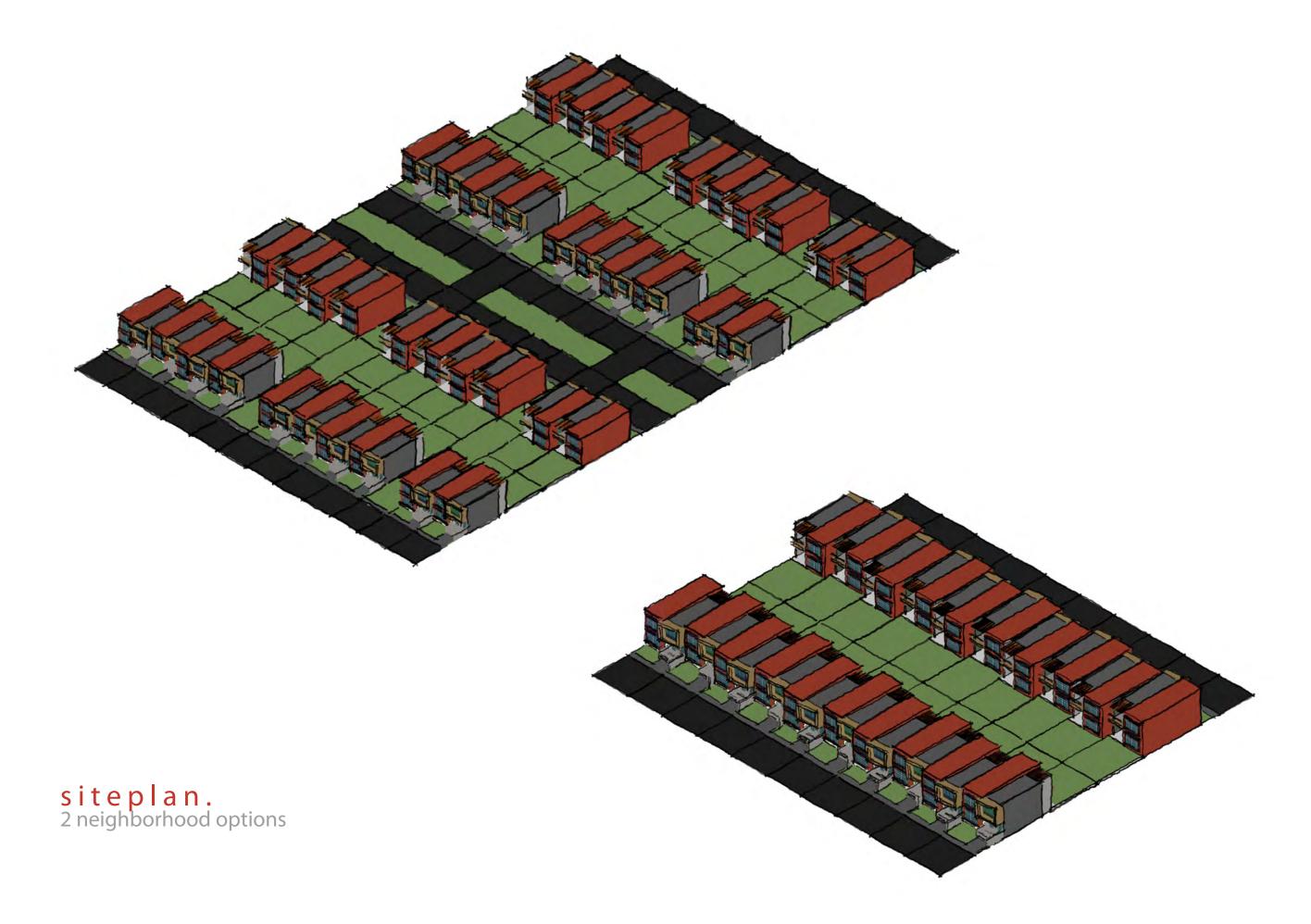


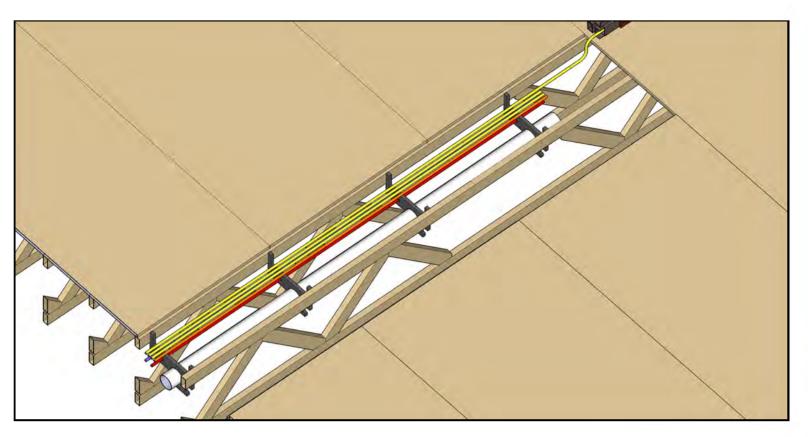
variation three.
1 tenant // 2 bedrooms

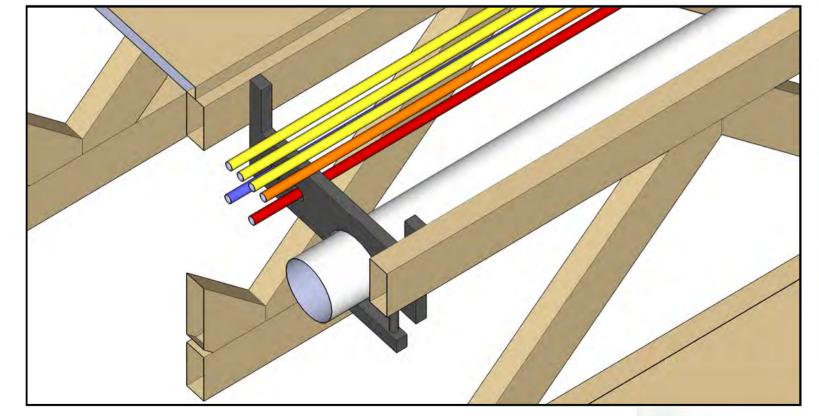


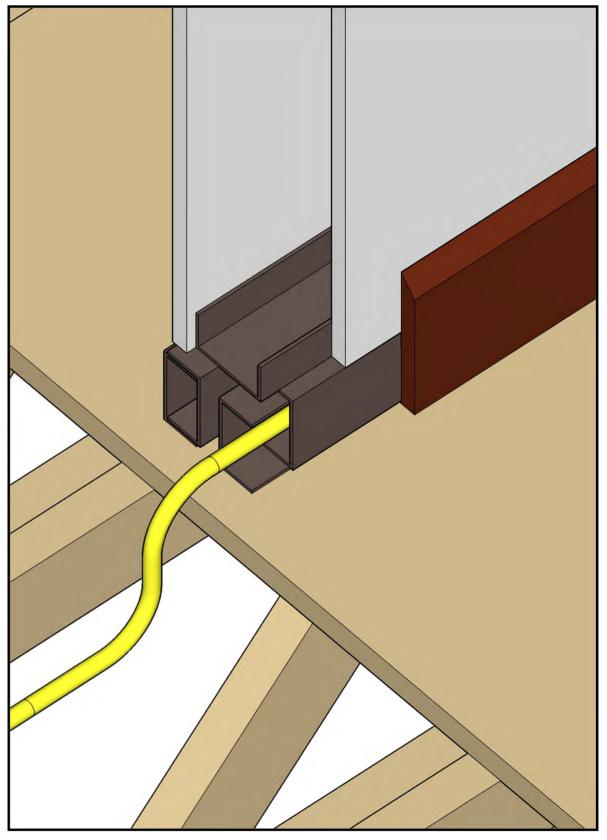


variation four.
1 tenant // 3 bedrooms

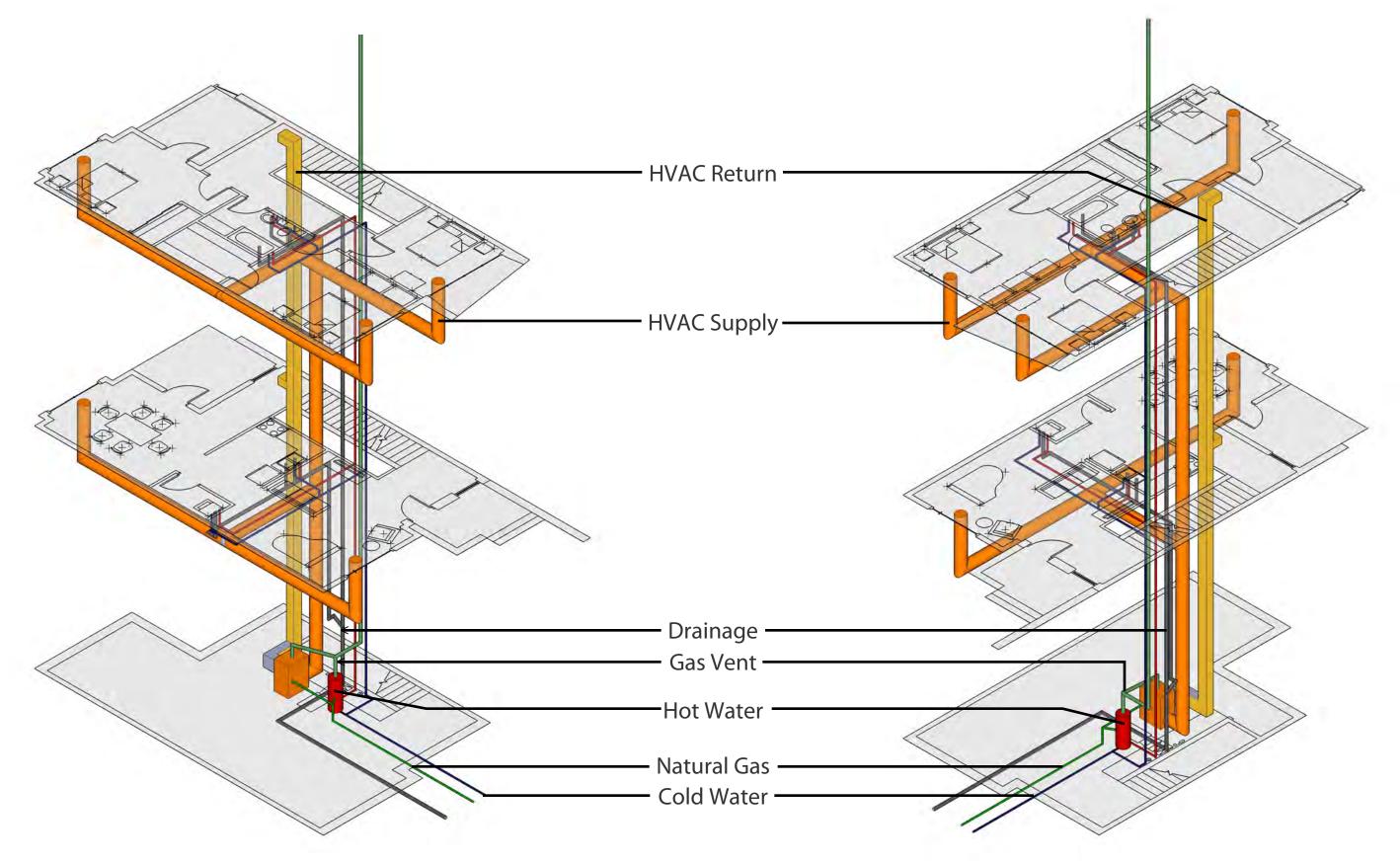








systems details.



MEP Schematic Axon. 1 tenant // 2 bedroom

HOME WORKS STUDIO KENDALL DESMIT February 16, 2007

shell.

exterior

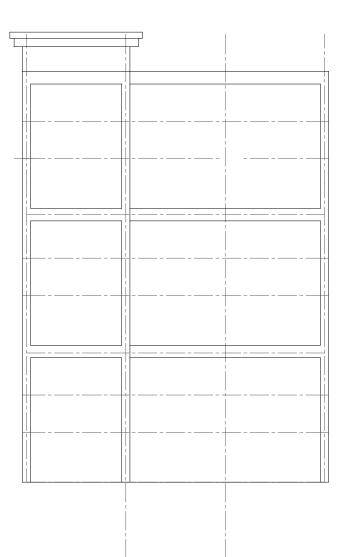
the exterior of the shell is a simple layout with six bays in which the panals are placed. eleven foot floor to floor heights provide plenty of room for deep floor caviites in which to place HVAC and other utilities.

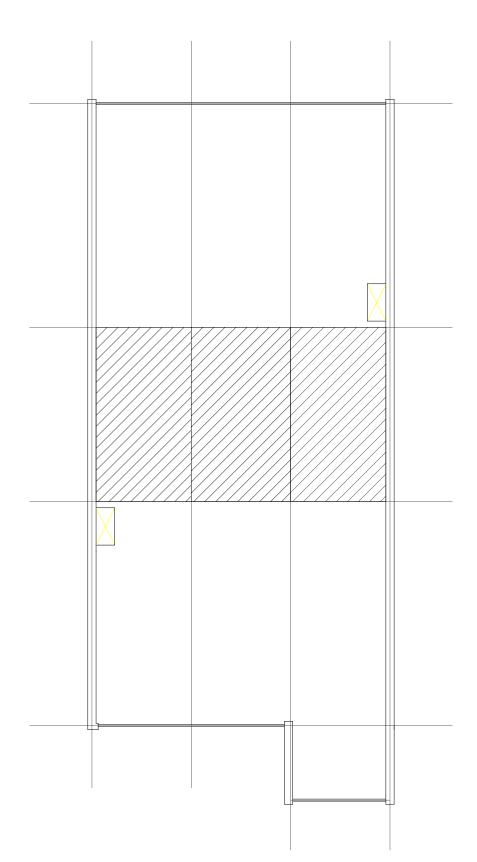
floorplan

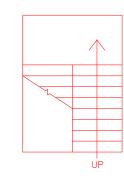
the floor plate it divided into three bays both horizontally and vertically and has two mechanical chases in which all the HVAC, electrical, and data are run from floor to floor.

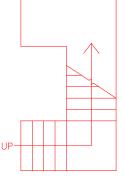
vertical circulation

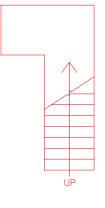
with a consistant size opening for the stairs there are a varity of options. each of the four options can be placed in any of the three places.

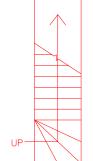








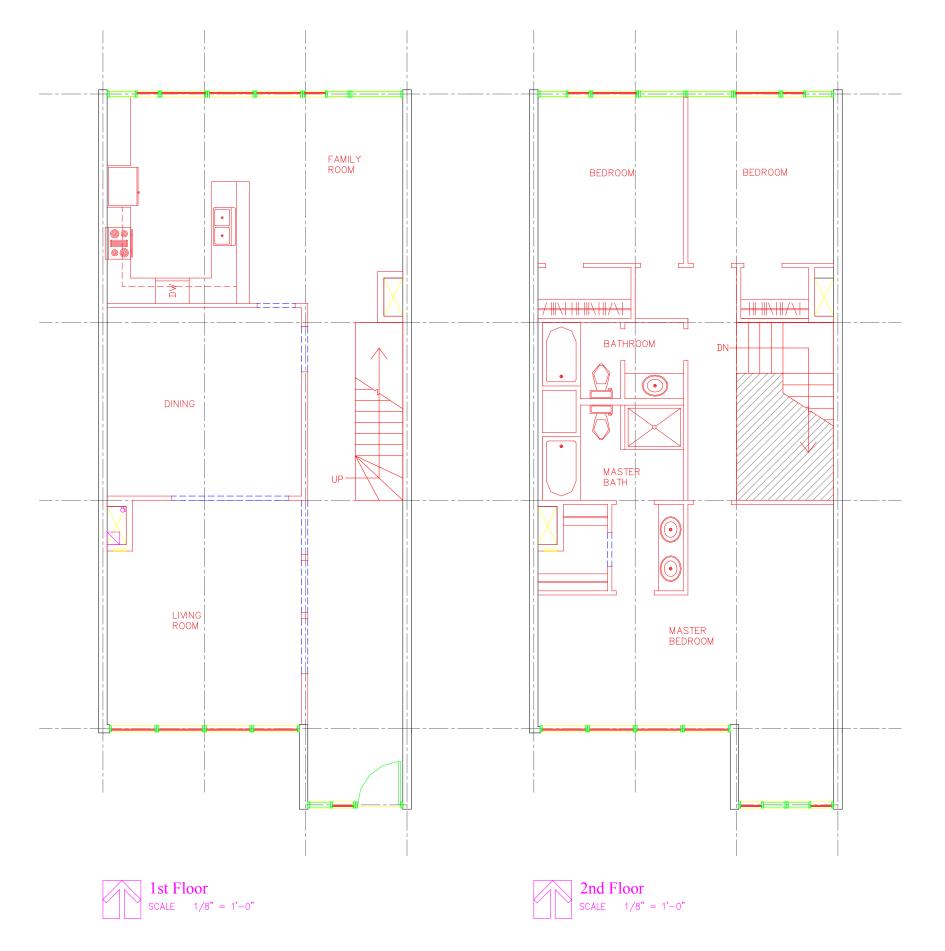




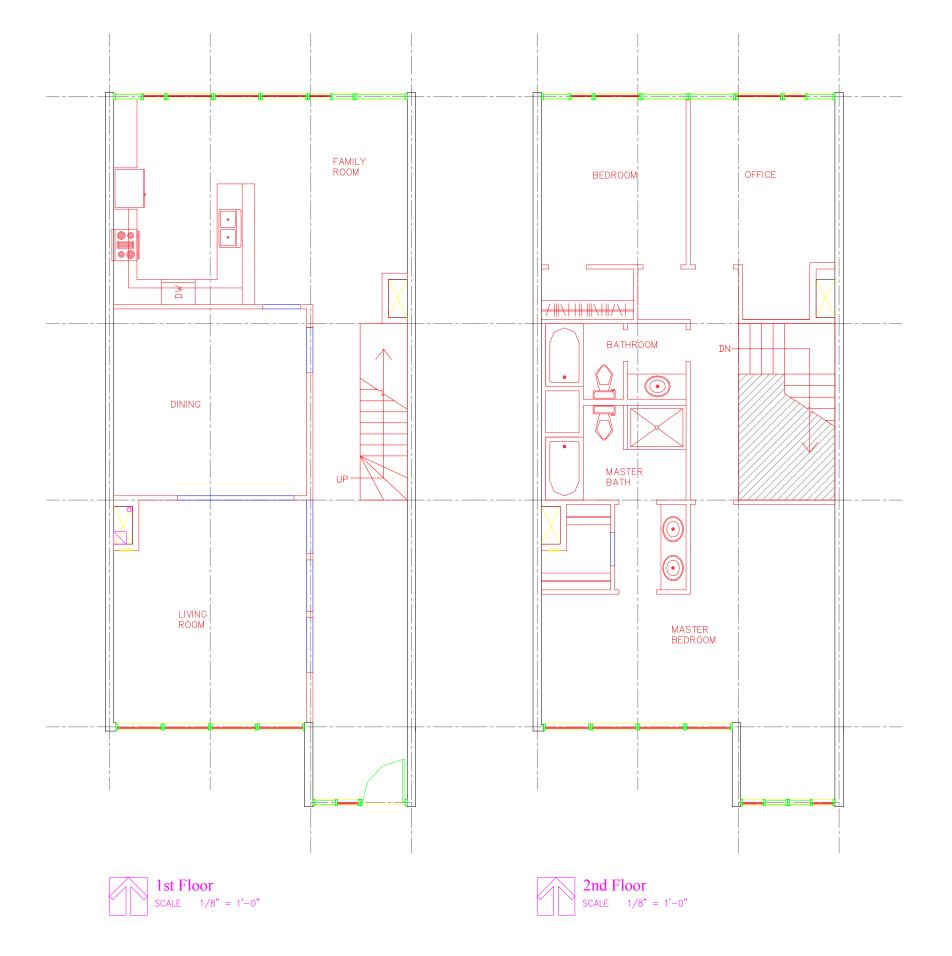
Base Building



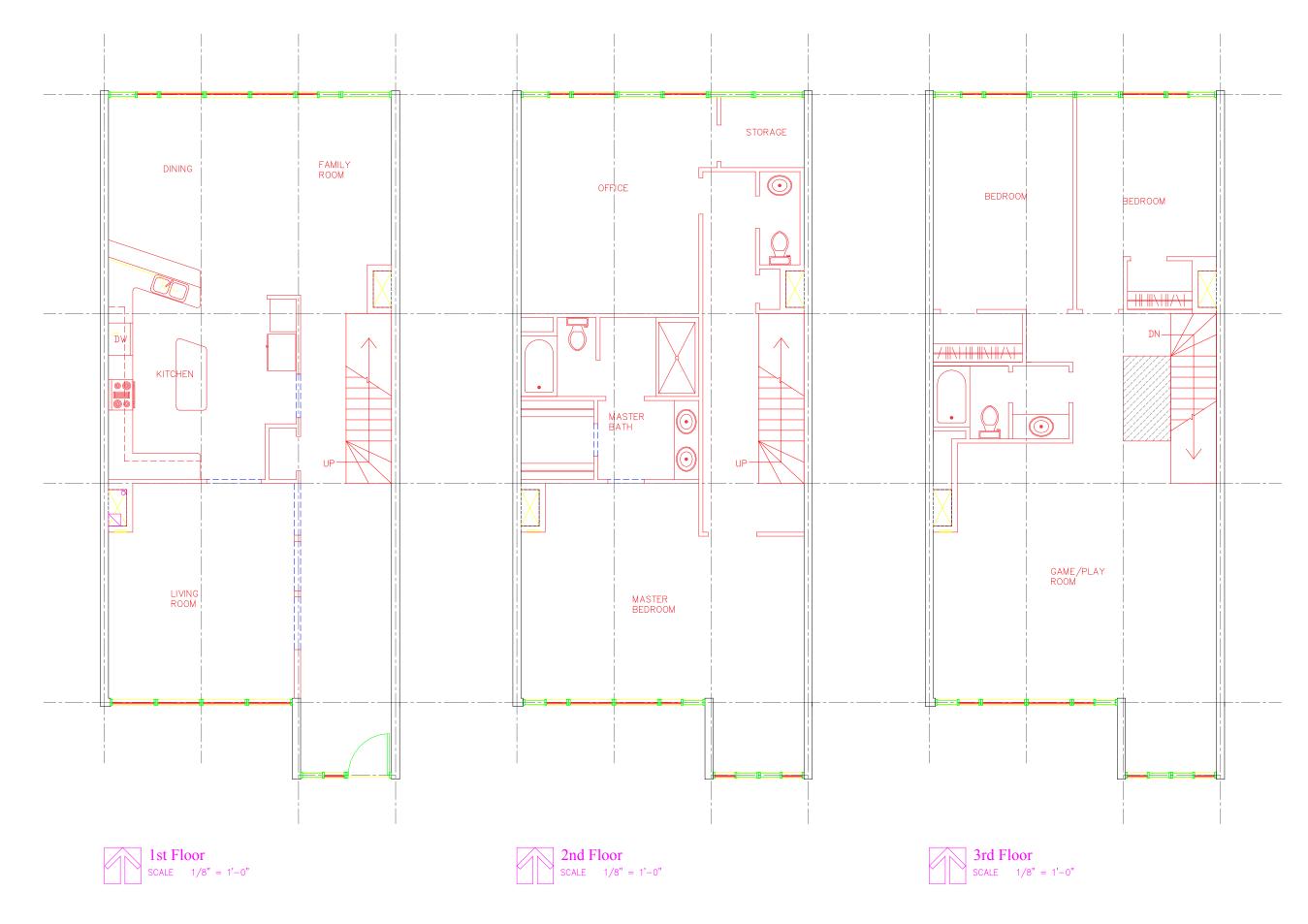
Two Story Option One.
1/8" = 1'



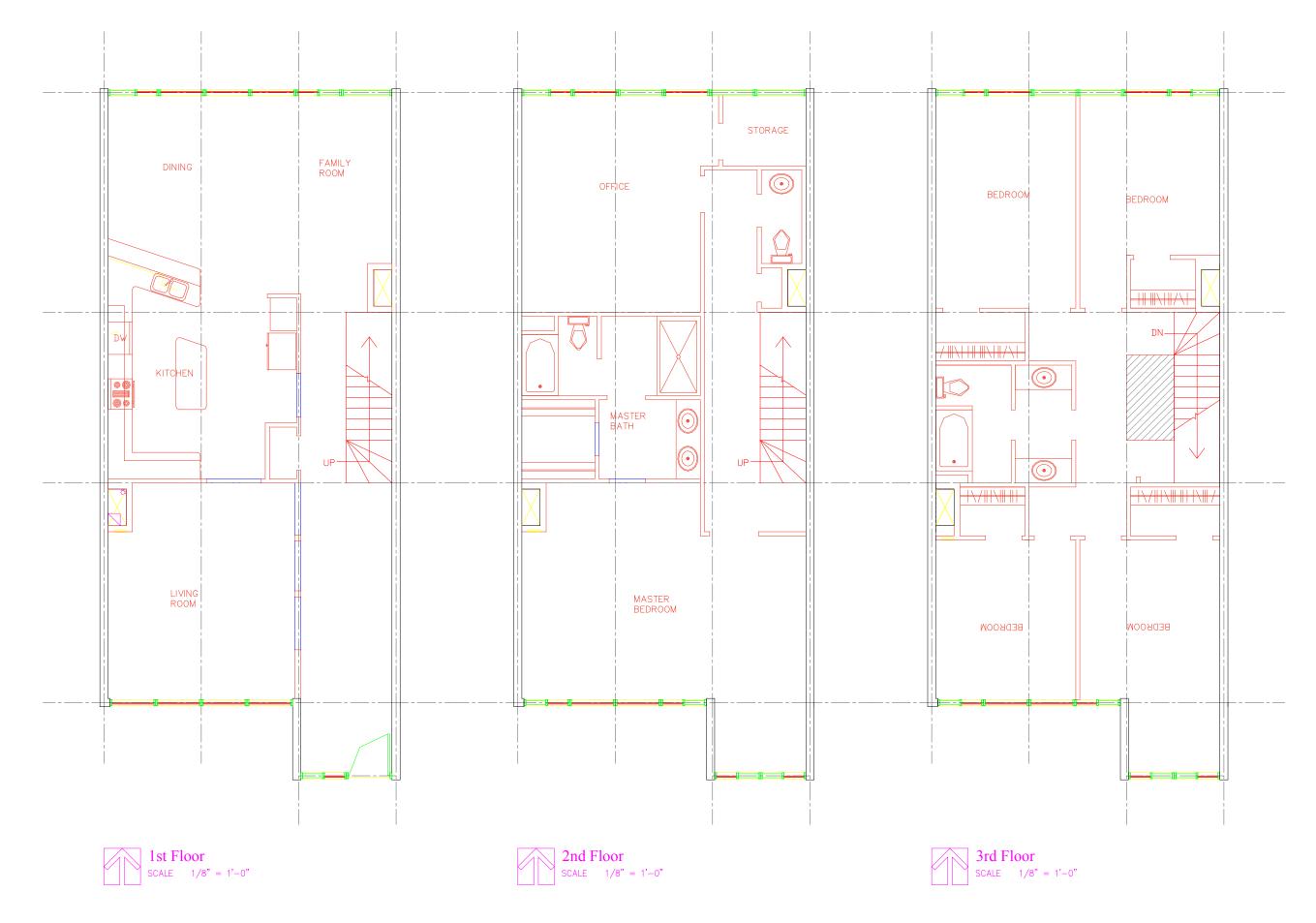
Two Story Option Two.
1/8" = 1'



Two Story Option Two alt. 1/8" = 1'

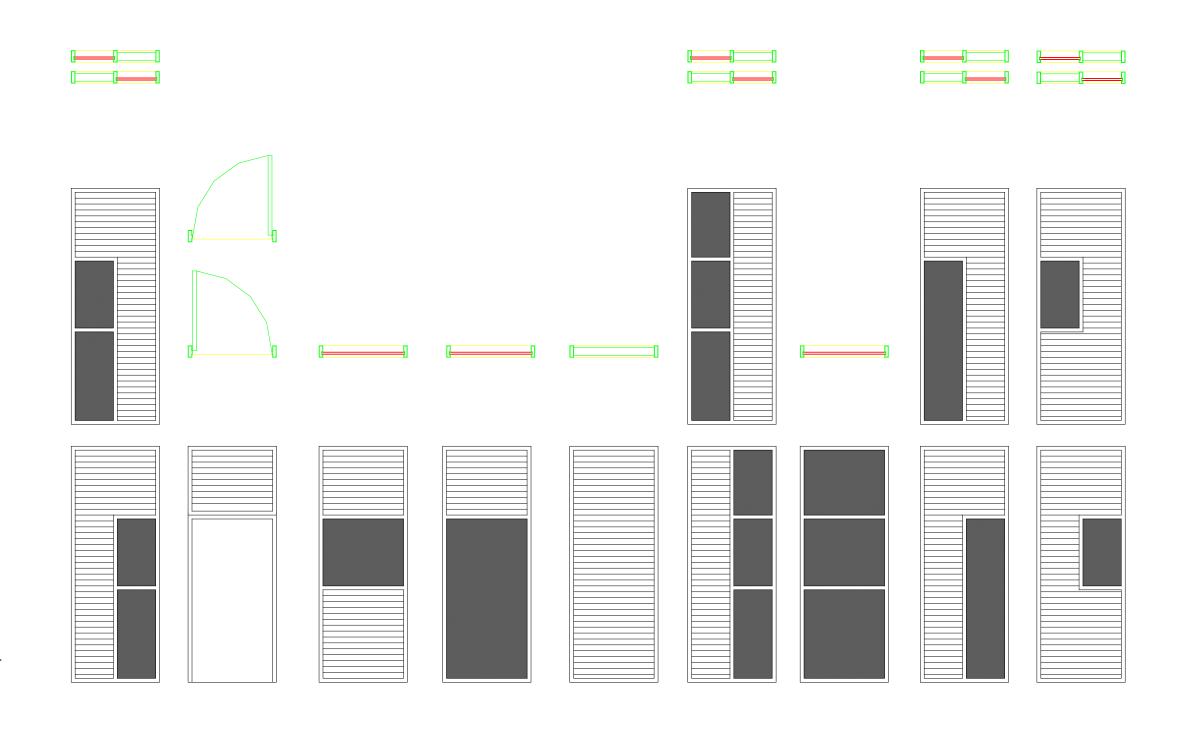


Three Story Option One. 1/8" = 1'



Three Story Option One alt.

1/8" = 1'



panals.

composition.

panals ranging from full height glass to solid panals provide opportunity for a varity of lighting solutions.

Facade Panals

facade. composition.

made from a series of changable panals, the facade is designed to adapt as the interior uses change.

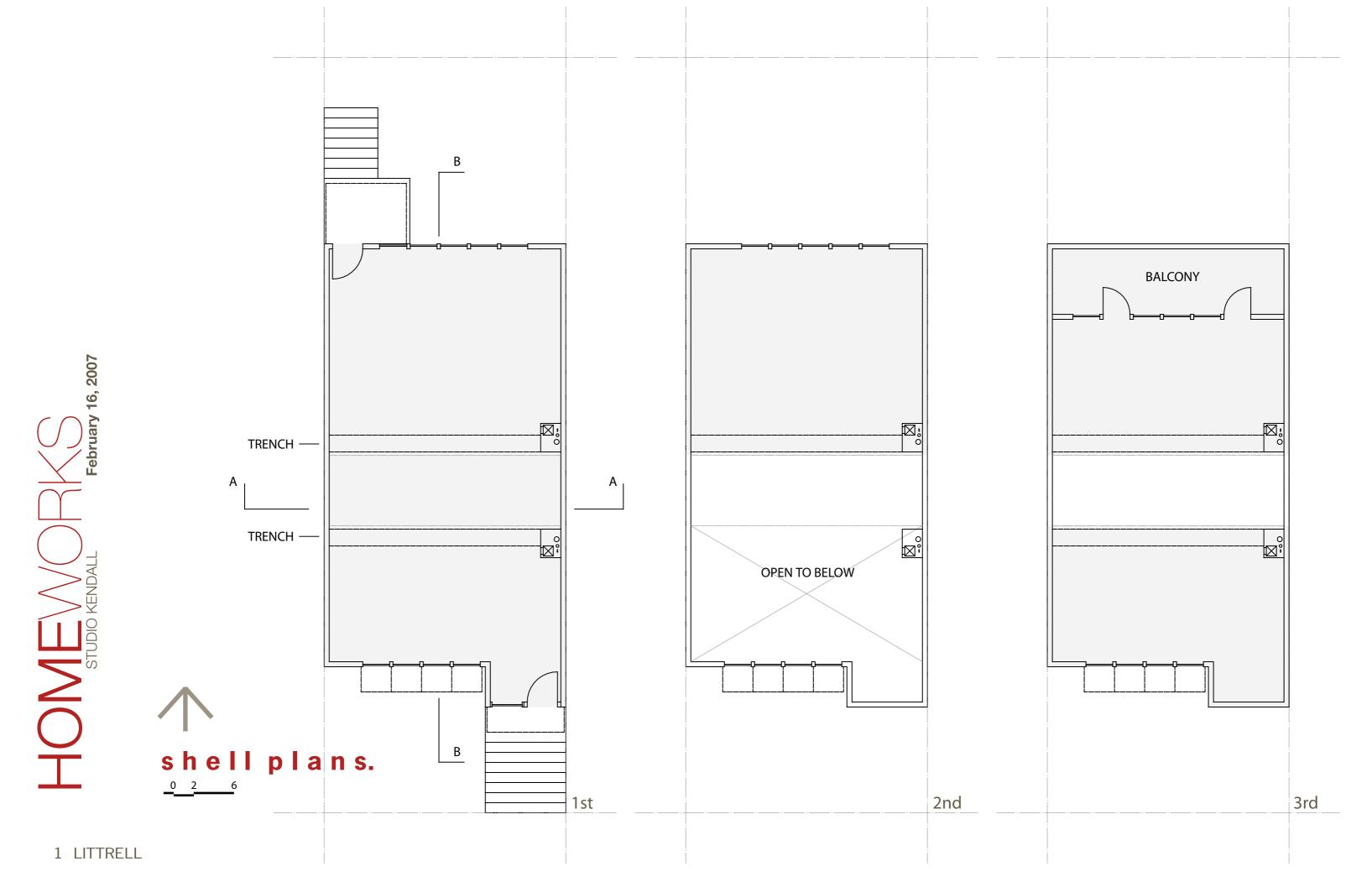
skin/materials.

alumnimun panals with various inserts made up the numerous facade panals; a mix of solid and glass, the panal system provides almost limitless combinations of solid and void to cater to interior rooms.



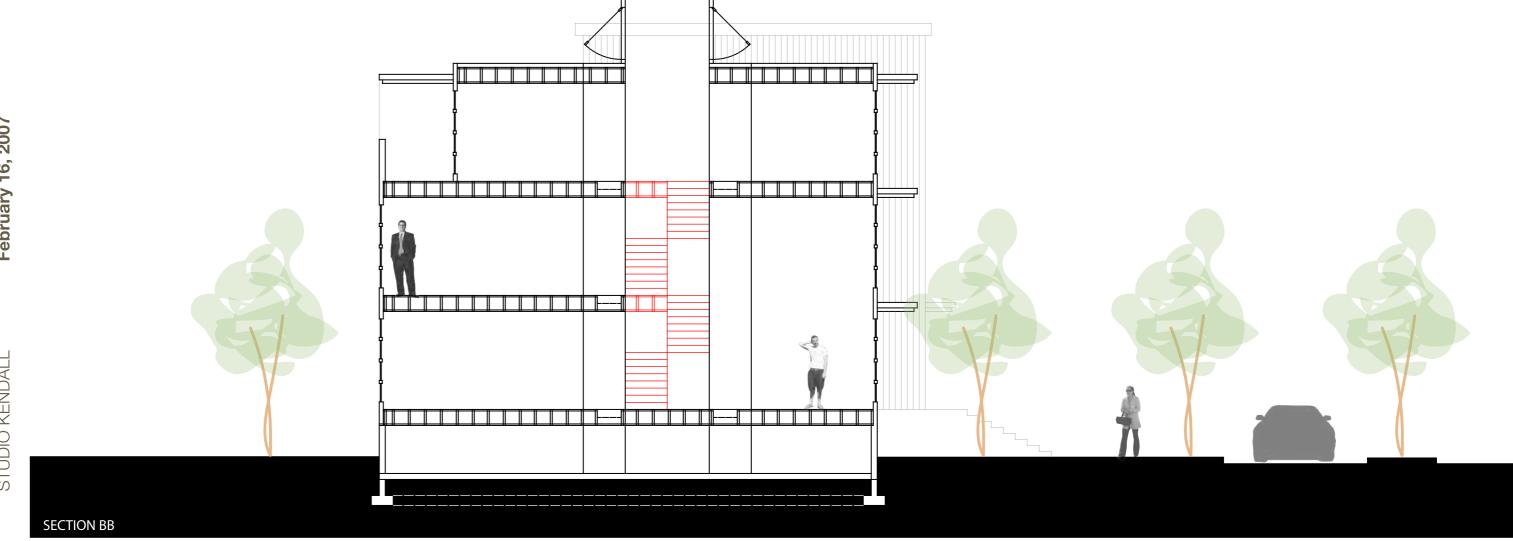
Front Elevation.

1/8'' = 1'



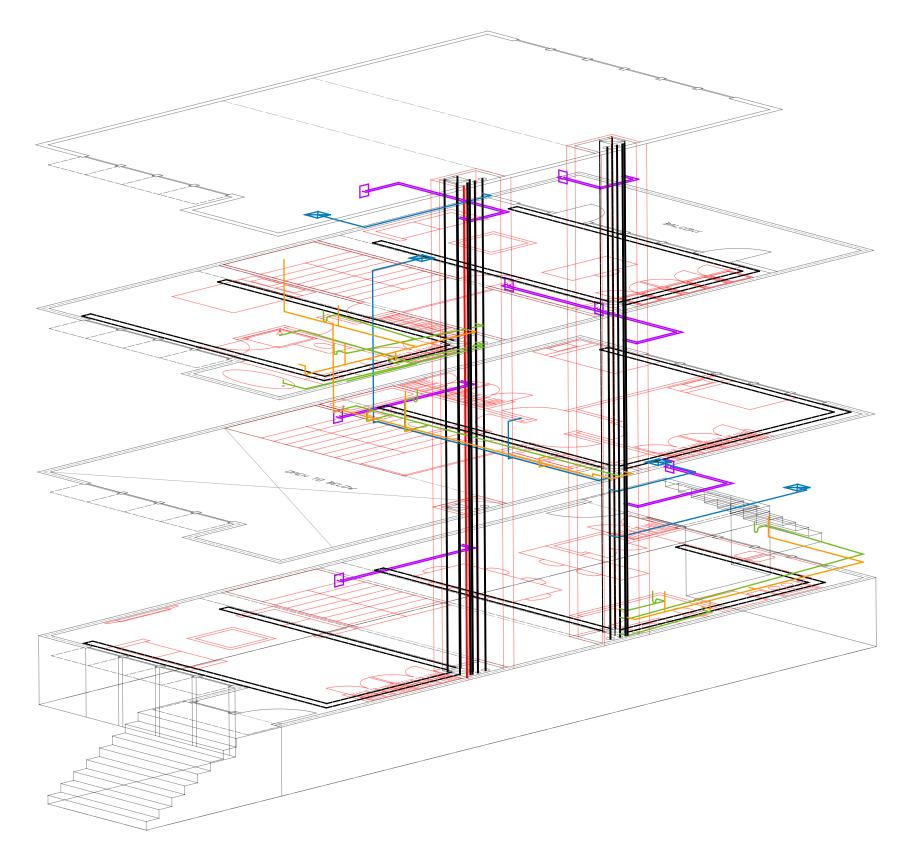






 $\underset{\underline{0} \quad \underline{2} \quad \underline{6}}{\operatorname{section}}$

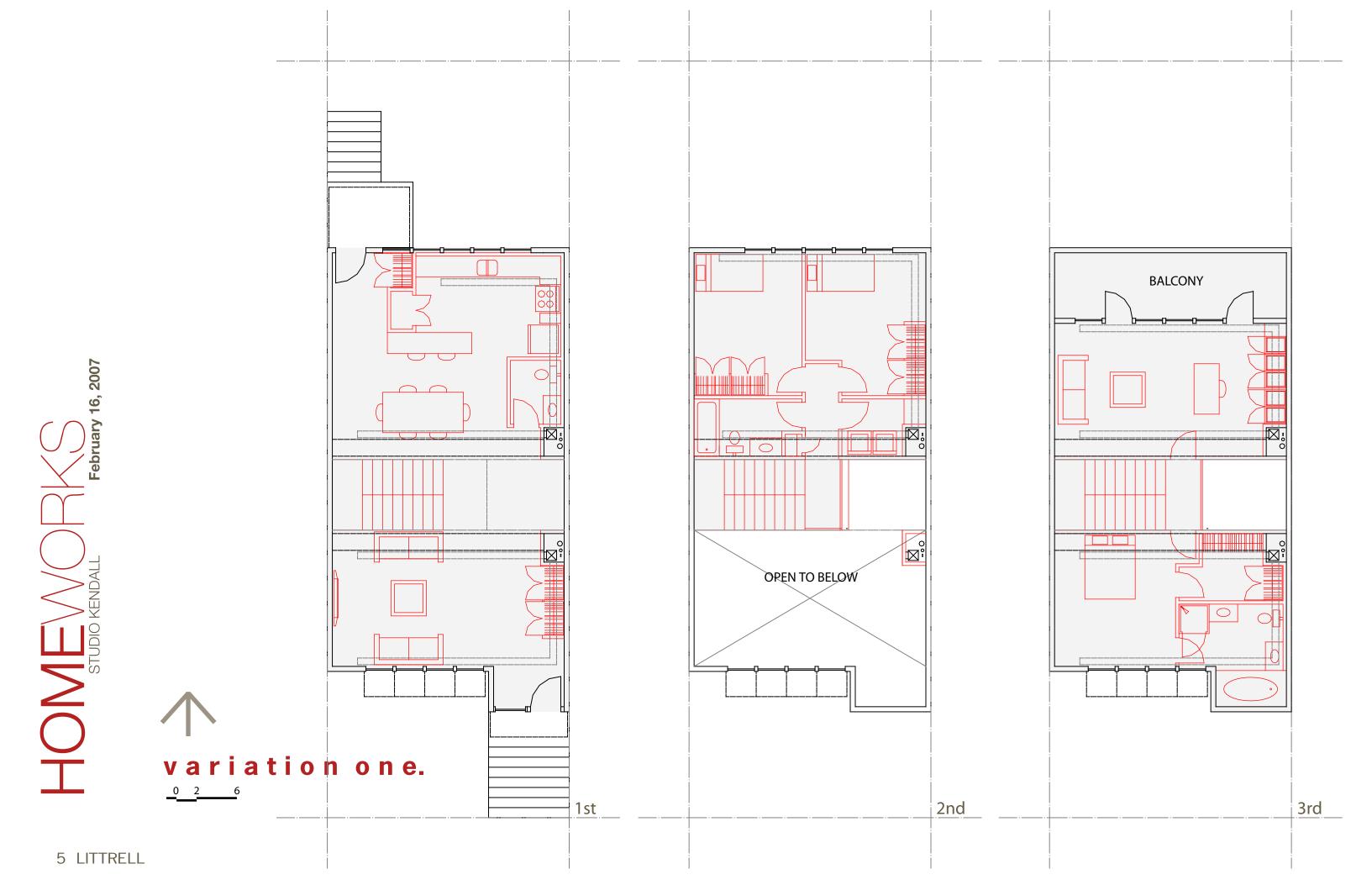


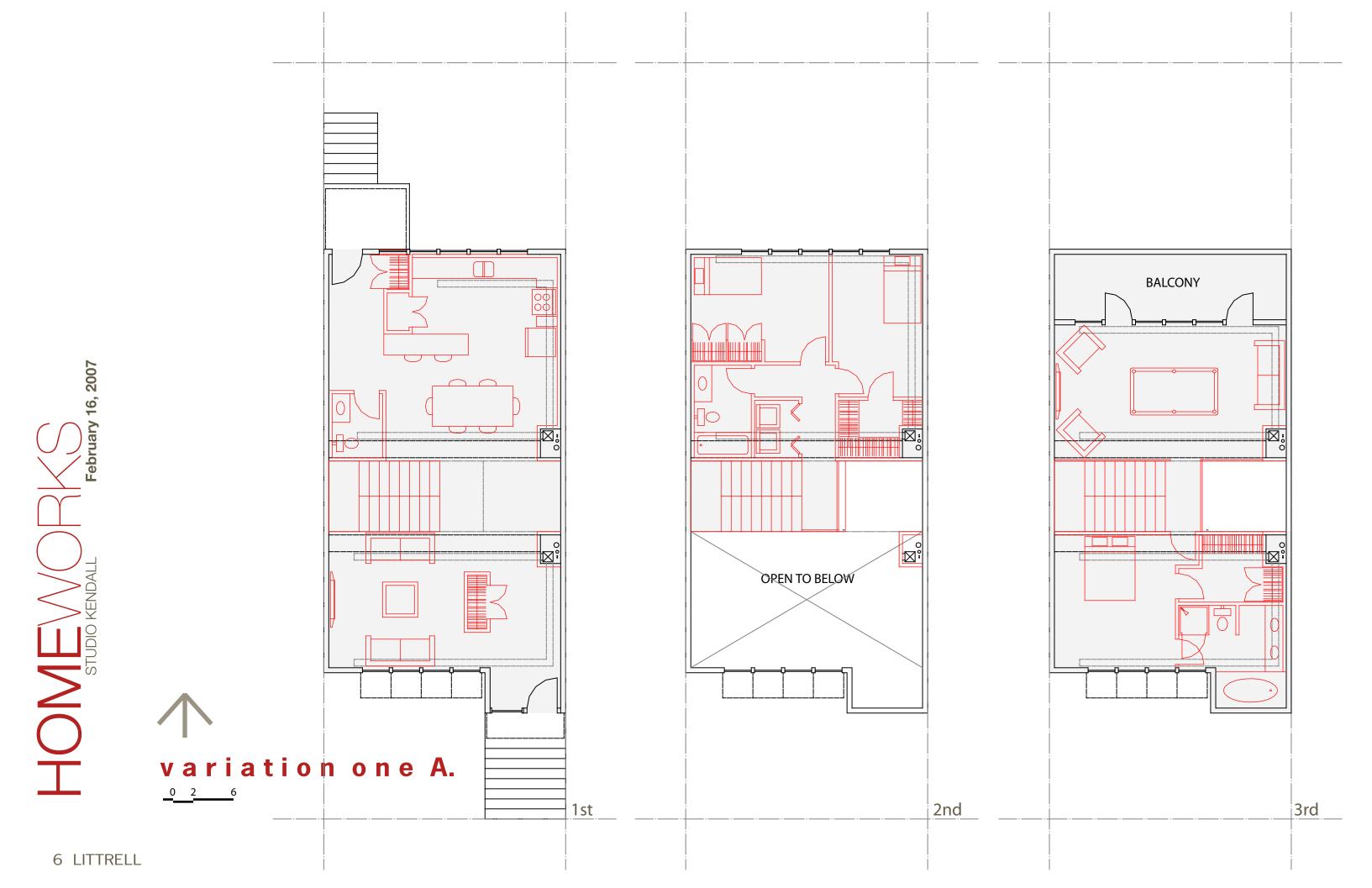


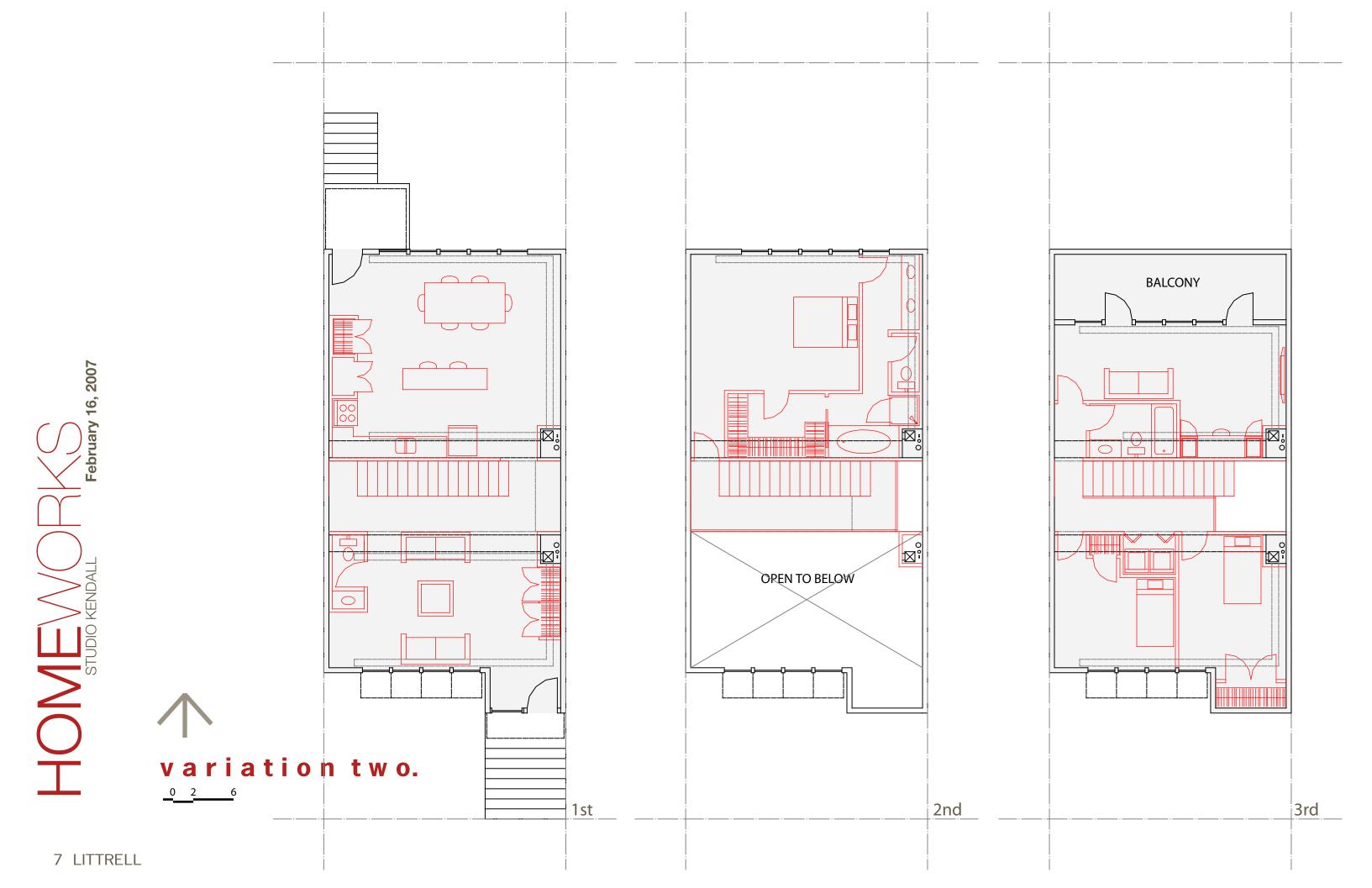
mep system diagrams. variation one

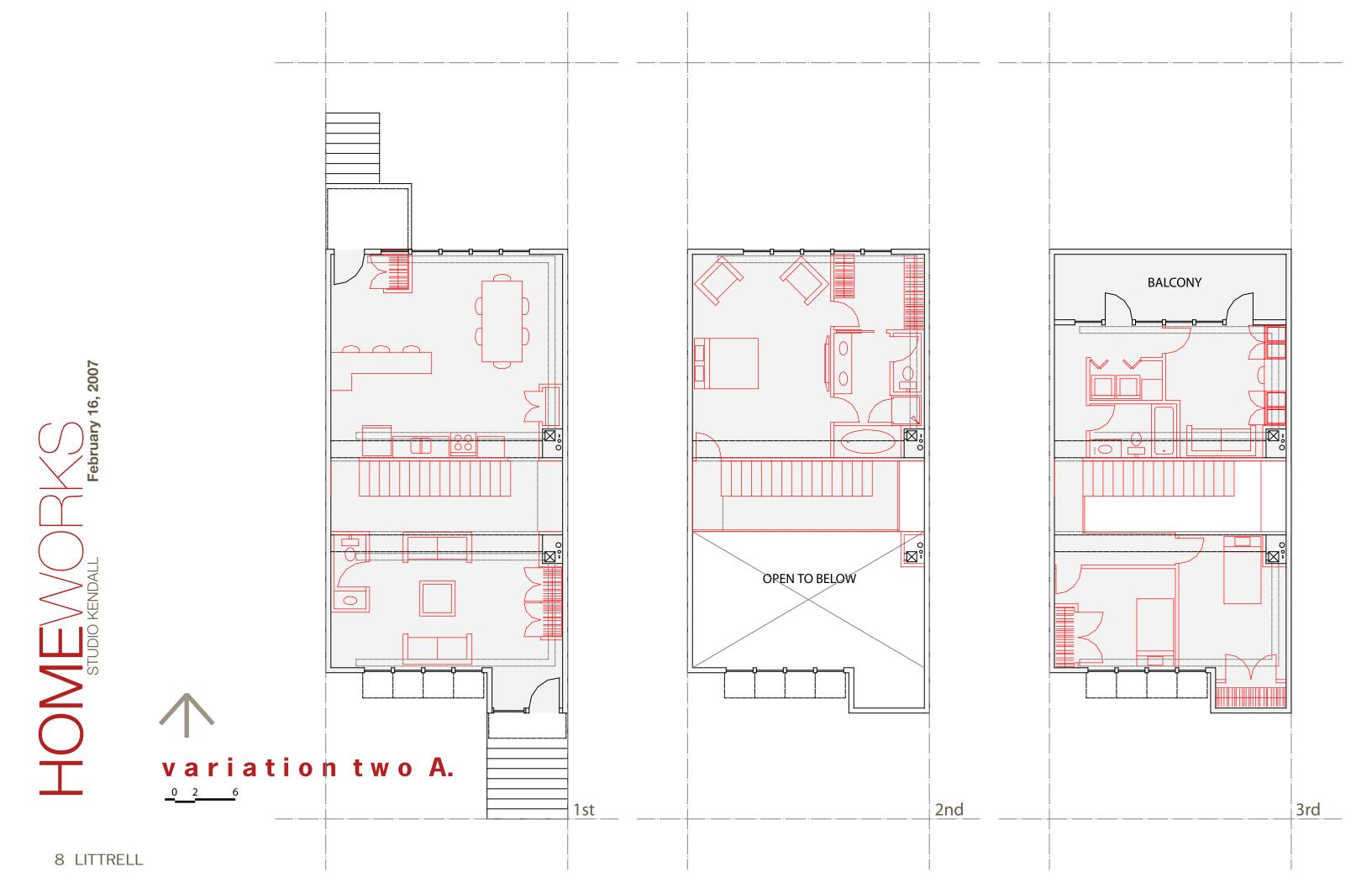
WATER SUPPLY DRAIN VENT AIR SUPPLY AIR RETURN
* Shell only

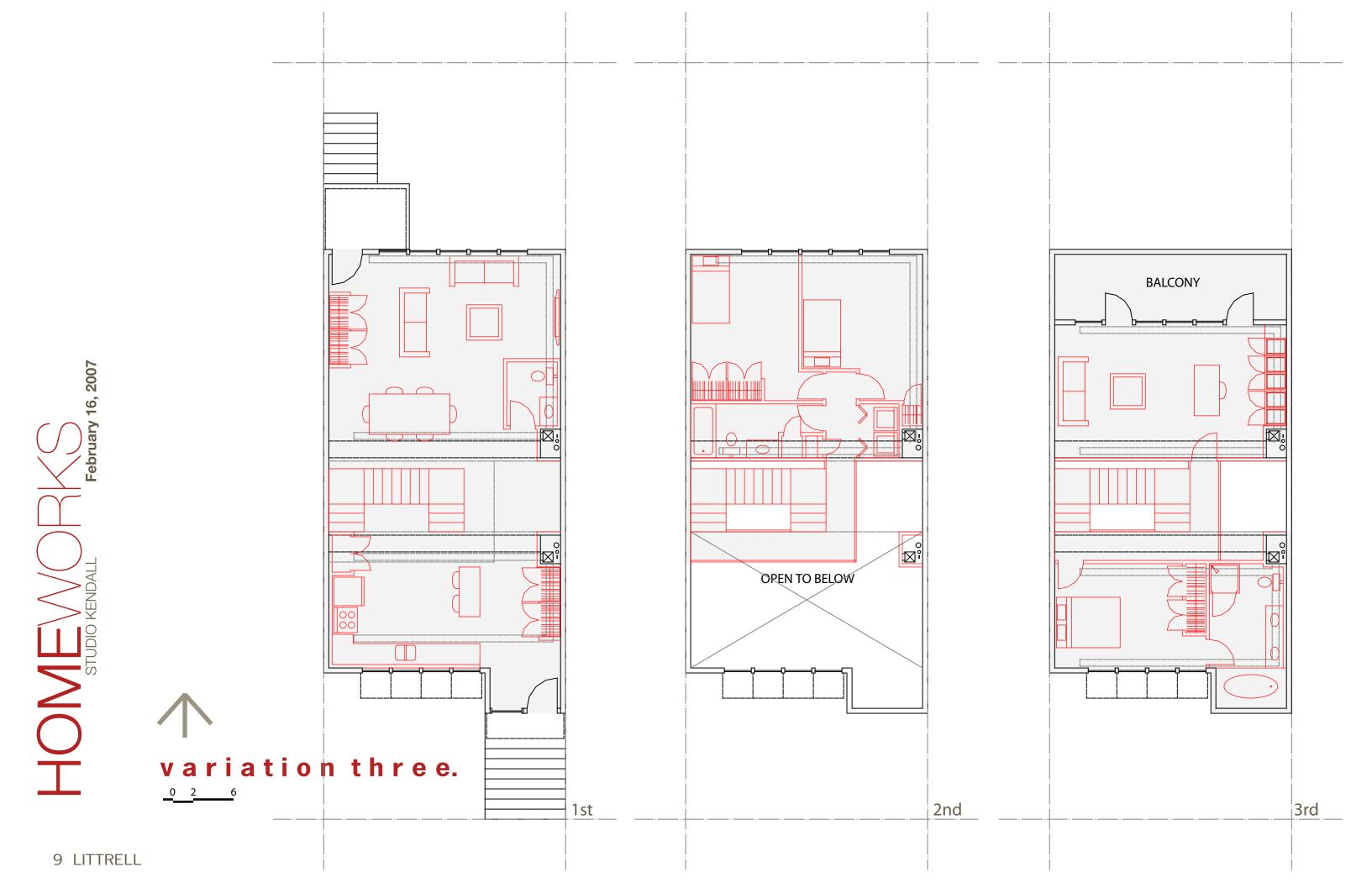
Shell systems are colored black.
Infill systems are color coded as noted above.

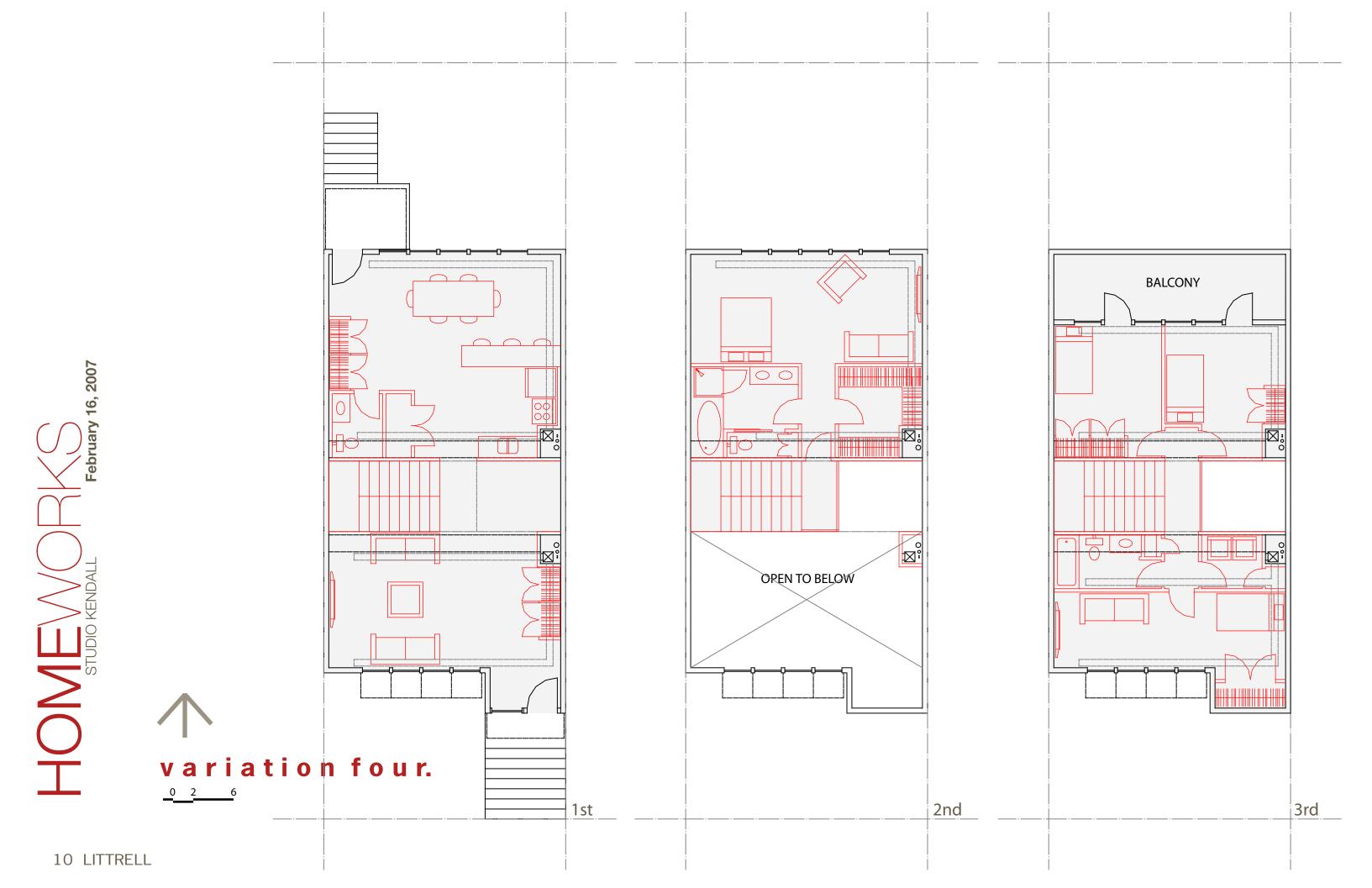














variation one.
shell/infill



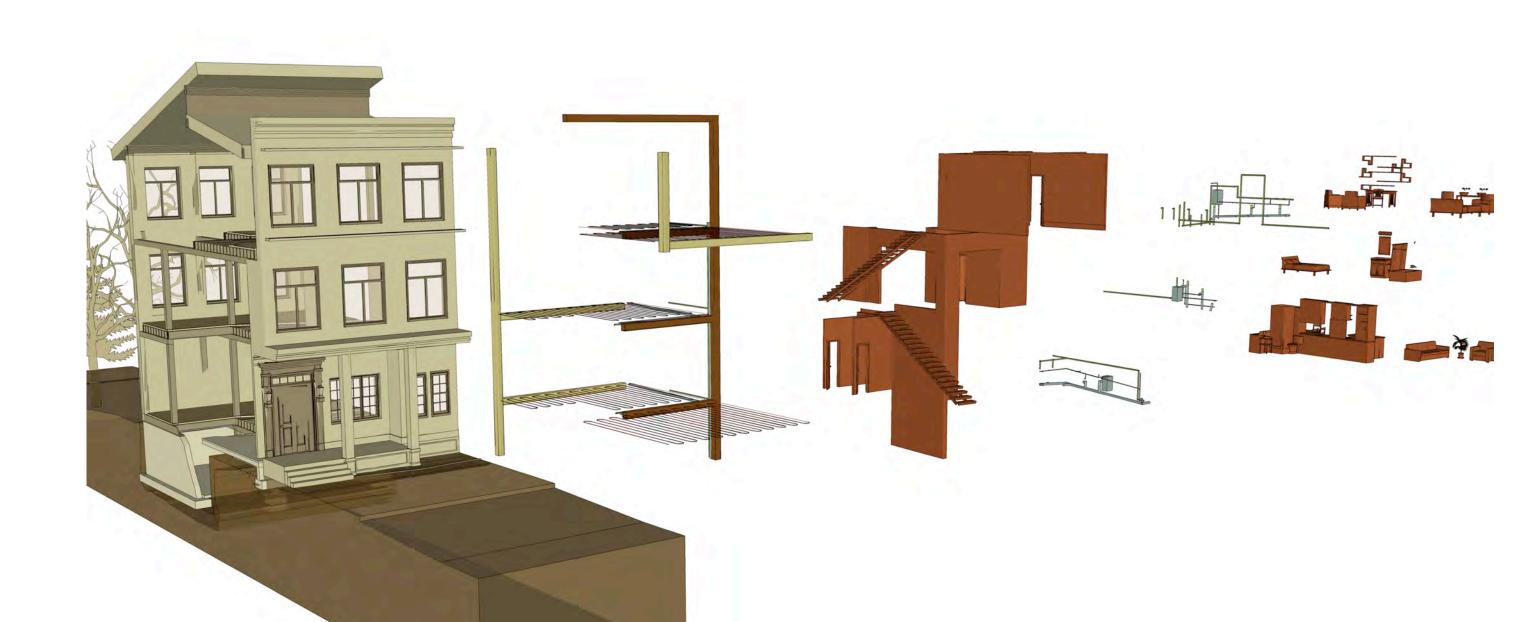
variation two. shell/infill



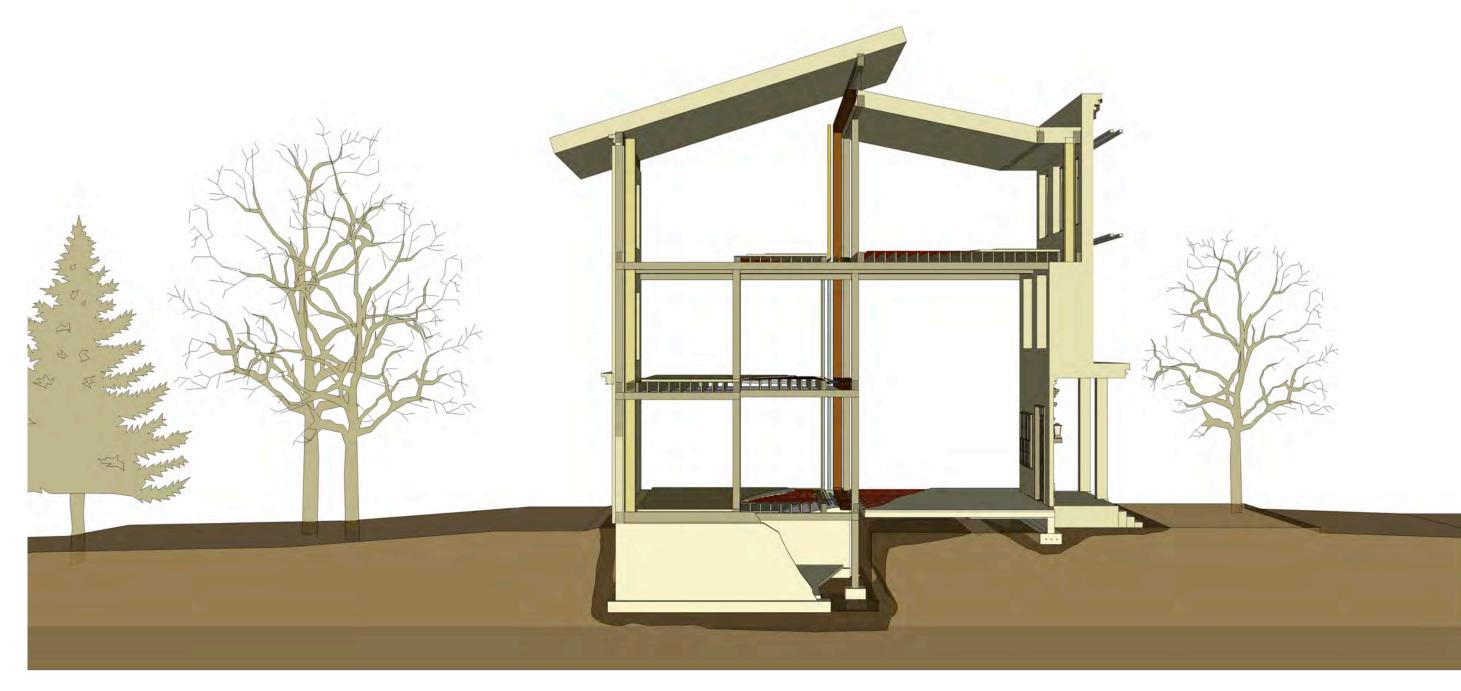
variation three. shell/infill



variation four. shell/infill



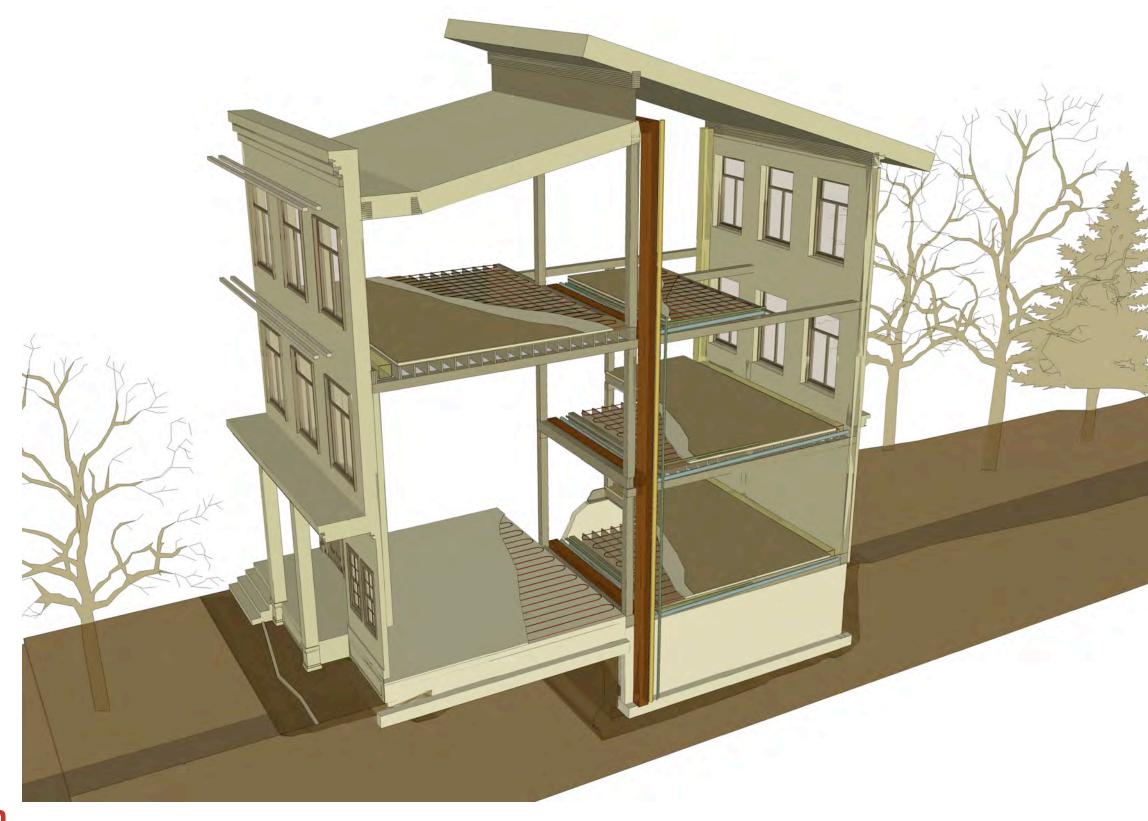
systems progression. shell/infill



shell section.
shell structure



shell section.
shell structure



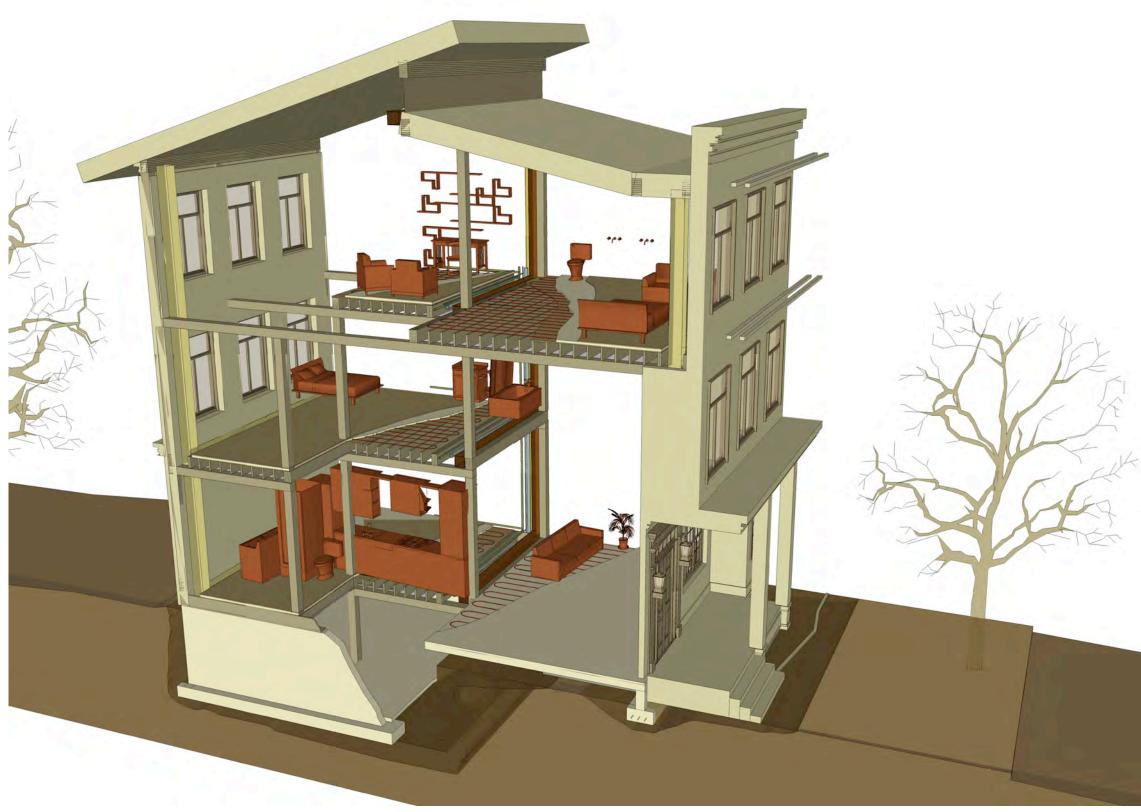
shell section. shell structure



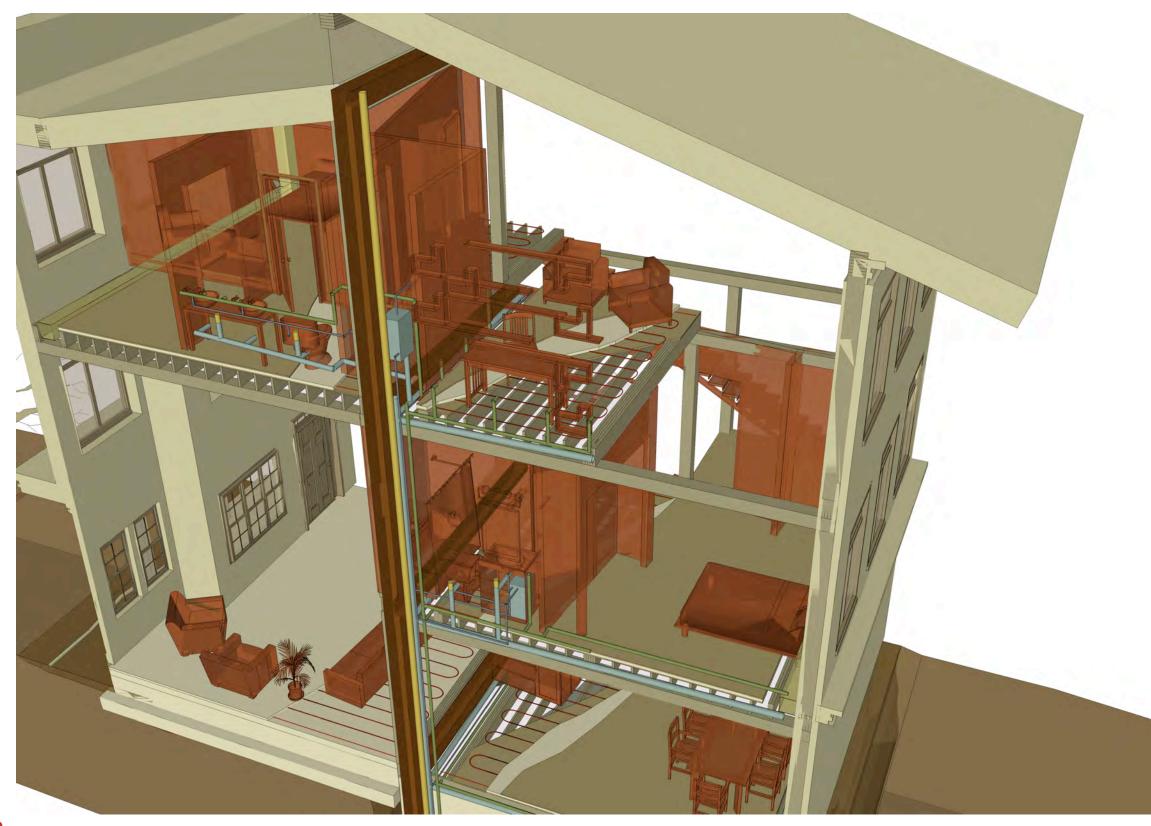
shell section. shell/structure infill



shell section. shell/mechanical infill



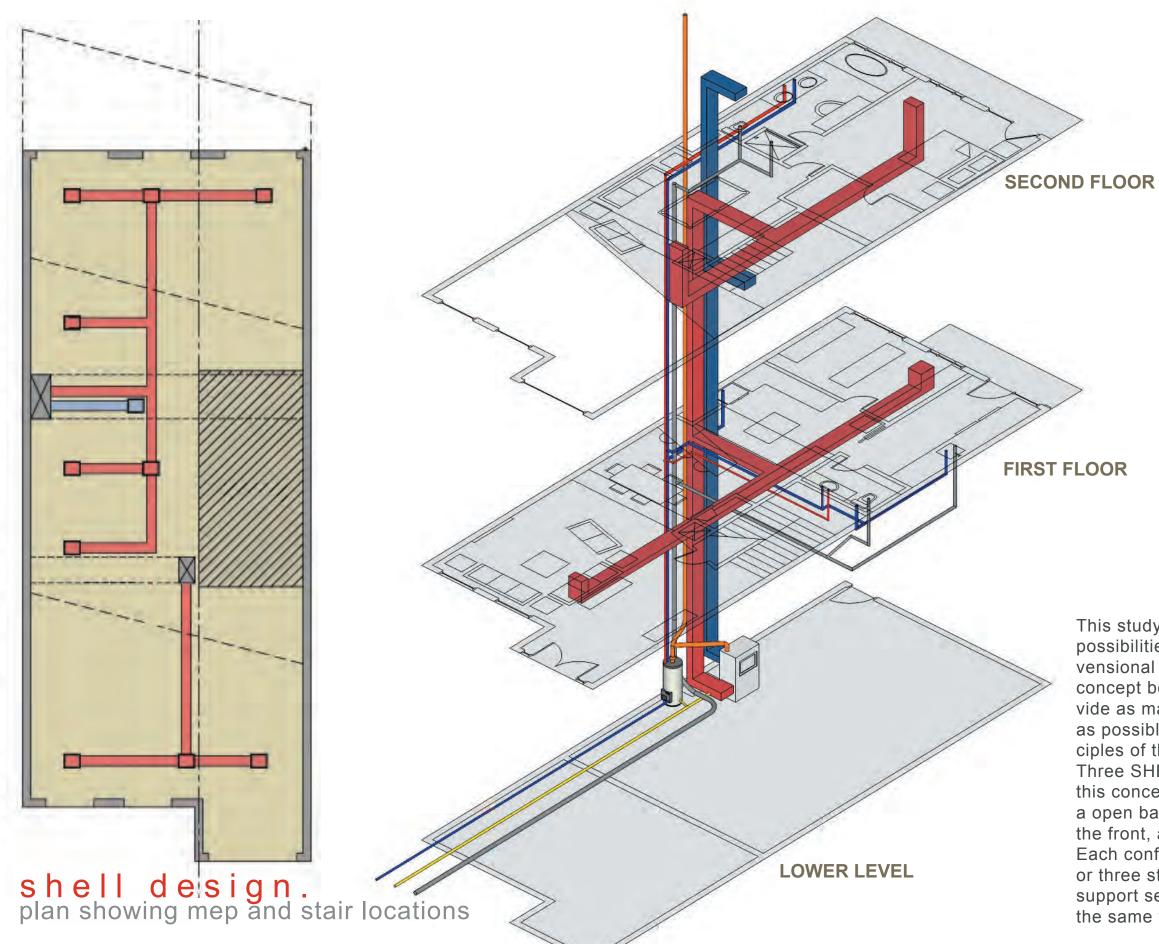
shell section. shell/furniture infill



shell section.
systems detail



shell elevation.
east facade



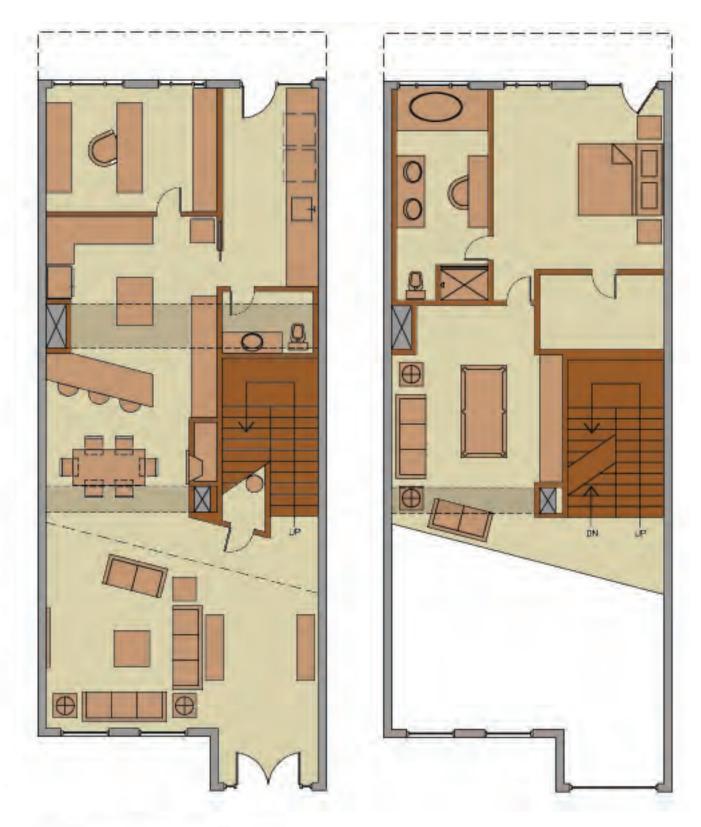
This study was used to determine the possibilities of open building in convensional construction methods. The concept behind this study was to provide as many interior INFILL options as possible, while maintaining principles of the open building method. Three SHELL options are available in this concept. They include: One with a open balcony in the rear, one in the front, and one without a balcony. Each configuration can support two or three stories, and some can even support seperate living units within the same vertical space.





variation one. straight stair with open volume in back

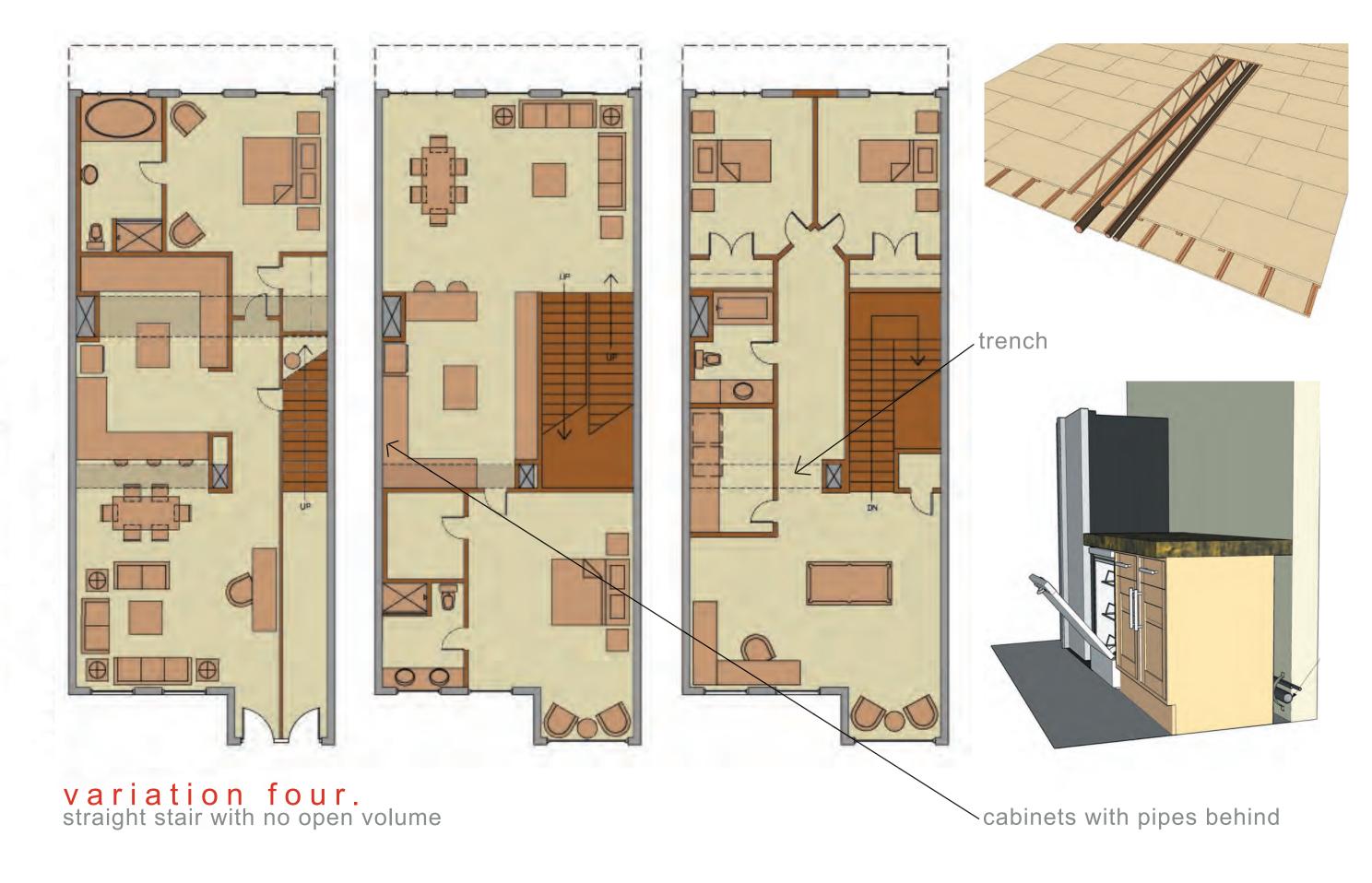








variation three. u-shape stair with open volume in front



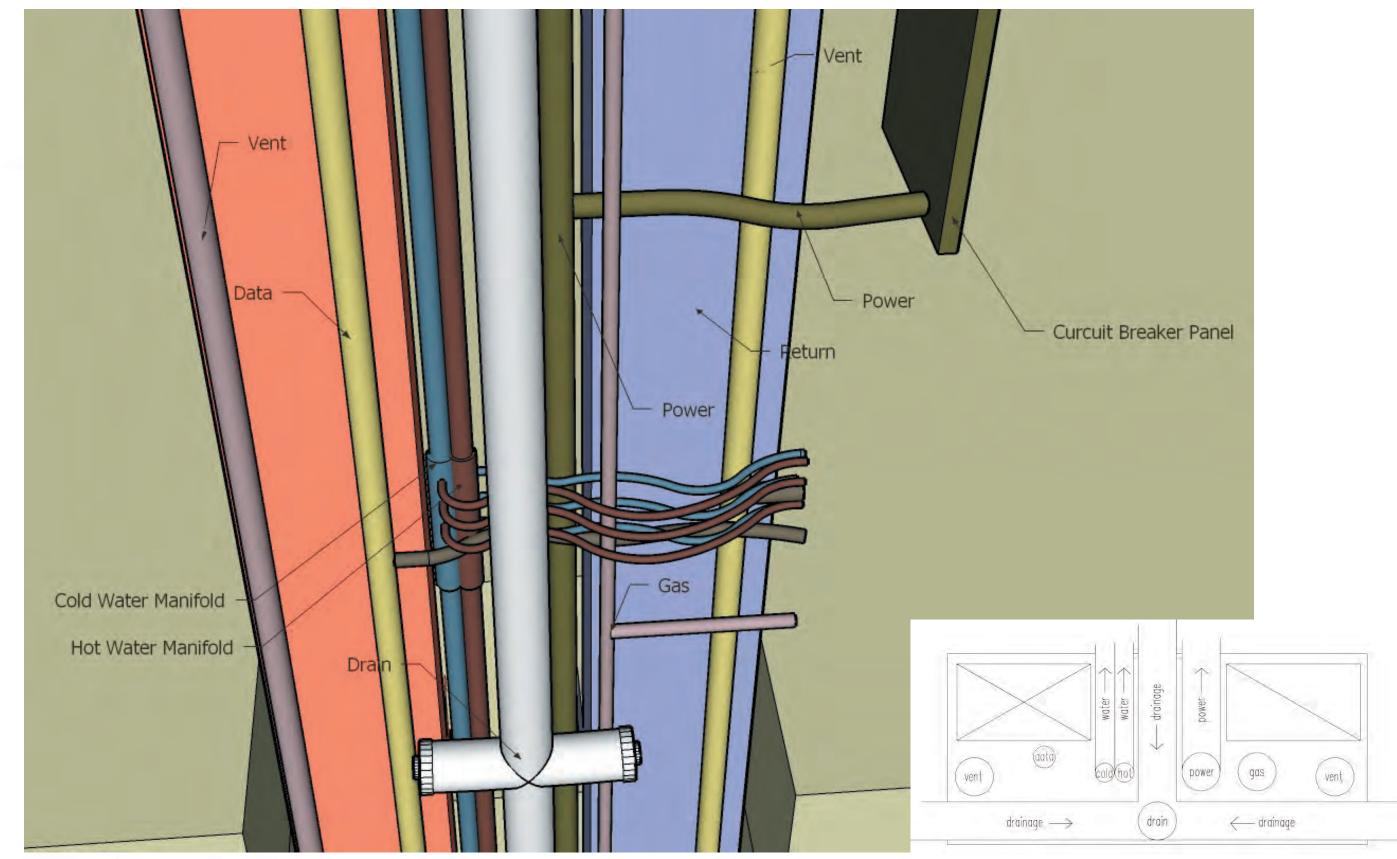








subvariant two. straight stair with open volume in reear



shaft detail. showing shaft detail at second floor - variation one





shell elevation. typical elevation/facade rendering

