STAFF REPORT 7-24-2019 MEETING APPLICATION NUMBER 19-6346 ADDRESS: 3475 IROQUOIS HISTORIC DISTRICT: INDIAN VILLAGE APPLICANT: BEN CARBURY DATE OF STAFF VISIT:

PROPOSAL

The building at 3475 Iroquois is a two-story, single-family dwelling. Exterior walls are clad with brick and windows are currently 1/1, wood-sash units with 4/1 windows at the rooftop dormers. The hipped roof is covered with slate shingles. Hipped-roof dormers are present at the front and rear roof surface. A two-story bay window at the rear elevation is clad with slate tiles. Until recently, a full-width, one-story porch was located at the building's front elevation.



3457 Iroquois, porch prior to unapproved removal



3457 Iroquois, detail, porch prior to unapproved removal

As per the above photos, the original porch included a concrete deck with centrally-located concrete steps and brick railing with a cast stone cap. Four, round wood Doric columns sat atop the brick railing and supported a wood cornice with dentilated detailing and a flat roof. As per the below photo, the historic-age front porch was recently removed without permit and/or HDC approval. Specifically, only the square wood pilasters, concrete deck with centrally-located concrete steps and brick railing with cast stone cap remain.



Note that the two wood pilasters concrete deck, concrete steps and brick railing remain

3457 Iroquois, current condition, after unapproved porch removal

The remnants of a porch, to include a deteriorated wood deck and steps, remain at the rear of the home.



Rear elevation, current condition. Note, remaining wood deck and steps

The rear yard is littered with debris and includes a partially collapsed garage. A concrete ribbon driveway leads from the street/sidewalk to the remaining concrete parking apron and foundation/slab.

With the current proposal, the applicant is seeking the Commission's approval of the following as per the attached:

- Install a new front porch/rebuild as per the attached drawings to include 4 new composite round columns; replace existing wood pilasters with new composite pilasters; install a new wood cornice and flat roof (finish color not provided)
- Repair deteriorated areas of the soffit and fascia with new wood/beadboard to match existing (painted Yellowish White)
- Install new gutters and downspouts, painted Yellowish White (size/type, material, and location not specified)
- At rear elevation, remove existing deteriorated wood deck and steps/porch, and replace with a new, wood, two-story porch, painted Yellowish White
- Remove existing basement windows and replace with new glassblock windows
- Landscape, to include the removal of a dead tree on the right of house, front yard; removal of a number of small" junk trees" that have grown about 10-15 feet high, including those in the driveway; remove "junk bushes," existing deteriorated dog kennel, and wire fencing
- Replace existing driveway approach, concrete ribbon driveway and apron with new concrete ribbon driveway and apron, same location and dimension

- Remove the remaining garage remnants at the property's rear yard
- Erect a new 20'x30', three-car garage as per the following description:
 - Side gabled roof with black asphalt roofing
 - Exterior walls to be clad with lapped composite/hardi siding with a faux wood grain finish or lapped textured OSB siding boards, painted Light Brown with Yellowish White trim
 - o Aluminum gutters and downspouts, painted Yellowish White
 - Three, aluminum, single paneled overhead garage door at front elevation (color not provided)
 - Aluminum, single man door at side and rear elevations, see the attached for location alternatives elevation (color not provided)
 - o Wood beardboard soffits, painted Yellowish White
 - Horizontal sliding vinyl windows at side elevations (color not specified)

STAFF OBSERVATIONS

Note that the applicant removed the historic-age wood columns, cornice, and roof at the front porch without HDC approval and/or permit. Please see the below photos, which depicyt the front porch's recent condition/level of deterioration at the structure prior to the unapproved work. It appears clear that portions of the roof/ceiling were rotted out, however, it is not clear to staff that all of the porch's wood components were deteriorated to a point which merited their wholesale removal. Also, the remaining wood pilasters proposed for replacement with new composite pilasters do not appear to be deteriorated beyond repair. It is staff's opinion, the wood porch elements which were removed without approval, to include the columns and cornice, were distinctive, character-defining features at the home, as are the remaining wood pilasters. Note, that the standards require that "...deteriorated historic features be repaired rather than replaced. Where the severity of deterioration requires replacement of a distinctive feature, the new feature shall match the old in design, color, texture, and other visual qualities and, where possible, materials." Please see the proposal to rebuild the front the porch. Specifically, note that the applicant narrative proposes to rebuild the front porch to match the original design. However, the current submission does not provide a dimensioned elevation drawing of the new porch within the context of the front facade and does not provide drawings which indicate that the original porch details will be exactly replicated. Also, note that the submission does not provide dimensions for the section of the proposed new rear elevation porch, nor does it provide an elevation drawing which indicates where the new rear porch will be installed.

In regard to the proposed new 3-car garage, note that it is located well to the rear of the home and will be minimally visible from the public right-of-way. It is staff's opinion that the proposed new building is generally compatible with the existing historic home. However, staff does question the durability/lifespan of the proposed textured OSB siding/cladding.

ELEMENTS OF DESIGN

(1) The level of the eaves of a proposed new structure having as much or more significance for compatibility as the room height, an average eave or cornice height shall be determined by the same process as that described above. The proposed new structure shall have a height at the eaves, or cornice, of not less than ninety (90) per cent of the average determined from existing structures, and in no case shall the eaves or cornice of the proposed structure be lower than the lowest eave or cornice height used in the computation, nor higher than the highest.

(2) Proportion of buildings' front facades. Proportion varies in the district, depending on age, style, and location in a specific subdivision. Height being established by the standards above, proportion will be established by permitting no proposed building or addition to create a front facade wider or narrower than those existing on the same block.

(3) Proportion of openings within the facade. Window openings are virtually always taller than wide; several windows are sometimes grouped into a combination wider than tall. Window openings are always subdivided, the most common window type being guillotine sash, whose area are generally further subdivided by muntins. Facades have approximately fifteen (15) per cent to thirty-five (35) per cent of their area glazed: Sun porches with a very high proportion of glass subdivided by multions and muntins are common.

(4) Rhythm of solids to voids in front facades. In buildings derived from classical precedents, voids are usually arranged in a symmetrical and evenly-spaced manner within the facade. In examples of other styles, especially those of neo-Tudor and Victorian substyles, voids are arranged with more freedom, but usually in a balanced composition.

(5) Rhythm of spacing of buildings on streets. The spacing of the buildings is generally determined by the setback from the side lot lines; these tend to be consistent, even though lot width may vary. Because of the existence of several subdivisions and their related subdivision and deed restrictions, the placement of buildings on lots varies from area to area in the district. In the case of very wide properties, two (2) conditions exist. A very wide site may have a house placed centrally upon it, with extensive side yard space; this occurs only with extremely large houses by district standards. A more typical placement of houses of average size for the district is at the side of the wide site, placed normally in relation to one of the adjoining houses. The rest of the property is a side yard on the other side of the house, and the entrance is often oriented toward that side yard.

(6) Rhythm of entrance and/or porch projections. In those examples of classical inspiration, entrances and porches, if any, tend to be centered on the front facade. Other examples display more freedom with entrance and porch placement, with some having the main entrance at the side. Porches, often permanently enclosed sun porches, are often placed at the side of the building.

(7) Relationship of materials. The majority of the buildings are faced with brick, while many are partially or totally stucco. There are some stone buildings; clapboard is rare, and almost never the sole material. Wood shingle is occasionally used as a wall covering, usually at the second floor level, and never as the sole material. Roofing includes slate, tile, and wooden and asphalt shingles. Stone trim is common. Wood is almost universally used for window frames and other functional trim, and is used in many examples for all trim. Because of the existence of several subdivisions and their related deed restrictions, the exterior textures and materials may vary from block to block in the district.

(8) Relationship of textures. The most common relationship of textures in the district is that of the low-relief pattern of mortar joints in brick contrasted to the smooth surface of wood or stone trim. The use of stucco or concrete, with or without half-timbering, as a contrast to brick surfaces is not unusual. Tile, slate, or wood shingle roofs have particular textural values where they exist. Asphalt shingles, generally, have little textural interest, even in those types which

purport to imitate some other variety.

(9) Relationship of colors. Natural brick colors (red, yellow, brown, buff) predominate in wall surfaces. Natural stone colors also exist. Where stucco or concrete exists, it is usually left in its natural state, or painted in a shade of cream. Roofs are in natural colors (tile and slate colors, wood colors) and asphalt shingles are predominantly within this same dark color range. Paint colors often relate to style. The classically inspired buildings, particularly neo-Georgian, generally have woodwork painted white, cream or in the range of those colors, including "putty." Doors and shutters are frequently dark green or black. Colors known to have been in use on buildings of this type in the eighteenth or early nineteenth centuries on similar buildings may be considered for suitability. Buildings of Medieval inspiration (notably neo-Tudor) generally have painted woodwork and window frames of dark brown or cream color. Half-timbering is almost always stained dark brown. Queen Anne or late Victorian examples may have several paint colors on a single facade. These tend to be dark in tone and frequently of the "earth tone" family. The original colors of any house, as determined by professional analysis, are always acceptable for that house, and may provide suggestions for similar houses.

(10) Relationship of architectural details. These generally relate to style. Neo-Georgian buildings display classic details, mostly in wood, and sometime in stone. Areas commonly, but not always, treated are porches, shutters, window frames, cornices, and dormer windows. Details on Mediterranean style or vernacular buildings are often done in stone, brick, tile, and sometimes in stucco. They include arched windows, door openings, and porches. Buildings of medieval inspiration tend to have details in the form of carved wood or carved stone ornament on window frames, door frames, and eaves. Queen Anne or late Victorian style buildings tend to have details in wood, stone, or molded brick commonly embellishing cornices, window frames and door frames. In general, the various styles are rich in architectural details.

(11) Relationship of roof shapes. Roofs with triangular gables and hip roofs predominate. A few examples of the gambrel-type roof exist. Complex arrangements of the gabled and/or hip types, with subsidiary roofs, are not unusual. Dormers are common. Flat roofs exist primarily on porches and sunrooms, and other minor elements; large hip roofs sometimes have relatively small flat sections in the center.

(12) Walls of continuity. The major wall of continuity is created by the buildings, with their uniform setbacks within the blocks. New buildings should contribute to this wall of continuity. Where gaslights are sufficiently numerous, and where trees in rows have survived in sufficient numbers, minor walls of continuity are created. Fences across side lots contribute to the major wall of continuity where placed at the front yard setback line.

(13) Relationship of significant landscape features and surface treatment. The typical treatment of individual properties is a flat front lawn area in grass turf, often subdivided by a walk leading to the front entrance, and sometimes with a walk at the side leading to the rear. Materials for such walks are concrete, brick, or stone, or combinations of those materials. Some front yards have rectangular raised earthwork terraces upon which the house stands. These unpaved terraces have sloping embankments or brick and/or stone retaining walls at the change of grade. Foundation plantings, often of a deciduous character, characteristic of the period 1895-1930, are present virtually without exception. Hedges between properties, and ornamental front yard fences or hedges are not uncommon. The American elm is virtually extinct in the district, though once the dominant tree. Replacement trees should be characteristic of the area

and period, though only a disease-resistant American elm would be a practical choice. Plantings of new trees should be directed toward the restoration of the former straight-line rows of large trees on the front yards and "tree lawns." Straight side driveways leading from the street to rear garages exist, but alley-facing garages are common, particularly in the southern portion of the district. Where alley-facing garages are common, the lack of driveways lends a unity to the succession of front lawns. Driveway materials include concrete, brick and gravel. Side lots are not uncommon in the district, and a number of these form a part of the original site plan for the residence. Such side lots are usually landscaped, often fenced at or near the setback line, and very occasionally contain paved areas such as a tennis court. The street right-of-way of eighty (80) feet combined with a pavement width of between twenty-four (24) and twenty-nine (29) feet creates wide "tree lawns" or berm areas, which adds to the generous ambience of the urban landscape of the district. Street pavements are now asphalt; cut stone curbs still exist in portions of the district. Alleys are frequently paved with brick, particularly where alley facing garages are common. Fencing ranges widely in type; fencing in public view was generally designed to compliment the style, design material, and date of the residence.

(14) Relationship of open space to structures. Open space in the district occurs in the form of vacant land, a city park, school yards for the Waldorf and Nichols Schools, and side lots. Where an original or early arrangement of a house and grounds included and still includes landscaped lots which form part of the landscaping plan for the residence, such landscaped lots are significant landscape features.

(15) Scale of facades and facade elements. There is a variety in scale from block to block and style to style; most houses have a large and substantial appearance. The size and complexity of facade elements and details either accentuate or subdue the scale of the facades. Facade elements have been determined by what is appropriate for the style. Large wings at the front are atypical, while small wings at the side, usually in the form of sunrooms and sun porches, are common. Window sash are usually subdivided by muntins, which affects the apparent scale of the windows within the facades.

(16) Directional expression of front elevations. In general, the expression of direction is neutral.

(17) Rhythm of building setbacks. Because of the existence of various subdivisions and their related subdivision and deed restrictions, setbacks vary from area to area within the district, though they are consistent within each block or area. The varying designs of the houses, occasionally with slight setbacks in the facades, cause the houses to relate to the front setback line in different ways; this creates a slight variation in the setback line. Nevertheless, within each block or area a wall of continuity is created.

(18) Relationship of lot coverage. Lot coverage ranges from fifty (50) per cent to twelve (12) per cent or less in the case of homes with large yards. Most homes are in the twenty (20) per cent to thirty (30) per cent range of lot coverage.

(19) Degree of complexity within the facade. The degree of complexity has been determined by what is typical and appropriate for a given style. The classically inspired buildings usually have simple, rectangular facades with varying amounts of ornamentation. Other styles, such as "Queen Anne" and those of Medieval inspiration, frequently have facades complicated by gables, bays, slight setbacks, porches, and occasionally, turrets.

(20) Orientation, vistas, overviews. While most of the buildings are oriented toward the street, it is not unusual for an entrance to face the side, especially in the case of a landscaped side lot or corner house.

The street facade in these cases is well coordinated with the rest of the street facades. Garages are frequently oriented either toward an alley or a side street; almost all garages are detached and at the rear of the lot. In those few cases where pre-1930 houses have attached garages, they are at the rear and are entered from the side or rear. The doors of such attached garages are generally not visible from the street.

(21) Symmetric or asymmetric appearance. Neo-Georgian and other classically inspired buildings are generally symmetrical. Other styles, including the neo-Tudor, are generally asymmetrical, but balanced compositions.

(22) General environmental character. The Indian Village District, with its long, straight streets, its hierarchy of walls of continuity (lamps, trees, buildings) and its large, dignified homes, has an urban, substantial, low density residential character.

RECOMMENDATION

It is staff's opinion that the erection of the proposed new garage will not result in the removal of historic materials or alteration of features and spaces that characterize the property and that the garage itself is generally compatible with the existing historic home. It is also staff's opinion that the proposed new landscaping, hardscape, basement windows, debris removal, and gutters/downspouts will not destroy historic materials that characterize the property. Staff therefore recommends that the Commission issue a Certificate of Appropriateness (COA) for these work items because they meet the Secretary of the Interior's Standards for Rehabilitation, standards # 2.) The historic character of a property shall be retained and preserved. The removal of historic materials or alteration of features and spaces that characterize a property shall be avoided and # 9. New additions, exterior alterations, or related new construction shall not destroy historic materials that characterize the property. The new work shall be differentiated from the old and shall be compatible with the massing, size, scale, and architectural features to protect the historic integrity of the property and its environment. 10.) New additions and adjacent or related new construction shall be undertaken in such a manner that if removed in the future, the essential form and integrity of the historic property and its environment would be unimpaired. However, staff does recommend that the Commission issue this approval with the following conditions:

- The garage shall be clad with lapped composite/Hardi siding with a smooth finish/texture.
- The color of the new garage's exterior doors and windows shall be Yellowish White, to match building's the trim color
- The applicant shall provide HDC staff the dimensions of the existing hardscape and the proposed new/replacement hardscape (driveway approach, ribbon driveway, and rear yard parking apron) so that they might verify that the new will replicate the old/existing prior to the issuance of the COA. If the application proposes to expand the existing hardscape footprint, HDC staff shall forward this portion of the proposal to the Commission for review at a future meeting.
- The garage windows shall be aluminum or aluminum-clad wood units

In regard to the front porch proposal, the applicant has stated that he plans on to rebuilding the front porch to match the original design. However, the submitted drawings are not dimensioned and do not provide drawingswhich indicate that the original porch details will be exactly replicated. Also, although the proposed new rear porch generally appears to be appropriate, the submission does not provide dimensions for the section of the porch, nor does it provide a rear elevation drawing which indicates where the new will be installed. Staff therefore recommends that the Commission issue COA work proposed at the front and rear porches because they meet the Secretary of the Interior's Standards for Rehabilitation, standards # 6) Deteriorated historic features shall be repaired rather than replaced. Where the severity of deterioration requires replacement of a distinctive feature, the new feature shall match the old in design, color, texture, and other visual qualities and, where possible, materials. Replacement of missing features shall be substantiated by documentary, physical, or pictorial evidence. However, staff does recommend that the Commission issue this approval with the following conditions:

- The applicant shall retain the two remaining wood pilasters at the front elevation.
- The applicant shall provide HDC staff a dimensioned elevation drawing which depicts the building's front elevation; the existing wood pilasters, brick walls, and concrete steps; and the proposed new columns, cornice, and roof prior to the issuance of the project COA. HDC Staff shall be afforded the opportunity to review and approve the new dimensioned elevation drawing prior to the issuance of the project COA. If HDC staff determines that any of the new porch elements *do not exactly replicate the historic porch*, staff shall forward the porch proposal to the commission for review at a future meeting.
- The applicant shall provide drawings to HDC staff which indicate that the original front porch cornice and columns will be exactly replicated in material, dimension, style/type, and detailing prior to the issuance of the project COA. HDC Staff shall be afforded the opportunity to review and approve the new detail drawings. If HDC staff determines that any of these new elements *do not exactly replicate the historic porch*, staff shall forward the porch proposal to the Commission for review at a future meeting.
- The applicant shall provide HDC staff a **dimensioned elevation drawing** which depicts the building's rear elevation and the proposed new porch prior to the issuance of the project COA. HDC Staff shall be afforded the opportunity to review and approve the new dimensioned elevation drawing prior to the issuance of the project COA. If HDC staff determines that any of the new porch does not meet the Standards, staff shall forward the porch proposal to the commission for review at a future meeting.



MS: 7.5YR 5/4



White **MS:** 5Y 9/1







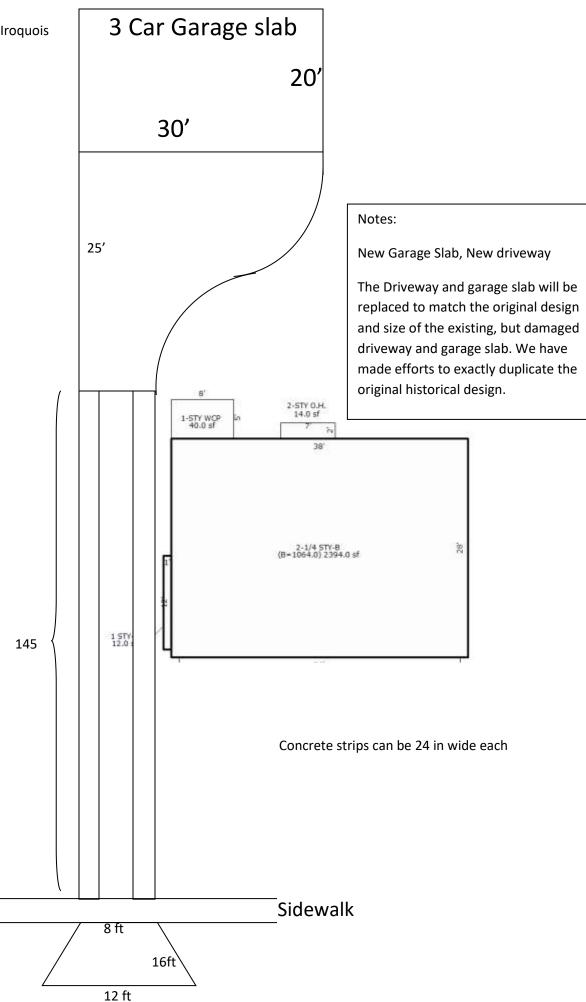












HISTORIC DISTRICT COMMISSION PROJECT REVIEW REQUEST

CITY OF DETROIT PLANNING & DEVELOPMENT DEPARTMENT 2 WOODWARD AVENUE, ROOM 808, DETROIT, MI 48226

6/27/2019 0/19

PROPERTY INFORMATION
ADDRESS: 3457 Iroquois AKA:
ADDRESS: 3457 Iroquois AKA: HISTORIC DISTRICT: Indian Villeyf
APPLICANT IDENTIFICATION
Property Owner/ Homeowner Contractor Contractor Architect/ Homeowner Contractor Consultant
NAME: Ben Carbon company NAME: Sell Your honse fast ADDRESS: 32905 Sumers sh CITY: LIVONIG STATE: MIT ZIP: 48154
ADDRESS: 32905 Sumers sh CITY: 4VONIG STATE: MI ZIP: 48154
PHONE: 734-277-976 MOBILE: EMAIL: <u>buffalovental property</u> e gmail. com
PROJECT REVIEW REQUEST CHECKLIST
Please attach the following documentation to your request:
Photographs of ALL sides of existing building or site
Detailed photographs of location of proposed work (photographs to show existing condition(s), design, color, and material)

Description of existing conditions (including materials and design)

Description of project (including an explanation as to why replacement--rather than repair--of existing and/or construction of new is required)

Detailed scope of work (formatted as bulleted list)

Brochure/cut sheets for proposed replacement material(s) and/or product(s)

NOTE: Based on the scope of work, additional documentation may be required See www.detroitmi.gov/hdc for scope-specific requirements

SUBMIT COMPLETED HDC@DETROITMI.GOV

Scanned by CamScanner

3457 Iroquois Exterior Work: (A) Front Porch/ (B) Back Porch/ (C) Landscaping/ (D) Soffits, facia, Gutters, (E) driveway, (F) garage, (G) Glassblock

4 Exterior Photos of all sides of house:

Front



BACK



North Side



South Side



Detailed Photos of Location of proposed Work:



Tree proposed to be removed



Structural porch members split and water logged and disintegrated

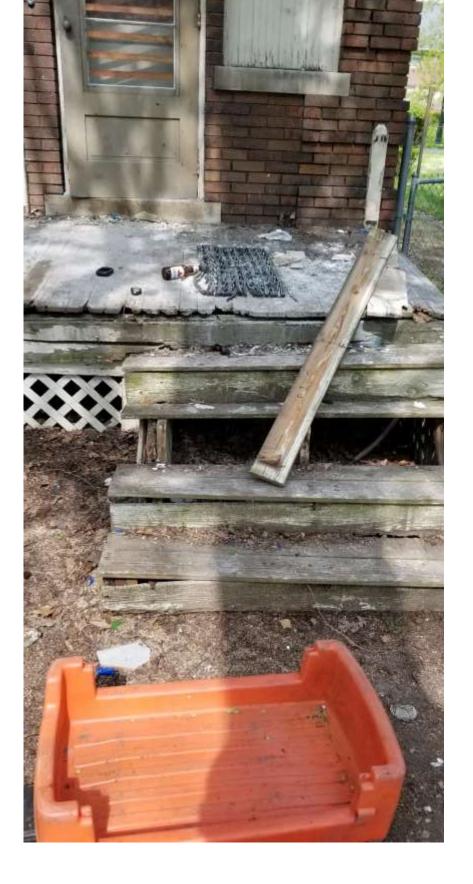


Porch Trim Details (original, above), Side yard completed trashed and broken fencing and junk bushes





Half cut and overhanging the roof, which is potential for roof damage, unattractive and detracts from curb appeal



Back Porch, water damaged and structure unstable



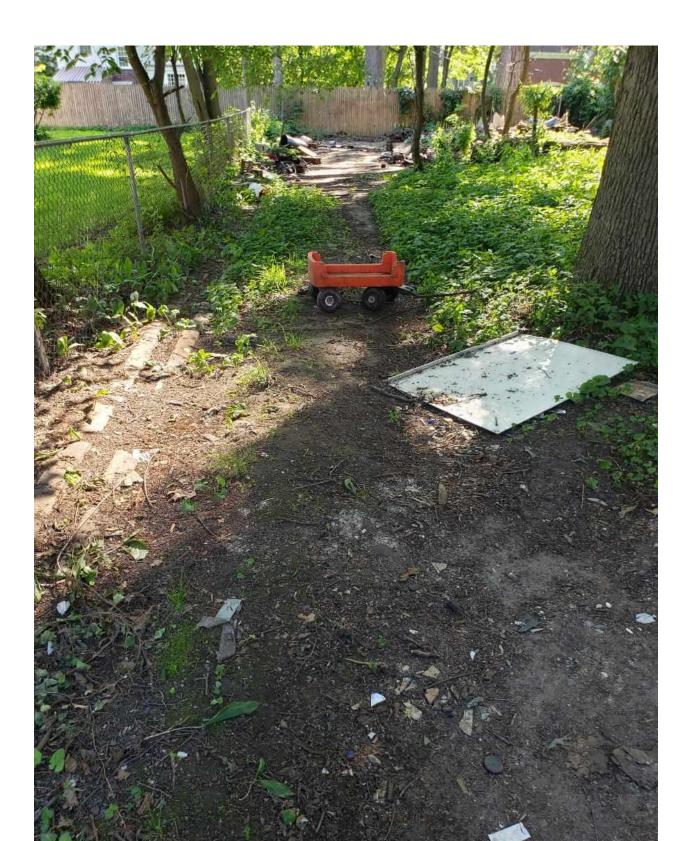
Side Yard, junk trees and bushes, dog kenel and metal clothes drying post

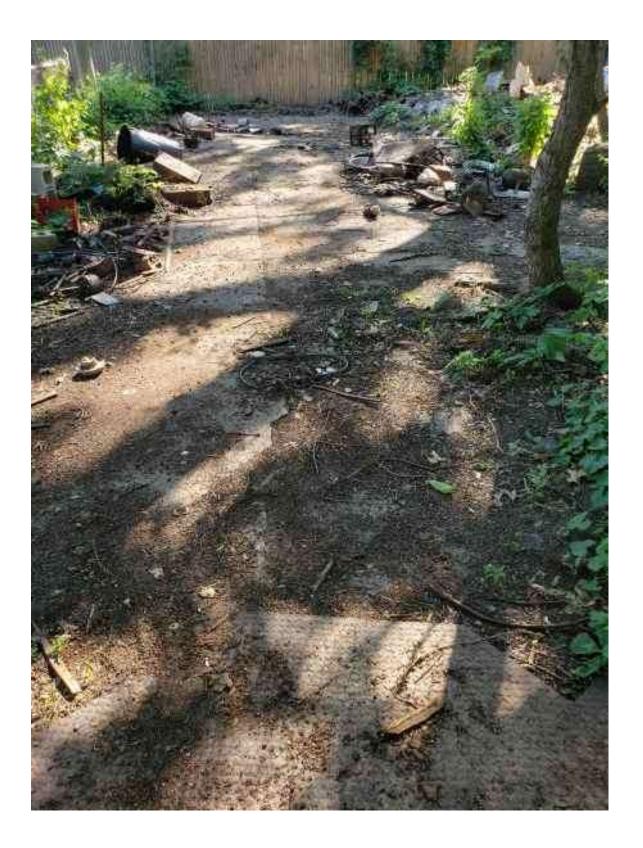
Below are the Current Photos of the backyard, driveway and glassblock windows. We are planning on cleaning up debris in the yard, replacing the driveway and garage slab, building a new garage and installing new glassblock windows

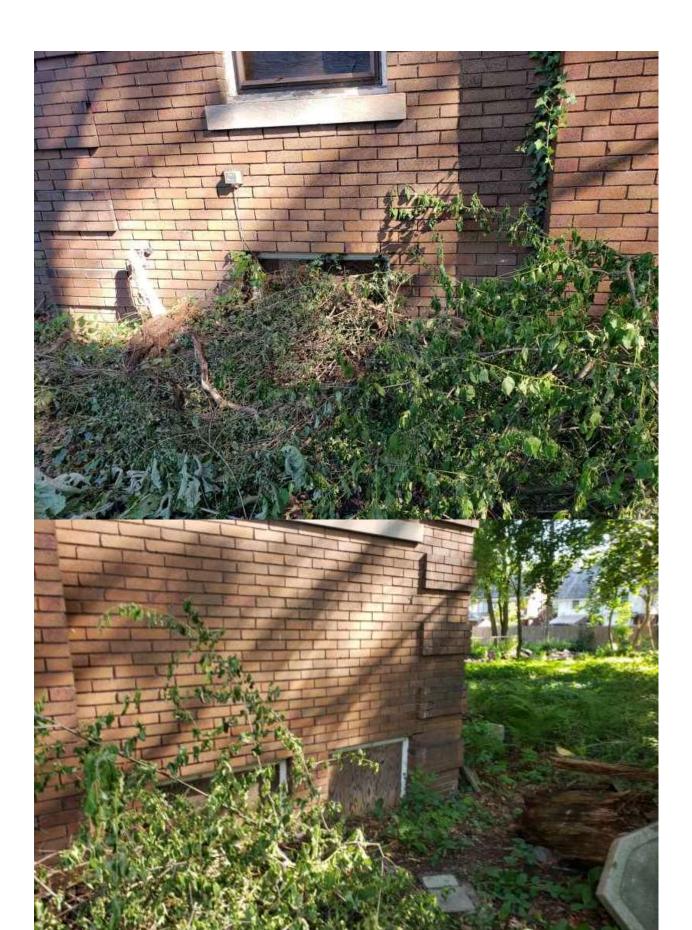


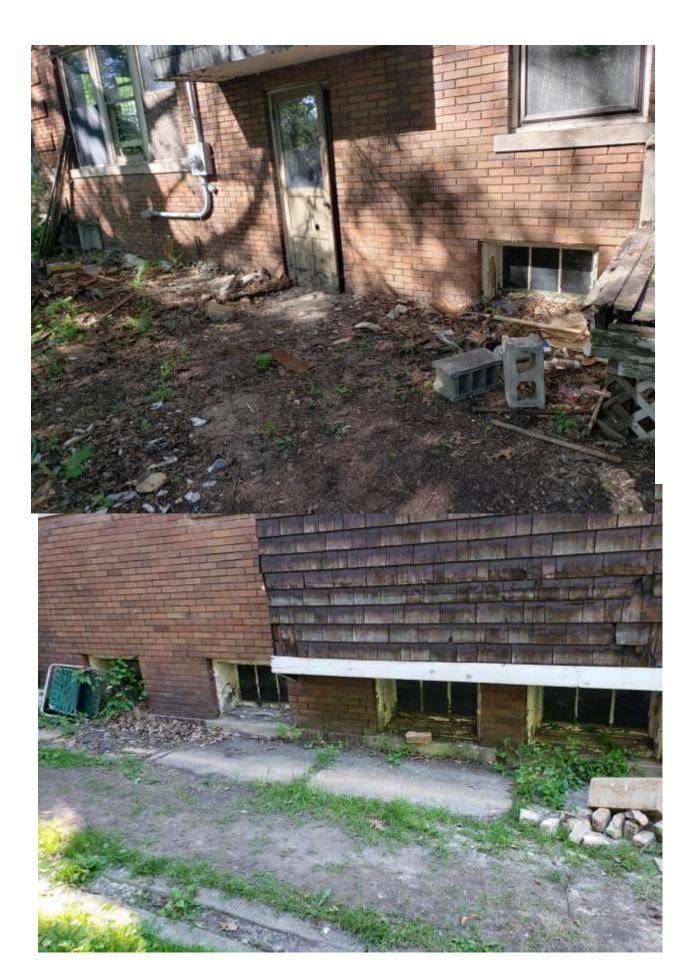












Description of Existing Condition:

(A)Front Porch: At present the front porch roof, pillars and supporting wood is completely water damaged and in need of complete replacement. Pillars are split and damaged and roof sheathing has in numeral leaks and sunlight is visible in numerous areas through the roof decking. Porch ceiling completely non-existent.

Explanation of us demolishing the porch without approval: Without getting your approval, we did demolish the wood portion of the front porch. We really should have waited for your approval. The thinking was that it was clearly not salvageable and 90% of the wood lumber was completely rotted and beyond any possibility of repair. In our expert opinion there was not even a remote possibility that it could be salvaged. It had and has to be replaced. Knowing that we demolished it. Again, sorry, we should have waited for your approval.

(B) Back Porches (both stories): At the back of the house, the 2-story porch is completely removed and needs to be replaced. There is a porch for the lower, and a porch for the upper. Only the lower porch exists, which is water damaged, unsafe stairs, porch incline is not correct and needs complete replacement

(C) Landscaping: The landscaping of the property has not be addressed in many many years. We are intending to make the landscaping look very nice and commensurate with the beautiful Indian village neighborhood. There about 3 dumpsters of junk, trash and a collapsed garage in the backyard alone. As you can see from the front photo, there is a large tree to the right of the property that is leaning over the house. The top of half the tree has been cut off and the tree is not attractive any longer. I believe the street would look better without it. There are many other nice trees on the lot. We plan on removing that and grinding the stump down. There is a random wire fence dog kennel that is in the middle of the side yard, and many junk trees about 10-15 feet tall that have grown in the driveway, side yard and backyard. In the lawn portion of the side lot there is an enormous amount of brush that has grown about 4-5 feet high.

(D) Soffits/Fascia/Gutters:

Replace matching soffits and fascia boards with new soffits and facia boards. There are no gutters on the house at present

(E) Driveway:

Driveway is strips of concrete with grass inbetween them from the sidewalk to about 10 feet past the back of the house. At that point it converts to a full driveway sweeping open to a 30ft wide garage. Garage slab is old, and in need of replacement. Driveway is also in need of replacement, has many cracks and concrete strips are pitched and not horizontal in many places

(F) Garage:

There was obviously a garage in the past because of the slab. At present there is no garage.

(G) **Glassblock:** Currently on the basement windows there are old and damaged single pane wood windows.

Description of the project:

Front Porch:

For the front porch, the actual floor and brick of the porch floor is completey fine. We will be leaving that. What is damaged is the porch roof and the pillars and supporting wood beams. As you can see from the photos the roof on that has not been replaced in many many years and has made the structure a safety hazard. Pillars are split in 2 so they are not usable and almost all the dimensional structural lumber that holds up the porch roof decking is water damaged and soiled. We plan on rebuilding the porch as it currently stands. Including matching the exterior trim around the house We will reinstall an architectural shingle as the final roofing (at the present roof pitch it is barely visible)

Back Porch:

The back porch is completely missing the 2nd floor. We plan on removing the first floor porch which is damaged and is not structurally sound anymore. Afterwards we will rebuild the 1st and 2nd floor porches.

Landscaping: Clean up landscaping. Removing 1 large dead tree to the right of the front of the house. Remove all smaller junk trees, remove all trash and debris from the exterior of the property including waterlogged firewood, barrels and collapsed garage.

Soffits/Fascia/Gutters:

Remove rotted boards, reinstall matching beadboard or 1-by wood as necessary. Paint and install gutters and downspout to match trim

Driveway: Remove and replace the driveway and garage slab. Repour concrete strips and then enlarge to full driveway and full slab (30x20) for garage. The driveway and all concrete work is designed to replicate the current concrete work, with the exception that the current garage slab is 22 feet deep and the proposal is for a 20 foot deep garage. Besides that no alterations from the original historical design are made. Please see site plan below.

Garage: We are proposing to build a 30 (wide) x 20 (deep) 3 car garage. Plans are attached. The man door on the garage will be on the right side of the garage near the front of the garage.

Glassblock: Remove existing wood single pane windows and replace with standard glassblock windows. Install wood frame and screen over the exterior of the glass block to comply with Historic commission requirements

Detailed Scope of Work:

- 1. Front Porch roof:
 - a. Demolition both wood portions of the porches, leaving the masonry of the front porch in tact
 - b. Using dimensional lumber to rebuild the porch roof to match original design
 - c. Install 4 matching pillars and 2 half pillars against the brick wall of the house.
 - d. Install matching molding along beams that span between the pillars
 - e. Paint
- 2. Using dimensional lumber rebuild the front porch roof and the
 - a. Demolish 1st floor porch
 - b. Rebuilt with dimensional lumber a matching size porch for the 1st and 2nd floor porches
 - c. Paint
- 3. Landscaping
 - a. Fill dumpsters with trash, barrels, collapses garage. Clear as much personal belongings and junk out of the front, side and back yard
 - b. Cut down Large dead tree on the right of house/grind stump.
 - c. Cut down a number of small junk trees that have grown about 10-15 feet high, including those in the driveway
 - d. This is a double lot. Most of the side lot will be grass and a few trees. All junk bushes, piles of cut wood, dog kennel, junk wire fence will all be removed.
 - e. Grass reseeded.
- 4. Soffits/Fascia/gutters
 - a. Remove rotted boards
 - b. Reinstall matching beadboard on soffits
 - c. Reinstall matching fascia with 1-by wood
 - d. Paint
 - e. Install Gutters
- 5. Driveway and garage slab
 - a. Remove existing driveway and slab
 - b. Repour driveway and slab
- 6. Garage
 - a. Build garage on slab based on attached plans below
 - i. Frame garage
 - ii. Roof garage
 - iii. Install soffits, fascia, siding, gutters
 - iv. Paint garage
 - v. Install finish lighting
- 7. Glassblock windows
 - a. Remove damaged and old single pane windows
 - b. Install with mortar new glassblock windows.
 - c. Install wood framed with screen
 - d. Paint the wood the approved trim color of the house

Brochure/Cut Sheet

- 1. Standard pressure treated dimensional lumber for porch structures
- 2. 1-by wood lengths as necessary for porch
- 3. Soffits:



4. Front Pillars: Composite material that will be painted trim color



5. Molding: Painted to match trim



Below Dentil moulding there will be this moulding below



6. Garage Details:

a. Siding: concrete board siding



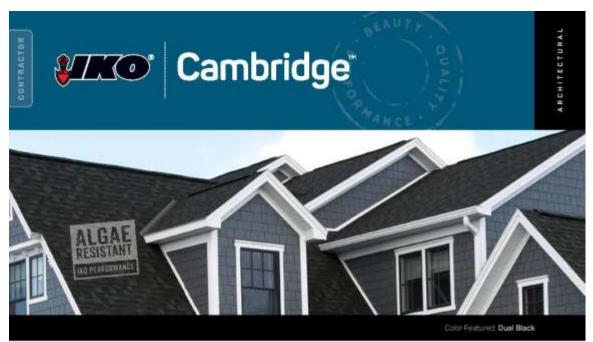
b. Soffits:



- c. Fascia standard 1-by wood
- d. Light fixtures:



- e. Siding Paint color: B:5 light Brown
- f. Trim/gutters paint color: C:4 Yellowish White



Garage Roof: Iko cambridge shingles, dual Grey, architectural shingles (to match g. color of slate roof)



IKO's Most Popular Shingle Gives You an (Almost) Unfair Advantage.

IKO Cambridge architectural laminate shingles in IKO's special Advantage size. Their exposure is bigger than most in their class, to go down fast and easy. And with full coverage, the job costs associated with extra bundles and the labor to install them are lowered, too.

Proper installation is vital for effective weather resistance. That's why we've enlarged our nall line to guide installers for correct nal placement and made our Fastlock** modified bitumen sealant thick and aggressive to promote a strong bond.

Homeowners will get the high-end designer architectural appearance without the high-end designer cost.



		Cam	סרוסנ	je [*]		
	Limited Warranty ¹	Limited Lifetime	Dimensions TL:x W)	40 7/8 in [1038 mm] × 13 3/4 in [349 mm]		ASTM D3462
	Iron Clad Protection ¹	15 Yeers	199	1	ANDARDS*	ASTM D3018
	Producer's residence of the second second	() TO PORT	Exposure Coverage Per Bundle	5 7/8 m (149 mm)		ASTM D7158 - Class I
	Limited Wind Warranty	110 mph [177 km/h]		33 1/3 ft? [3.1 m ²]		ASTM D3161 - Class F
2	Limited High Wind Warranty Upgrade ^{* ±}	130 mph (210 km/h)			S T	ASTM E108 - Class A
	Blue-green Algae Resistant ¹	Yes	Shingles Per Square	60		CSAA1235

WEATHERWOOD	DUAL BLACK	DUAL BROWN
CHARCOAL GREY	DRIFTWOOD	AGED REDWOOD
EARTHTONE CEDAR	HARVARD SLATE	DUAL GREY

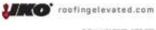


To ensure complete satisfaction, please view several full size shingles and an octual cool instalation prior to final coor selection as the shingle swatches and photography allown online, in brochures and in our app may not accurately reflect shingle color, and do not fully represent the enter color blend range, nor the ingect of suelight.

¹ See Limited Warrantyst HOcom for complete terms, conditions, restrictions, and application requirements. Shingles must be applied in accordance with application instructions and local lusting code requirements. ⁹ High Wind Application is required "Al values shown are approximate. ¹⁹Products developed with reference to these Standards. **Note**: Product and color availability may very by region. Products with Mani Dade NOA and Pantida Pediduct Approval listing are available. ¹⁹Base contract NO for data?. ¹The information this literature is subject to champ without notice. We assume neuroprobleting the environment weighter in this literature in advance about to product a weight before NOA and Pantida Pediduct. ¹⁹Base States 1998 for environment weighter in this literature in products newly being to an NO Sales Representative, your professional mething contractor or contact us directly at United States 1-888-IND-ROOF (1-888-456-7963). ¹⁹Canada 1-855-90-ROOF (1-855-458-7863) or wint our website at: KOCOM.



Cambridge Super Write is CFRC listed and DIERGY STAR* qualified in the US

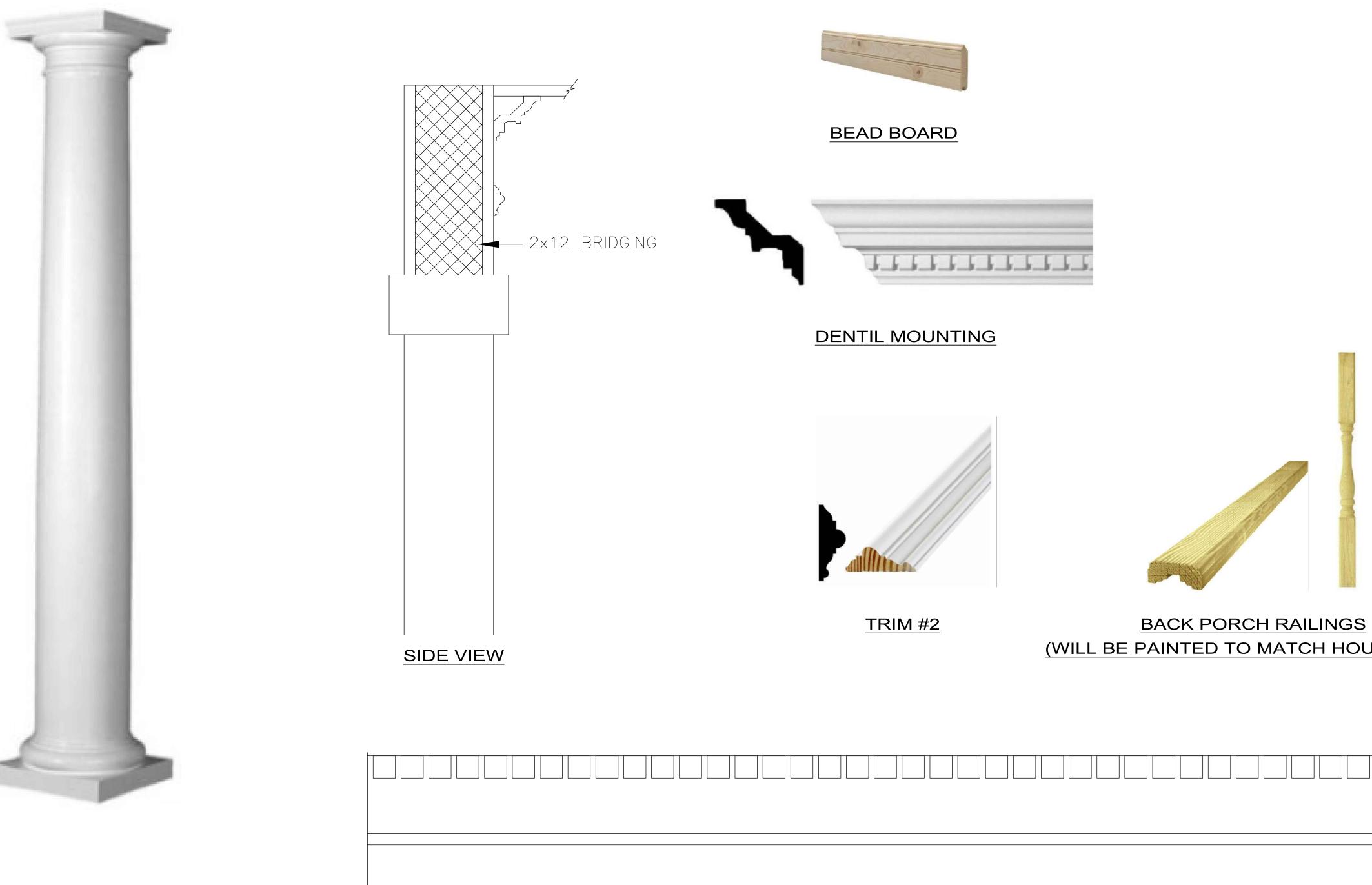


о сируком селтя никтьоря

GlassBlock:







BACK PORCH COLUMN

NOTE:

ALL WOOD AND PILLARS WILL BE PAINTED C:4 YELLOWIS WHITE, AN APPROVED COLOR FOR THE TRIM OF THIS HOUSE BASED ON HDC GUIDELINES FOR THIS STYLE OF HOUSE.









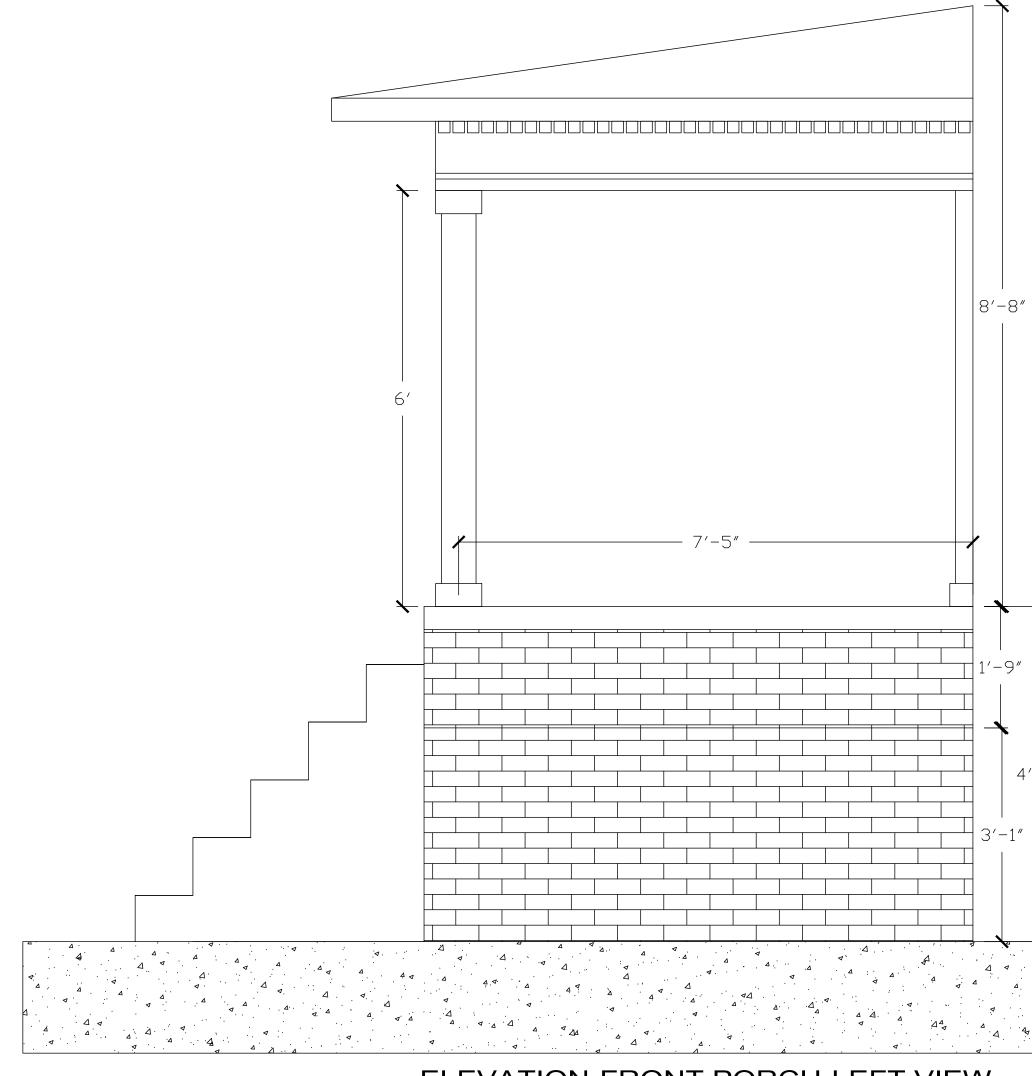
(WILL BE PAINTED TO MATCH HOUSE TRIM)

FRONT VIEW





EXISTING CONDITION SCALE: NOT TO SCALE

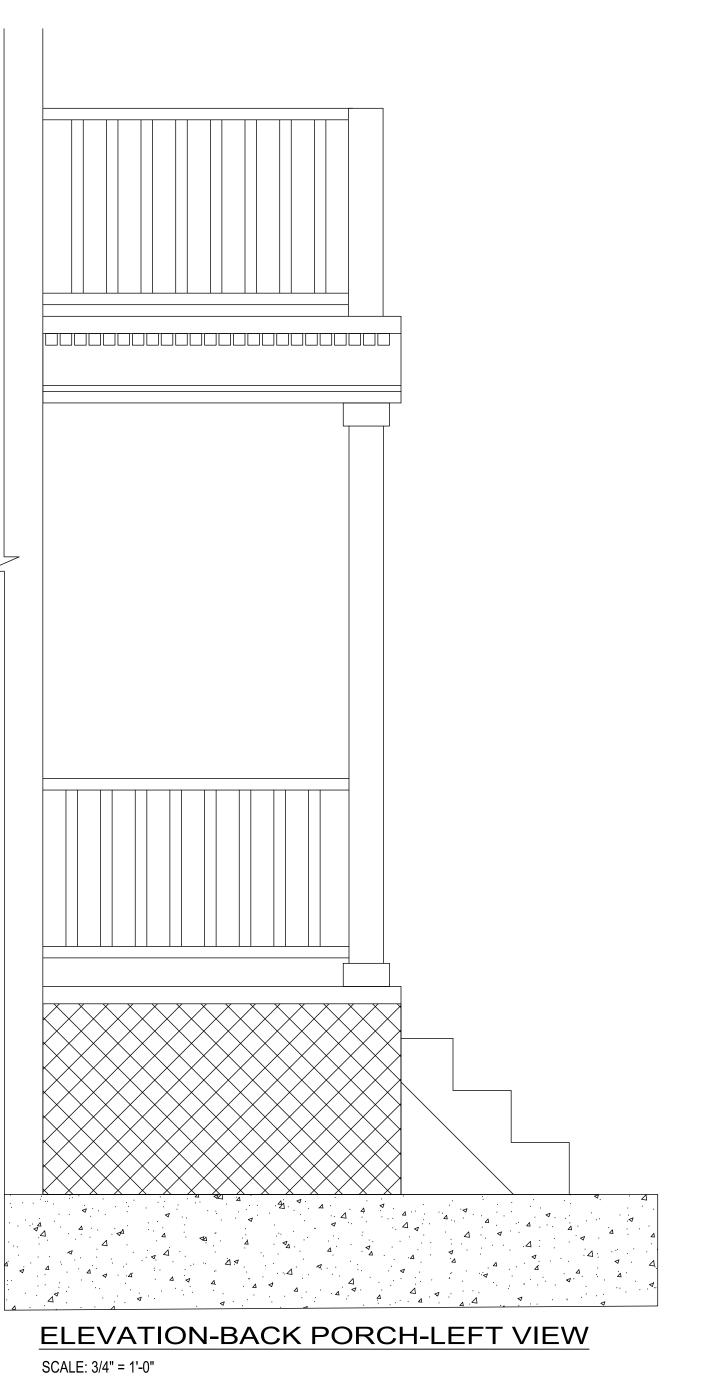


ELEVATION-FRONT PORCH-LEFT VIEW SCALE: 3/4" = 1'-0"

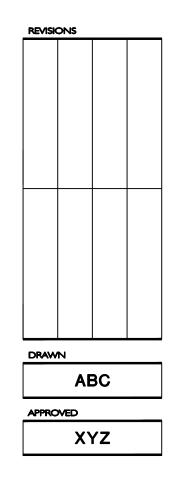
4'-10"

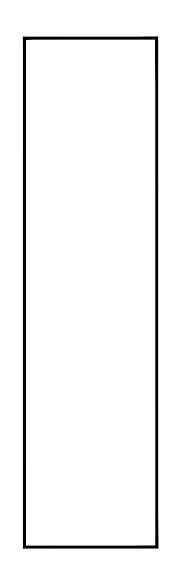


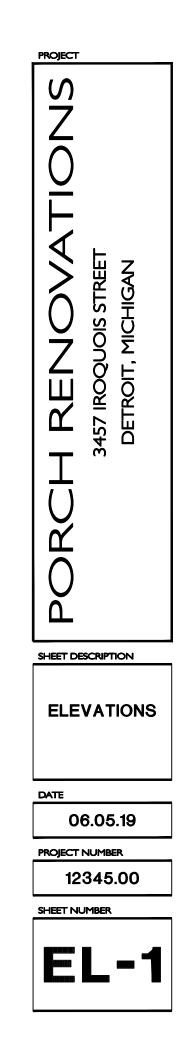
FRONT ELEVATION SCALE: 1/4" = 1'-0"

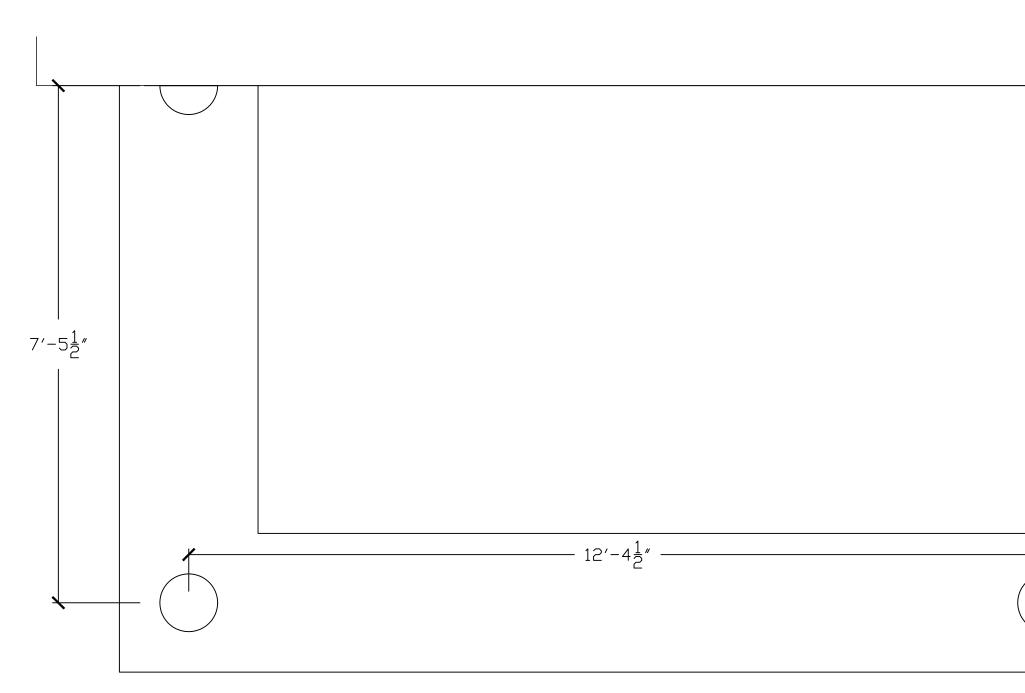


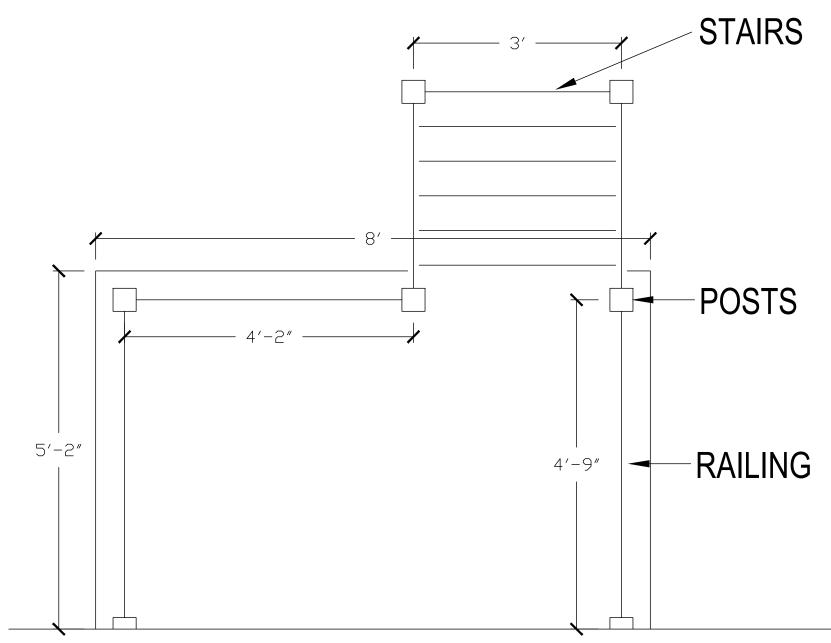






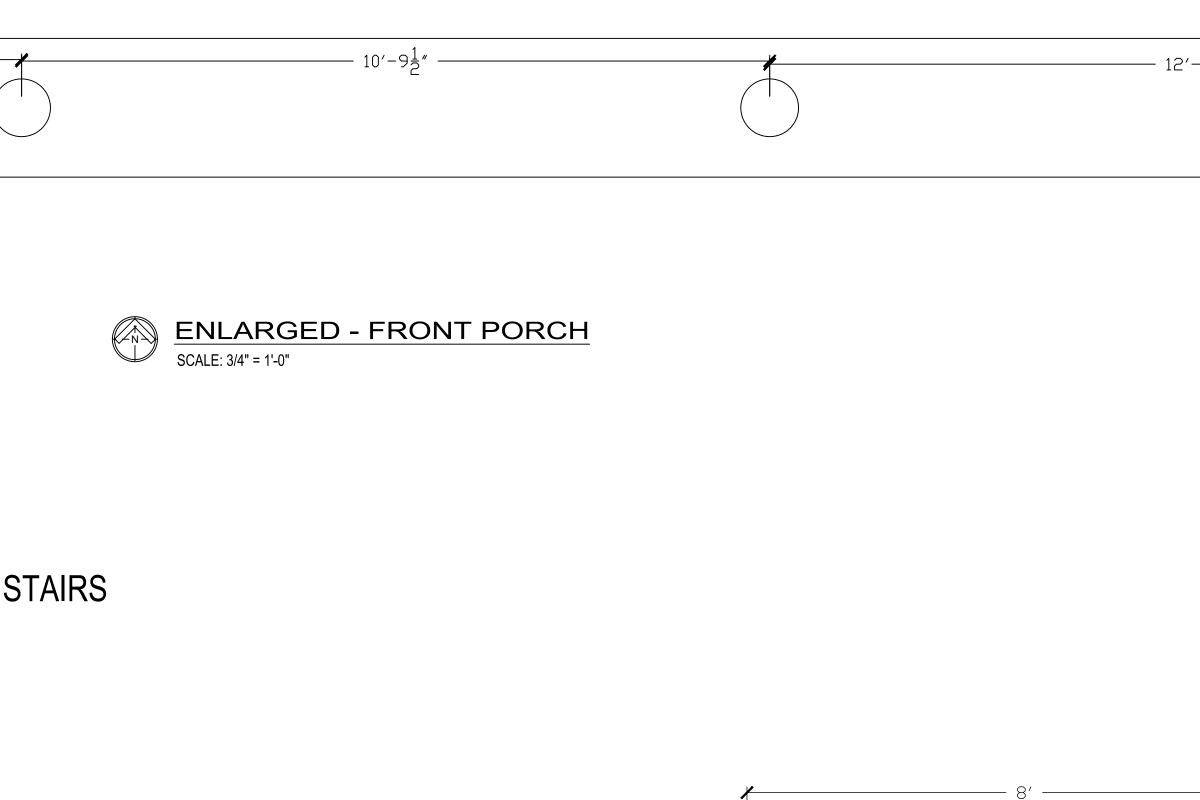






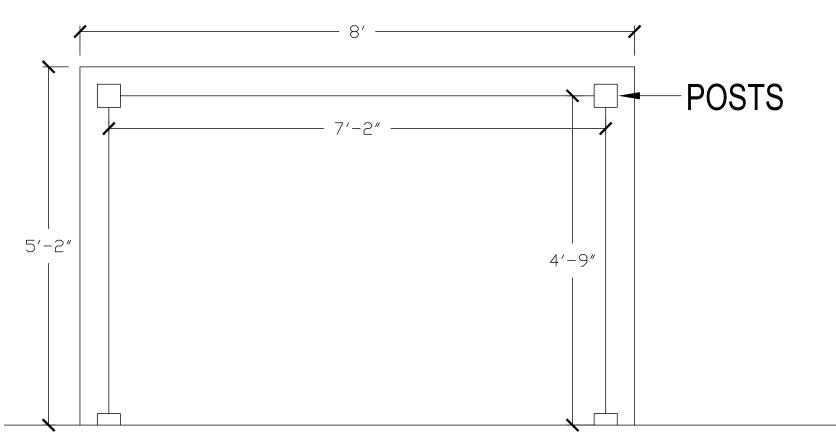


ENLARGED PLANE - BACK PORCH - FIRST LEVEL SCALE: 3/4 = 1'-0"

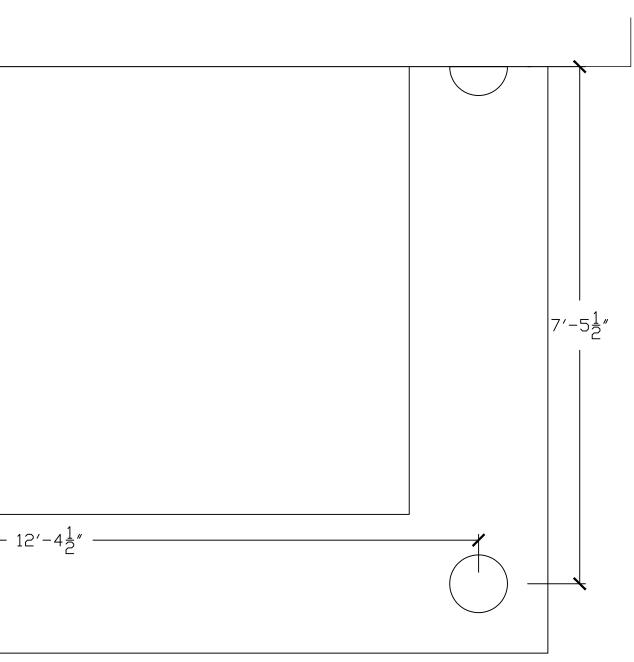


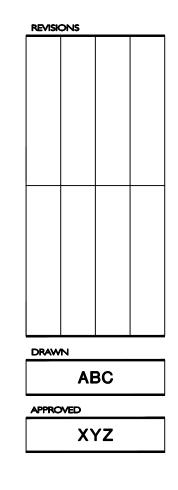
-POSTS

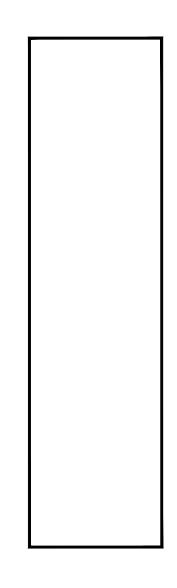
RAILING



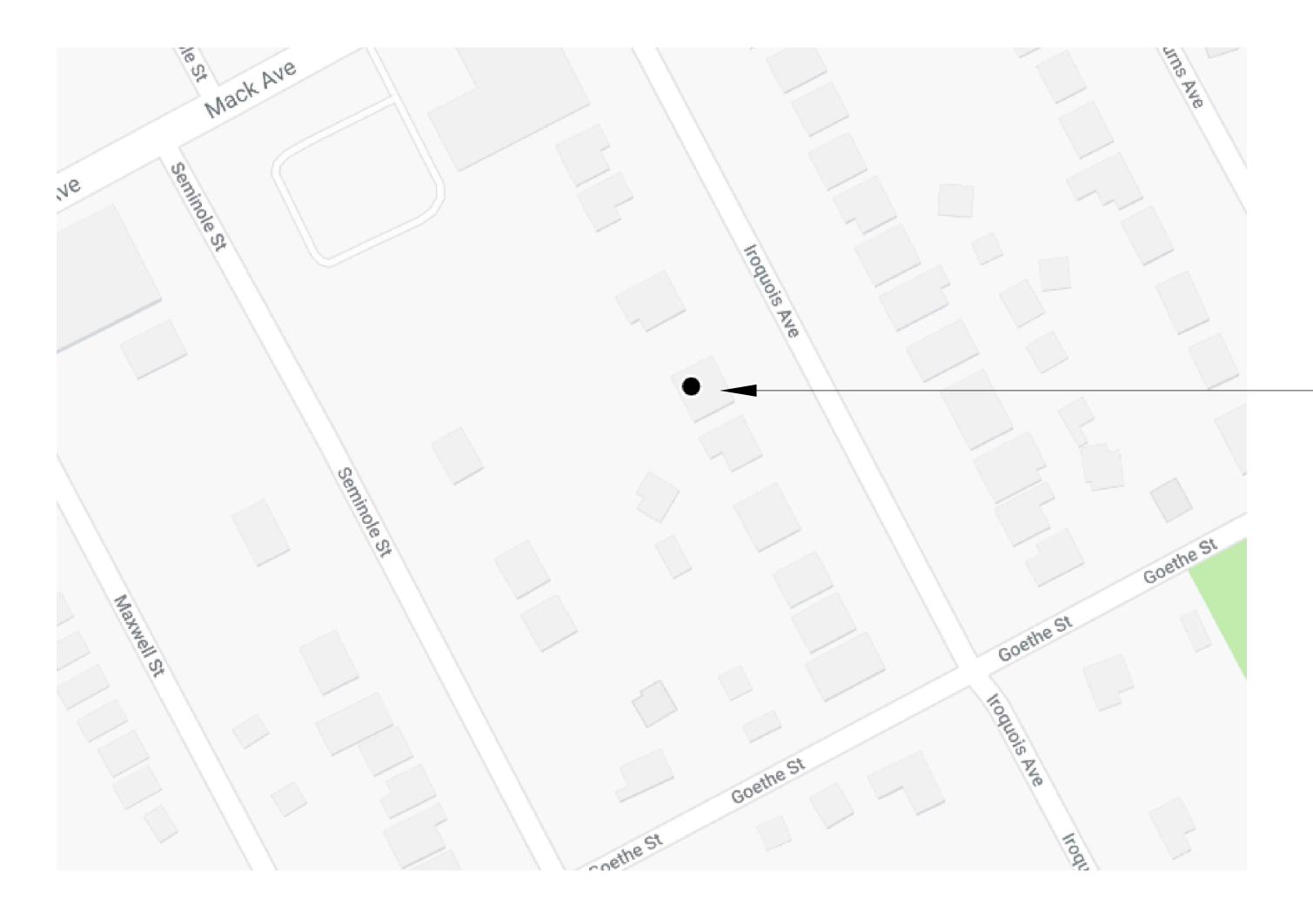
ENLARGED PLANE - BACK PORCH - SECOND LEVEL SCALE: 3/4 = 1'-0"







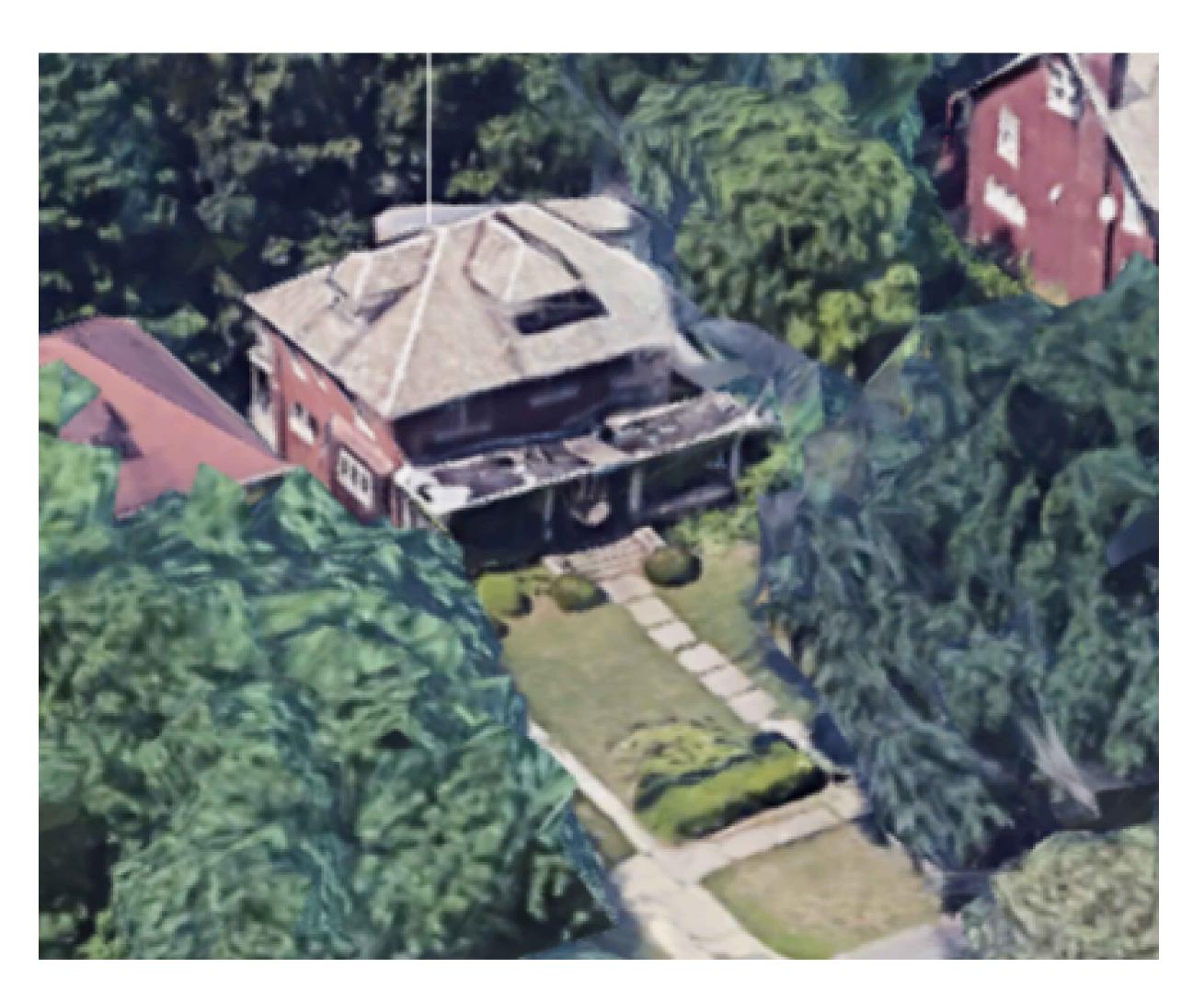
1	PROJECT
	PORCH RENOVATIONS 3457 IROQUOIS STREET DETROIT, MICHIGAN
	SHEET DESCRIPTION
	ENLARGED PLAN
	DATE
	06.05.19
	PROJECT NUMBER
	12345.00
	SHEET NUMBER
	EN-1

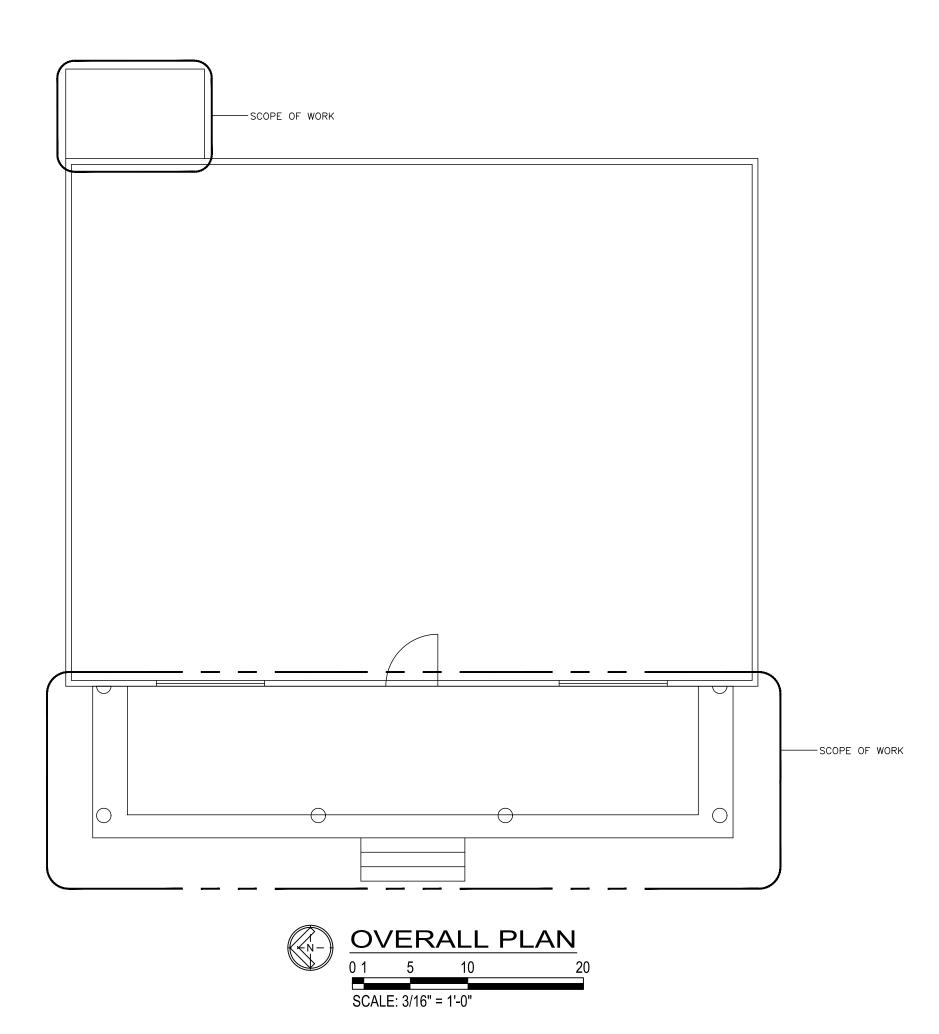


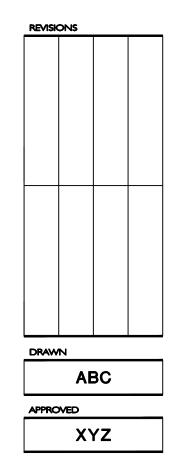


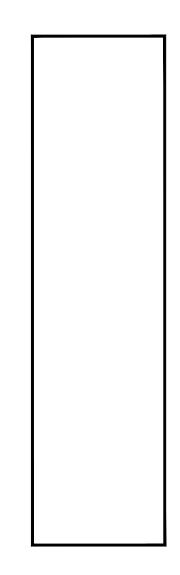
— 3457 IROQUOIS ST.



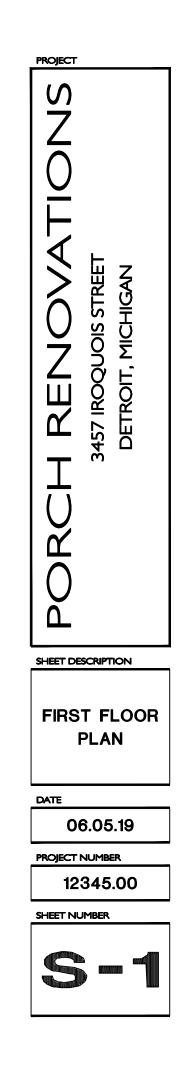


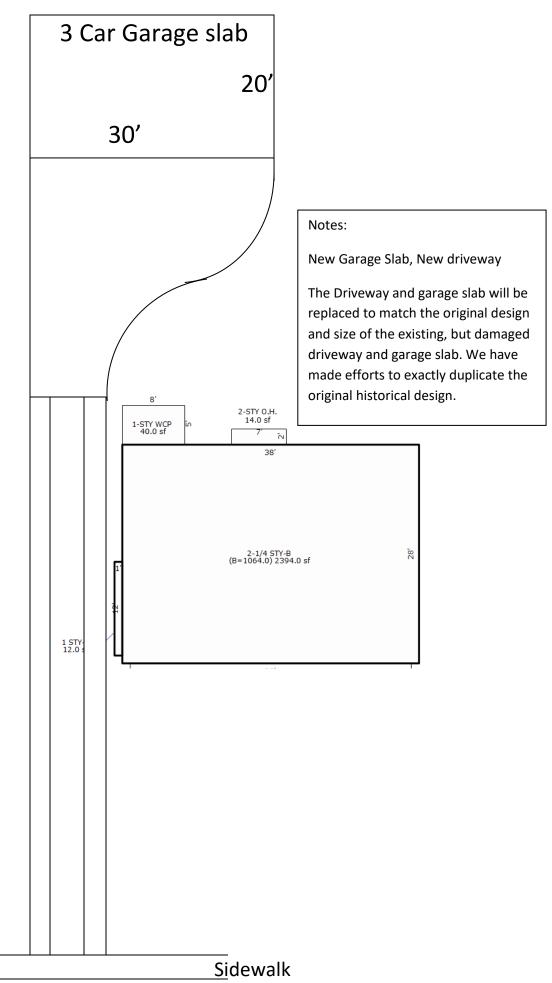


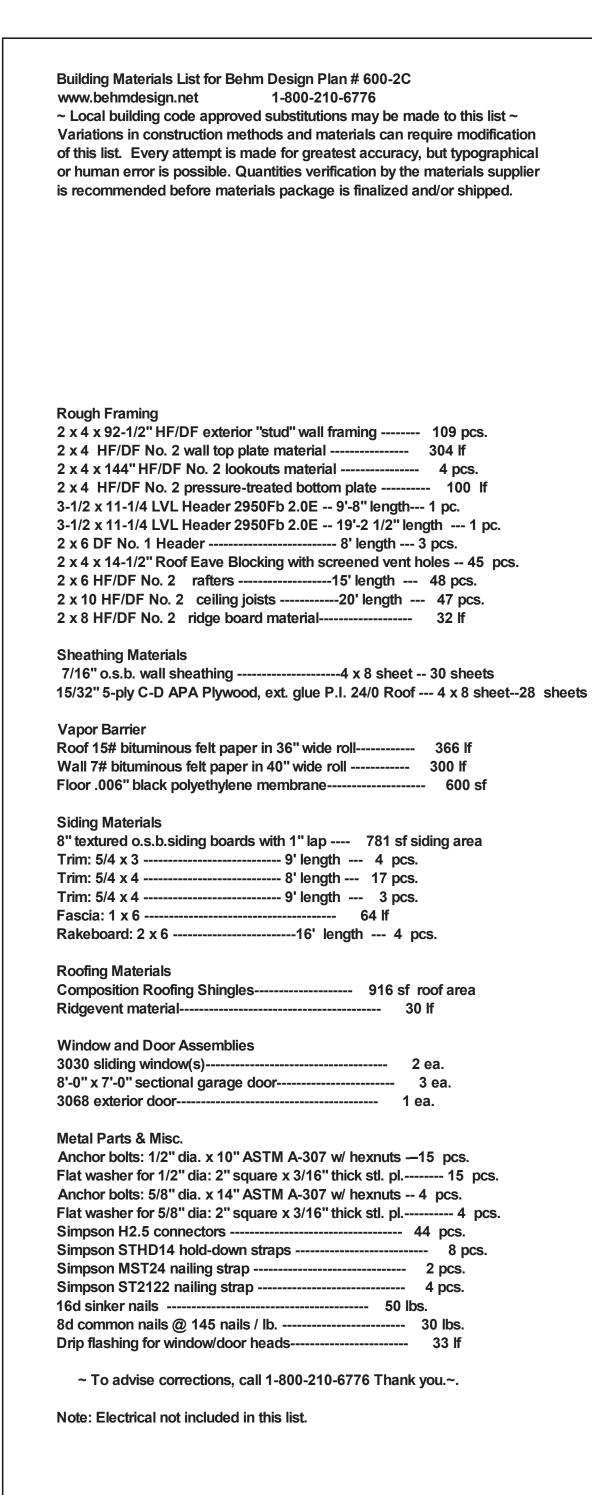




3D VIEW SCALE: NTS









Building Code Compliance

This planset was prepared to comply with the prescriptive requirements of the International Residential Code (IRC)

Parameters For Design Wind Speed: 115 mph ultimate

Wind Exposure: D

Seismic Category: A, B and C

Snow Load: 30# / sq. ft.

Building Categories and Data Occupancy Classification: "U"

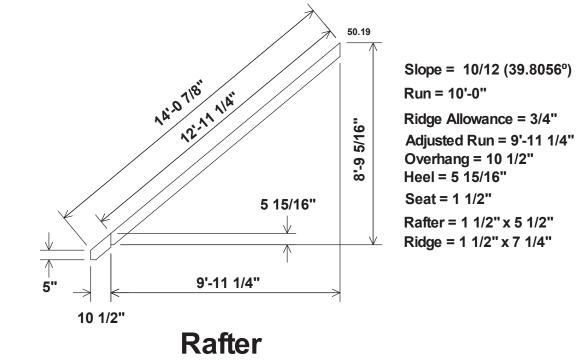
Construction Type: "V"

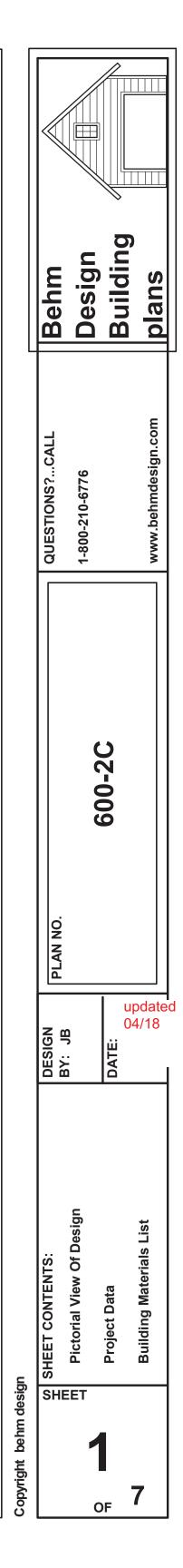
Grade-To-Ridge Height: 17'-6

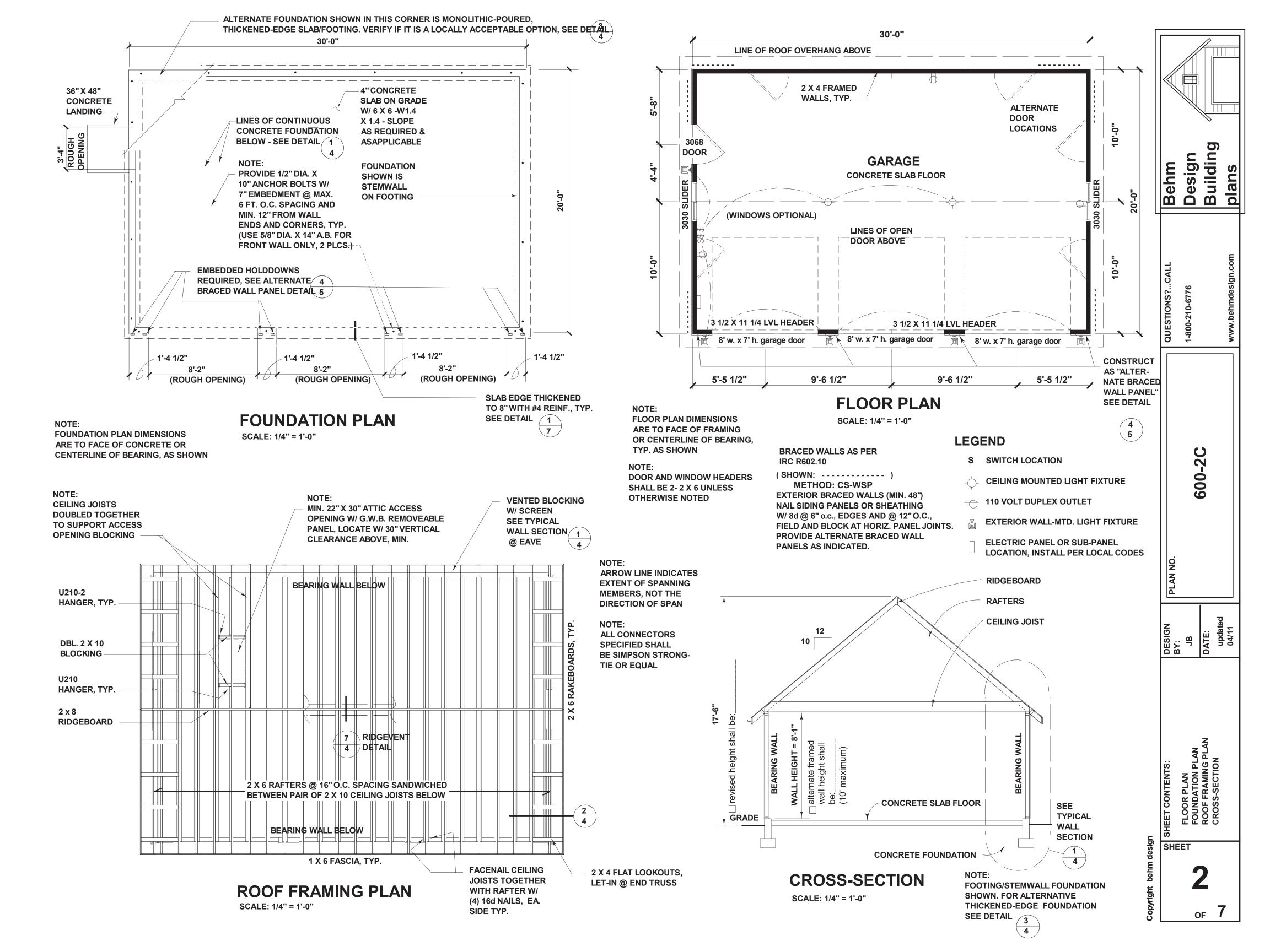
Gross Building Area: 600 sf

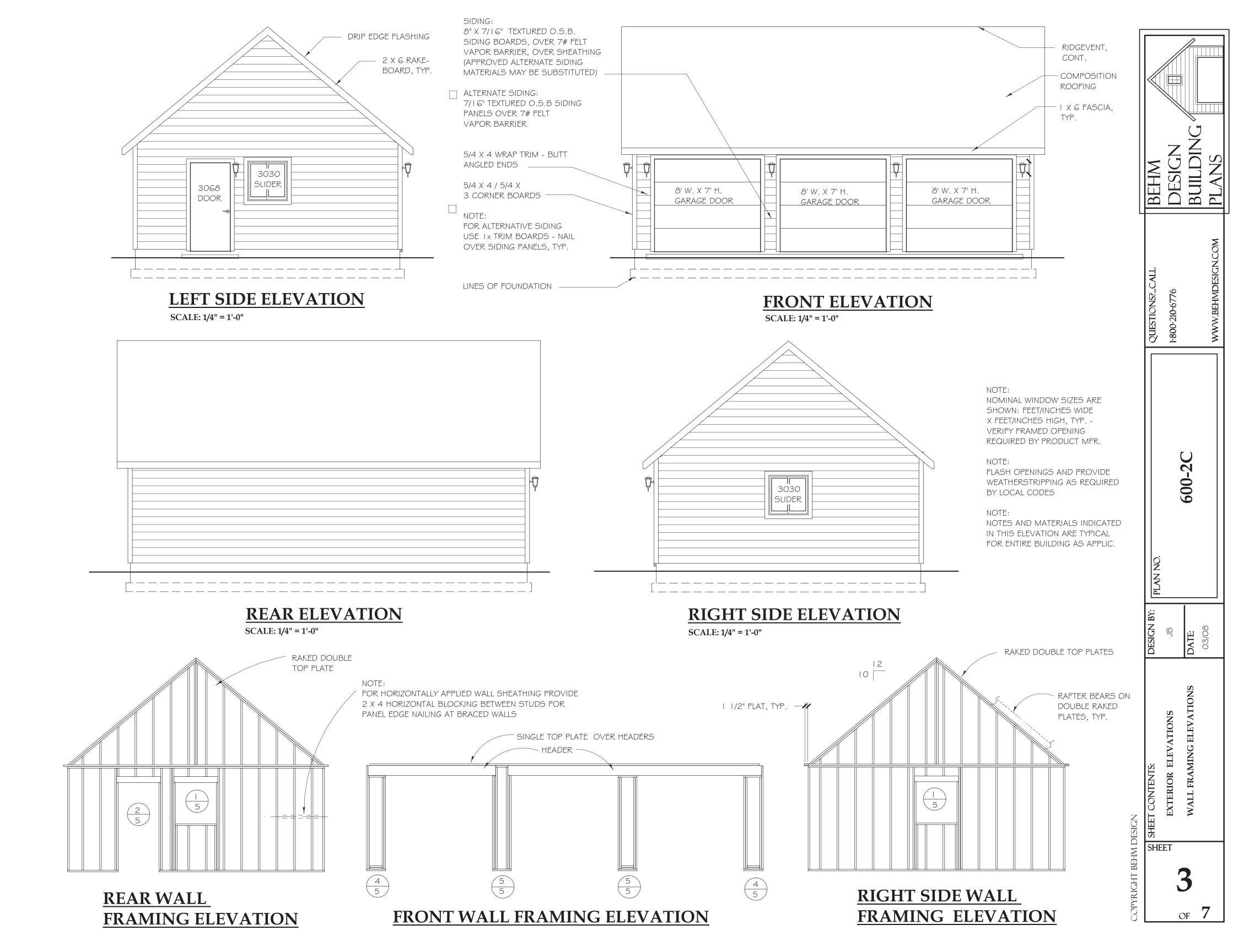
Compact Three Car Garage Plan #600-2C

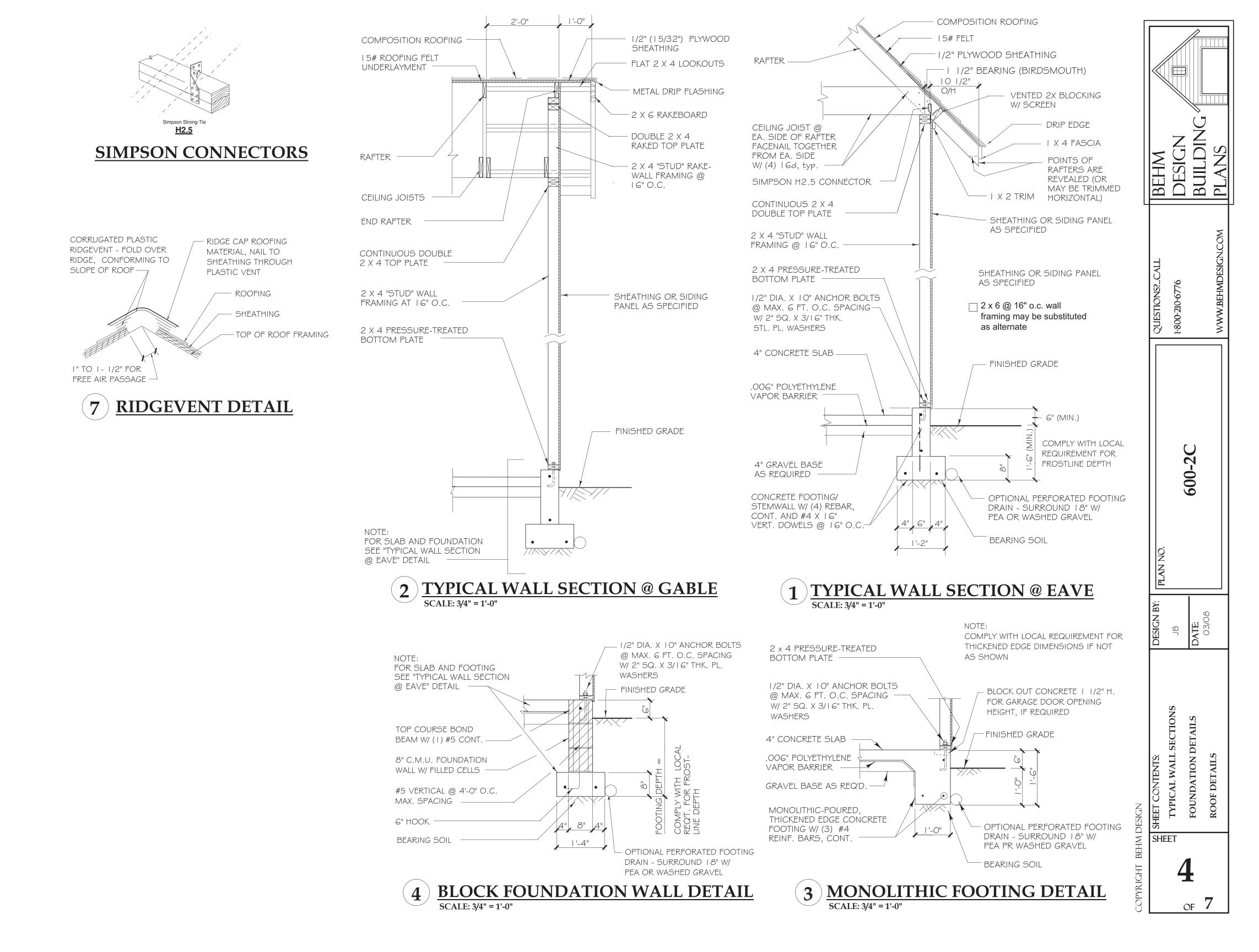
30' x 20'





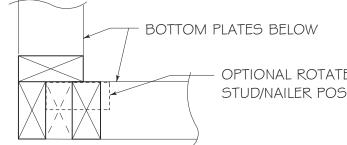




























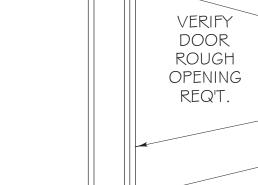


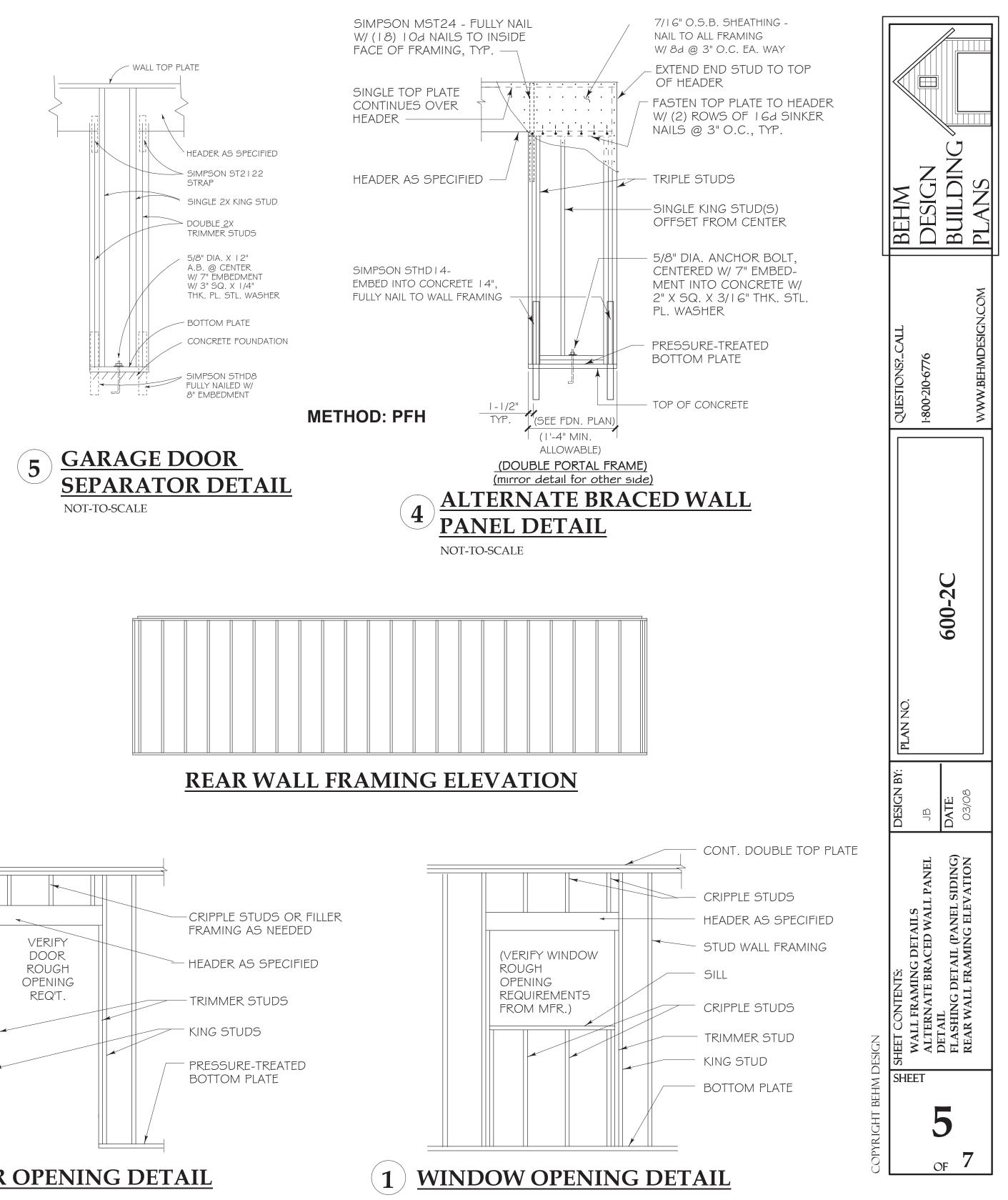




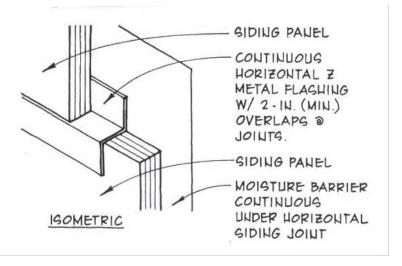


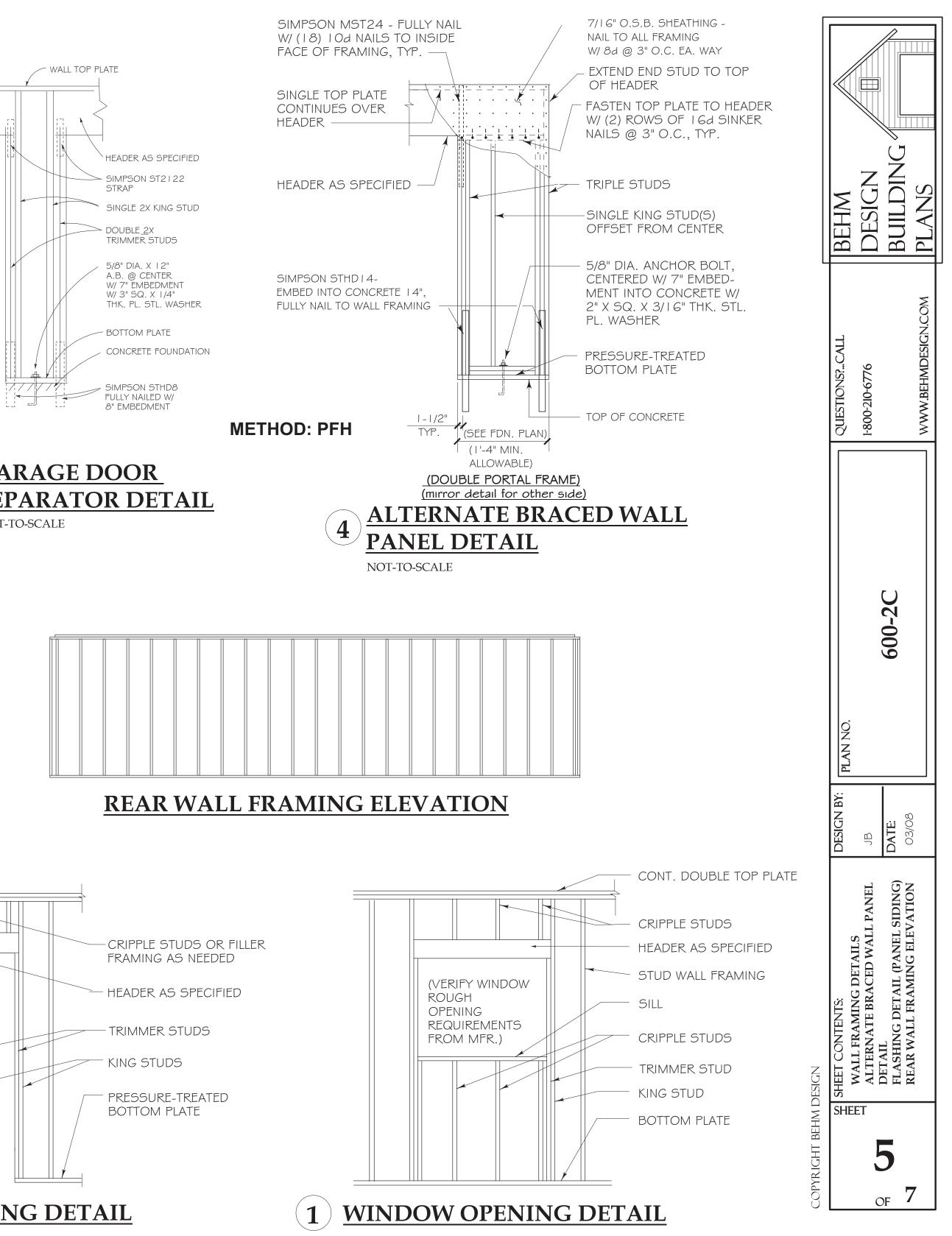


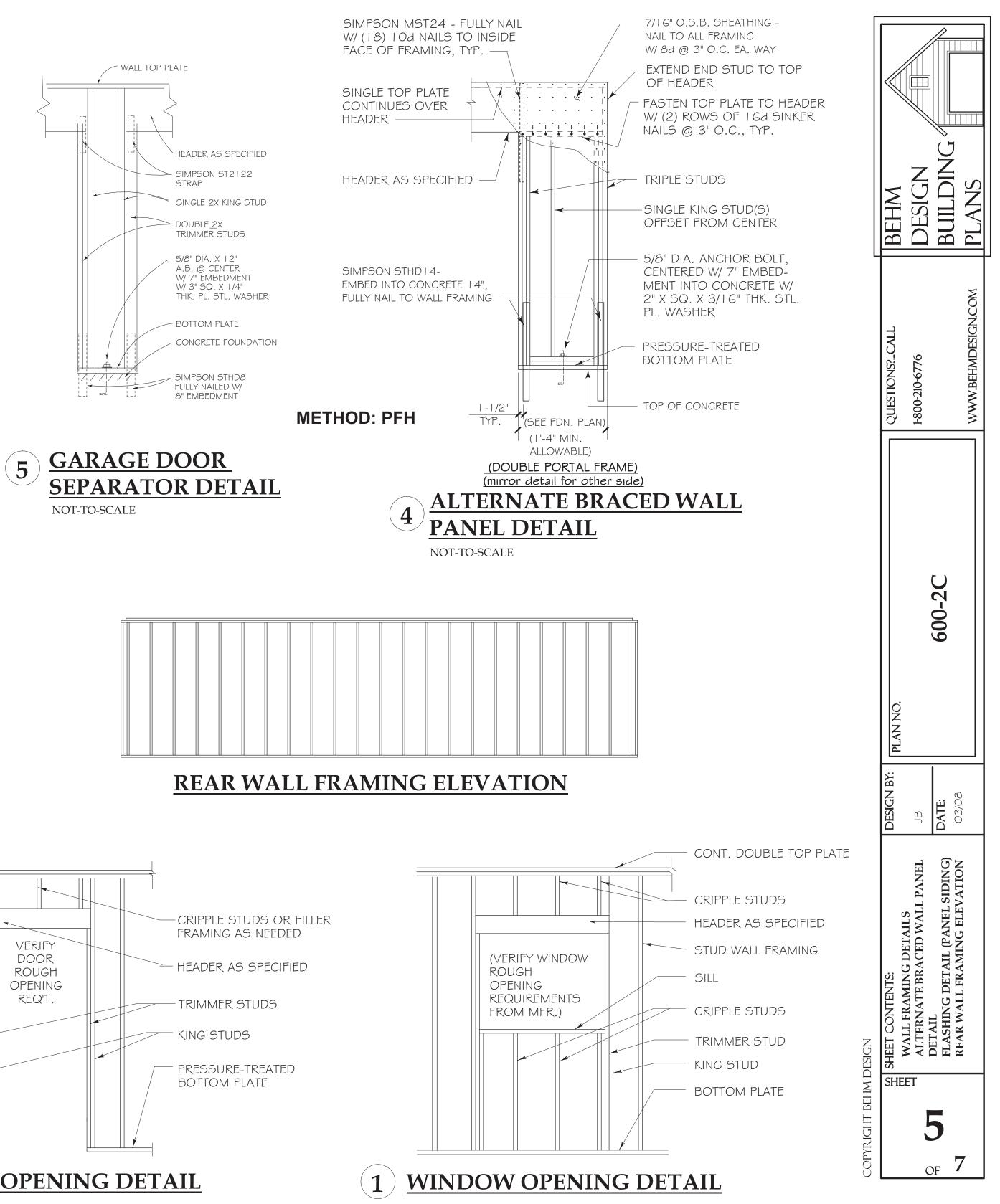


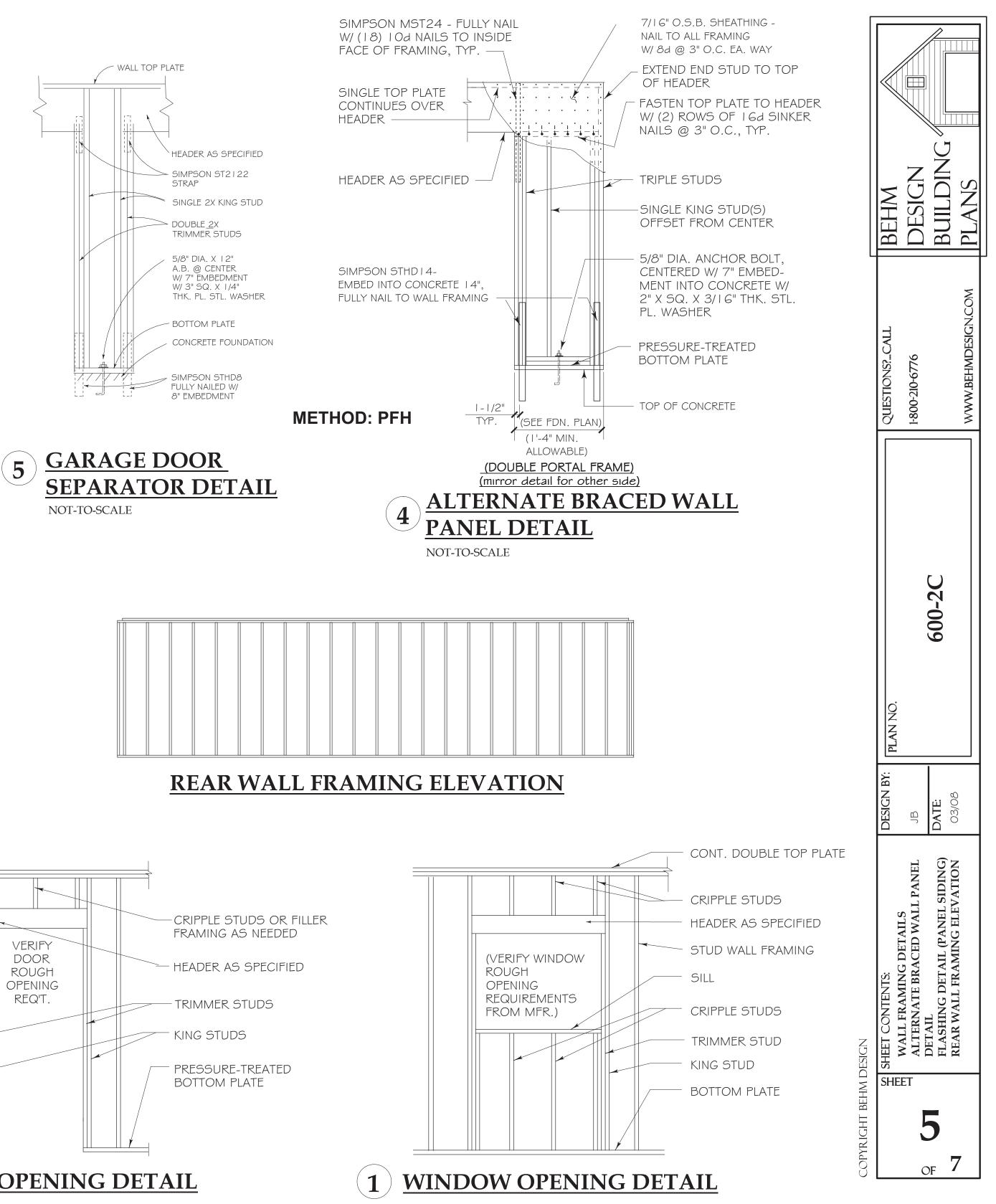


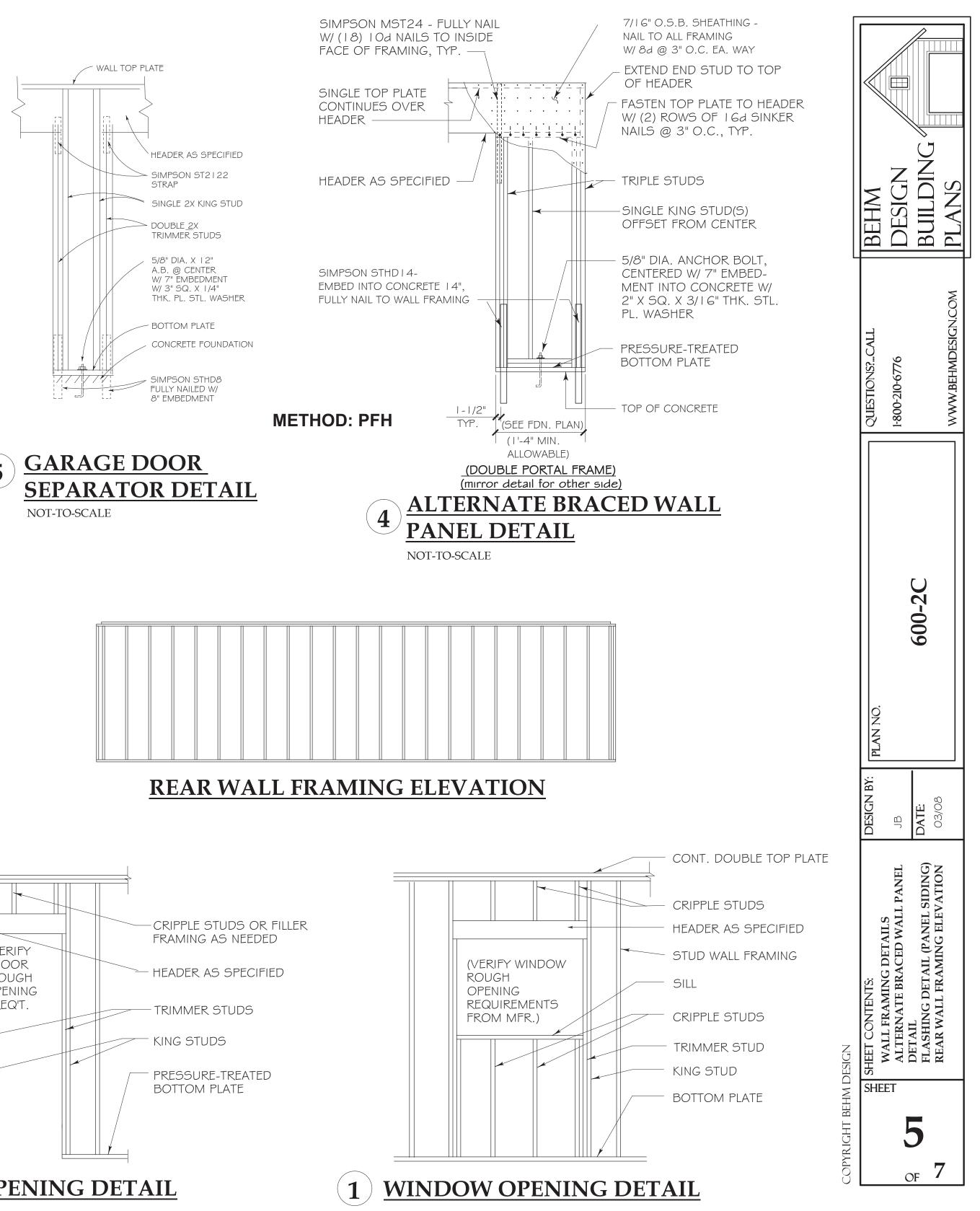


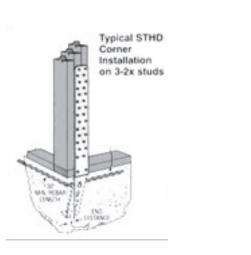




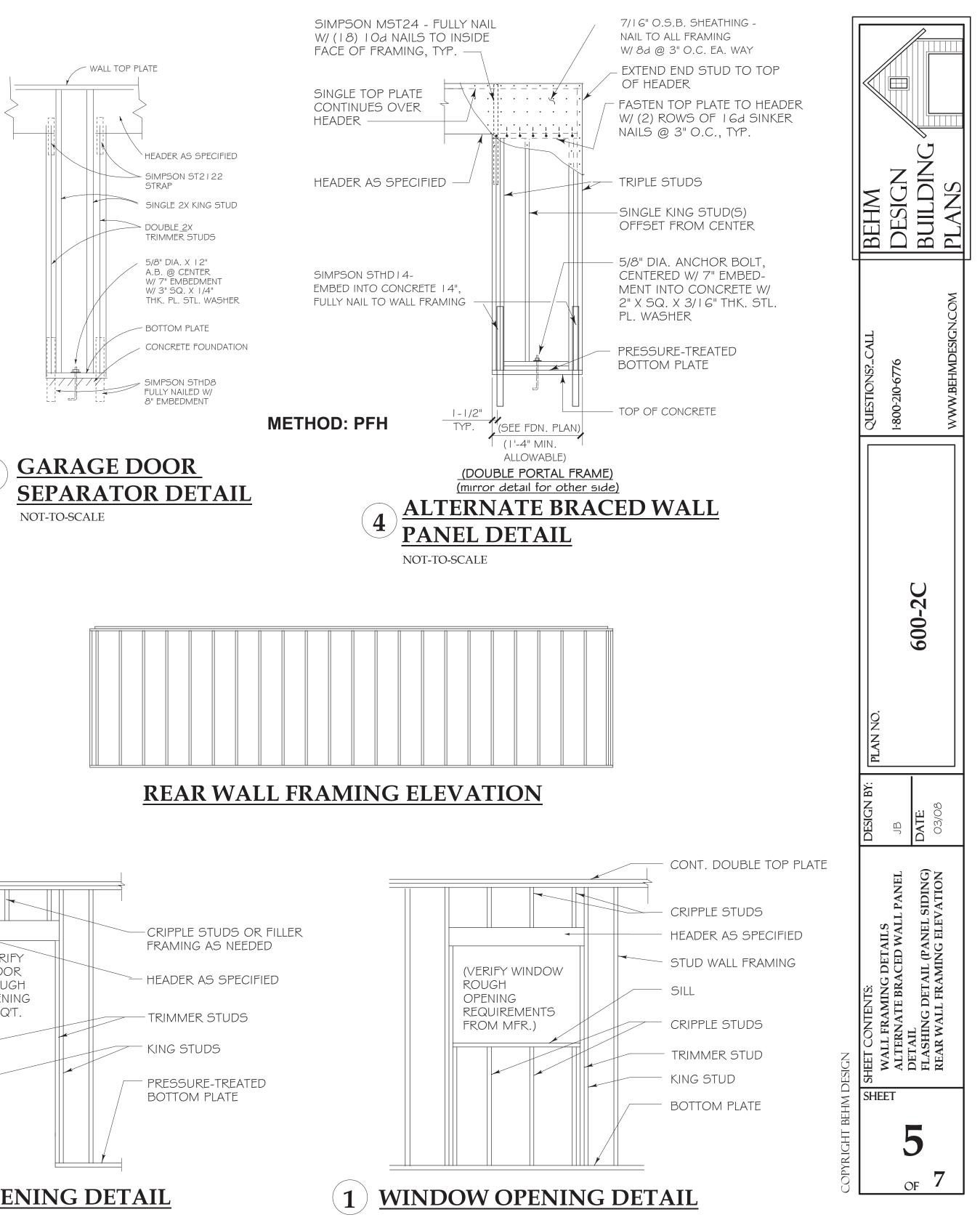








STHD HOLDOWNS



STRUCTURAL/GENERAL NOTES & SPECIFICATIONS

A. General

The following notes shall clarify and supplement the working drawings.

B. Codes & Standards International Residential Code (IRC) -

/ ACI-318; ACI SP-15 / M.B.M.A Manual (and comply with all local applicable codes as required by Building Official)

C. Live Loads

Roof......30 lbs/sf Floors.....40 lbs/sf Stairs & Exist 100 lbs/sf Wind......100 mph Seismic zone.....A, B, C

D. Soil & Foundation Data

1. Soil bearing data not available. Assumed soil bearing capacity = 1500 lbs/sf. 2. Extend all footings down to undisturbed soil of the specified strength with a minimum depth of 1'-6" below adjacent grade, or as required by local building official, based on local frost line depth.

3. Center all footings on columns and walls unless specifically dimensioned otherwise.

4. Compacted fill to be well graded and granular with not more than 5% passing a 200 sieve. Place in 8-inch loose lifts and compact to 95% modified AASHO density at optimum moisture.

E. Cast-In-Place Concrete and Reinforcing Steel

1. Concrete of the following 28-day strength: 5 sack cement/cy (min. 2500 psi); max. 6 gal water/sack for all structural concrete, including foundations and slabs on grade. Maximum sized aggregate 3/4". Maximum slump 4". Add Master Builders Pozzolith per manufacturer's recommendations to all concrete except footings. Concrete for exterior walks to be air entrained (5% air).

2. Reinforcing steel ASTM A-615 grade 40/60. Use grade 40 for temperature steel, stirrups and dowels. Detail, fabricate and place in accordance with the latest edition of A.C.I. 'Manual Of Standard Practice''.

3. Concrete cover on reinforcing steel (clear dimensions):

Suspended slabs.....³/₄" Beams & columns (to ties).....1 ¹/₂"

Non-exposed vertical faces.....1" Vertical faces exposed to earth or weather..2"

Slabs-on-grade (from top).....1 1/2"

4. Lap all field splices 24 diameters with minimum of 12". Bend outer wall footing bars 12 inches or use corner bars at all corners and wall intersections. 5. Provide min. one continuous #4 bar at top and bottom of foundation walls w/ #4 at 12" o.c. where wall height exceed two feet. Provide min. two continuous #4 bars in footings. Dowel foundation walls to footings w/ #4 x 1'-6" long @ 16" o.c. Embedded 6" into footing. (No shear keys required)

6. Reinforce around wall and slab openings, with sides of 12" or greater, with two #5 bars extending 24" beyond corners on all four sides. Provide one extra #5 diagonal bar, 4'-0" long, at each corner.

7. Slabs-on-grade: Roll sub grade and moisten before pour. Saw cut crack control joints within 24 hours of pour or install Zip-Strip, with maximum of 12'-0" for 4" non-reinforced slabs and 40'-0" for reinforced slabs. (min. reinforcing: w6 x 6 - w1.4 x 1.4, supported)

8. Vibrate all concrete. Segregation of materials to be prevented. Test cylinders not required.

9. Place no fill against foundation or basement walls until floors are in place or walls have been adequately shored to resist lateral earth pressures.

F. Masonry (as applicable)

- 1. Hollow masonry units: F'M=1350 (half & half c.m.u.) Mortar type S: 1 pc, ¹/₂ lime putty, 4 sand
- Grout: 2000 psi pea gravel concrete (7 sack)
- 2. Reinforcing steel: ASTM A-615, grade 40. 3. Place grout in lifts no greater than 4'-0" height.

4. Wall reinforcing:

.....6" walls: #4 vertical @ 48" o.c. w/ #9 wire horiz. Joint reinf. @ 8" o.c.

.....8" walls: #5 vertical @ 48" o.c. w/ 3/16" dia. wire horiz. Joint reinf. @ 8" o.c. Install two bars in corners, wall intersections, wall endings and around openings. Lap all bars 20 inches and joint reinforcing, 12 inches. Use corner bars for outer bars in bond beams and at intersecting walls.

5. Anchor brick veneer to wood framed wall as detailed with 22 ga. X 7/8" x 7" galvanized corrugated wall ties @ 16" o.c. ea. Way with one Simpson n20a nail. G. Timber and Wood Framing

1. Substitution of wood species identified herein may be as approved by local Building Official and material strength and capacities shall equal or exceed that of the species identified herein.

2. All lumber to be graded per book 16 of the West Coast Lumber Inspection Bureau:

HF/DF no. 2 for joists, rafters, light framing, plates and bracing DF no. 1 for posts and beams

HF/DF "stud" for stud wall framing

4. Joists and rafters (lumber) shall have 2" nominal thick solid blocking at supports.

3. Comply with the latest edition of the NFPA 'National Design Specification" as modified by the applicable code for all structural timber requirements.

5. Spike laminated members together w/ 10d nails @ 12" o.c., staggered. Splice laminations at supports only.

6. Provide cut washers for all bolts bearing on wood.

7. All nails shall be common wire nails.

8. Glue-laminated timbers, Douglas Fir, A.I.T.C. grading: combination 24F-V3 for simple spans: 24F-V8 for cantilevered spans. Dry conditions of use. Architectural appearance grade where exposed to view. Fabrication plant A.I.T.C. inspected./ Wrap individual members.

9. Plywood: Roof sheathing to be 15/32'"'C-D int-apa plywood with exterior glue, P.I. 24/0 (use 5-ply for panelized roofs) Nailing 8d @ 6" o.c. at panel edges and 8d @ 12" o.c. at intermediate supports. Sub-flooring to be 3/4" C-D-apa plywood with exterior glue, P.I. 32/16. Use T&G if no underlayment. Glue and nail with 10d @ 6" o.c. at panel edges and @ 10" at intermediate supports.

10. Pre-fabricated trussed members to be designed by applicable state licensed engineer in accordance with requirements shown in the drawings. Contractor shall verify as-framed dimensions and conditions prior to truss fabrication and coordinate as required. All engineering data shall be made available for submittal to the Building Official as required.

H. Structural Steel

1. All steel, except tubing: ASTM A-36. Pipe: ASTM A-53, Type E or S, grade B. Tubular section: ASTM A500, grade B. All bolts: ASTM A-307. 2. All fabrication, erection and detailing shall be in accordance with the latest edition of the 'Manual Of Steel Construction" of the American Institute Of Steel Construction.

3. All welding by WABO certified welders in accordance with the 'Welding Handbook" by the American Welding Society.

4. All welds 3/16" min. continuous fillet welds using ASWA5, E70XX electrodes.

5. Provide washers on all bolted connections.

6. All steel not embedded in concrete or masonry shall receive one shop coat of an approved primer paint. Apply two coats of heavy asphaltic paint to all steel exposed to earth.

7. Furnish complete shop drawings prior to fabrication.

I. Miscellaneous

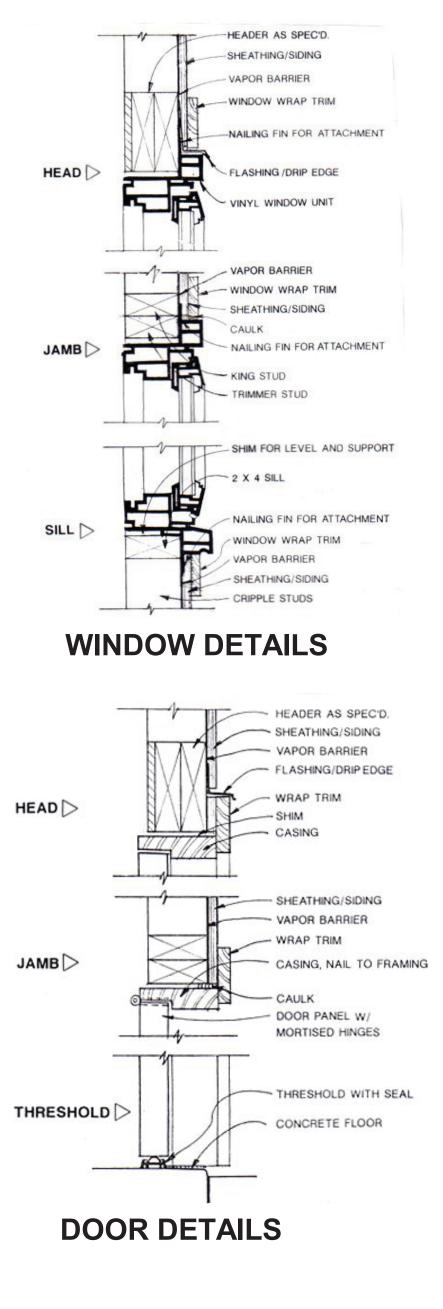
1. Contractor shall verify all site conditions and dimensions in field. 2. Provide temporary bracing as required until all permanent connections

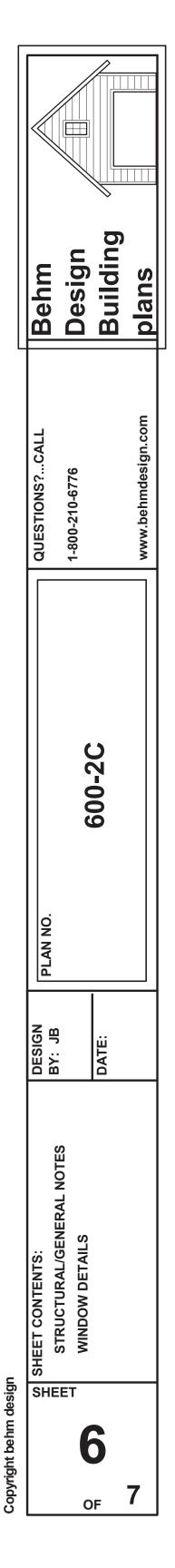
and stiffening have been installed. 3. Verify size and locations of all openings in floor, roof and walls and coordinate with electrical and mechanical work.

4. Pre-fabricated items shall be handled and installed in accordance with manufacturers' recommendations. Pre-fabricated

assemblies shall be coordinated with any as-built conditions by the contractor regarding dimensions, clearance and applicable building code requirements. 5. All HVAV equipment shall be determined by owner and/or contractor specific to this project and comply with all applicable codes. Performance data and distribution layout shall be provided by mechanical subcontractor. Submittals shall be coordinated by the contractor as required by the Building Official.

6. It is the intent of these drawings and specifications to comply with the requirements of the applicable Building Code and all other relevant codes and ordinances. Any discrepancies, omissions or errors shall be brought to the attention of the designer for clarification or correction before beginning the work. It is the responsibility of the general contractor to seek clarification or correction if needed.





			IREMENTS FO		3) RUCTURAL PA WIND PRESS				
MINIMUM NAIL		MINIMUM WOOD		MAXIMUM	PANEL NAIL SPACING		MAXIMUM WIND SPEED (mph)		
Size	Penetration (inches)	STRUCTURAL PANEL SPAN RATING	PANEL THICKNESS	WALL STUD SPACING	Edges	Field		exposure ca	
6d Common	. ,		(inches)	(inches)	(inches o.c.)	(inches o.c.)	В	C	D
(2.0" × 0.113")	1.5	24/0	3/8	16	6	12	110	90	85
8d Common	1.75	24/16	7/16	16	6	12	130	110	105
$(2.5'' \times 0.131'')$				24	1		110	0.0	0.5
or SI: 1 inch = 25. Panel strength axis strength axis perper Table is based on w tion R602.10.	parallel or perpe endicular to supp ind pressures act	ndicular to support ports. ing toward and awa	s. Three-ply plyw y from building s	vood sheathing w surfaces per Sect	ion R301.2. Later	ral bracing requir	ements shall	be in accorda	nce with Sec-
Panel strength axis strength axis perpe Table is based on w	parallel or perpe endicular to supp ind pressures act unels with span ra	ndicular to support orts. ing toward and awa ttings of Wall-16 or to panels with a 24.	s. Three-ply plyw y from building s Wall-24 shall be (16 span rating. V	vood sheathing w surfaces per Sect permitted as an a Wall-16 and Plyw	vith studs spaced ion R301.2. Later lternate to panels vood siding 16 oc	more than 16 inc ral bracing requir s with a 24/0 span shall be used wit	hes on center ements shall rating. Plyw	shall be appli be in accorda	ed with panel nce with Sec- ed 16 oc or 24
Panel strength axis strength axis perper Table is based on w tion R602.10. Wood Structural Pa oc shall be permitte	parallel or perpe endicular to supp ind pressures act unels with span ra	ndicular to support orts. ing toward and awa ttings of Wall-16 or to panels with a 24.	s. Three-ply plyw y from building s Wall-24 shall be (16 span rating. V	vood sheathing w surfaces per Sect permitted as an a Wall-16 and Plyw	vith studs spaced ion R301.2. Later lternate to panels vood siding 16 oc	more than 16 inc. ral bracing requir s with a 24/0 span shall be used with HEATHING ^a STUD SP	hes on center ements shall rating. Plyw h studs space ACING	shall be appli be in accorda	ed with panel nce with Sec- ed 16 oc or 24
Panel strength axis strength axis perper Table is based on w tion R602.10. Wood Structural Pa oc shall be permitte	parallel or perpe ndicular to supp rind pressures act unels with span ra ed as an alternate	ndicular to support orts. ing toward and awa ttings of Wall-16 or to panels with a 24 ALLOWABL	s. Three-ply plyw y from building s Wall-24 shall be (16 span rating. V	wood sheathing w surfaces per Sect permitted as an a Wall-16 and Plyw ABLE R602.3(4 PARTICLEBC	vith studs spaced ion R301.2. Later lternate to panels vood siding 16 oc	more than 16 inc ral bracing requin with a 24/0 span shall be used win HEATHING ^a STUD SP (inch	hes on center ements shall rating. Plywe h studs space ACING as)	shall be appli be in accorda	ed with panel nce with Sec- ed 16 oc or 24 n of 16 inches
Panel strength axis strength axis perpu- Table is based on w tion R602.10. Wood Structural Pa oc shall be permitte on center.	parallel or perpe endicular to supp rind pressures act unels with span ra ed as an alternate	ndicular to support orts. ing toward and awa utings of Wall-16 or to panels with a 24	s. Three-ply plyv y from building s Wall-24 shall be (16 span rating, V E SPANS FOR	wood sheathing w surfaces per Sect permitted as an a Wall-16 and Plyw ABLE R602.3(4 PARTICLEBC	vith studs spaced ion R301.2. Later lternate to panels vood siding 16 oc	more than 16 inc ral bracing requin with a 24/0 span shall be used win HEATHING ^a STUD SP (inch	hes on center ements shall rating. Plywe h studs space ACING as)	shall be appli be in accorda bod siding rat d a maximun	ed with panel nce with Sec- ed 16 oc or 24 n of 16 inches

For SI: 1 inch = 25.4 mm. a. Wall sheathing not exposed to the weather. If the panels are applied horizontally, the end joints of the panel shall be offset so that four panels corners will not meet. All panel edges must be supported. Leave a '/₁₆-inch gap between panels and nail no closer than ³/₈ inch from panel edges.

	FAS	TABLE R602.3(1) TENER SCHEDULE FOR STRUCTU	JRAL MEMBERS			TABLE R602.3(2) ALTERNATE ATTACHMENTS			
ITEM	DESCRIPTION O	F BUILDING ELEMENTS	NUMBER AND TYPE OF FASTENER ^{a, b, c}	SPACING OF FASTENERS	NOMINAL MATERIAL THICKNESS	DESCRIPTION ^{6, 5} OF FASTENER AND LENGTH	SPACING ^c O Edges	F FASTENERS	
		Roof	1		(inches)	(inches)	(inches)	(inches)	
1	Blocking between joists or raf		$3-8d (2^{1}/_{2}'' \times 0.113'')$		Wood structural	panels subfloor, roof and wall sheathing to framing and particles Staple 15 ga. $1^{3}/_{4}$	4	aming [.]	
2	Ceiling joists to plate, toe nail	parallel rafter, laps over partitions,	3-8d $(2^{1}/_{2}'' \times 0.113'')$		up to 1/2	$0.097 - 0.099$ Nail $2^{1}/_{4}$	3	6	
3	face nail	saraher fatter, taps over partitions,	3-10d			Staple 16 ga. 1 ³ / ₄	3	6	
4	Collar tie rafter, face nail or 1 ¹	${}^{1}/_{4}$ " × 20 gage ridge strap	3-10d (3" × 0.128")		101 151	0.113 Nail 2	3	6	0
5	Rafter to plate, toe nail Roof rafters to ridge, valley or	r hin rafters:	2-16d $(3^{1}/_{2}'' \times 0.135'')$		¹⁹ / ₃₂ and ⁵ / ₈	Staple 15 and 16 ga. 2 0.097 - 0.099 Nail 2 ¹ / ₄	4	8	
6	toe nail	inp futtors.	4-16d $(3^{1}/_{2}^{"} \times 0.135^{"})$ 3-16d $(3^{1}/_{2}^{"} \times 0.135^{"})$			Staple 14 ga. 2	4	8	Behm Design Buildin
		Wall	$3-100(37_2 \times 0.133)$		$^{23}/_{32}$ and $^{3}/_{4}$	Staple 15 ga. 1 ³ / ₄	3	6	llé si lir
7	Built-up corner studs		10d (3" × 0.128")	24″ o.c.	732 and 74	0.097 - 0.099 Nail 2 ¹ /4	4	8	lla o d i
8	Built-up header, two pieces wi		$16d (3^{1}/_{2}'' \times 0.135'')$	16" o.c. along each edge		Staple 16 ga. 2 Staple 14 ga. 2 ¹ / ₄	4 4	8	
9	Continued header, two pieces Continuous header to stud. toe		$\frac{16d (3^{1}/_{2}'' \times 0.135'')}{4-8d (2^{1}/_{2}'' \times 0.113'')}$	16" o.c. along each edge		$0.113 \text{ Nail } 2^{1}/_{4}$	3	6	
10	Double studs, face nail		$\frac{4-8d(27_2 \times 0.113)}{10d(3'' \times 0.128'')}$	24" o.c.	1	Staple 15 ga. 2 ¹ / ₄	4	8	
12	Double top plates, face nail		10d (3" × 0.128")	24" o.c.		0.097 - 0.099 Nail 2 ¹ / ₂	4	8	
13	Double top plates, minimum 4	48-inch offset of end joints,	8-16d $(3^{1}/_{2}'' \times 0.135'')$	_	NOMINAL MATERIAL THICKNESS	DESCRIPTION ^{a,b} OF FASTENER AND LENGTH	Edges	DF FASTENERS Body of panel ^d	
14	face nail in lapped area Sole plate to joist or blocking,	face nail	$16d (3^{1}/_{2}" \times 0.135")$	16" o.c.	(inches)	(inches)	(inches)	(inches)	JA SA
15	Sole plate to joist or blocking		$3-16d (3^{1}/_{2}" \times 0.135")$			Ploor underlayment; plywood-naroboard-particleb Plywood	oaru		QUESTIONS?CALL 1-800-210-6776
		<u> </u>	$3-8d (2^{1}/_{2}'' \times 0.113'')$			1 ¹ / ₄ ring or screw shank nail—minimum	3	6	677
16	Stud to sole plate, toe nail		or 2-16d $3^{1/2}$ " × 0.135")		$^{1}/_{4}$ and $^{5}/_{16}$	$12^{1}/_{2}$ ga. (0.099") shank diameter Staple 18 ga., $7/_{8}$, $3/_{16}$ crown width		5	STIONS)-210-67
17	Top or sole plate to stud, end	nail	2-16d (3 ¹ / ₂ " × 0.135")		11/ 3/ 15/ and 1/	$1^{1}/_{4}$ ring or screw shank nail—minimum	6	8e	ES1
18	Top plates, laps at corners and	d intersections, face nail	2-10d (3" × 0.128")		$11_{32}, 3_{8}, 15_{32}, \text{ and } 1_{2}$	$12^{1}/_{2}$ ga. (0.099") shank diameter	0	0	QUESTIO 1-800-210
19	1" brace to each stud and plate	e, face nail	2-8d $(2^{1}/_{2}'' \times 0.113'')$ 2 staples $1^{3}/_{4}''$		19_{132} , 5_{18} , 23_{132} and 3_{14}	$1^{1/2}$ ring or screw shank nail—minimum $12^{1/2}$ ga. (0.099") shank diameter	6	8	
20	$1'' \times 6''$ sheathing to each bear	ring, face nail	$2-8d (2^{1}/_{2}'' \times 0.113'')$		327 . 07 . 32	Staple 16 ga. $1^{1}/_{2}$	6	8	
		eane e pour out pour	$\frac{2 \text{ staples } 1^{3}/_{4}^{"}}{2-8d (2^{1}/_{2}^{"} \times 0.113^{"})}$			Hardboard ^f $1^{1}/_{2}$ long ring-grooved underlayment nail	6	6	
21	$1'' \times 8''$ sheathing to each bear	ring, face nail	$3 \text{ staples } 1^{3}/_{4}^{"}$		0.200	4d cement-coated sinker nail	6	6	
22	Wider than $1'' \times 8''$ sheathing	to each bearing, face nail	3-8d $(2^{1}/_{2}'' \times 0.113'')$ 4 staples $1^{3}/_{4}''$	_	0.200	Staple 18 ga., $\frac{7}{8}$ long (plastic coated)	3	6	
		Floor	1 Supres 174			Particleboard			
23	Joist to sill or girder, toe nail		$3-8d (2^{1}/_{2}'' \times 0.113'')$		1/4	4d ring-grooved underlayment nail Staple 18 ga., ⁷ / ₈ long, ³ / ₁₆ crown	3	6	
24	$1'' \times 6''$ subfloor or less to each	h joist, face nail	2-8d $(2^{1}/_{2}" \times 0.113")$ 2 staples $1^{3}/_{4}"$			fd ring-grooved underlayment nail	6	10	
25	2" subfloor to joist or girder, I	blind and face nail	2-16d $(3^{1}/_{2}" \times 0.135")$		3/8	Staple 16 ga., $1^{1}/_{8}$ long, $3^{3}/_{8}$ crown	3	6	ပ
26	Rim joist to top plate, toe nail	l (roof applications also)	8d (2 ¹ / ₂ " × 0.113")	6″ o.c.	1/2, 5/	6d ring-grooved underlayment nail	6	10	600-2C
27	2" planks (plank & beam – flo	oor & roof)	2-16d (3 ¹ / ₂ " × 0.135")		For SI: 1 inch = 25.4 mm.	Staple 16 ga., 17/8 long, 7/8 crown		6	ġ
28	Built-up girders and beams, 2 Ledger strip supporting joists	-	10d $(3'' \times 0.128'')$ 3-16d $(3^{1}/_{2}'' \times 0.135'')$	Nail each layer as follows: 32" o.c. at top and bottom and staggered. Two nails at ends and at each splice. At each joist or rafter	 a. Nail is a general description and m b. Staples shall have a minimum crow c. Nails or staples shall be spaced at no than 12 inches on center at interme 	ay be T-head, modified round head or round head. n width of $7/_{16}$ -inch on diameter except as noted. ot more than 6 inches on center at all supports where spans are 48 in diate supports for floors. pattern throughout the body of the panel.	iches or greater. Nails or stap	ples shall be spaced at not more	09
					 e. For 5-ply panels, intermediate nails f. Hardboard underlayment shall com 	s shall be spaced not more than 12 inches on center each way.			
				PACING OF FASTENERS	1. Hardooard underlayment shan con				
ITEM	DESCRIPTION OF BUILDING MATERIALS	G DESCRIPTION OF FASTENE		ges supports ^{c, e} hes) ⁱ (inches)					
	Wood structural panels, subfloor,	roof and interior wall sheathing to frami							N N N N N N N N N N N N N N N N N N N
30	³ / ₈ " - ¹ / ₂ "	6d common $(2'' \times 0.113'')$ nail (sub 8d common $(2^1/_2'' \times 0.131'')$ nail (n		6 12 ^g		CASING H	EADER AS SPEC'D.		PLAN NO
31	⁵ / ₁₆ " - ¹ / ₂ "	6d common $(2'' \times 0.113'')$ nail (sub 8d common $(2^1/_2'' \times 0.131'')$ nail (n		6 12 ^g	24				
32	¹⁹ / ₃₂ " - 1"	8d common nail $(2^{1}/_{2}'' \times 0.131'')$		6 12 ^g					
33	1 ¹ / ₈ " - 1 ¹ / ₄ "	10d common (3" × 0.148") nail or		6 10	HE	AD	AMB SIZED FOR		SIGN JJB ATE: 04/11
	- '8 - '4	8d $(2^{1}/_{2}'' \times 0.131'')$ deformed nail		6 12			ALL THICKNESS		DESIGN JJB DATE: 04/11
	1/ // otwards	Other wall sheathing ^h	17		GAF		ITTED WITH SEAL		
34	¹ / ₂ " structural cellulosic fiberboard sheathing	$\frac{1}{2''}$ galvanized roofing nail, $\frac{7}{16''}$ c crown staple 16 ga., $1^{1}/_{4''}$ long		3 6					
35	²⁵ / ₃₂ " structural cellulosic fiberboard sheathing	crown staple 16 ga., $1^{1/2}$ " long		3 6			iding panel Rim		-
36	¹ / ₂ " gypsum sheathing ^d	$1^{1/_{2}}$ galvanized roofing nail; staple $1^{1/_{2}}$ long; 1^{1}_{4} screws, Type W or	e galvanized, S	7 7	Ă	MD	AMB TOP		FOR ATHING
37	⁵ / ₈ " gypsum sheathing ^d	$1^{3}/_{4}^{"}$ glavanized roofing nail; stapl $1^{5}/_{8}^{"}$ long; $1^{5}/_{8}^{"}$ screws, Type W or	le galvanized, or S	7 7		-Kay	OLLERS MOUNTED O GARAGE DOOR		ITS FC HEATI AILS
		Wood structural panels, combination s		ming					
38	3/4'' and less	6d deformed $(2'' \times 0.120'')$ nail or		6 12	THI		ARAGE DOOR FLOO S SELECTED	R SEAL	
	. 4 water and b	8d common $(2^{1}/_{2}'' \times 0.131'')$ nail		12	SLA		PTIONAL DEPRESSEI	D SLAB	UIRE SS A
39	⁷ / ₈ " - 1"	8d common $(2^{1}/_{2}'' \times 0.131'')$ nail or 8d deformed $(2^{1}/_{2}'' \times 0.120'')$ nail	r	6 12	TH	IRESHOLD	DGE FOR RAIN SEAL	2	
40	1 ¹ / ₈ " - 1 ¹ / ₄ "	10d common $(3'' \times 0.148'')$ nail or 8d deformed $(2^{1}/_{2}'' \times 0.120'')$ nail		6 12					ET CONTENTS: CODE REQUIRE FASTENINGS AI GARAGE DOOR
 a. All nails are sm average bendin larger than 0.1^o b. Staples are 16 c. Nails shall be s d. Four-foot-by-8 	mooth-common, box or deformed sh ng yield strengths as shown: 80 ksi fc 77 inch, and 100 ksi for shank diam gage wire and have a minimum $^{7/}_{16}$ - spaced at not more than 6 inches on 8-foot or 4-foot-by-9-foot panels sha	ile per hour = 0.447 m/s; 1ksi = 6.895 M hanks except where otherwise stated. Nails or shank diameter of 0.192 inch (20d comr leters of 0.142 inch or less. inch on diameter crown width. center at all supports where spans are 48 all be applied vertically.	s used for framing and sheath mon nail), 90 ksi for shank di	ing connections shall have minimum	FOL	JNDATION AS SPEC'D.	PRON/PAVING /2" EXPANSION OINT MATERIAL	design	SHE
 e. Spacing of fast f. For regions have 	teners not included in this table shall ving basic wind speed of 110 mph or	l be based on Table R602.3(2). greater, 8d deformed $(2^{1}/_{3}^{"} \times 0.120)$ nails	shall be used for attaching ph	wood and wood structural panel roof				behm d	
g. For regions hav	ving basic wind speed of 100 mph or 1	tance from gable end walls, if mean roof h less, nails for attaching wood structural par	nel roof sheathing to gable end	wall framing shall be spaced 6 inches					
minimum 48-i	nch distance from ridges, eaves and	00 mph, nails for attaching panel roof sheat gable end walls; and 4 inches on center to 6 and shall be installed in accordance with	o gable end wall framing.	5	(1 GARAGE DOOR		-S	· •
 Spacing of fast 	teners on floor sheathing panel edges	6 and shall be installed in accordance with s applies to panel edges supported by frami applies to rangel edges supported by frami	ing members and required blo	cking and at all floor perimeters only					CF 7
ing panel edges	s perpendicular to the framing membe	applies to panel edges supported by framin ers need not be provided except as required	ng members and required bloc I by other provisions of this co	king. Blocking of roof or floor sheath- de. Floor perimeter shall be supported				Ŭ	
by traming me	mbers or solid blocking.	~							

- FASTENING REQUIREMENTS -