



“Supporting the Spectrum” 2021-2022



Interior Design Scenario

*Written by professional members of the
Interior Design Educators Council (IDEC)*

Client Bio: John Walker is an industrial engineer for a textile manufacturer and his wife Sharise is an office manager for the same company. They are in their late 30’s, and are currently living in a single family residence in Charleston, South Carolina. They are looking to renovate their existing home to create a shared home office to support the couple’s ability to telework and to design a supportive atmosphere for their son. They will rent an apartment to stay in while the renovation is being completed, so no phasing will be required as part of the design.

The couple has a six year old son, Brody, who has been diagnosed with autism. John and Sharise are looking to create a safe play and learning space for Brody by enclosing the existing garage. Environmental design theories that consider design needs of children on the spectrum should be considered to create a supportive environment for Brody.

Scope of Project: Revising the provided house plan and lot, the student designer will:

1. Layout and furniture to provide living, working, cooking, eating and play spaces.
2. Make sure to provide a semi-private place to telework as needed (can be shared).
3. The couple would like to redesign the Master Bedroom/Bathroom and Closets to provide a larger vanity with two sinks.
4. Enlarge the square footage of the house to enclose the existing garage space to provide a play space for the couple’s son.

The clients have requested that if necessary, all interior walls may be removed. The only load bearing walls are the exterior walls. The footprint of the original house, location of existing exterior doors, and windows will remain in place. Additional windows can be added to the garage space. The client has provided an existing floor plan and dimensioned plans.

Program Requirements:

- **Family Area/Kitchen/Dining:** The family area is the first space that you see when entering the home and should provide a welcoming atmosphere. The family would like to open up these spaces to provide visual access and a bar space between the kitchen and family areas. The Dining area can be also visible, or separate.
 - Family Area: Provide seating for a minimum of four people with end tables, a television that can be disguised or built-in.
 - Kitchen: Open up the kitchen area to be visually connected to the family room, separated by a eating bar area (typically 4’’: High). A reliable source for clearances is the NKBA Planning Guide (Kitchen 8 & 9). The NKBA Planning Guidelines are available on the STAR Events Resources page on the National FCCLA website. To order the complete set of NKBA Kitchen and Bath Planning Guidelines call Customer Service at 1.800.The.NKBA (800.843.6522).
 - Dining: Provide a table and chairs for a minimum of four, maximum of six. Storage for serving pieces/dishes is desired. NKBA provides appropriate seating and traffic clearances for all eating areas.
- **Master Bedroom/Master Bath:** Provide a bed, nightstands, window treatments for privacy, storage for folded clothes and a walk-in closet for hanging clothes. The bathroom should be redesigned to provide a large vanity with two sinks and a separate shower and an oversized tub. A linen closet is also requested. A reliable source for clearances is the NKBA Planning Guide.
- **Brody’s Bedroom:** Provide a bed, nightstands, window treatments for privacy, storage for folded clothes and a closet for

hanging clothes. Design should be geared to support the needs of a child on the autism spectrum.

- **Office/Telework Area:** Provide a desk area with space for a laptop, printer, wireless internet modem and telephone.
- **Utility Room:** Provide a room to house a residential washer/dryer with space to store laundry detergent, dryer sheets.
- **Play/Learning Room:** Provide a play room for the couple's six-year-old son who is on the autism spectrum. The space should include different areas for play, toy storage, and a homework space. The space should be flexible so it can be easily adapted as needed as Brody ages.

The Interior Space:

- **Architectural Details:** The windows are 30" AFF (above finished floor). The width of the windows is 36, double hung windows with divided lights. The head height of the windows is 6'-8" AFF.
- **Built-ins:** In order to maximize the use of the space, the clients are interested in providing built-ins or multifunctional pieces that can serve dual purposes. This might include a built-in buffet in the dining room that could also function as a telework desk.
- **Budget Purchases:** The clients are now interested in purchasing reasonably priced new furnishings as well as used furnishings from consignment stores, Goodwill, Habitat for Humanity and other recycled products.

Kitchen and Bath: The NKBA Planning Guidelines are available on the STAR Events Resources page on the National FCCLA website. To order the complete set of NKBA Kitchen and Bath Planning Guidelines call Customer Service at 1.800.The.NKBA (800.843.6522).

Design Research:

- Research environmental design theories and consider the design needs of children on the autism spectrum
- Interior should have a coordinated aesthetic through the use of materials and design elements.
- Maximize daylight to create a bright natural, healthy feel in the interior spaces.
- The use of plants to provide a healthy environment is preferred
- The useable space must be maximized by minimizing hallways.

Design "Deliverables" (documents):

1. A maximum of three (3) 20"x30" boards should be prepared to meet the following design requirements.
 - a. **Project Objectives** – List the top three objectives for the project and include how they are being addressed (in bullet form, minimum 18 point font). Display on Design Board.
 - b. **Floor Plan (with Furniture)**- A Develop a floor plan that is drawn to a consistent ¼" = 1' scale with rooms labeled correctly, all architectural features indicated appropriately, and furniture arrangement displayed. Floor plans may be hand drawn or computer generated. Using correct scale is very important in order to understand measurements of areas where dimensions aren't given, (i.e., furniture sizes). Display on Design Board.
 - c. **Rendered Elevation or 3D drawing** - A rendered (with color) 2-D elevation or 3D perspective showing the living area to include one of the teleworking spaces. The drawing should include the architectural details, all furnishings, fixtures and accessories. (1/2" =1'0" for elevation, no scale for 3D perspective). Display on Design Board.
 - d. **Images of Furnishings, Accessories and Lighting** – Select images furnishings, accessories and lighting to indicate the interior style being recommended to the clients. Display on Samples Boards.

- e. **Finishes** - Samples should represent the actual products, materials and selected for interior space and are to appear on the sample boards. Actual samples are not required, but may be included. Please don't include heavy or breakable samples. Display on Samples Boards.
 - f. **Labels and craftsmanship**- Make sure to label everything on your boards. A client will look at your design boards for clarity and neatness. (Review the Interior Design Board Composition Tip Sheet and Suggestions for Sample Boards files in the FCCLA Student Portal, under the Resources tab.)
2. **Client Invoice** - The clients have not established a budget at this time but would like the student designer to make reasonable recommendations. Create a budget for five different furnishings and/or lighting products that have been specified for the space as shown on the sample board. Also include the time involved for selecting the furnishings/lighting. As a student designer your billable rate is \$50 per hour. Labor costs, installation, or shipping and handling fees will be billed at a rate of 10%. Calculate tax based on your state's current tax percentage. Taxes will be calculated on furnishings and lighting. Billable hours are a service and are not taxed. A sample invoice template can be found in the FCCLA Portal under the Resources tab.

INDUSTRY RESOURCES:

Industry resources available to designers may provide the opportunity to obtain materials not available to the average consumer. Below are a few resources; there are many more to be discovered online.

Universal Design Resource

<http://www.universaldesignresource.com/>

<http://universaldesign.ie/What-is-Universal-Design/>

Human Centered Design

<https://www.humancentereddesign.org/resources/universal-design-housing>

Design for the Autism Spectrum

<https://www.autismspeaks.org/what-autism>

<https://www.autism-programs.com/articles-on-autism/optimum-home-environment-for-children-with-autism.htm>

<https://www.carautismroadmap.org/autism-friendly-design-ideas/>

<https://livingautism.com/create-autism-friendly-environment/>

https://www.routledge.com/rsc/downloads/9780415725279_chapter_1.pdf

<https://lexingtonservices.com/improving-your-home-environment-for-children-with-autism/>

Telework

<https://www.owllabs.com/blog/home-office>

<https://www.virtualvocations.com/blog/telecommuting-survival/home-office-help/relaxing-home-office-design/>

Plumbing Fixtures and tile

kohler.com

annsacks.com

efaucets.com

Residential Furniture – Accessories – Lighting

ballarddesigns.com

deringhall.com

onekingslane.com

restorationhardware.com

Cabinetry

kraftmaid.com

wood-mode.com

Hardware

signaturehardware.com

Window Treatments

smithandnoble.com

Paint

benjaminmoore.com

sherwinwilliams.com

Office Furniture

gunlocke.com

hermanmiller.com

steelcase.com

Fabrics

robertallendesign.com/

kravetcontract.com

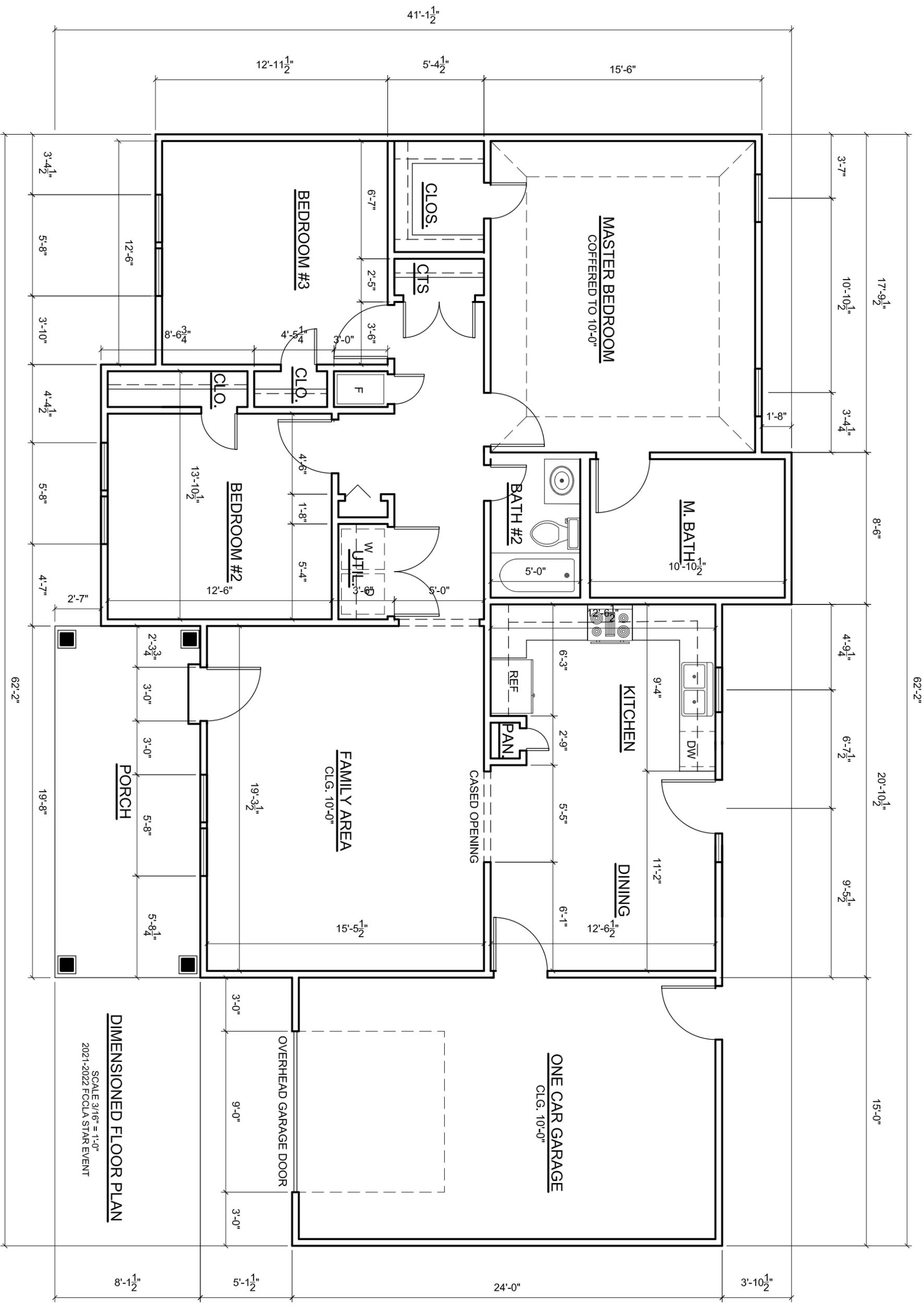
designtex.com

Flooring

Daltile.com

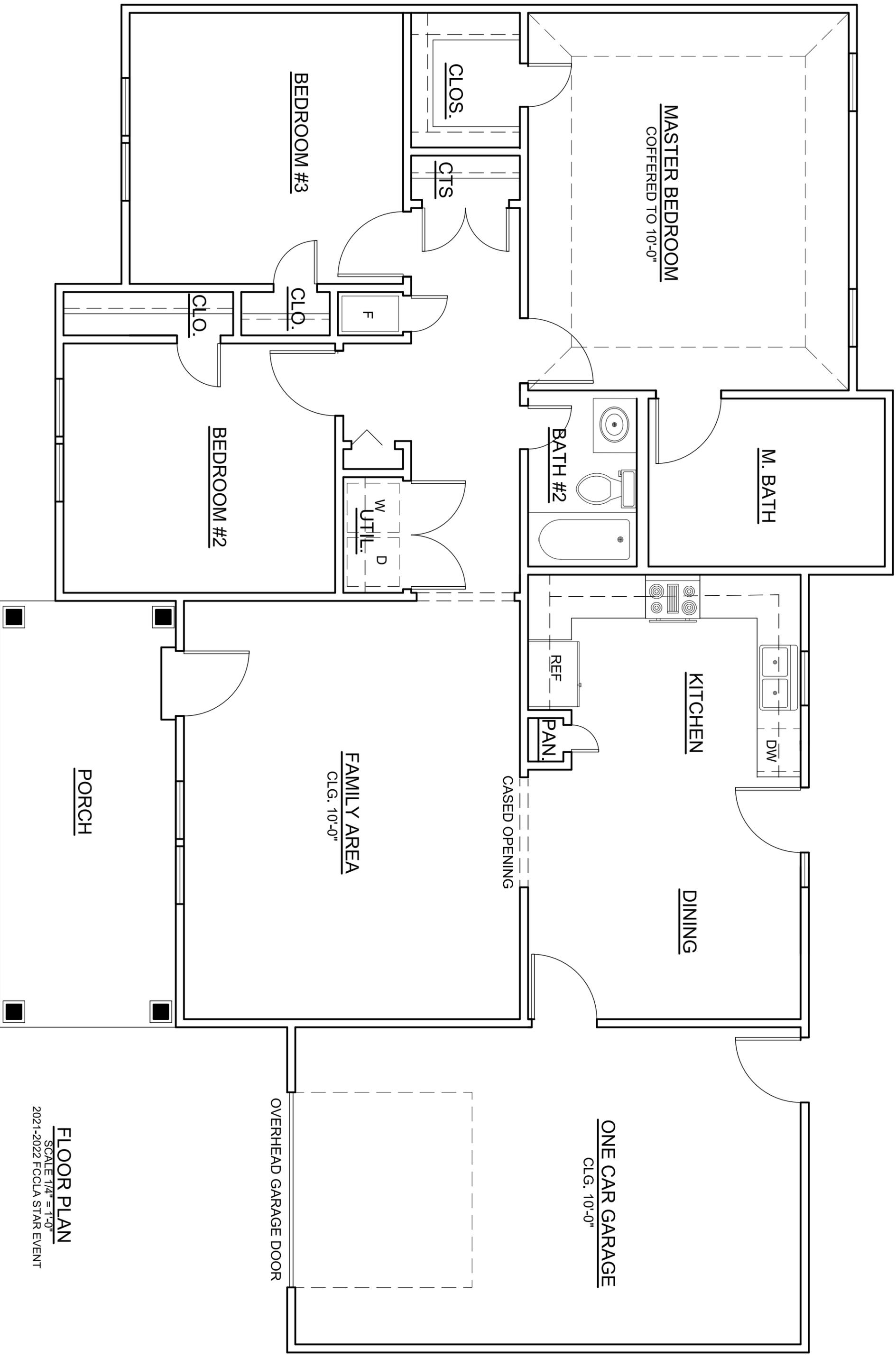
Armstrong.com

mohawkgroup.com



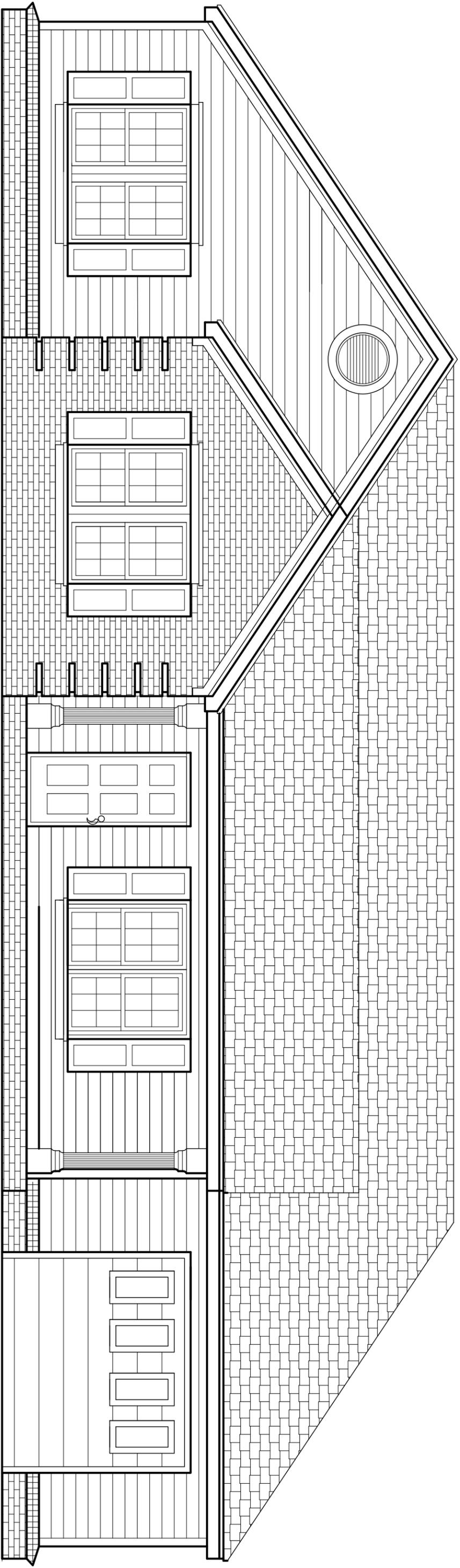
DIMENSIONED FLOOR PLAN

SCALE 3/16" = 1'-0"
2021-2022 FCCLA STAR EVENT



FLOOR PLAN

SCALE 1/4" = 1'-0"
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FRONT ELEVATION

SCALE 1/4" = 1'-0"