WILDWOOD

AGENDA

OF THE

CITY OF WILDWOOD'S

ARCHITECTURAL REVIEW BOARD

CITY HALL COUNCIL CHAMBERS

16860 Main Street

Thursday, November 10, 2016 - 7:00 p.m. to 9:00 p.m.

1. Welcome And Roll Call By Chair
2. Approval Of Meeting Minutes Of October 13, 2016

   Documents:

   II. OCTOBER 13, 2016 DRAFT MINUTES.PDF
3. Review Agenda Items To Be Discussed At Tonight's Meeting By Chair
4. New Business

   4.I. Ready For Action – One (1) Item

   4.I.i. Review And Consideration Of Certain Elements Of The City Of Wildwood's Second State Route 100 Pedestrian Bridge, C/O Department Of Public Works; West Of State Route 109, At North Kilare Lane. (Wards – Five And Eight)

   Documents:

   IV.1.A. PEDESTRIAN BRIDGE.PDF

   4.II. Not Ready For Action – No Items
5. Old Business

   5.I. Ready For Action – Two (2) Items

5.I.i. Review Of The Architectural Elevations And Related Materials For An Approved Single Family Residential Subdivision That Is Located On An Eight (8) Acre Tract Of Land; West Side Of Center Avenue, South Of Manchester Road

R1-A 22,000 square foot Residence District, with a Planned Residential Development Overlay District (PRD); a total of twelve (12) detached single family dwellings. The review of Architectural Elevations and related materials by the City's Architectural Review Board is a requirement of the site-specific governing ordinance (Ordinance #2088). **P.Z. 21, 22, and 23-14, Stone Mill Subdivision, Whalen Custom Homes. (Ward – Eight)**

5.I.i.1. Stone Mill – Lot 1

Documents:

V.1.A.1. STONE MILL - LOT 1.PDF

5.I.i.2. Stone Mill – Lot 7

Documents:

V.1.A.1. STONE MILL - LOT 7.PDF

5.I.i.3. Stone Mill – Lot 8

Documents:

V.1.A.1. STONE MILL - LOT 8.PDF

5.I.ii. Town Center Development Manual's Review And Update, After The Completion Of The Overall Plan's Ten (10) Year Update [Approved December 2013]. The Board Will Review The Revised Town Center Plan's Architectural Guidelines Document, In Its Entirety. (Wards – 1, 4, 5, 6, 7, And 8)

Documents:

V.1.B. ARCHITECTURAL GUIDELINES.PDF

5.II. Not Ready For Action – No Items

6. Other

7. Public Comment

8. Closing Remarks And Adjournment

Note: The Architectural Review Board will consider and act upon these matters listed above and any such others as may be presented at the meeting and determined appropriate for discussion at that time.

The City of Wildwood will provide reasonable accommodations for persons attending Architectural Review Board meetings. Requests for reasonable accommodations should be made by contacting Liz Weiss, City Clerk, at 636-458-0440 or by email at liz@cityofwildwood.com, at least 48 hours prior to the start of the meeting.

CITY OF WILDWOOD
RECORD OF PROCEEDINGS

MEETING OF THE ARCHITECTURAL REVIEW BOARD
CITY HALL, 16860 MAIN STREET, WILDWOOD, MISSOURI
October 13, 2016

The Architectural Review Board meeting began at 7:00 pm, on Thursday, October 13, 2016, in the Community Room, 16860 Main Street, Wildwood, Missouri.

I. Welcome and Roll Call

Chair Hoffmann called the meeting to order and welcomed everyone. The following members were in attendance, as noted:

Present [7]	Absent [1]
Chair Hoffmann	Council Liaison Baugus
Vice-Chair Dial	
Secretary Crow	
Board Member Teller	
Board Member Hensic	
Alternate Lindberg	
Commission Liaison Lee	

Staff present:	Director Vujnich and Planner Newberry
City Officials:	None
Petitioners present:	Legal Counsel representing McBride and Son Homes; Kevin Hughes, Quest Church; and Mike Whalen, Whalen Custom Homes

II. Approval of Meeting Minutes from September 8, 2016

A motion was made by Vice-Chair Dial, seconded by Secretary Crow, for the approval of the September 8, 2016 meeting minutes, as prepared. There being no discussion or changes, the motion passed by a voice vote [5-0].

III. Agenda Items to be Discussed at Tonight's Meeting

Director Vujnich respectfully requested the Board consider re-ordering an item under "Other" be moved to be the first item on tonight's agenda.

A motion by Vice-Chair Dial, seconded by Secratary Crow, to make this change to the agenda. The motion passed by a voice vote [5-0].

IV. Other – One (1) Item

a) A discussion item relating to **P.Z. 5 and 5a-98 Greater Missouri Builders, Inc./Cambury Subdivision; McBride & Son Companies**; The Department is requesting the Board provide direction on its action regarding the attached units on Lots 19, 20, 73, and 74, located at the corner of Cambury Lane and Larksong Drive. **(Ward Eight)**

Director Vujnich outlined the zoning history of the Cambury Subdivision and noted the Board had previously approved elevations for the attached units on Lots 19, 20, 73, and 74. He noted the Department's interpretation of the Board's action on these elevations (on May 15, 2015), included the requirement the porches wrap the corner of the façade to mimic the corner attached units adjacent to them. He explained McBride and Son Homes is proposing elevations that do not include porches wrapping the corner, therefore the item is before the Board at tonight's meeting for it to provide direction in this regard.

The general consensus among Board Members was that the requirement to provide porches wrapping the corner was not identified in the previous meeting and was not a requirement of the Board's May 15, 2015 action. It was also noted that, including porches on the corner, would be contrary to the character of attached rowhomes, from an architectural standpoint. Board Members also noted McBride and Son Homes needed to provide elevations that include materials on the side façade that are also incorporated on the front façade, as required by the site-specific governing ordinance.

A motion by Secretary Crow, seconded by Vice-Chair Dial, to not require porches wrapping the corner. The motion passed by a voice vote [5-0].

Director Vujnich respectfully requested the Board to consider re-ordering the second item under "New Business" be moved to the next item on tonight's meeting agenda.

A motion by Secretary Crow, seconded by Member Hensic, to make this change to the agenda. The motion passed by a voice vote [5-0].

V. New Business

1. Ready for Action [Two (2) Items]

a) Review of an outdoor advertising sign in accordance with Chapter 415.450 Outdoor Lighting Requirements – Section D (3.) (f), which states: "Outdoor advertising signs of the type constructed of translucent materials and wholly illuminated from within do not require shielding. Dark background with light lettering or symbols is required, *unless otherwise authorized by the Architectural Review Board of the City*," for Quest Church; south side of Manchester Road, west of State Route 109 (Locator Number 24V430174/Street Address 17126 Manchester Road); NU Non-Urban Residence District ("Cultural/Institutional" Town Center Designation). **(Ward One)**

Director Vujnich explained Quest Church has submitted a Zoning Authorization Application for a monument sign that would be internally lit at night and create the appearance of a light background with dark lettering or symbols, which is not allowed by the City's Outdoor Lighting Requirements, unless authorized by the Architectural Review Board.

Kevin Hughes, Quest Church, introduced himself and presented the church's proposed sign.

No discussion was held among Board Members.

A motion by Vice-Chair Dial, seconded by Secretary Crow, to authorize the sign, as proposed. The motion passed by a voice vote [5-0].

b) Review of the Architectural Elevations and related materials for an approved single family residential development that is to be located on an eight (8) acre tract of land; west side of Center Avenue, south of Manchester Road; R1-A 22,000 square foot Residence District, with a Planned Residential Development Overlay District (PRD); a total of twelve (12) detached single family dwellings. The review of Architectural Elevations and related materials by the City's Architectural Review Board is a requirement of the site-specific governing ordinance (Ordinance #2088). **P.Z. 21, 22, and 23-14, Stone Mill Subdivision, Whalen Custom Homes. (Ward Eight)**

Director Vujnich described the location of the approved subdivision and outlined the zoning history of the site. He noted the development is not located in the City's Town Center Area, but, given its proximity to that area, the City Council approved the site-specific governing ordinance with the requirement each home be reviewed by the Architectural Review Board. Director Vujnich noted Chair Hoffmann raised some concerns regarding whether the submitted items complied with the applicable professional licensing requirements.

Mike Whalen, Whalen Custom Homes, respectfully expressed his belief the items submitted are in compliance with Missouri State Statute. He outlined his company's process regarding building plans and architectural elevations.

Discussion was held among Board Members regarding the items submitted. The Board noted the architect, who sealed and signed the plans, is not present at tonight's meeting, which is a requirement of the Board. Therefore, the Board deferred any consideration to a later meeting date.

A motion by Vice-Chair Dial, seconded by Member Hensic, to postpone this item due to the absence of the architect. The motion passed by a voice vote [5-0].

2. Not Ready for Action [No Items]

VI. Old Business

1. Ready for Action [One (1) Item]

a) Town Center Development Manual's review and update, after the completion of the overall plan's ten (10) year update [approved December 2013]. The Board will review the revised Town Center Plan's Architectural Guidelines document, in its entirety. **(Wards – 1, 4, 5, 6, 7, and 8)**

Director Vujnich noted the Board has completed its initial edits to the Town Center Plan's Architectural Guidelines document. He explained the Department provided the edited Architectural Guidelines document, in its entirety, and outlined the next steps for the Town Center Development Manual's review and update.

Discussion was held among Board Members regarding changes to the screening requirements under the 'Roofs' Section of the Architectural Guidelines. Director Vujnich noted the Department would make the agreed upon changes.

2. **Not Ready for Action [No Items]**

VII. Public Comment

VIII. Closing Remarks and Adjournment:

Director Vujnich noted the next regularly scheduled meeting will be held on November 10, 2016.

Board Secretary Crow made a motion, which was seconded by Board Member Hensic, to adjourn. The motion was passed by a voice vote [5-0]. The meeting was adjourned at 9:00 p.m.

Approved by: **Date Approved:**

_____ _____

Secretary Crow
City of Wildwood Architectural Review Board

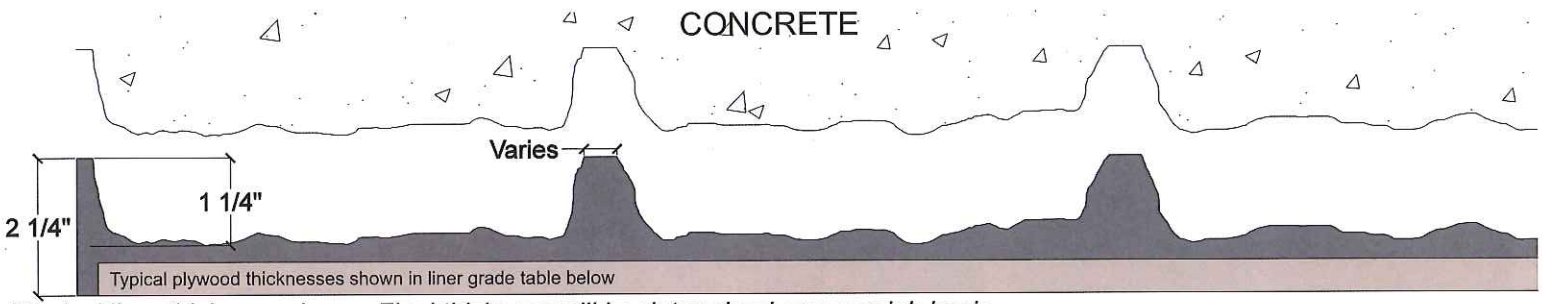
DRAFT

Pattern #11003
Rustic Ashlar (Keyed)

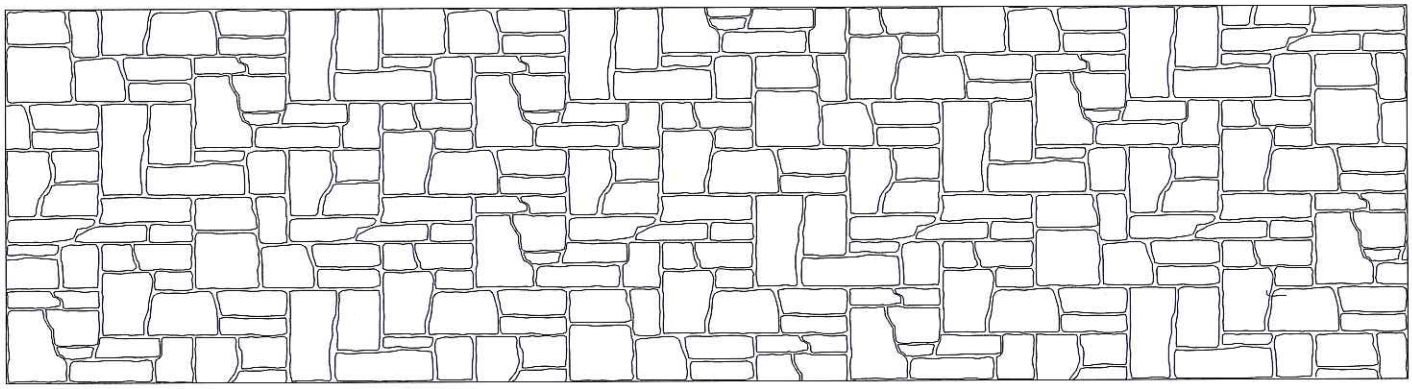
customrock
FORMLINER

General Information:

Elastomeric formliners are high end liners that capture pattern details with precision. They couple strength with excellent pattern reproduction. The embedded plywood allows ease of handling and installation for cast in place and precast form systems. They have a multiple reuse factor, subject to pattern configuration and proper handling.



**Typical liner thickness shown. Final thickness will be determined on a per job basis.*
***Representational pattern layout shown. Layout made up of multiple liner modules.*



Stone Size:
8" - 25"

Care and Handling:
- Keep out of the sunlight and covered when not in use
- Keep away from steam, acids, and certain fuels
- Do not expose to temperatures >150°F (65.5°C)
- For further instructions refer to the application guide

Available Grades:	Duraform	Hi-Lite	Multi-Lite	Cut-Lite
Description:	High reuse / Heavy Weight / 3/4" Plywood Typical	High reuse / Lightweight / 1/2" Plywood Typical	Medium reuse / Lightweight / 1/2" Plywood Typical	Low reuse / Lightweight / 1/2" Plywood Typical

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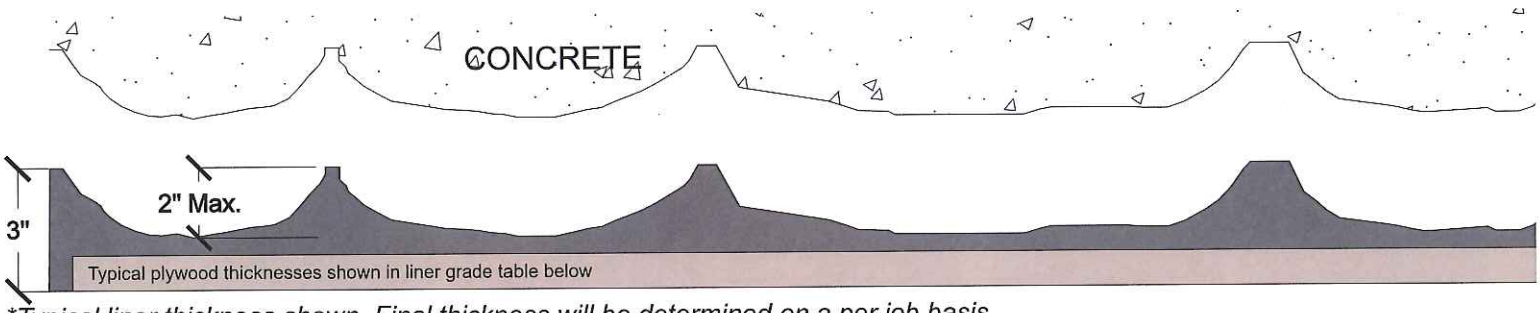
www.customrock.com

Pattern #1501-R2
Large Sandstone Ashlar

customrock
FORMLINER

General Information:

Elastomeric formliners are high end liners that capture pattern details with precision. They couple strength with excellent pattern reproduction. The embedded plywood allows ease of handling and installation for cast in place and precast form systems. They have a multiple reuse factor, subject to pattern configuration and proper handling.



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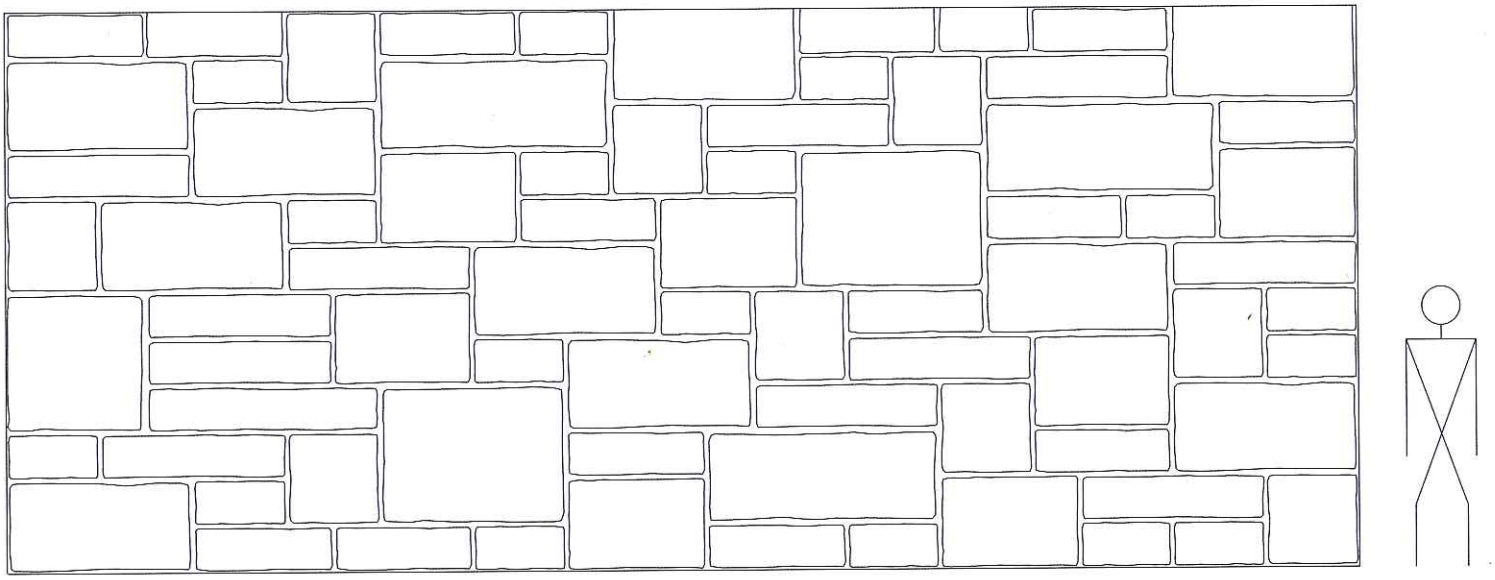

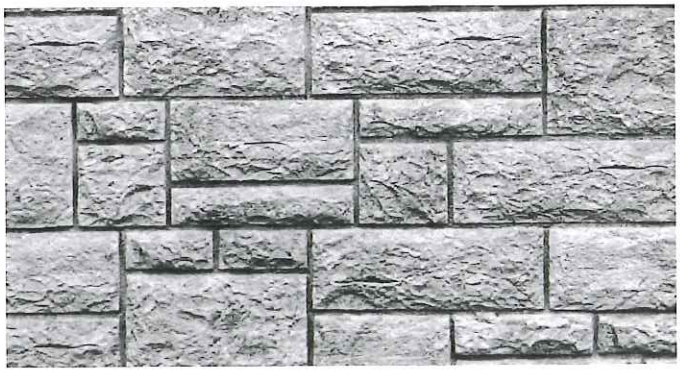

Stone Size:
12" - 60"

Care and Handling:

- Keep out of the sunlight and covered when not in use
- Keep away from steam, acids, and certain fuels
- Do not expose to temperatures >150°F (65.5°C)
- For further instructions refer to the application guide

Available Grades:	Duraform	Hi-Lite	Multi-Lite	Cut-Lite
Description:	High reuse / Heavy Weight / 3/4" Plywood Typical	High reuse / Lightweight / 1/2" Plywood Typical	Medium reuse / Lightweight / 1/2" Plywood Typical	Low reuse / Lightweight / 1/2" Plywood Typical

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www.customrock.com

ROUTE 100 PEDESTRIAN BRIDGE
Aerial Map of Project Vicinity

EXHIBIT 7

WILDWOOD

APPLICATION FOR THE CITY OF WILDWOOD'S
ARCHITECTURAL REVIEW BOARD
(please read thoroughly)

The following information and items shall be provided to the Department of Planning for processing and dissemination in association with scheduling of submittals before the City of Wildwood's Architectural Review Board (ARB). The ARB meets on the second Thursday of each month, unless otherwise changed, with the submittal deadline being 2:00 p.m. on the Monday ten (10) days prior to the meeting. If the agenda cannot support the number of submitted applications, a special meeting may be requested by the applicant or the item will be carried over to the succeeding month. A complete set of plans shall be submitted, with the information bearing an original signature and seal of the Licensed Architect upon it, before the Board will conduct its review. The completeness of the submission will aid in the understanding of the project by the Board and the relevance of its comments, as well as expedite reviews in an effort to avoid delays. Failure of the architect to sign and seal all requested items that are the subject of this review process, where applicable, or not providing the requested information identified below, will disqualify the submittal and the Department of Planning will return the packet to architect of record.

SECTION I

Project Name: Lot 1 Stone Mill

Address/Location: 1701 Falstone Mill Ct

Applicant Contact Information: Mike Whalen

Zoning District/Council Ward: R-1A District w/ Planned Residential Development Overlay District

SECTION II

The ARB submittal requirements shall be as follows:

- ☑ **Architects Statement:** Provide a written statement that explains the design theory utilized in the overall site and building design separately. Include items such as reasoning behind entry locations, building placement, how existing topography was utilized instead of ignored, shape, orientation and style of the building, reasoning for chosen building materials and colors, site and building lighting, etc. This statement should be written as from one architect to another and should

include design theory. In this instance, cost can be an acceptable and appropriate goal of the overall design. The statement shall close with an acknowledgment that the design is in compliance with the requirements, or it should give a description of non-compliant items, with an explanation for such.

☑ **Preliminary Development Plan & Colored Landscape Plan:** These plans should reflect the same elements required for submittal to the Planning & Zoning Commission, such as the infrastructure and site improvements, including building footprints, curb cuts and driveway locations, and other natural and man-made features of significance.

☑ **Photographs:** Photos should reflect existing site conditions and immediate surrounding properties in all compass directions. The intent of these photographs is to better understand the project site and context, and how the project under consideration will complement both existing conditions, as well as future projects.

☑ **Preliminary Floor Plans:** These plans refers to the building footprint. However, interior layout, while not reviewed, can help in understanding the footprint and elevations.

☐ **Colored Architectural Elevations:** Elevations for each façade of the building, presented in the chosen color palette, with overall dimensions and materials labeled, noting any special items as necessary for a clear understanding of the project. Light fixtures should be shown accurately.

☑ **Colored Building Rendering:** This item is critical to provide a clear and quick understanding of the massing of the building and its materials and colors. Ideally, if prepared electronically in three dimensions, provide 'snapshots' of several views to highlight the overall building.

☑ **Materials and Colors:** The submittal should include 'finishes' pages, such as manufacturer specification sheets of the materials and colors. Actual samples will be required for presentation at the meeting itself.

☑ **Please provide twelve (12) copies of all of the above information in an 11"x17" format, formatted to fit 11"x17", and bound into an 8.5" x 11" booklets with a cover, as well as all information contained on a disc, or digital device. Appropriate sheets shall exhibit the original signature, seal, and date of the Licensed Architect, who prepared them. Please note, larger format items are permitted and encouraged for presentation purposes at the Architectural Review Board meeting.**

The items contained in the submittal package must meet minimum requirements prescribed by the Architectural Review Board(ARB). Further information may be requested, as directed by the Department of Planning and/or the ARB. Once an application has been processed for an upcoming meeting, the agenda will be sent to the appropriate representative(s). Attendance by the petitioner with their architect(s) for presentation and discussion with the ARB is mandatory. Variances to these procedures must be agreed to by the ARB members and the Department of Planning in advance of the scheduled meeting date. If you have any further questions, please feel free to contact the Department of Planning at (636) 458-0440.

We, the undersigned, are aware of the aforementioned items and submit this application in full compliance with the requirements of the Architectural Review Board on this day 31 **of** October, 2016.

Applicant [signature]

Licensed Architect [signature]

Mike Whalen
Applicant [print]

FRANK WISEMAN, JR.
Licensed Architect [print]

Contact Information for Applicant and Architect may be provided by attaching business cards here:

Mike Whalen - Whalen Custom Homes
314-575-7645
Mike@whalencustomhomes.com

Frank Wiseman
618-225-7472
fdwjr@charter.net

SECTION III

For Office Use Only

Application submittal accepted on: October 31, 2016 (TN)
Initial By: Department of Planning Staff

Initial review is scheduled for: Sept. 8, 2016 (Petitioner absent) / Item Postponed Oct. 13, 2016

Subsequent review is scheduled for: November 10, 2016

Comments: Dates above reference previous submittals for Lot 1

Final Approval by the ARB on: _____

Architectural Review Board Chair

WHALEN
Custom Homes

ARCHITECTURAL REVIEW BOARD SUBMISSION
SEPTEMBER 8, 2016

STONE MILL LOT 1

WHALEN
Custom Homes

Architectural Statement

The proposed home and development embodies the New Urbanism Movement. This community is framed by it's architecture and landscape design which utilizes it's local history, climate, ecology and building practices. The subject property is based on a Craftsmen Style with Neo-Modernism features.

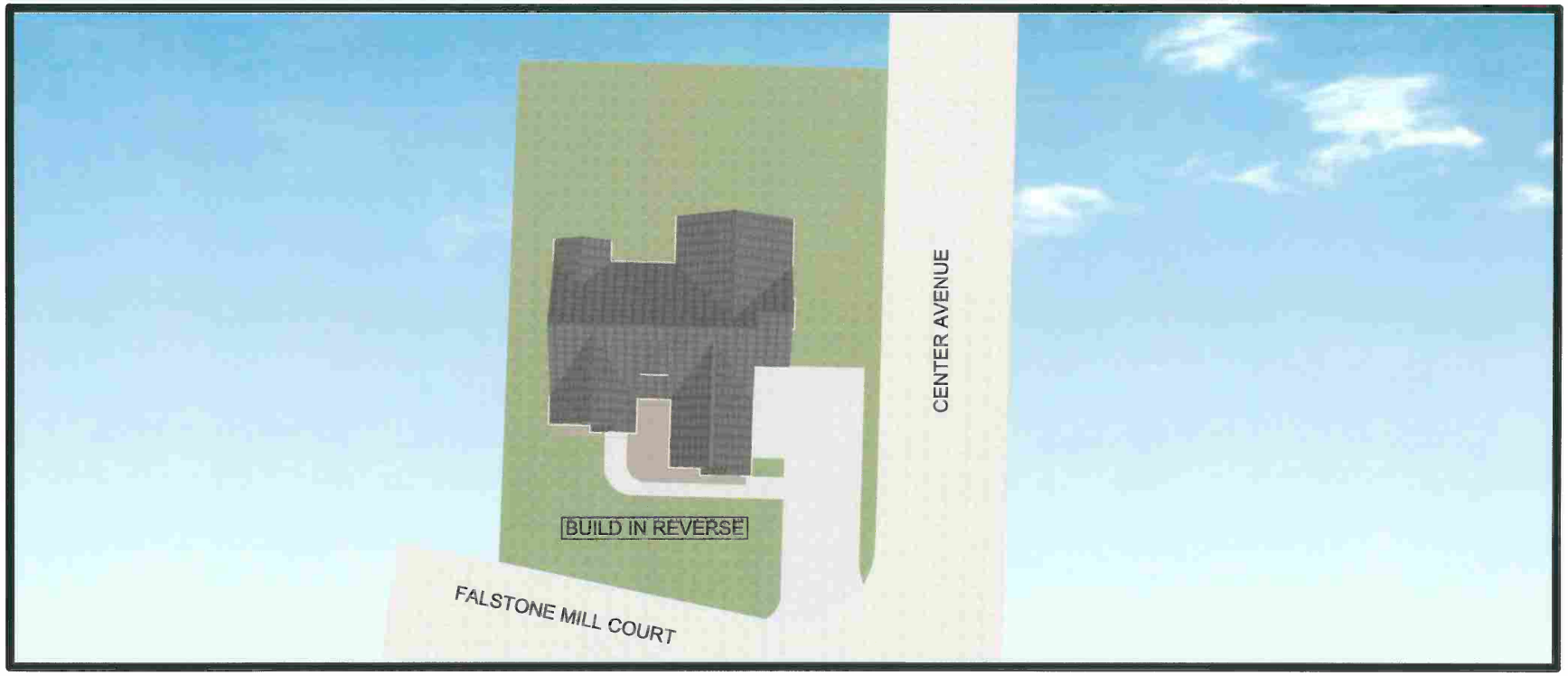
The placement of Stone Mill Display on Lot 1 is such that it allows for a side car entry and maximizes the rear yard while meeting all required setbacks and easements. The building materials and colors create a subtle but impactful feel with Gray Slate Hardie Lap Siding and tumbled light stone. It will create a peaceful statement as you enter Stone Mill.

The design is in compliance with all requirements.

We appreciate the Architectural Review Boards consideration of this application.

Sincerely,

Mike Whalen



DEVELOPMENT PLAN AND LANDSCAPE PLAN

NO.	DESCRIPTION	BY	DATE

WHALEN Custom Homes

STONE MILL LOT 1

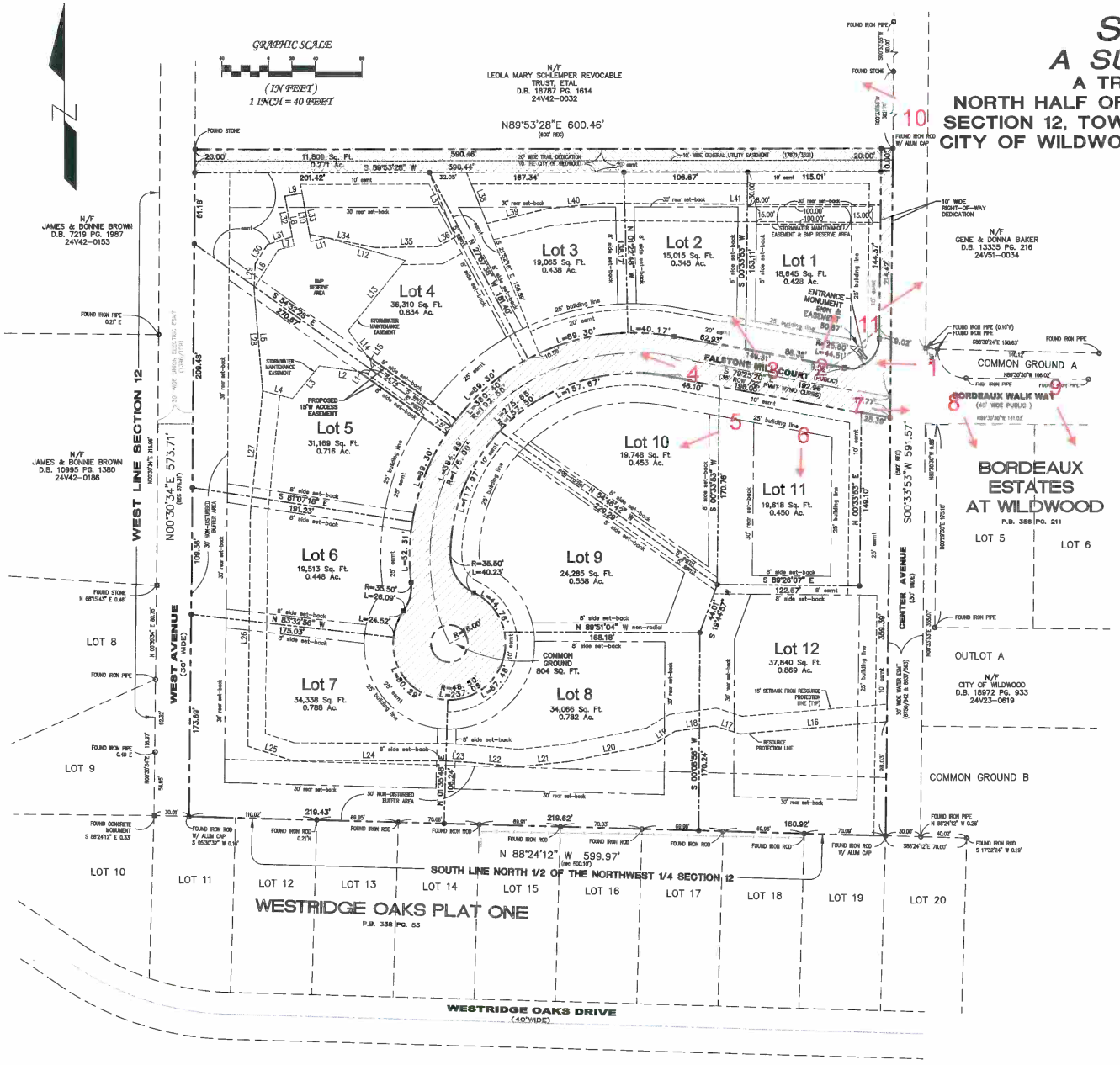
NEW RESIDENCE DISPLAY

DATE:

SCALE:

SHEET:

STONE MILL
A SUBDIVISION PLAT
A TRACT OF LAND IN THE NORTH HALF OF THE NORTHWEST QUARTER OF SECTION 12, TOWNSHIP 44 NORTH, RANGE 3 EAST CITY OF WILDWOOD, ST. LOUIS COUNTY, MISSOURI



LINE	BEARING	DISTANCE
L1	S 35°32'45" W	3.66'
L2	N 81°47'45" W	42.61'
L3	S 36°12'19" W	36.28'
L4	N 75°38'46" W	28.49'
L5	N 04°50'14" W	88.33'
L6	N 32°17'00" E	39.34'
L7	N 75°46'59" E	13.80'
L8	N 10°18'54" W	43.43'
L9	N 80°27'50" E	15.00'
L10	S 10°18'54" E	42.21'
L11	N 75°46'58" E	13.73'
L12	S 73°54'20" E	70.41'
L13	S 36°12'19" W	77.80'
L14	S 36°40'45" E	37.13'
L15	S 35°32'45" W	4.43'
L16	S 85°17'02" W	126.88'
L17	N 72°21'46" W	22.73'
L18	S 82°33'11" W	34.49'
L19	S 59°20'59" W	22.84'
L20	S 75°38'46" W	74.30'
L21	S 89°35'47" W	42.29'

LINE	BEARING	DISTANCE
L22	N 84°43'00" W	42.28'
L23	N 86°42'00" W	21.14'
L24	N 89°41'14" W	132.80'
L25	N 73°12'38" W	39.39'
L26	N 00°30'34" E	201.61'
L27	N 05°46'19" E	104.77'
L28	N 04°50'14" W	66.22'
L29	N 03°08'17" E	21.29'
L30	N 32°28'09" E	19.54'
L31	N 72°37'37" E	22.35'
L32	N 10°18'54" W	35.54'
L33	S 10°18'54" E	35.82'
L34	S 78°37'34" E	58.19'
L35	N 68°53'41" E	53.35'
L36	N 61°34'38" E	18.89'
L37	N 21°52'18" W	80.01'
L38	S 21°52'18" E	47.37'
L39	N 76°13'39" E	53.34'
L40	N 32°28'09" E	47.14'
L41	S 89°35'18" E	240.34'

□ : PERMANENT MONUMENT TO BE SET UPON COMPLETION OF GRADING.
● : SEMI-PERMANENT MONUMENT TO BE SET AT ALL REAR LOT CORNERS.

(NOTE: CROSSES SHALL BE CUT AT THE INTERSECTION OF THE EXTENSION OF EACH LOT LINE WITH THE CENTERLINE OF THE STREET.)

LAND DESCRIPTION:

A TRACT OF LAND IN THE NORTH HALF OF THE NORTHWEST QUARTER OF SECTION 12, TOWNSHIP 44 NORTH, RANGE 3 EAST, CITY OF WILDWOOD, ST. LOUIS COUNTY, MISSOURI, AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEGINNING AT THE SOUTHEAST CORNER OF A TRACT OF LAND DESCRIBED IN A DEED TO LEOLA MARY SCHLEMPER REVOCABLE TRUST RECORDED IN DEED BOOK 18787 PAGE 1614 OF THE ST. LOUIS COUNTY RECORDS, SAID POINT BEING ON THE WEST LINE OF CENTER (30' WIDE) AVENUE; THENCE WITH THE WEST LINE OF CENTER AVENUE, BEING 15' WEST OF AND PARALLEL TO THE CENTERLINE THEREOF SOUTH 00 DEGREES 33 MINUTES 53 SECONDS WEST 591.57 FEET TO THE SOUTH LINE OF THE NORTH 1/2 OF THE NORTHWEST 1/4 OF SECTION 12, SAID POINT ALSO BEING THE NORTH LINE OF WESTRIDGE OAKS PLAT ONE AS PER THE PLAT THEREOF RECORDED IN PLAT BOOK 338 PAGE 53 OF THE ST. LOUIS COUNTY RECORDS; THENCE DEPARTING THE WEST LINE OF CENTER AVENUE WITH THE NORTH LINE OF WESTRIDGE OAKS PLAT ONE, NORTH 88 DEGREES 24 MINUTES 12 SECONDS WEST 599.97 FEET TO A POINT ON THE EAST LINE OF WEST (30'WIDE) AVENUE; THENCE WITH THE EAST LINE OF WEST AVENUE, BEING 15' EAST OF AND PARALLEL TO THE CENTERLINE THEREOF AND 30 FEET EAST OF AND PARALLEL TO THE WEST LINE OF SECTION 12, NORTH 00 DEGREES 30 MINUTES 34 SECONDS EAST 573.71 FEET TO THE SOUTHWEST CORNER OF THE AFORESAID LEOLA MARY SCHLEMPER REVOCABLE TRUST TRACT; THENCE WITH THE SOUTH LINE OF SAID LEOLA MARY SCHLEMPER REVOCABLE TRUST TRACT, NORTH 89 DEGREES 53 MINUTES 28 SECONDS EAST 600.46 FEET TO THE POINT OF BEGINNING AND CONTAINING 349,679 (8.027 ACRES), MORE OR LESS. SUBJECT TO ALL EASEMENTS, CONDITIONS AND RESTRICTIONS OF RECORD, IF ANY.

BASIS OF BEARING:

BEARINGS ARE IN RELATION TO WESTRIDGE OAKS PLAT ONE, AS RECORDED IN PLAT BOOK 338, PAGE 53, ST LOUIS COUNTY RECORDS.

SOURCE OF RECORD TITLE:

LAND OF THE STATE OF MISSOURI, RECORDED IN DEED BOOK 3240, PAGE 14, ST. LOUIS COUNTY MISSOURI RECORDS.

NOTES:

ALL DIMENSIONS ARE SHOWN IN FEET AND DECIMAL FRACTIONS THEREOF.

ALL EASEMENTS AND CONDITIONS WHICH AFFECT THIS SITE AS REPORTED IN ASSURED TITLE COMPANY AS AGENT FOR COMMONWEALTH LAND TITLE INSURANCE COMPANY, FILE NO. 836695 REVISION 1, DATED FEBRUARY 20, 2013:

ITEMS 1-9: STANDARD EXCEPTIONS WITH NO COMMENT BY SURVEYOR.

ITEM 10. EASEMENT GRANTED PUBLIC WATER SUPPLY DISTRICT #1 OF ST. LOUIS COUNTY, MISSOURI RECORDED IN BOOK 8750 PAGE 642 AND ASSIGNED TO ST. LOUIS COUNTY WATER COMPANY BY INSTRUMENT RECORDED IN BOOK 8837 PAGE 593. PLOTS WITHIN THE 30 FOOT WIDE STRIP TO THE EAST KNOWN AS CENTER AVENUE AND DOES NOT ADVERSELY AFFECT THE SUBJECT TRACT.

ITEM 11. TERMS AND PROVISIONS OF MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION UTILITY EASEMENT RECORDED IN BOOK 17871 PAGE 3321, 10' WIDE EASEMENT ALONG THE NORTH LINE OF THE SUBJECT TRACT. PLOTTED HEREON.

ITEMS 12-13: STANDARD EXCEPTIONS WITH NO COMMENT BY SURVEYOR.

TOTAL ACREAGE OF THIS PLAT: 8.027 ACRES.

LOCATOR NO.: 24V42-0010

BENCHMARK:

ST. LOUIS COUNTY BM 16-109: 794.70 (NGVD'29) "L" ON THE WEST SIDE OF A CONCRETE PORCH OF BUILDING AT # 16957 MANCHESTER ROAD; 21' EAST OF THE CENTERLINE OF EATHERTON ROAD AND 39' NORTH OF THE CENTERLINE OF MANCHESTER ROAD.

SITE BENCHMARK:

795.68 (NGVD'29) CROSS AT THE INTERSECTION OF THE CENTERLINE OF BORDEAUX WALK WAY AND THE EAST LINE OF CENTER AVENUE, SAID POINT BEING 215.08 FEET SOUTH AND 29.86 FEET EAST OF THE NORTHEAST CORNER OF SUBJECT TRACT.

SURVEYOR'S CERTIFICATION:

THIS IS TO CERTIFY TO WHALEN CUSTOM HOMES, INC., THAT AT THEIR REQUEST, SUBURBAN LAND SURVEY, INC. HAS PREPARED A BOUNDARY SURVEY AND SUBDIVISION PLAT DATED DECEMBER , 2015, OF A TRACT OF LAND BEING IN THE NORTH HALF OF THE NORTHWEST QUARTER OF SECTION 12, TOWNSHIP 44 NORTH, RANGE 3 EAST, CITY OF WILDWOOD, ST. LOUIS COUNTY, MISSOURI; THAT THIS PLAT IS BASED UPON A BOUNDARY SURVEY COMPLETED ON THE GROUND; THAT THE RESULTS OF SAID SURVEY ARE SHOWN HEREON; AND THAT SAID SURVEY MEETS OR EXCEEDS THE CURRENT MINIMUM STANDARDS FOR URBAN CLASS BOUNDARY SURVEYS, AS ESTABLISHED BY THE MISSOURI DEPARTMENT OF NATURAL RESOURCES, DIVISION OF GEOLOGY AND LAND SURVEY.

DAVID L. ROBBINS, R.L.S. 2210 — DATE
SUBURBAN LAND SURVEY, INC. LS -378-D

REVISED	COMMENT
01/19/16	easement verify
02/20/16	non-disturbed buffer areas

SLS
Suburban Land Survey
2007 Bellevue Ave., St. Louis MO 63143
(314) 645-7055 Fax: (314) 644-1225
LICENSED IN MISSOURI AND ILLINOIS

PROJECT:
STONE MILL
CITY OF WILDWOOD
ST LOUIS COUNTY, MISSOURI

PREPARED FOR:
Whalen Custom Homes
338 S. Kirkwood Road
St Louis, MO 63122
(314) 821-1745

DATE:	12/21/2015
JOB NUMBER:	15072
FILE NAME:	Stone Mill.dwg
FIELDWORK BY:	DLR, CJK
DRAWN BY:	DLR
CHECKED BY:	
SHEET	1 of 2

1

2
CAT
SILVERADO
9DJ530

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4

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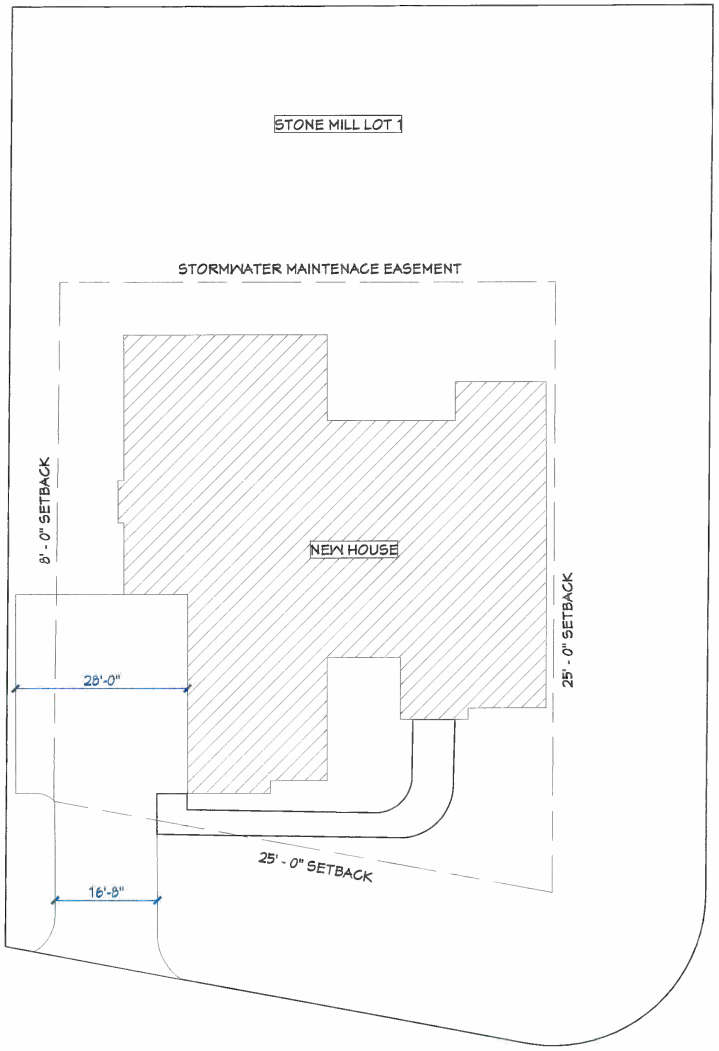
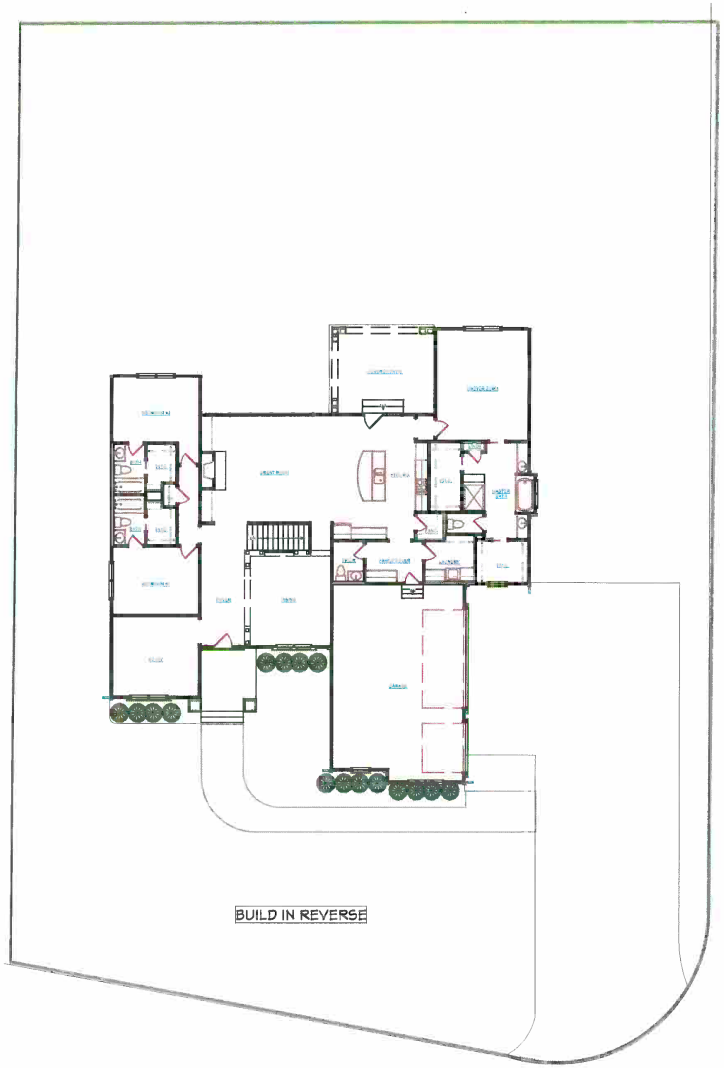


FOOTPRINT OF HOUSE ON LOT

SCALE: 1" = 20'-0"



GENERAL FLOOR PLAN

SCALE: 1" = 20'-0"

NO.	DESCRIPTION	BY	DATE

WHALEN Custom Homes

STONE MILL LOT 1

NEW RESIDENCE DISPLAY

DATE:

SCALE:

SHEET:

BUILD IN REVERSE

FRONT ELEVATION

REAR ELEVATION

SEE "MATERIALS AND COLORS SECTION" FOR DESCRIPTIONS

NO.	DESCRIPTION	BY	DATE

WHALEN Custom Homes

STONE MILL LOT 1

NEW RESIDENCE DISPLAY

DATE:

SCALE:

SHEET:

RIGHT ELEVATION

LEFT ELEVATION

SEE "MATERIALS AND COLORS SECTION" FOR DESCRIPTIONS

NO.	DESCRIPTION	BY	DATE

WHALEN Custom Homes

STONE MILL LOT 1

NEW RESIDENCE DISPLAY

DATE:

SCALE:

SHEET:

FRONT RENDERINGS

NO.	DESCRIPTION	BY:	DATE

WHALEN Custom Homes

STONE MILL LOT 1

NEW RESIDENCE DISPLAY

DATE:

SCALE:

SHEET:

REAR RENDERINGS

NO.	DESCRIPTION	BY	DATE

WHALEN Custom Homes

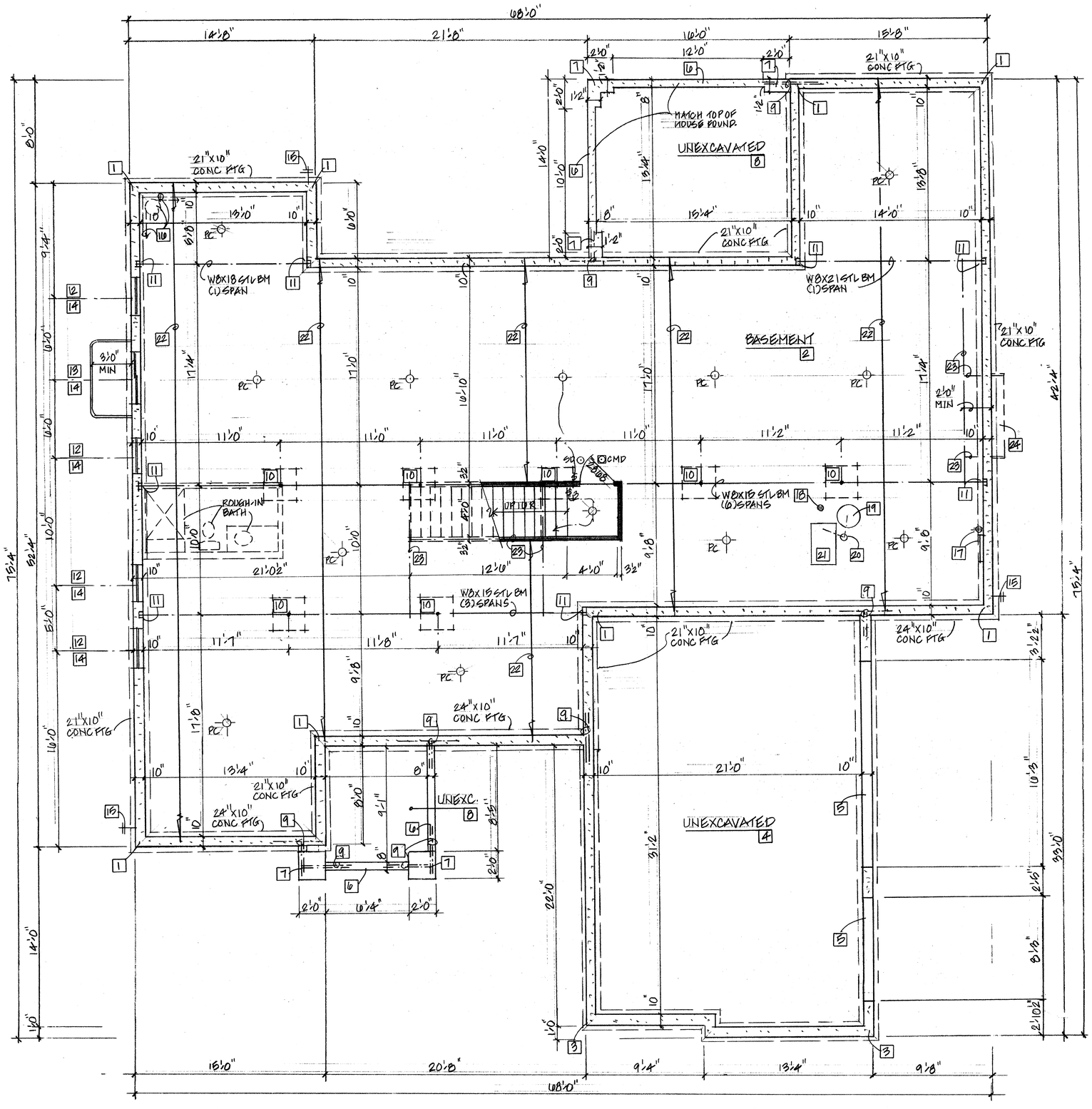
STONE MILL LOT 1

NEW RESIDENCE DISPLAY

DATE:

SCALE:

SHEET:



BASEMENT / FOUNDATION PLAN 8'-10" POUR

4"=1'-0"

BASEMENT / FOUNDATION PLAN NOTES

1. 10" TH CONC FOUNDATION (8'-10" POUR) SEE PLAN FOR FTG SIZES
2. 3½" TH CONC SLAB ON 6 MIL PVB ON 4" GRAN FILL - SLOPE TO FLR DRN.
3. 10" TH CONC FOUND. ON 16"x10" CONC FTG - 30" MIN BELOW FIN GRADE
4. 4" TH CONC SLAB W/ 6x6x10/10 WWF ON 6 MIL PVB ON 4" GRAN FILL - SLOPE TO OH DOORS
5. HOLD TOP OF FOUND. DOWN FOR SLAB CLEARANCE
6. 8" TH CONC FOUND. TO 30" MIN BEL FIN GRADE
7. CONC PIER TO 30" MIN BELOW FIN GRADE
8. 4" TH CONC SLAB W/ #4'S @ 24" OC - 24" EW INTO FOUND. - THICKEN EDGES & SLOPE AWAY FROM STRUCTURE
9. ADDIT (2) #4'S 24" EW T&B @ ALL FOUND. INTERSECTIONS
10. 3½" Ø STL COLUMN ON 30"x30"x12" TH CONC COLUMN PAD
11. BEAM POCKET W/ MIN 4" BEARING - GROUT LEVEL & SOLID
12. 16/20 BASEMENT SASH
13. 4040 EGRESS SLIDER W/ SILL @ MAX 44" AFF IN APPROVED WDW WELL W/ GRAVEL BED & DRAIN TO HPR - SEE DTL ON SHT D3
14. ADDIT (2) #5'S AROUND WDW EXTENDING 24" PAST OPENING
15. FREEZE PROOF HOSE BIBB
16. 4" Ø PERF DRAIN PIPE @ FOUND. PERIM TO SUMP W/ DEDICATED OUTLET OR DAYLITED
17. APPROX LOCAT OF 200 AMP ELECT PANEL W/ GFI - FIELD LOCATE
18. FLOOR DRAIN
19. GAS WATER HEATER W/ OVERFLOW TANK IF <30 GALLON
20. METALBESTOS FLUE W/ UL APP'D CAP & CO
21. FORCED AIR GAS FURNACE
22. 11⅞" TJI FLOOR JOISTS @ 16" OC - 210 SERIES BY 'TRUS JOIST INC'
23. 1¾" x 11⅞" MICROLLAM
24. CANTILEVER ABOVE - ENCLOSE W/ EG MTL, INSUL TO R-19 MIN & SEAL ALL JOINTS

STATE OF MISSOURI
FRANKLIN D. WISEMAN, JR.
NUMBER A-2006027170
ARCHITECT

DATE: 6/15/16 (BID SET)
COMPLETE: 8/16/16
REVISIONS:

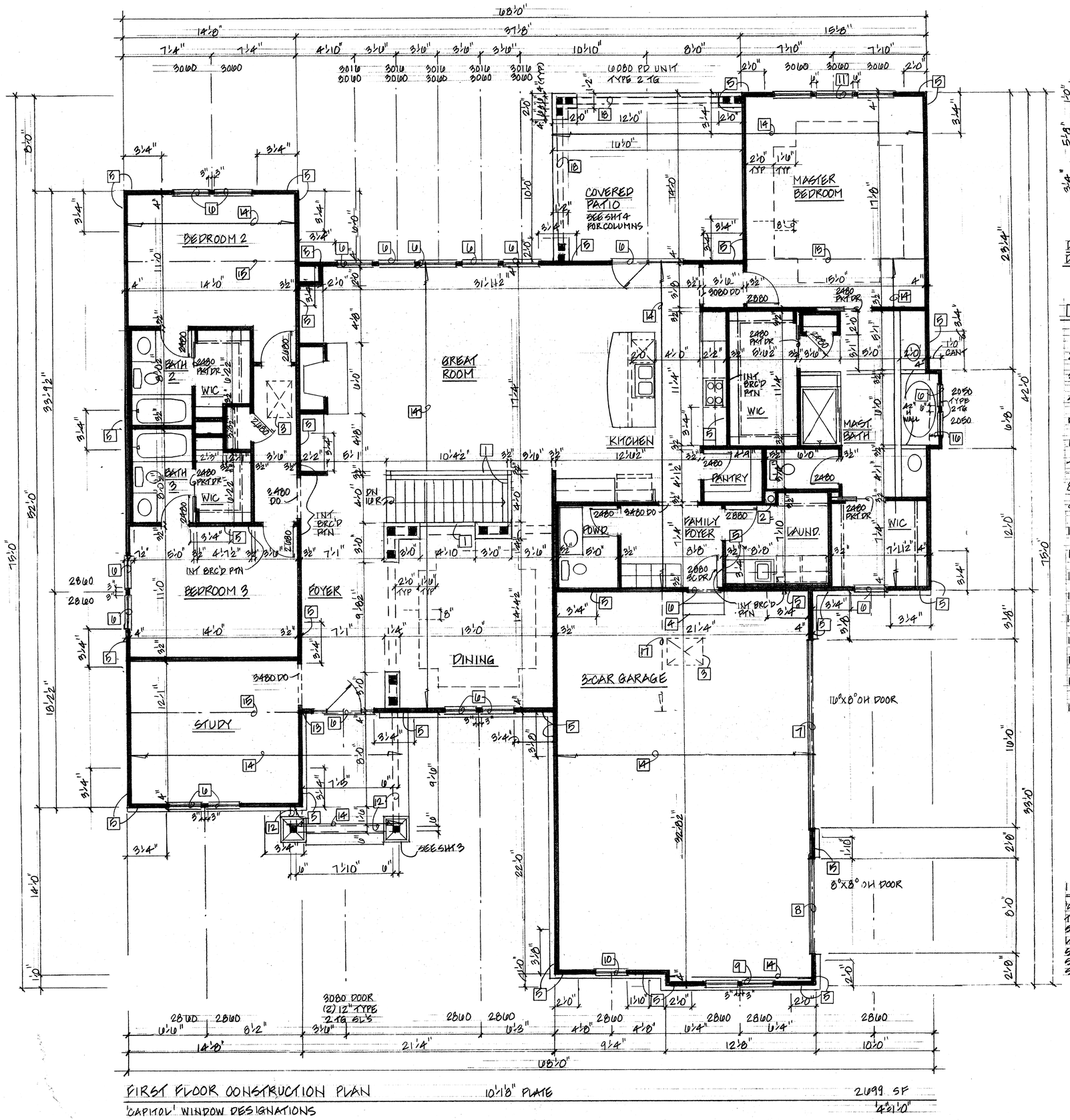
PAMELA L. ALSING
ARCHITECTURAL DRAFTING & DESIGN
3745 YAEGER ROAD
ST. LOUIS, MO 63129 (314) 845-9723
NOT A LICENSED ARCHITECT

WHALEN CUSTOM HOMES
338 S. KIRKWOOD ROAD SUITE 103
KIRKWOOD, MO 63122
(314) 575-7645

BASEMENT / FOUNDATION PLAN

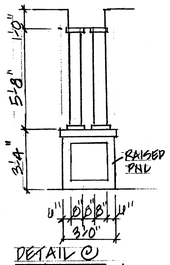
DISPLAY HOME
LOT 1 STONE MILL
WILDWOOD, MO

SHEET NO
1
OF 9



FIRST FLOOR CONSTRUCTION PLAN 10'-1 1/8" PLATE 2699 SF

'CAPITOL' WINDOW DESIGNATIONS



DETAIL @ DIN'G RM COL'S

FIRST FLOOR CONSTRUCTION PLAN NOTES

1. 36" H RAILING W/ MAX 4" OC SPACING BTWN BALUSTERS
2. FLUE SPACE - MIN 2" CLEAR
3. 22" x 36" ATTIC ACCESS (FIRESTOPPED @ GARAGE)
4. MIN 4" STEP UP
5. IRC BRACED WALL PANEL - SEE IRC NOTE THIS SHT
6. (2) 2X10 HEADER
7. (2) 1 3/4" x 11 7/8" ML HEADER
8. (2) 2X12 HEADER - 12'-6" LONG (PORTAL FRAME)
9. (2) 2X12 HEADER - 12'-8" LONG (PORTAL FRAME)
10. (2) 2X12 HEADER - 7'-10" LONG (PORTAL FRAME)
11. (2) 2X12 HEADER - 15'-8" LONG (PORTAL FRAME)
12. (2) 2X12 BOX BEAM
13. 600 LB HOLD DOWN
14. PREFAB TRUSSES @ 24" OC
15. PREFAB GIRDER TRUSS W/ (3) STUDS EE
16. 2X4 RAFT'S & CLG JOISTS @ 16" OC
17. 2X6 OVERFRAMING
18. (2) 1 3/4" x 11 7/8" MICROLLAM BEAM - ALUM WRAP

IRC NOTE:

'SIMPLIFIED METHOD USED'
THE INT & EXT WALL CONFIG. BRACES THE STRUCTURE IN ACCORD. W/OR EQUAL TO THE LATERAL BRACING PROVISIONS OF 2009 IRC SECT R602.10 OR 2009 IBC SECT 2305
SHEATH ENTIRE STRUCT. W/ 7/16" OSB OR PLYWD.
SEE SHT D3 FOR DETAILS

STATE OF MISSOURI
FRANKLIN D. MEHMAN, JR.
NUMBER A-2003027170
ARCHITECT

DATE: 6/15/16 (BID SET)
COMPLETE: 8/16/16
REVISIONS:

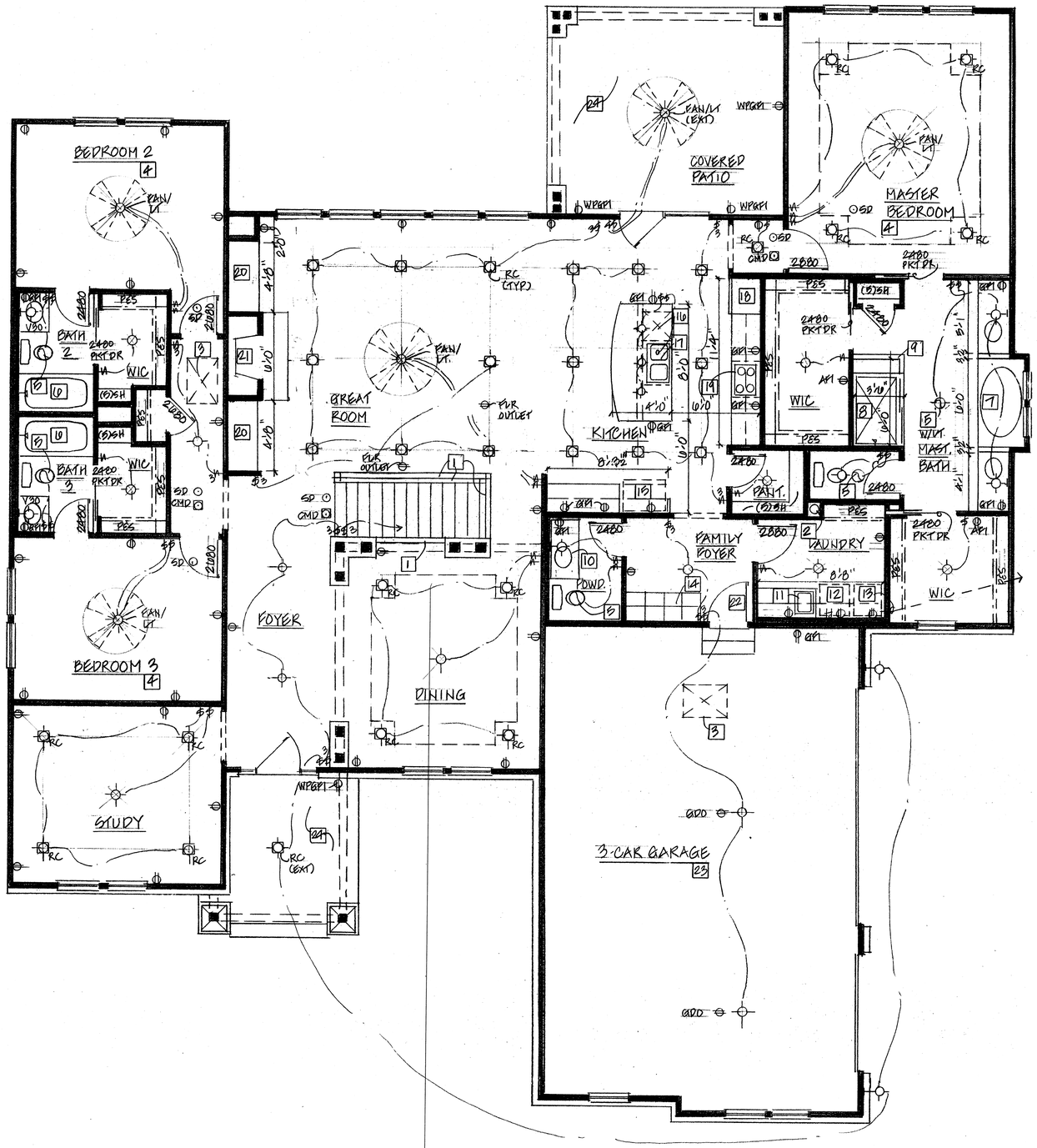
PAMELA L. AUSING
ARCHITECTURAL DRAFTING & DESIGN
3745 YAEGER ROAD
ST. LOUIS, MO 63129 (314) 845-9723
NOT A LICENSED ARCHITECT

WHALEN CUSTOM HOMES
338 S. KIRKWOOD ROAD SUITE 103
KIRKWOOD, MO 63122
(314) 575-7645

FIRST FLOOR CONSTRUCTION PLAN

DISPLAY HOME
LOT 1 STONE MILL
WILDWOOD, MO

SHEET NO 2 OF 9



FIRST FLOOR FINISH & ELECTRIC PLAN

1/4"=1'-0"

☐ FIRST FLOOR FINISH & ELECTRIC PLAN NOTES

1. 36" H RAILING W/ MAX 4" OC SPACING BETWEEN BALUSTERS
2. TUB SPACE - MIN 2" CLEAR
3. 22"X 36" ATTIC ACCESS - FIRESTOPPED IN GARAGE
4. API CIRCUITS IN THIS ROOM
5. EXHAUST FAN TO EXT - MIN 50 CFM
6. 60"X 32" TUB/SHOWER
7. 72"X 36" TUB
8. 42"X 60" SHOWER W/ TG DOORS
9. 12" SEAT W/ TG WALLS
10. FURNITURE STYLE VANITY
11. LAUNDRY SINK IN CABINET
12. WASHER SPACE W/ H&C & HI DRAIN
13. DRYER SPACE W/ 220V OR GAS HOOKUP & VENT TO EXT (IN FDN)
14. 60" CUBBIES
15. REFRIGERATOR SPACE
16. DISHWASHER
17. 36" SINK W/ DISPOSAL
18. OVENS W/ 220V OR GAS HOOKUP
19. COOKTOP W/ EXH HOOD & 220V OR GAS HOOKUP
20. BUILT INS
21. 'HEATILATOR NOVUS' 36" DIRECT VENT GAS FIREPLACE
22. 2080 SC DOOR
23. (1) LAYER 5/8" TYPE 'X' DW W/ 3½" BATT (R-13 MIN) INSUL @ ALL WALLS BETWEEN HOUSE & GAR UP TO CEILING W/ (1) LAYER 5/8" TYPE 'X' DW ON GAR SIDE
24. VINYL SOFFIT CEILING

STATE OF MISSOURI
FRANKLIN D. WHALEN, JR.
NUMBER
A-2005027170
ARCHITECT

DATE: 6/15/10 (BID SET)
COMPLETE: 8/6/10
REVISIONS:

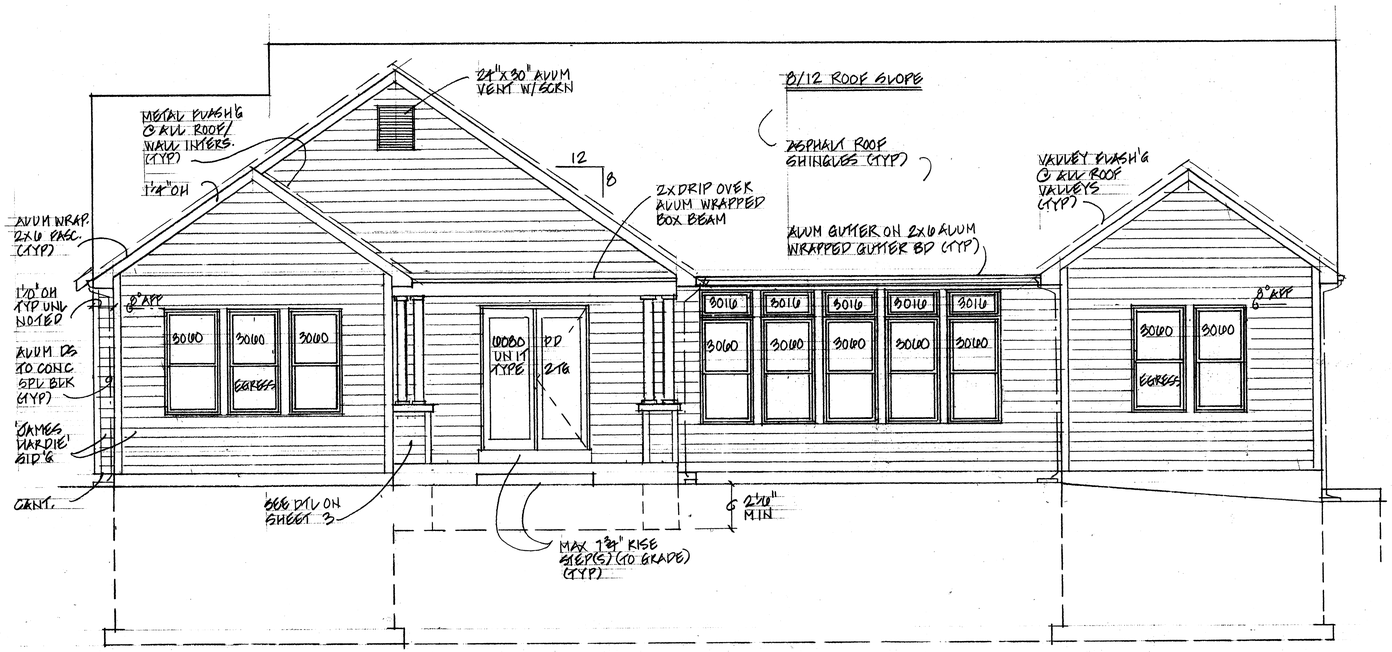
PAMELA L AUSING
ARCHITECTURAL DRAFTING & DESIGN
8745 YAEGER ROAD
ST. LOUIS, MO 63121 (314)845-9723
NOT A LICENSED ARCHITECT

WHALEN CUSTOM HOMES
1988 S KIRKWOOD ROAD
KIRKWOOD, MO 63122
(314) 575-7045

FIRST FLOOR FINISH & ELECTRIC PLAN

DISPLAY HOME
LOT 1 STONE MILL
WILDWOOD, MO

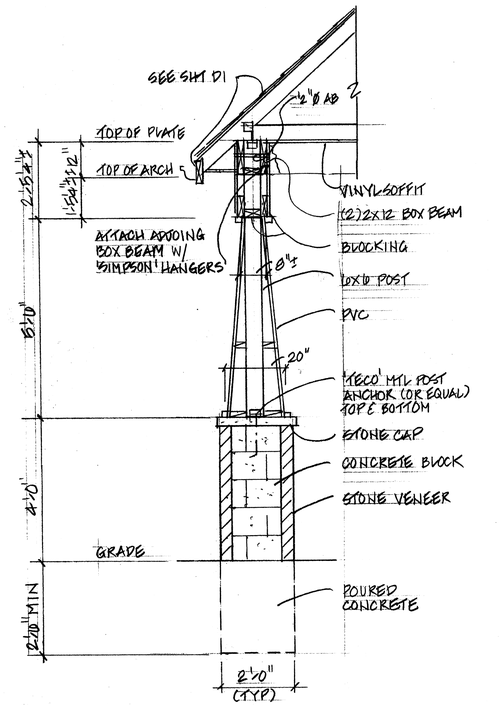
SHEET NO
2A
OF 9



REAR ELEVATION

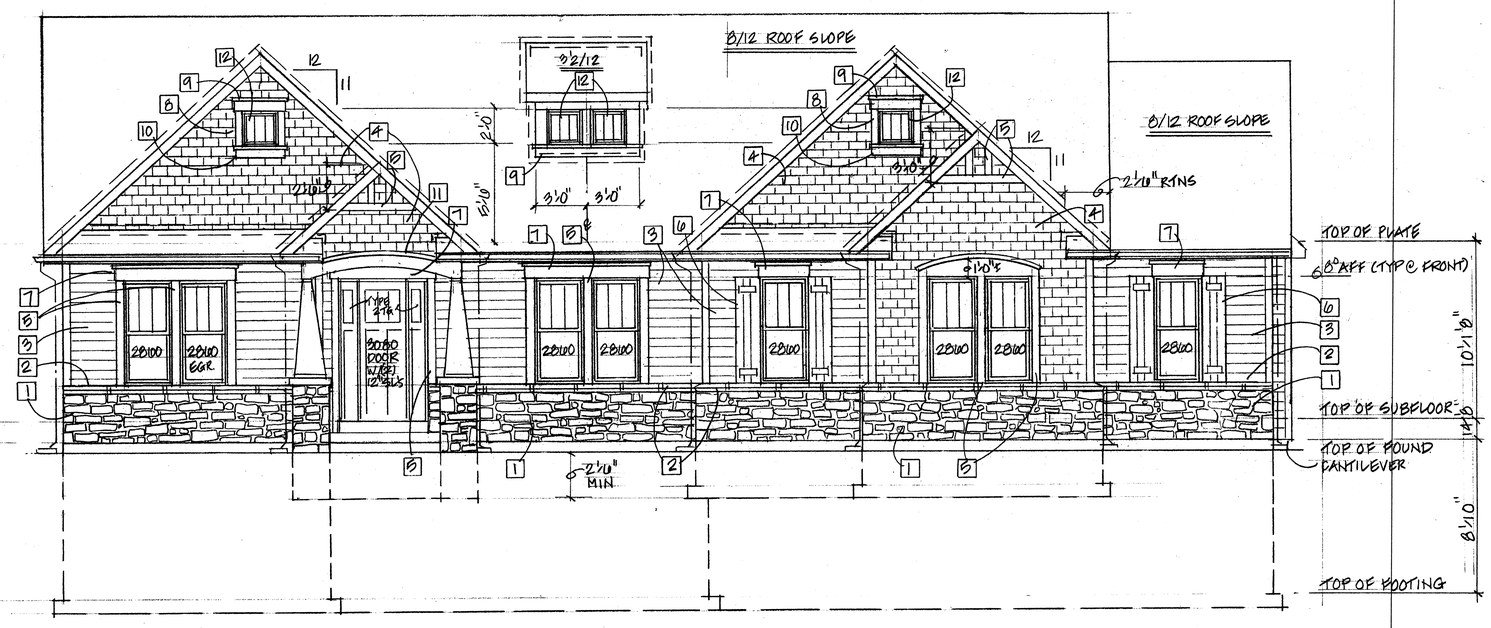
'DAPHOL' WINDOW DESIGNATIONS (TYP)

4"=1'-0"



DETAIL @ FRONT PORCH COLUMN

2"=1'-0"



FRONT ELEVATION

SEE REAR ELEVATION FOR TYPICAL INFO

4"=1'-0"

FRONT ELEVATION NOTES

1. STONE VENEER
2. CUT STONE SILL
3. 'JAMES HARDIE' LAP SIDING (E CORNERS)
4. 'JAMES HARDIE' SHINGLE SIDING (E CORNERS)
5. 1x6 TRIM
6. 16" SHUTTERS
7. 2x2 OVER 1x8
8. 1x4 TRIM
9. 2x2 OVER 1x6
10. 2x2 OVER 1x4
11. ARCHED 2x2 OVER 8" TRIM
12. 2x2 FIXED WINDOW

STATE OF MISSOURI
FREDERICK W. WEIGMAN JR.
NUMBER A-2003027
ARCHITECT

DATE: 6/15/16 (BID SET)
COMPLETE: 8/10/16
REVISIONS:

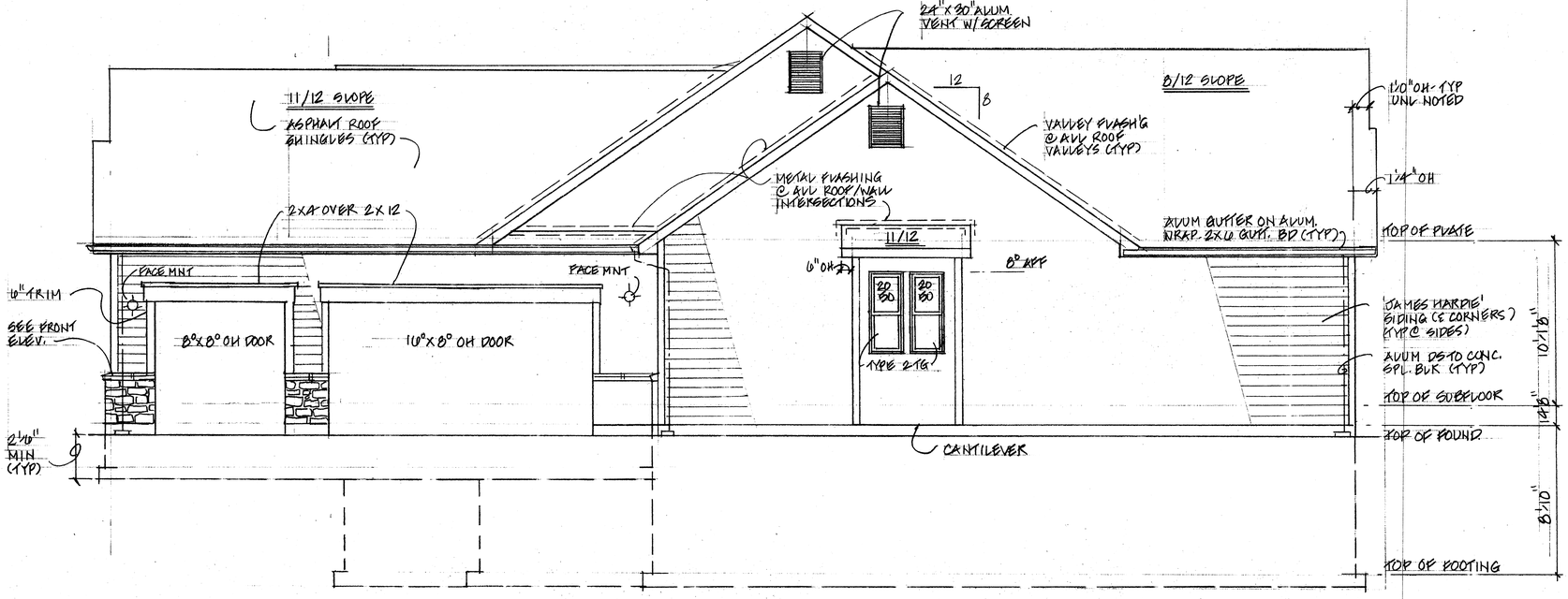
PAMELA L. AUSING
ARCHITECTURAL DRAFTING & DESIGN
3145 YAEGER ROAD
ST. LOUIS, MO 63129
(314)845-9123
NOT A LICENSED ARCHITECT

WHALEN CUSTOM HOMES
998 S. KIRKWOOD ROAD SUITE 103
KIRKWOOD, MO 63122
(314)576-1045

FRONT & REAR ELEVATIONS

DISPLAY HOME
LOT 1 STONE MILL
WILDWOOD, MO

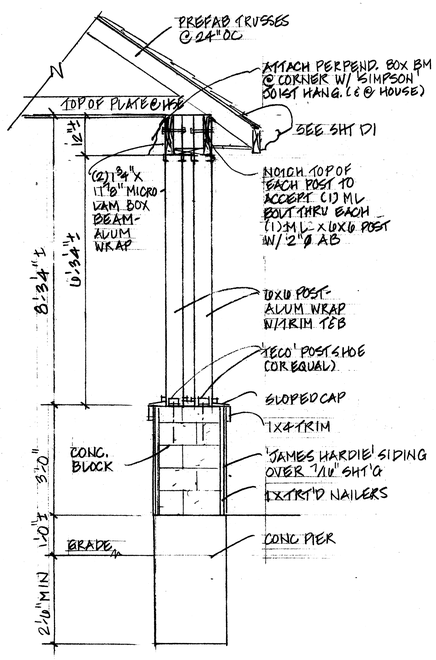
SHEET NO
3
OF 9



RIGHT SIDE ELEVATION

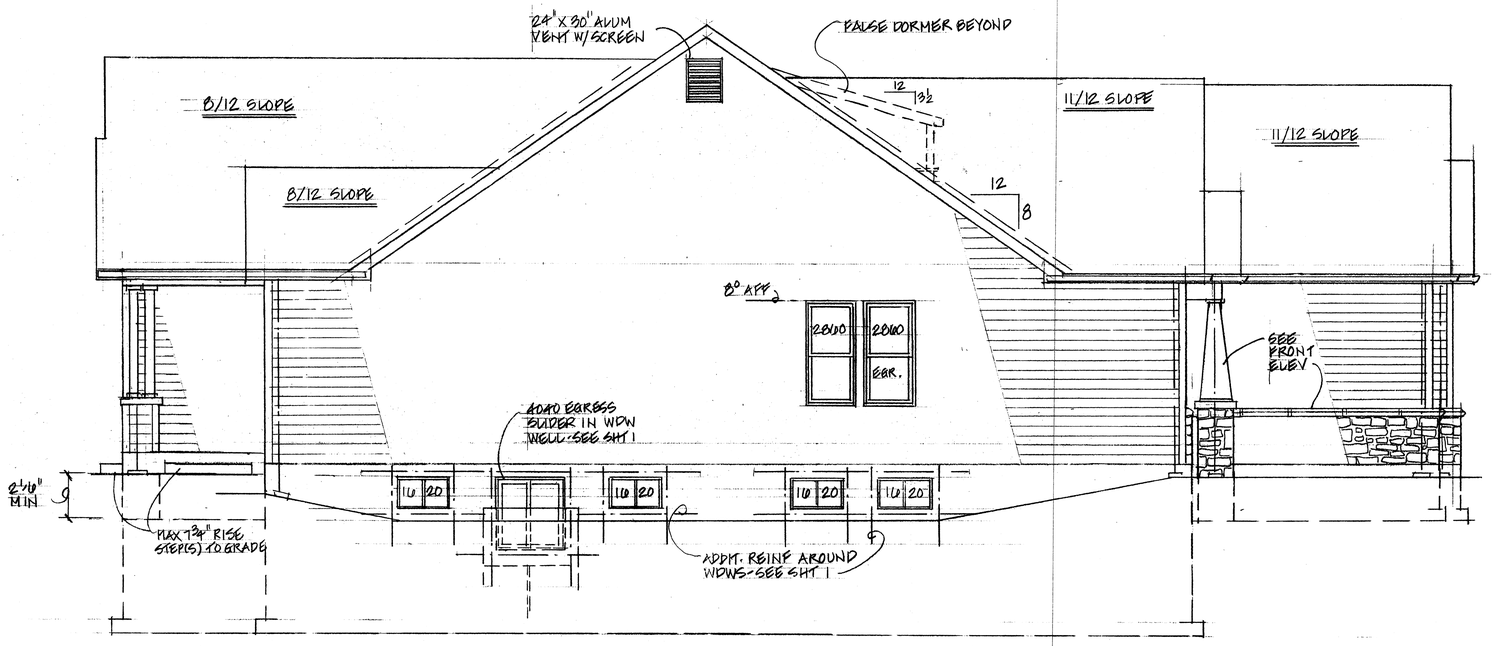
'CAPITOL' WINDOW DESIGNATIONS (TYP)

4"=1'-0"



DETAIL @ REAR PORCH

1 1/2"=1'-0"



LEFT SIDE ELEVATION

SEE RIGHT SIDE ELEV. FOR TYP INFO

4"=1'-0"

STATE OF MISSOURI
FRANKLIN D. WISEMAN JR.
NUMBER A2003024770
ARCHITECT

DATE: 10/15/10 (BID SET)
COMPLETE: 8/16/10
REVISIONS:

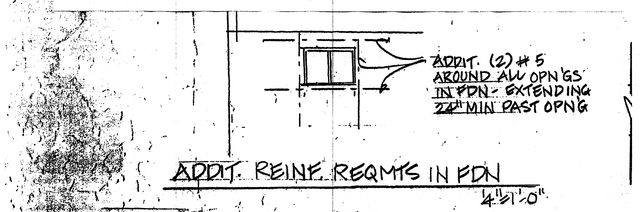
PAMELA L. AUSING
ARCHITECTURAL DRAFTING & DESIGN
2345 YAEGER ROAD
ST LOUIS, MO 63129 (314)845-9723
NOT A LICENSED ARCHITECT

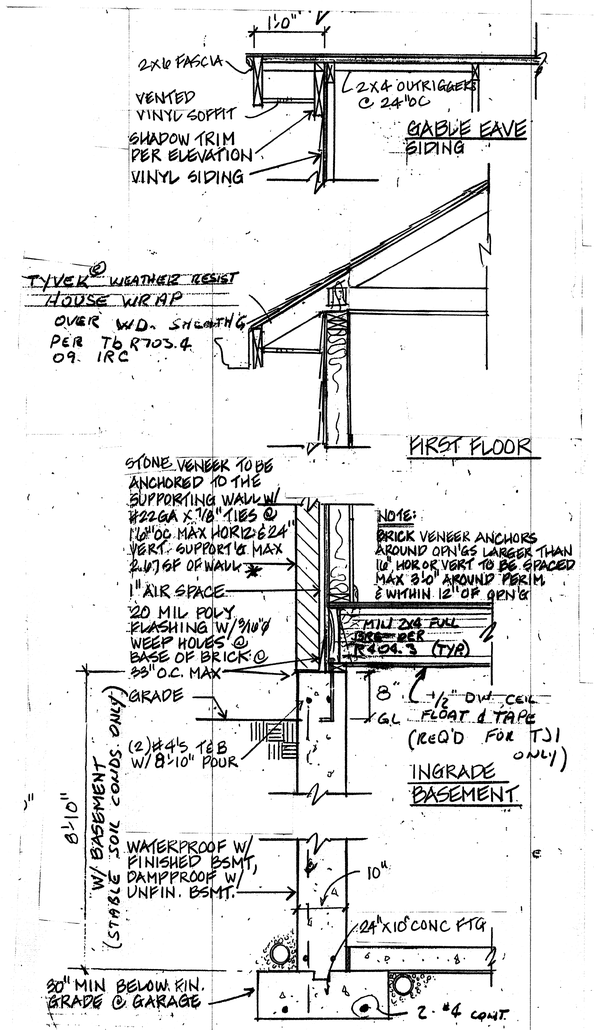
WHALEN CUSTOM HOMES
398 S. KIRKWOOD ROAD SUITE 105
KIRKWOOD, MO 63122
(314)615-0045

SIDE ELEVATIONS

DISPLAY HOME
LOT 1 STONE MILL
WILDWOOD, MO.

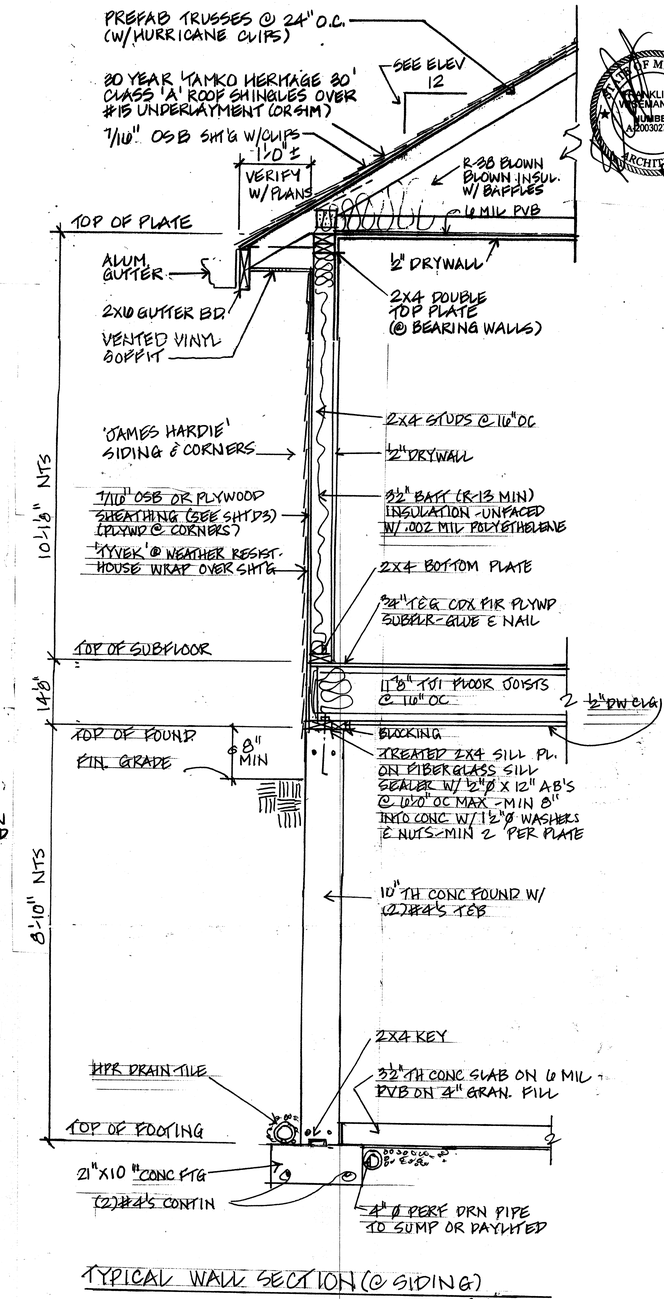
SHEET NO
4
OF 9





NOTE:
SEE GENERAL NOTES FOR ADDITIONAL INFORMATION

* BRICK VEN. ANCHORS AROUND OPEN'GS LARGER THAN 16" IN EITHER DIRECTION SHALL BE SPACED 3'-0" O.C. MAX AROUND PERIMETER AND WITHIN 12" OF OPEN'G.



TYPICAL WALL SECTIONS

CUTTING OF STRUCTURAL FRAMING (W/ DIMENSIONAL LUMBER ONLY) N/A
PIPE NOTCHES: NOTCHING OF THE TOP OR BOTTOM OF THE JOIST FOR PIPING SHOULD NOT BE MORE THAN ONE SIXTH OF THE JOIST DEPTH AND SHOULD BE LOCATED ONLY IN THE END ONE THIRD OF THE SPAN
DRILLED HOLES IN JOISTS: HOLES MAY BE BORED IN JOIST IF THEIR DIAMETER IS NO GREATER THAN 1/3 AND THE EDGE OF THE HOLE IS NOT LESS THAN 2 INCHES FROM THE TOP OR BOTTOM EDGE OF THE JOIST. THIS LIMITS HOLE DRILLING TO A JOIST SIZE OF 2X8 OR GREATER.

STATE OF MISSOURI
FRANKLIN D. FREEMAN, JR.
NUMBER A-2003027177
ARCHITECT

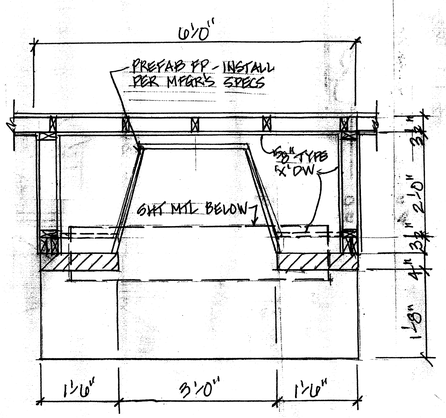
DATE: 4/16/02
REVISIONS: 5/7/14

PAMELA L. AUSING
ARCHITECTURAL DRAFTING & DESIGN
5775 THEBERT ROAD
ST. LOUIS, MO 63129
(314) 846-1045
NOT A LICENSED ARCHITECT

WHALEN CUSTOM HOMES
938 S. KIRKWOOD ROAD SUITE 103
KIRKWOOD, MO 63122
(314) 966-1045

WALL SECTIONS & MISC. DETAILS
ONE STORY INGRADE

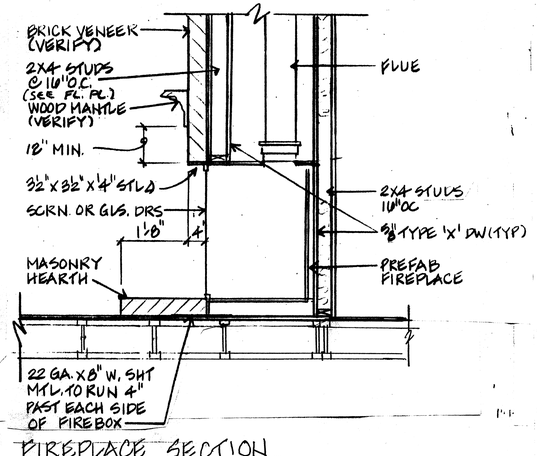
SHEET NO
D1



FIREPLACE PLAN

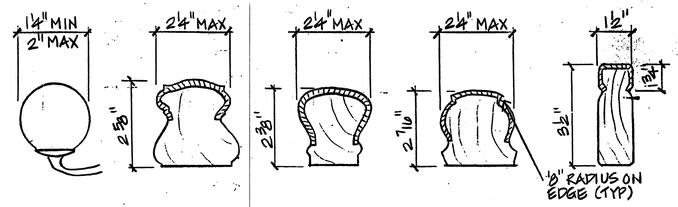
3/4"=1'0"

FIRESTOP REQ'D @ ALL CEILING LINES & ATTIC SPACES W/ 5/8" TYPE 'X' DW & 24" PLYWOOD OR SHT MTL. SEPARATE SHUT OFF REQ'D FOR GAS.



FIREPLACE SECTION

3/4"=1'0"

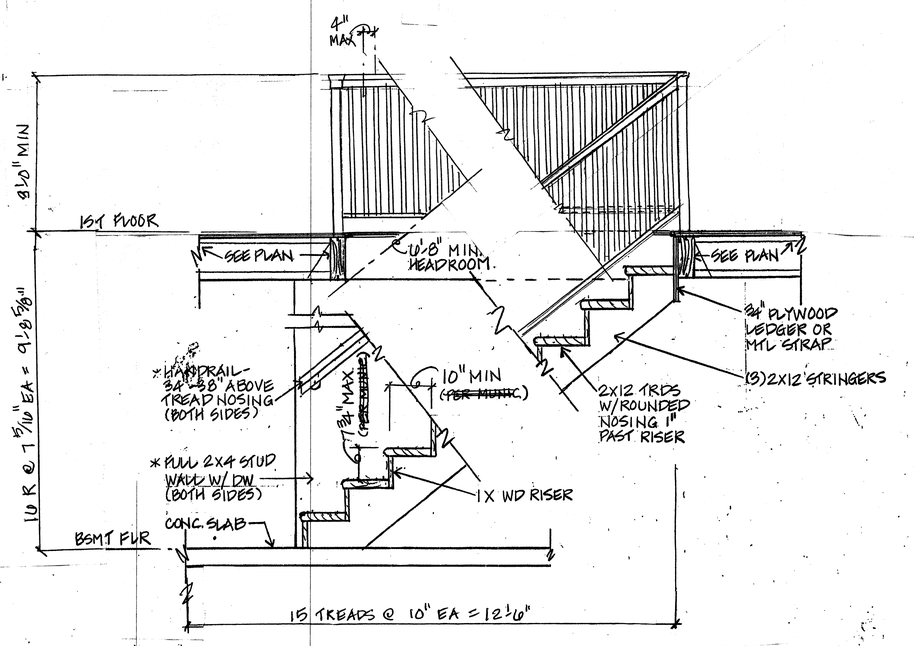


ACCEPTABLE RAIL PROFILES

DENOTES GRASPABLE PERIMETER

HANDRAILS SHALL MEET EITHER:
- CIRCULAR CROSS SECTION W/ MIN Ø OF 1¼" BUT LESS THAN 2"
- OTHER SHAPES HAVING A MAX. ALLOWABLE HORIZ. WIDTH OF 2¼", MAX. GRASPABLE PERIMETER DIMEN. OF 6¼" AND/OR MIN. 4" GRASPABLE DIMENSION

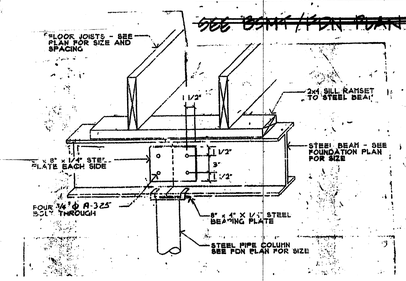
ALL RAILS TO BE CONTINUOUS & RETURN TO WALL OR NEWEL POST EA. END; NO "LADDER" DESIGN

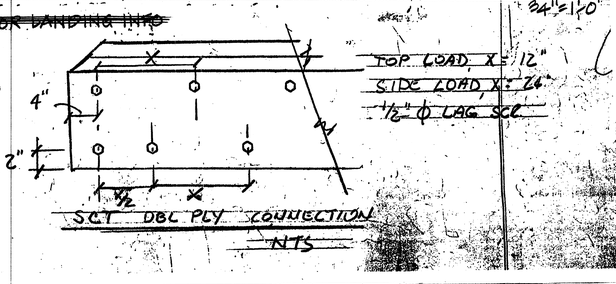


TYPICAL STAIR SECTION (U.N.O. ON SPECIFIC PLAN)

3/4"=1'0"

~~SEE BSMT/FDN PLAN FOR LANDING REQ'D~~





PAMELA L. ALSING
ARCHITECTURAL DRAFTING & DESIGN
3145 YAEGER ROAD
ST. LOUIS, MO 63129
(314) 845-9723
NOT A LICENSED ARCHITECT

STATE OF MISSOURI
STEPHANIE O. FREEMAN, JR.
NUMBER A-2002177170
ARCHITECT

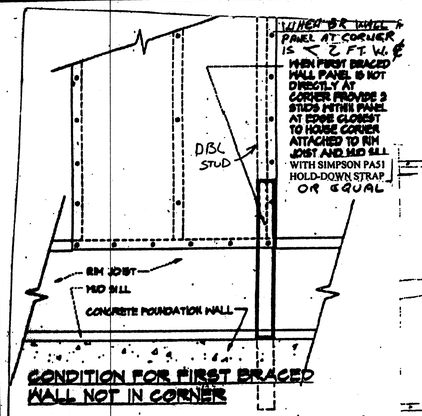
DATE: 9/20/05
REVISIONS: 5/8/15

WHALEN CUSTOM HOMES
938 S. KIRKWOOD RD STE 103
KIRKWOOD, MO 63122
(314) 515-7045

STAIR SECTION & MISC DETAILS

ONE STORY INGRAPE

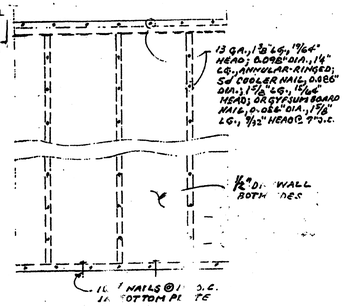
SHEET NO
D2



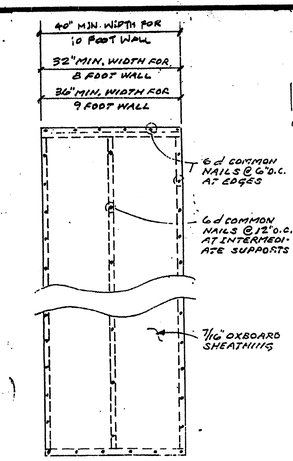
CONDITION FOR FIRST BRACED WALL NOT IN CORNER

(ALL EDGES BLOCKED W/MIN 1½" W. FRG)

EXTERIOR BRACED WALL (REF: R602.10. OF 2009 IRC) *

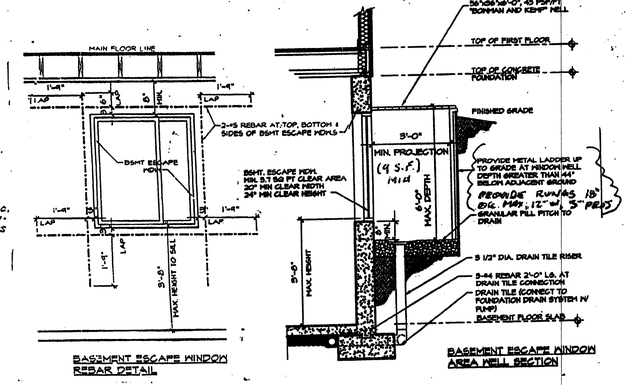


INTERIOR BRACED WALL



EXTERIOR BRACED WALL PANEL

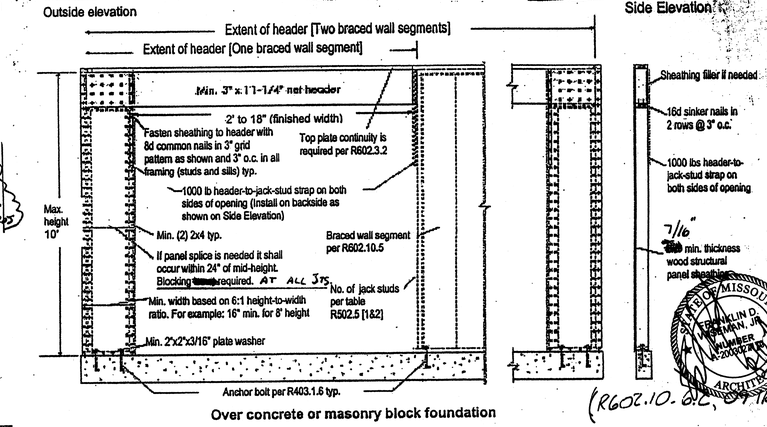
(ALL EDGES BLOCKED WITH MIN. 1½" W. FRAMING



BASEMENT ESCAPE WINDOW REBAR DETAIL

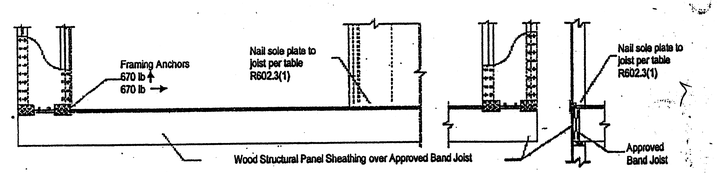
BASEMENT ESCAPE WINDOW AREA WELL SECTION

36" H. GUARD REQ'D 24" MIN TO WALKWAYS

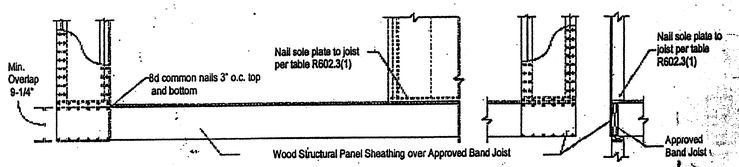


Over concrete or masonry block foundation

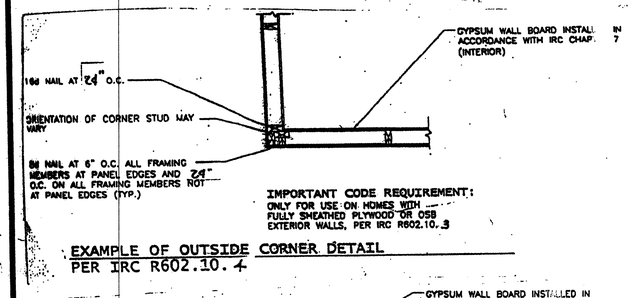
(R602.10. 6.c, 09 IRC)



Over raised wood floor or second floor – framing anchor option

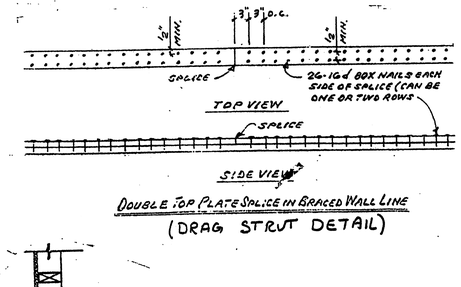


Over raised wood floor or second floor – Wood structural panel overlap option



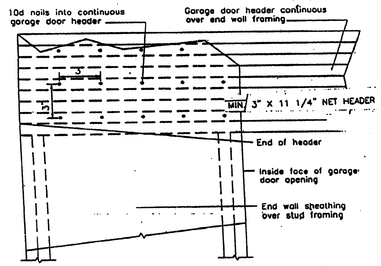
IMPORTANT CODE REQUIREMENT:
ONLY FOR USE ON HOMES WITH FULLY SHEATHED PLYWOOD OR OSB EXTERIOR WALLS, PER IRC R602.10.3

EXAMPLE OF OUTSIDE CORNER DETAIL PER IRC R602.10.4

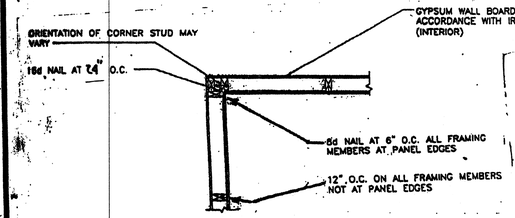


DOUBLE TOP PLATE SPLICE IN BRACED WALL LINE

(DRAG STRUT DETAIL)

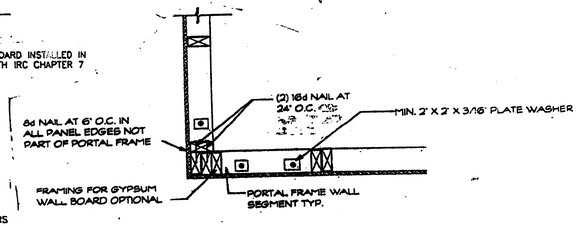


GARAGE DOOR HEADER OVER NARROW END WALL

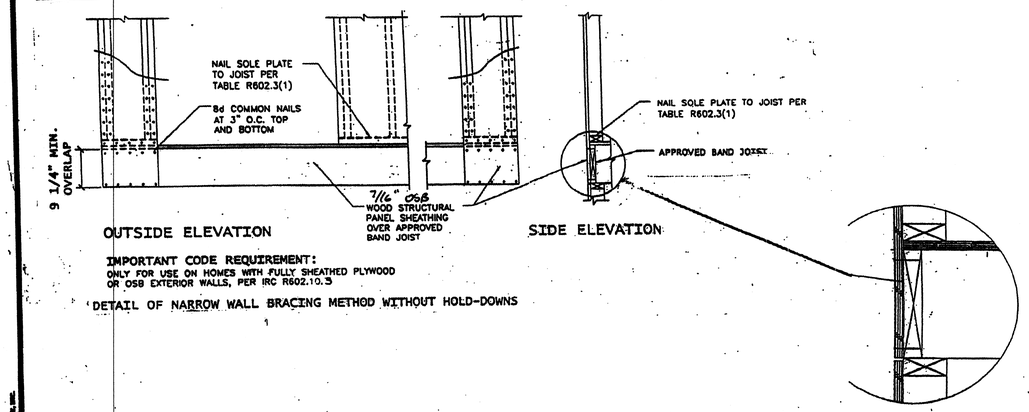


IMPORTANT CODE REQUIREMENT:
ONLY FOR USE ON HOMES WITH FULLY SHEATHED PLYWOOD OR OSB EXTERIOR WALLS, PER IRC R602.10.5.

EXAMPLE OF INSIDE CORNER DETAIL PER IRC R602.10.4



CORNER DETAIL USED IN CONJUNCTION WITH 6:1 ASPECT RATIO FRAME

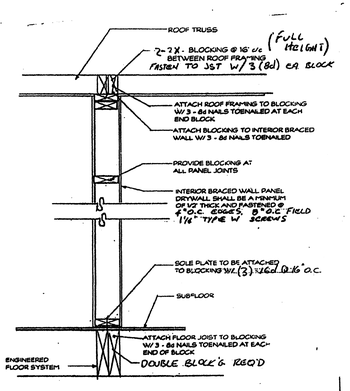


OUTSIDE ELEVATION

SIDE ELEVATION

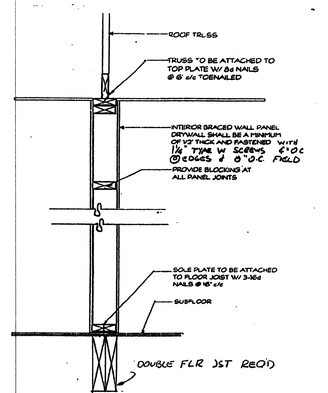
IMPORTANT CODE REQUIREMENT:
ONLY FOR USE ON HOMES WITH FULLY SHEATHED PLYWOOD OR OSB EXTERIOR WALLS, PER IRC R602.10.3

DETAIL OF NARROW WALL BRACING METHOD WITHOUT HOLD-DOWNS



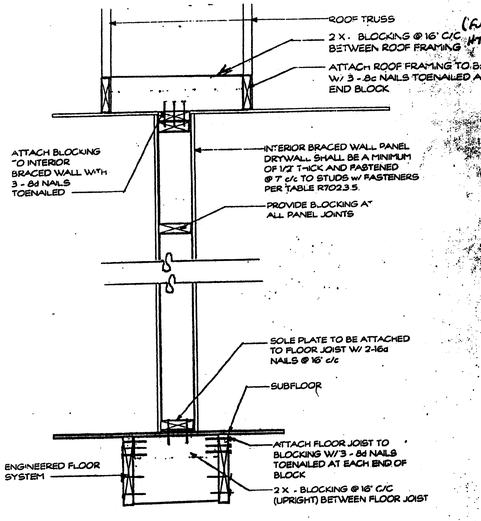
INTERIOR BRACED WALL PERPENDICULAR W/ TRUSS & JOIST

NOT TO SCALE



INTERIOR BRACED WALL W/ TRUSS & JOIST DIRECTLY ABOVE AND BELOW

NOT TO SCALE



INTERIOR BRACED WALL W/O TRUSS & JOIST DIRECTLY ABOVE AND BELOW

NOT TO SCALE

* CITY OF BALLWIN, 2006 IRC

DATE: 5/2/14

IRC BRACING

SHEET NO D3

WHALEN CUSTOM HOMES
338 S. KIRKWOOD RD STE 103
KIRKWOOD, MO 63122
(314) 575-1695

GENERAL BUILDING NOTES

1. The general or grading contractor is responsible for providing a minimum safe soil bearing capacity of 1500 psf (2000 psf if certified by a Missouri registered soils engineer) for all foundation footings. No foundation footings shall be placed on fill dirt. Design shall conform to Seismic Design Category "A/B" per Sec R301.2.2 of the 2009 International Residential Code for one and two family detached dwellings. All others shall conform to Seismic Design Category C unless soils reports indicate a seismic condition requiring stricter seismic considerations. *

2. Backfill shall be free of debris and large rocks, installed in lifts and each lift compacted to fill all voids.

3. Fc=3500 psi @ 28 days (min) concrete, air entrained per table R402.2 of the 2009 IRC or as * required by local codes.

4. Concrete basement foundation walls with more than 20% exposure above finish grade to be insulated w/products meeting the following criteria: flame spread rating less than 25; smoke development rating less than 450; can be left exposed without an approved 15 min. thermal barrier (1/2" drywall); R-13 min. insulation value. Extend insulation down to 24" min. below outside finish grade (or to basement slab). Fiberglass batts or blanket. No foam products allowed.

5. Concrete piers to be 30" min. below grade and 24"min. into undisturbed earth. Flare bottom of piers per plan.

6. Basement to have glass area equal to 1/150th of total area.

7. Basement to have vent area to 1% of total area.

8. Basement wall and floors of habitable and occupied spaces are to be water tight and properly reinforced to withstand water pressure as necessary.

9. 6 mil poly vapor barrier required under concrete slabs with lapped joints minimum 6".(basement and garage floors affected.)

10. No ground water present-provide drain tile or perforated pipe around perimeter of the outside of the foundation or inside the foundation under the slab. Drain discharge shall be gravity to daylight or be connected to a basement floor sump. Basement area way drains and foundation drain tiles are not to be connected to a sanitary sewer.
   A) An approved filter membrane shall be placed on 2" minimum gravel or crushed stone and have 6" minimum cover.
   B) Provide sump, 15" in dia. x 18" deep with a fitted cover connected to the foundation drain pipe unless gravity discharge. A sump shall be provided if basement is finished with pump discharge into an approved disposal system.
   C) Provide damp-proofing of floor slab of 6 mil polyethylene film below slab with joints in membrane lapped and sealed.
   D) Walls shall be dampproofed with a bituminous material, 3 lb. per sq. yd. of acrylic modified cement, 1/8" coat of surface bonding mortar, or by any of the materials permitted for wall waterproofing.

10.1 Groundwater present-provide drainage system inside and outside of foundation.
   A) Drainage system shall discharge by gravity to daylight or be connected to an approved sump (15" in diameter by 18" deep fitted cover) having a sump pump that discharges into an approved disposal system. Basement area way drains and foundation drain tiles are not to be connected to a sanitary sewer.
   B) Provide waterproofing membrane under floor slab of rubberized asphalt, butyl rubber, neoprene or minimum 6 mil polyvinyl chloride or polyethylene with joints lapped a minimum of 6" and sealed.
   C) Foundation to be waterproofed with two ply hot-mopped felts, 6 mil PVC, 40 mil polymer asphalt or 6 mil polyethylene. Joints to be lapped and sealed per manufacturers installation instructions.
   D) Waterproofing to be applied from the bottom of the wall to at least 12" above the water table elevation. The remainder of the wall to be dampproofed. All joints in walls and floors to be watertight.

11. Steel and wood beams to have 4" minimum bearing in pocket and grouted solid.

12. All lumber is to conform to Table 1, American Lumber Standards Committee as indicated on this sheet.

13. Roof overhang-2 layers of 15# felt (Type 1 per ASTM D226-95) cemented together from eave 24"inside building wall.. Full 15# felt on all roof surfaces in compliance with 2009 IRC and local * ordinances.

14. Attic to have a minimum venting equal to 1/150th of total area. Two (2) remote vents required for each (min) Where ridge or gable vents are used, ½ of the area to be provided by ridge or gable vents and ½ by eave or cornice vents. Ventilation cannot be mechanical only.

15. Aluminum flashing is required at roof/wall and chimney/roof intersections.

16. Corrosion resistant flashing is required at the top and sides of all exterior window and door openings, all wall and roof intersections, changes in roof slope or direction, around all roof openings, intersections with chimneys, intersections of exterior walls and porches & decks, etc. ~~Two (2) layers of 15# felt (type 1 per ASTM D226-95) may be used for flashing at roof valleys~~ [illegible].

17. Caulking and sealants: Exterior joints around window and door frames; between wall cavities and window or door frames; between wall and foundation, between wall and roof, between wall panels at penetrations or utility services through walls, floors and roofs, and all other openings in the exterior envelope shall be sealed in an approved manner.

18. All exposed materials for porches, soffits, overhangs, etc. to be approved exterior grade materials.

19. Fireblocking is required at all interior bearing partitions, furred spaces & between stair stringers attop and bottom of run, between stair stringers at the top and bottom of the run. Enclosed accessible spaces under stairs shall have walls, under stair surface and any soffits protected on the enclosed side with ½" gypsum board. Fire blocking required for all spaces between the chimney and the floors and ceilings the chimney passes through with 1" depth batt or blanket or mineral wool or glass fiber supported by strips of metal or metal lath. Fire blocking required around vent, pipe and duct penetrations of ceilings and floors.

20. Firestop all dropped ceilings, soffits, and partitions over 8'-1-1/8" high. Ceilings suspended below wood joists or attached to wood floor trusses to be draft-stopped at 1000 sq. ft. intervals and parallel to the framing members.

21. Top and bottom of all conventional and staggered-stud walls to be firestopped.

22. Double floor joists below parallel partitions.

23. All door and window headers: 2-2x10's unless noted otherwise. All headers to conform to Table 1 ALSC, this sheet U.N.O.

24. All nailing must comply with table R602.3.(1), (2) of the 2009 IRC *

25. Drywall installation to be in accordance with the Gypsum Association's recommended practices as to the thickness, nailing and taping on correct spacing and Table R602.3.1 of the 2009 IRC *

26. All fire rated drywall assemblies shall be installed in accordance with the specifications of the approved test assembly

27. Water resistant gypsum board is required in bath tub and shower areas (DO NOT INSTALL OVER VAPOR BARRIER)

28. Interior finish materials shall not have flame spread ratings exceeding 200. If batt or blanket insulation including facings, vapor retarders or other vapor permeable membranes are exposed, material shall have a flame spread rating of 25 or less and a smoke development rating of 450 or less. Foam plastics shall have a flame spread rating of 75 or less and a smoke development rating of 450 or less

29. Air infiltration rate for windows shall not exceed 0.5 CFM per foot of sash track. Doors shall not exceed 0.5 CFM per sq. ft. of door area. Glazing in any portion of a building wall enclosing bathtubs, showers, hot tubs, etc. which is located less than 60" above a standing surface shall be tested and labeled in accordance with CPSC 16 CFR Part 1201 Standard as a Type I or Type II category safety glazing material.. Any glazing material exceeding 9 s.f. in area is required to be safety glazing in accordance with the following categories:
   a. Glazing in doors enclosing bathtubs, showers, hot tubs, whirlpools, saunas, steam rooms, spas, (TYPE II only), indoor or outdoor pools which is located 60" or less, measured horizontally, from the water's edge and less than 60" vertically above a standing surface
   b. Any glazing material within a 24" a4rc of either vertical edge of the door in a closed position and if the bottom edge of he glazing material is less than 60" above the floor.
   c. Fixed or operable panels that have individual panes greater than 9 ft. and bottom edge less than 18" above the floor and top edge more than 36" above floor and walking surface within 36" horizontally
   d. All doors
   e. Glazing in hand or guard rails
   f. Glazing adjacent to stairways, landings and ramps within 36" horizontally of the walking surface. And glazing adjacent to stairways within 60" horizontally of the gbottom tread in any direction when the exposed surface of the glass is less than 60" above the tread nosing

Bathrooms must have 50 CFM min. exhaust to exterior; Kitchen range exhaust fan and/ or down-draft cook top must have 100 CFM min. and 599 CFM max. (Also see note 53) exhaust to exterior; and clothes dryer must be vented to exterior and ducted independent of all other systems through a min. 4" dia. smooth duct. Maximum length of duct to be 25 ft.

31. House to have aluminum gutters and downspouts. Do not connect to sanitary sewers

32. Downspouts shall direct water away from foundation so as to prevent erosion

33. It is the contractor's responsibility to see that the stairway, handrails, balusters and connections are designed, fabricated and installed in accordance with 2009 IRC code requirements as required by * local ordinance. Handrails shall either meet A) circular cross-section with minimum diameter of 1-1/4" but not more than 2" B)other approved shapes having a maximum graspable perimeter dimension of 6-1/4", or minimum 4" graspable perimeter dimension. Maximum allowable handrail projection into stair width is 4 ½". Handrails must be continuous and return to either a newel post or wall at each end. Stairways require lighting w/illuminated switches, 10 footcandles min., measured at every tread nosing. Ext. stairs 1 footcandle

34. All wiring copper w/ ground and comply with all national, state, and local codes. Closet lighting per NEC 410-8, kitchen island receptacles per NEC 210-52. Receptacles for ranges and clothes dryers to be 3 pole ground type. Bedroom circuits to be arc protected

35. Grounding: If the underground metal water pipe is used as the grounding electrode, the connection must be made to the pipe within 5' of the point of entrance to the building. A supplemental grounding electrode shall be provided as specified in NEC 250-50 and 250-53

36. All electrical outlets in kitchen, baths, basement, garage and all other exterior electric outlets to be GFCI type. All circuits in bedrooms to be AFCI.

37. Garage/house separating partitions and garage ceiling constructed with 5/8" type X gypsum board (1 hour fire rated assembly) Basement garage or garage with 2nd story above: Ceiling and floor separating garage from dwelling to be 1 hour fire rated assembly of 5/8" type X gypsum board. Soffit down around any mechanical ductwork with 5/8" type X gypsum board. Garage/house separating partitions to be 1 hour fire rated each side of stud. All bearing walls, beams, and columns/wood posts to be wrapped with 1 hour assembly of l5/8" type X gypsum board. All soffits, eaves and overhangs within 5 ft. of a property line must be fire rated. See plans.

38. Smoke detectors to be AC powered with battery backup, UL listed and installed in accordance with NFPA 72-07. Detectors to be interconnected. Hallway detectors shall be located upstream from return air grilles. All bedrooms and each level of a residence must have a carbon monoxide detector. (UL 2034-2008/9)

39. No-lead solder required on all copper water supply piping

40. Plumbers Note: The incoming water service line for dwelling shall be sized as follows: 1" service line-up to 3 ½ baths, 1-1/4" service line-up to 6 baths, and 1 ½" service line-more than 6 baths. This count includes 1-kitchen sink with dishwasher, 1 clothes washer supply and laundry sink, and 2-1/2" exterior continuous use hose bibbs Roughed-in fixtures shall be included in this count.

41. Water service pipe and the building sewer are to be a minimum of 10 ft. apart horizontally

42. Door separating garage from the house is to be 1-3/4" solid core (1 hour fire rated) Door sill to be 4" minimum above garage floor

43. All footings shall be placed on virgin soil (undisturbed subgrade)

44. Finish grade to be 8" min. below top of foundation (6" min. for full masonry walls)) and slope away from foundation6" IN 10 FT.All areas sloped away to lower elevations

45. Heating contractor to furnish duct layout and heat loss/gain calculations

46. Roof trusses to comply with AFPA NDS-91 and TPI 1-2002; and roof truss manufacturer to furnish Missouri engineer-sealed drawings.

47. Parallam, Microlam, etc installations to be in strict accordance with manufacturer's recommendations. Minimum properties of all structural lumber assemblies to meet or exceed E=1.7, Fv=285 psi, Fb=2600 psi

48. All wood connections shall be in strict accordance with current AITC standards

49. The structure specified on this drawing set is certified as designed. Any additional design work including site plan, lot survey, mechanical details,. Any special foundation design if required soil conditions cannot be met is the responsibility of the builder unless specifically addressed in this set by the design professional

50. Insulating requirements: Roof/ceiling min. R-30; Frame walls and band joists min.R-13; Floor over unheated crawl space min. R-19; Basement foundation wall min. R-13; Slab on grade floor min. R-10 (unheated) R-15 (heated); Windows and doors max. U-.40

51. Entry doors: Locks with thumb turns on the inside are permitted. Inside key operation is permitted provided the key cannot be removed from the lock when locked from the inside

52. Each gas appliance shall have a gas shutoff valve and ground joint union. A sediment trap is required at each appliance or group of appliances. Gas piping shall be identified at intervals of no more than 5 ft. Vibration isolators shall be installed between mechanical equipment and metal ducts.

53. Vibration isolators shall be fabricated from approved materials and shall not exceed 1" in length. Minimum appliance clearance from combustibles is 18" and minimum clearance in front of appliances for services 30" Make-up air shall be provided during the operation of kitchen exhaust systems of 600 CFM or greater exhaust flow. (See M1502.4)

54. Cutting, notching and/or boring holes in wood beams, joists, rafters, or studs shall not exceed the limitations noted in R602.3.1 through 4, R502.8 and R802.7 of the 2009 IRC Code and as required * by local ordinance. Stud reinforcement to be done in accordance with R602.6 of the 2009 IRC

55. Nailing and fastening of floor, roof/ceiling, wall and roof sheathing, and gypsum const. shall be in accordance with R602.3.1 through 4 of the 2009 IRC in compliance with local ordinance. *

56. Combustible trim and mantles attached to the fireplace face shall be a minimum of 6" from the opening. Combustible material above & projecting more than 1 ½" from a fireplace face wall shall have a minimum clearance of 12" above a fireplace opening

57. Minimum depth of masonry fire box to be 20". Size of chimney connection to the smoke chamber shall have a minimum of 50 sq. in. in cross-sectional area.

58. The walls of the throat and smoke chamber shall be a minimum of 8" solid masonry or 4" of solid masonry with at least 1" of insulating refractory masonry

59. Masonry chimneys shall be constructed of 4" minimum solid masonry or 12" rubble stone masonry & shall be lined with minimum 5/8" thick fire-clay lining or other approved lining

60. Fireplace liner shall extend a minimum 4" into the throat of a masonry fireplace

61. Hanging light fixtures, track lighting & ceiling fans are not to be installed within 36" horizontal of bath tub, measured from outside edge of tub & 96" vertically from top of tub rim. Electric receptacles are prohibited in bath tub or shower space. Shower floors and shower, bathtub/shower enclosure walls to be constructed of smooth noncorrosive, nonabsorbant and waterproof materials to a height of 72" min. above floor

62. General contractor to affix a metal or of other durable material, sign reading "WARNING-TRUSSES NOT DESIGNED FOR STORAGE" in attics on each side of scuttle hole openings, 36" above bottom chord and within 18" of edge, 40 sq. in. in area using ¾" letters. Additionally a 2x4 horizontal railing is to be affixed on each side – 24" min. height and 36" max. height

63. All construction to be in accordance with the 2009 IRC, 2008 National Electric Code, the ~~2009 International Mechanical Code~~ * and the 2009 Uniform Plumbing Code and all local ordinances unless otherwise indicated. Where construction does not meet the 2009 IRC, construction documents will be supplied either by the contractor or design professional of record showing compliance with the 2009 International Building Code. (2006 IBC - BALLWIN, MO)

64. Windows: All skylights shall be double-glazed with maximum U value of 0.60. Windows for natural ventilation of unfinished basements may be single glazed. All other windows shall comply with one of the following conditions: For window areas that do not exceed 24% of the gross insulated frame wall area or the entire building:
   a) Use double glazed windows with ½" minimum (gross overall thickness) clear glass, with either aluminum frame with thermal break, vinyl frame, wood frame, or fiberglass frame. OR
   b) Use a window having a maximum overall U value not more than 0..40

   For window areas greater than 24% and not more than 30% of the gross insulated frame wall area of the entire building, use one of the following options: Use double glazed windows with ½" min. (gross overall thickness) clear glass, with either aluminum frame with thermal break, vinyl frame, wood frame or fiberglass frame with one of the following options:
   1. Treated with Low E film
   2. Exterior wall sheathed with a minimum ½" sheathing with an R- value of R3 min.
   3. Max U value of all windows shall not exceed 0.40

65. Contractor to install sign stating the house is equipped with dryer duct clean-outs when clean-outs are installed.

66. Mechanical contractor is required to install a programmable thermostat.

67. Electrical contractor is to install at least one communication outlet within the dwelling and cabled to the service provider demarcation point. The communication system shall have an interior bonding terminal.

68. Foam insulation products to be separated from interior by 1/2" thick gypsum.

69. No exposed or partially exposed or pendant lights allowed in closets. Maintain 12" clearance between light fixture and storage for incandescent lighting and 6" clearance for flourescent lighting.

70. Shower, shower floor and shower/bath enclosures to be smooth, non-corrosive, non-absorbent and waterproof up to 6 ft. 0 in. above floor.

71. Clearance for all mechanical equipment shall be 18 inches sides and back and 30 inches front.

72. All bedroom, habitable attics and basement to have a minimum of one egress window with 44 inches maximum dimension from finished floor to bottom of clear opening, 20 inches minimum width of clearance and 24 inches minimum height of clear opening. The shall also be a minimum open area for each egress window of 5.7 sq. ft. Egress openings in basement walls shall conform to the detail on this sheet.

73. The contractor shall insure all fuel gas appliances meet the requirements of the 2009 IRc, * specifically Sec G2407-Combustion and Ventilation Requirements, Sec. G2408 Installation Requirements, Cec G2409, Clearance Requirements

* CITY OF BALLWIN - 2006 IRC

74. Roof Valleys (Open) Either 24" wide metal per Table 905.2.8.2 or two plies of mieral surfaced roo roofing, ASTM D3909 or D6380 Class M-bottom layer 18 w., top layer 36" w. (Closed)-one ply smooth roll roofing ASTM D6380, 3 in. w.or self-adhesive polymer underlayment, ASTM D1970

STATE OF MISSOURI
FRANKLIN D. WISEMAN, JR.
NUMBER A-2003027170
ARCHITECT

75. A waterproof GFCI receptacle is required within 25 ft. of the outside A/C condenser

SOUTHERN PINE REFERENCE DESIGN VALUES

Based on SPIB Grading Rules and AWC National Design Specification® Values in pounds per square inch (psi)

Table 1 Dimension Lumber – 2" to 4" thick, 2" and wider — Effective June 1, 2013

Based on Normal Load Duration and Dry Service (MC≤19%)

Size	Grade	Bending F_b	Tension Parallel to Grain F_t	Shear Parallel to Grain F_v	Compression Perpendicular to Grain $F_{c\perp}$	Compression Parallel to Grain F_c	Modulus of Elasticity E	E_{min}
2" to 4" thick, 2" to 4" wide	Dense Select Structural	2700	1900	175	660	2050	1,900,000	690,000
	Select Structural	2350	1650	175	565	1900	1,800,000	660,000
	Non-Dense Select Structural	2050	1450	175	480	1800	1,600,000	580,000
	No.1 Dense	1650	1100	175	660	1750	1,800,000	660,000
	No.1	1500	1000	175	565	1650	1,600,000	580,000
	No.1 Non-Dense	1300	875	175	480	1550	1,400,000	510,000
Includes: 2x2 2x3 2x4 3x3 3x4 4x4	No.2 Dense	1200	750	175	660	1500	1,600,000	580,000
	→ No.2	1100	675	175	565	1450	1,400,000	510,000 ←
	No.2 Non-Dense	1050	600	175	480	1450	1,300,000	470,000
	No.3 and Stud	650	400	175	565	850	1,300,000	470,000
	Construction	875	500	175	565	1600	1,400,000	510,000
	Standard	475	275	175	565	1300	1,200,000	440,000
	Utility[1]	225	125	175	565	850	1,200,000	440,000
2" to 4" thick, 5" to 6" wide	Dense Select Structural	2400	1650	175	660	1900	1,900,000	690,000
	Select Structural	2100	1450	175	565	1800	1,800,000	660,000
	Non-Dense Select Structural	1850	1300	175	480	1700	1,600,000	580,000
	No.1 Dense	1500	1000	175	660	1650	1,800,000	660,000
	No.1	1350	875	175	565	1550	1,600,000	580,000
	No.1 Non-Dense	1200	775	175	480	1450	1,400,000	510,000
Includes: 2x5 2x6 3x5 3x6 4x5 4x6	→ No.2 Dense	1050	650	175	660	1450	1,600,000	580,000 ←
	No.2	1000	600	175	565	1400	1,400,000	510,000
	No.2 Non-Dense	950	525	175	480	1350	1,300,000	470,000
	No.3 and Stud	575	350	175	565	800	1,300,000	470,000
2" to 4" thick, 8" wide	Dense Select Structural	2200	1550	175	660	1850	1,900,000	690,000
	Select Structural	1950	1350	175	565	1700	1,800,000	660,000
	Non-Dense Select Structural	1700	1200	175	480	1650	1,600,000	580,000
	No.1 Dense	1350	900	175	660	1600	1,800,000	660,000
	No.1	1250	800	175	565	1500	1,600,000	580,000
	→ No.1 Non-Dense	1100	700	175	480	1400	1,400,000	510,000 ←
Includes: 2x8 3x8 4x8[2]	No.2 Dense	975	600	175	660	1400	1,600,000	580,000
	No.2	925	550	175	565	1350	1,400,000	510,000
	No.2 Non-Dense	875	500	175	480	1300	1,300,000	470,000
	No.3 and Stud	525	325	175	565	775	1,300,000	470,000
2" to 4" thick, 10" wide	Dense Select Structural	1950	1300	175	660	1800	1,900,000	690,000
	Select Structural	1700	1150	175	565	1650	1,800,000	660,000
	Non-Dense Select Structural	1500	1050	175	480	1600	1,600,000	580,000
	No.1 Dense	1200	800	175	660	1550	1,800,000	660,000
	→ No.1	1050	700	175	565	1450	1,600,000	580,000 ←
	No.1 Non-Dense	950	625	175	480	1400	1,400,000	510,000
Includes: 2x10 3x10 4x10[2]	No.2 Dense	850	525	175	660	1350	1,600,000	580,000
	No.2	800	475	175	565	1300	1,400,000	510,000
	No.2 Non-Dense	750	425	175	480	1250	1,300,000	470,000
	No.3 and Stud	475	275	175	565	750	1,300,000	470,000
2" to 4" thick, 12" wide[3]	Dense Select Structural	1800	1250	175	660	1750	1,900,000	690,000
	Select Structural	1600	1100	175	565	1650	1,800,000	660,000
	Non-Dense Select Structural	1400	975	175	480	1550	1,600,000	580,000
	No.1 Dense	1100	750	175	660	1500	1,800,000	660,000
	→ No.1	1000	650	175	565	1400	1,600,000	580,000 ←
	No.1 Non-Dense	900	575	175	480	1350	1,400,000	510,000
Includes: 2x12 3x12 4x12[2]	No.2 Dense	800	500	175	660	1300	1,600,000	580,000
	No.2	750	450	175	565	1250	1,400,000	510,000
	No.2 Non-Dense	700	400	175	480	1250	1,300,000	470,000
	No.3 and Stud	450	250	175	565	725	1,300,000	470,000

(1) For Utility, design values apply to 4"-wide lumber only. (2) For lumber 4" thick and 8" or wider, multiply the F_b value by C_F=1.1. (3) For lumber wider than 12", multiply these 12"-width design values for F_b, F_t and F_c by C_F=.90, and use these 12"-width design values for the other properties.

The Southern Forest Products Association (SFPA) does not test lumber or establish design values. Neither SFPA nor its members, warrant that the design values are correct, and disclaim responsibility for injury or damage resulting from the use of such design values.

SELECT SIZE AT INDICATED GRADE (→)

76. Wind speed criteria for this design is based on 90 mph (3 sec. gust) criteria per Sec. R301.2(4) of the 2009 IRC. Wall and roof connections in this design are adequate to resist these wind loads.

77. The structure specified on these plans will be termite damage protected by the contractor according to R317 and R318 of the 2009 IRC.

78. An approved ice and water shield shall be provided on all roof edges in compliance with Sec. R905.2.7.1 of the 2009 IRC.

LAST UPDATE: 3/8/2014

SEE SPECIFIC PLAN SET

GENERAL NOTES	SHEET NO
WHALEN CUSTOM HOMES 338 S. KIRKWOOD RD STE 103 KIRKWOOD, MO 63122 (314) 515-7645	D4

EXTERIOR

SHINGLES
- Tamko 30-yr Architectural Heritage- Weathered Wood

SIDING/SOFFIT/FASCIA
- JamesHardie HardiePlank Lap Siding- Gray Slate
- JamesHardie HardieShingle Panel- Gray Slate

BRICK
- Oxford Brick Cap

STONE
- Harvest Mix Tumbled

WINDOWS
- Andersen 100 Series- White

FRONT DOOR
- Therma Tru Classic-Craft American Style- Walnut

SHUTTERS
- Cedar per plan- Stained to match front door

GARAGE DOOR
- Delden Classica Series- N10, White 16x8, 8x8

HERITAGE®
LAMINATED ASPHALT SHINGLES

PRODUCT DATA

MANUFACTURED IN JOPLIN, MO

HERITAGE® shingles have a double-layer fiberglass mat construction with a random-cut sawtooth design. The two layers of mat are coated with asphalt, surfaced with mineral granules and then laminated together. They also include a self-sealing strip of asphalt.

USES: For application to roof decks with inclines of not less than 2 inches per foot. For slopes between 2 inches and 4 inches per foot, refer to application instructions for low slope.

- Rustic beauty of wood shakes.
- Shadowtone feature adds dimension, depth of appearance and curb appeal.
- 30-year Limited Warranty, 15-year Full Start, 5-year Transferability.

SHINGLES BEGIN TO AGE AS SOON AS THEY ARE EXPOSED TO NATURE. BUILDINGS EXPERIENCE AGING FACTORS DIFFERENTLY, SO IT IS DIFFICULT TO PREDICT HOW LONG SHINGLES WILL LAST. THAT'S WHY TAMKO PROVIDES A LIMITED WARRANTY, THAT INCLUDES A BINDING ARBITRATION CLAUSE AND OTHER TERMS AND CONDITIONS WHICH ARE INCORPORATED HEREIN BY REFERENCE. YOU MAY OBTAIN A COPY OF THE LIMITED WARRANTY AT TAMKO.COM OR BY CALLING 1-800-641-4691.

CERTIFICATIONS

UL Listed for Class A Fire Rating:	UL 790/ASTM E 108, Class A
UL Classified for Wind Resistance:	ASTM D 7158, Class H and ASTM D 3161, Class F
UL Classified in accordance with:	ASTM D 3462 and ICC-ES Acceptance Criteria AC438
UL Evaluation Reports:	UL ER2919-01 and UL ER2919-02
Florida Building Code Approved:	FL 18355

COLORS

AMERICA'S NATURAL COLORS

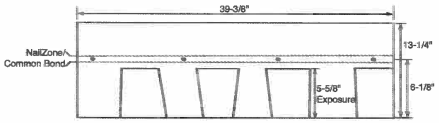
- Black Walnut
- Harvest Gold
- Mountain Slate
- Natural Timber
- Painted Desert
- Thunderstorm Grey

CLASSIC HERITAGE COLORS

- Antique Slate
- Olde English Pewter
- Oxford Grey
- Rustic Black
- Rustic Cedar
- Rustic Evergreen
- Rustic Hickory
- Rustic Slate
- Weathered Wood

PRODUCT DATA†

Shingle size	13-1/4" × 39-3/8"
Exposure	5-5/8"
Coverage per Square††	98.4 sq.ft.
Shingles per Square††	64
Bundles per Square††	3



† All values stated as nominal.

†† When applied according to instructions.

CAUTION: This product contains crystalline silica and formaldehyde. Crystalline silica and formaldehyde have been classified as "known" human carcinogens by the International Agency for Research on Cancer (IARC) and the National Toxicology Program. This product also contains oxidized asphalt. Occupational exposures to oxidized asphalt and its emissions during roofing have been classified by IARC as a "probable human carcinogen". Oxidized asphalt also contains Polycyclic Aromatic Hydrocarbons some of which have been classified by IARC as known or probable human carcinogens. The physical nature of this product may help limit any inhalation or dermal hazard during application and/or removal. However, physical forces such as sawing, grinding or drilling during demolition work and heating or burning may increase the inhalation or dermal exposure hazard of this product. Take precautions to prevent breathing and contact with skin.

Information included in this product data sheet was current at time of printing. To obtain a copy of the most current version of this product data sheet, visit us online at tamko.com or call us at 800-641-4691.

TAMKO Logo, Heritage, and TAMKO are registered trademarks of TAMKO Building Products, Inc.

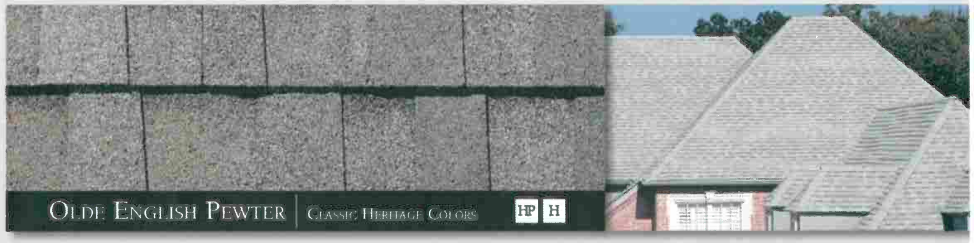
TAMKO BUILDING PRODUCTS

P.O. Box 1404 • Joplin, MO 64802-1404 • 1-800-641-4691 • tamko.com

Rev. 07/2016

HP HERITAGE® Premium Shingles H HERITAGE® Shingles Symbols shown beside each color name denote product options and availability.

NOTE: TAMKO® RECOMMENDS VIEWING AN ACTUAL ROOF INSTALLATION PRIOR TO FINAL COLOR SELECTION FOR THE FULL IMPACT OF COLOR BLENDING AND PATTERNS. REPRODUCTION OF THESE COLORS IS AS ACCURATE AS OUR PRINTING WILL PERMIT.



Joplin, MO, produces colors in Heritage only. All Heritage Premium colors offered from Joplin, MO, are produced in Phillipsburg, KS. Rustic Redwood and Rustic Brown swatch photos are Phillipsburg Heritage Premium colors. All other swatch photos shown in this

Technical Attributes
HardiePlank™ Lap Siding

Effective 12/2007

James Hardie Building Products, Inc.

HardiePlank™ Lap Siding has been comprehensively tested and displays the following typical physical properties.

	General Property	Test Method	Unit or Characteristic	Requirement	Result
PHYSICAL ATTRIBUTES	**Dimensional Tolerances**	ASTM C1185	Length	± 0.5%	Pass
		ASTM C1185	Width	± 0.5%	Pass
		ASTM C1185	Thickness	± 0.04 in.	Pass
		ASTM C1185	Squareness	< 1/32 in./ft of length	Pass
		ASTM C1185	Edge Straightness	< 1/32 in./ft of length	Pass
	Density, lb/ft³	ASTM C1185		As reported	< 83
	Water Absorption, % by mass	ASTM C1185		As reported	< 36
	Water Tightness	ASTM C1185	Physical Observations	No drop formation	Pass
	Moisture Content, %	ASTM C1185		As reported	~ 5
	Moisture Movement, % Linear Change	ASTM C1185	30 – 90% Relative Humidity	As reported	≤ 0.05
	Flexural Strength	ASTM C1185	Wet conditioned, psi	> 1015 psi	Pass
		ASTM C1185	Equilibrium conditioned, psi	> 1450 psi	Pass
THERMAL	**Thermal Conductivity**	ASTM C177	K_{eff} = BTU/hr-ft²-° F	As reported	2.07
	Actual Thermal Conductivity	ASTM C177	(K_{eff})	As reported	6.62
	Thermal Resistance	ASTM C177	R=1/K_{eff}	As reported	0.48
	Actual Thermal Resistance	ASTM C177	(R)	As reported	0.15
DURABILITY	**Warm Water Resistance**	ASTM C1185	Physical Observations	No visible cracks or structural alteration	Pass
		ASTM C1185	Warm Water, % wet retention	≥ 85%	Pass
	Heat/Rain Resistance	ASTM C1185	Physical Observations	No visible cracks or structural alteration	Pass
	Freeze/Thaw Resistance	ASTM C1185	Physical Observations	No visible cracks or structural alteration	Pass
		ASTM C1185	Mass Loss, %	≤ 3.0	Pass
		ASTM C1185	Freeze/Thaw, % wet retention	≥ 80%	Pass
	UV Accelerated Weathering Test	ASTM G23	Physical Observations	No cracking, checking, or crazing	Pass
FIRE CHARACTERISTICS	**Surface Burning Characteristics**	ASTM E84	Flames Spread Index (FSI)	0	Pass
		ASTM E84	Smoke Developed Index (SDI)	≤ 5	Pass
		ASTM E84	Fuel Contributed	0	Pass
			NFPA Class	As reported	A
			Uniform Building Code™ Class	As reported	1
			International Building Code® Class	As reported	A
	Noncombustibility	ASTM E136	Noncombustible	Pass/fail	Pass
	Fire Resistance Rated Construction	ASTM E119	Fire Resistance Rating	1-hour	Note 1

Note 1: Listed on Warnock Hersey and ICC-ES NER-405

NOTE: In addition to the above product properties, building assemblies incorporating this product have been tested for fire, acoustic and impact performance.

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Additional installation information, warranties, and warnings are available at www.jameshardie.com

JamesHardie

THIS TECHNICAL SUPPLEMENT MUST BE READ IN CONJUCTION WITH THE CURRENT TECHNICAL PRODUCT LITERATURE. JAMES HARDIE BUILDING PRODUCTS MUST BE INSTALLED IN ACCORDANCE WITH THE APPLICABLE TECHNICAL PRODUCT LITERATURE. ALL COMPONENTS AND ACCESSORIES MUST BE INSTALLED IN ACCORDANCE WITH THE RESPECTIVE MANUFACTURER'S SPECIFICATIONS. FOR THE PRODUCT WARRANTY, TERMS AND CONDITIONS REFER TO THE APPLICABLE JAMES HARDIE TECHNICAL PRODUCT LITERATURE

Technical Attributes
HardieShingle™ Panel

Effective 12/2007

James Hardie Building Products, Inc.

HardieShingle™ Panel has been comprehensively tested and displays the following typical physical properties.

	General Property	Test Method	Unit or Characteristic	Requirement	Result
PHYSICAL ATTRIBUTES	**Dimensional Tolerances**	ASTM C1185	Length	± 0.5%	Pass
		ASTM C1185	Width	± 0.5%	Pass
		ASTM C1185	Thickness	± 0.04 in.	Pass
		ASTM C1185	Squareness	< 1/32 in./ft of length	Pass
		ASTM C1185	Edge Straightness	< 1/32 in./ft of length	Pass
	Density, lb/ft^3	ASTM C1185		As reported	< 83
	Water Absorption, % by mass	ASTM C1185		As reported	< 36
	Water Tightness	ASTM C1185	Physical Observations	No drop formation	Pass
	Moisture Content, %	ASTM C1185		As reported	~ 5
	Moisture Movement, % Linear Change	ASTM C1185	30 – 90% Relative Humidity	As reported	≤ 0.05
	Flexural Strength	ASTM C1185	Wet conditioned, psi	> 1015 psi	Pass
		ASTM C1185	Equilibrium conditioned, psi	> 1450 psi	Pass
THERMAL	**Thermal Conductivity**	ASTM C177	K_{eff} = BTU/hr-ft^2-° F	As reported	1.95
	Actual Thermal Conductivity	ASTM C177	(K_{eff})	As reported	7.8
	Thermal Resistance	ASTM C177	$R=1/K_{eff}$	As reported	0.51
	Actual Thermal Resistance	ASTM C177	(R)	As reported	0.13
DURABILITY	**Warm Water Resistance**	ASTM C1185	Physical Observations	No visible cracks or structural alteration	Pass
		ASTM C1185	Warm Water, % wet retention	≥ 85%	Pass
	Heat/Rain Resistance	ASTM C1185	Physical Observations	No visible cracks or structural alteration	Pass
	Freeze/Thaw Resistance	ASTM C1185	Physical Observations	No visible cracks or structural alteration	Pass
		ASTM C1185	Mass Loss, %	≤ 3.0	Pass
		ASTM C1185	Freeze/Thaw, % wet retention	≥ 80%	Pass
	UV Accelerated Weathering Test	ASTM G23	Physical Observations	No cracking, checking, or crazing	Pass
FIRE CHARACTERISTICS	**Surface Burning Characteristics**	ASTM E84	Flames Spread Index (FSI)	0	Pass
		ASTM E84	Smoke Developed Index (SDI)	≤ 5	Pass
		ASTM E84	Fuel Contributed	0	Pass
			NFPA Class	As reported	A
			Uniform Building Code™ Class	As reported	1
			International Building Code® Class	As reported	A
	Noncombustibility	ASTM E136	Noncombustible	Pass/fail	Pass
	Fire Resistance Rated Construction	ASTM E119	Fire Resistance Rating	1-hour	Nil.

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Additional installation information, warranties, and warnings are available at www.jameshardie.com

JamesHardie

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WHALEN
Custom Homes

Grey Slate Example

Customer Service South <SouthCS@jameshardie.com>
To: "jennifer@whalencustomhomes.com" <jennifer@whalencustomhomes.com>

Fri, Aug 26, 2016 at 11:15 AM

Hi Jennifer,

Please see the below:

Thank you,

Katie Wiese

James Hardie Building Products

Customer Operations Exteriors

Phone: 888-888-3408

Fax: 800-968-7040

E-mail: SouthCS@jameshardie.com

customerfeedback@jameshardie.com

James Hardie will be closed for Labor Day, September 5th.

9S39 Oxford Closure

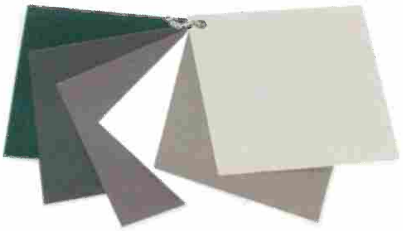
100 SERIES
WINDOWS & PATIO DOORS

THE SMART ALTERNATIVE TO VINYL

Whether you're replacing, remodeling or building, Andersen® 100 Series windows and patio doors are a smart step up from vinyl. They provide uncommon value, combining time-tested performance with long-lasting beauty. Our 100 Series products are made with our revolutionary Fibrex® composite material, which comes in deep, rich colors that can dramatically enhance any project. In addition, Fibrex material is environmentally responsible and energy efficient, making 100 Series products a winning choice for anyone considering vinyl windows and doors.

DURABILITY

Fibrex material is twice as strong as vinyl, so weathertight seals stay weathertight. And 100 Series products come with durable factory-finished interiors and exteriors that never need painting and won't fade, flake, blister, chalk or peel.*



DEEP, RICH COLORS

Our 100 Series windows come in beautiful colors that can set a project apart.

ENVIRONMENTALLY SMART

Our Fibrex composite material is composed of 40% reclaimed wood fiber by weight, most of which is created during the manufacture of Andersen wood windows.

*Visit andersenwindows.com/warranty or contact your Andersen supplier for details.

ANDERSEN® 100 SERIES WINDOWS & DOORS
DELIVER BEAUTY, PERFORMANCE AND VALUE.

All 100 Series windows and patio doors feature the performance, durability and ease of use you've come to expect from Andersen. They not only provide energy efficiency, beauty and reliability today, but they'll also continue to add value to your projects tomorrow and for years* to come.

ENERGY EFFICIENCY

ASK ABOUT ENERGY STAR

MEETS ENERGY STANDARDS FOR EVERY CLIMATE

Energy-efficient 100 Series products with options that are ENERGY STAR® certified can help lower heating and cooling bills. What's more, the Fibrex® material used for 100 Series frames and sash blocks thermal transfer nearly 700 times better than aluminum.

IT PAYS TO UNDERSTAND PERFORMANCE

Whatever your project, you want to make sure you have accurate energy performance ratings. The National Fenestration Rating Council® (NFRC) is a nonpartisan, nonprofit organization that provides ratings you can rely on. Go to pages 90-95 for product performance information or visit **andersenwindows.com/100series** for details.

GLASS OPTIONS THAT MAXIMIZE PERFORMANCE

Andersen® 100 Series windows and patio doors feature glass options designed to suit every climate, project and customer. Choose from several glass options that help reduce energy bills, including patterned glass that adds beauty and privacy. See page 10 for details.

WEATHERSTRIPPING SELECTED FOR STYLE AND COMFORT

We carefully select weatherstripping to match each style of window and door so your customers can enjoy superior comfort and reliability.

*Visit andersenwindows.com/warranty or contact your Andersen supplier for details.

DURABILITY

EASY OPERATION FOR YEARS* TO COME

All Andersen® 100 Series products are rigorously tested to deliver years* of smooth, reliable operation.

DESIGNED FOR PERFORMANCE

100 Series products are designed to meet or exceed performance requirements in all 50 states.** See pages 90-95 for details.

TAKE COMFORT IN SUPERIOR WEATHER RESISTANCE

Our weather-resistant construction seals out drafts, wind and water so well that your reputation is protected whatever the weather.

OWNER2OWNER® LIMITED WARRANTY

QUALITY SO SOLID THAT THE WARRANTY IS TRANSFERABLE*

Most other window and door warranties end when a home is sold, but our coverage — 20 years on glass, 10 years on non-glass parts — transfers from each homeowner to the next. And, because it's not prorated, the coverage offers full benefits, year after year, owner after owner.

NEVER NEEDS PAINTING

100 Series windows and doors won't fade, flake, blister, chalk or peel.*

STRONGER CORNER JOINTS

Corner key construction produces joints that are stronger and more attractive than welded vinyl.

Corner key construction

BEAUTY

VIRTUALLY SEAMLESS CORNERS

To give your windows, patio doors and projects a beautiful, clean look, 100 Series products feature virtually seamless corners.

100 Series corner seam

Welded vinyl corner seam

SIX COLORS FOR BEAUTIFUL CURB APPEAL

From White and Sandtone to deep, rich Terratone, Cocoa Bean, Dark Bronze and Black colors, 100 Series windows and doors complement any project.

ATTRACTIVE MATTE INTERIORS

Durable, matte White or Sandtone interiors are available. Interiors may also be painted to match a home's décor.†

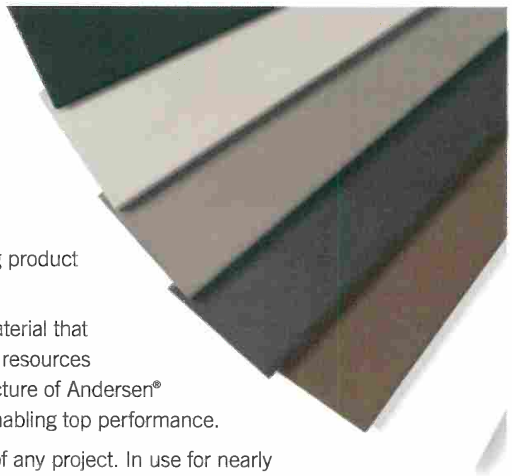
DESIGN FLEXIBILITY

Choose from a complete product line (single-hung, gliding, casement, awning, picture and specialty windows and gliding patio doors) in a variety of shapes, sizes and combinations.

IMPROVE YOUR VIEW WITH TRUSCENE® INSECT SCREENS

With over 50% more clarity than conventional insect screens, optional TruScene® insect screens for windows give you beautifully unobstructed views. They let more sunlight and fresh air into the home while keeping the smallest insects out.††

*Visit andersenwindows.com/warranty or contact your Andersen supplier for details.
**See your local code official for building code requirements in your area.
†See care and maintenance guide.
††All comparisons made to conventional Andersen® insect screens.



FIBREX® MATERIAL.
STRONG ON PERFORMANCE. GENTLE ON THE ENVIRONMENT.

With Fibrex® composite material, you get the best of both worlds: a top-performing product that is environmentally responsible.

Developed by Andersen, Fibrex material is a revolutionary structural composite material that blends the very best attributes of vinyl and wood. Fibrex material saves on natural resources because it is composed of 40% wood fiber by weight reclaimed from the manufacture of Andersen® wood windows. Special polymer formulations surround and fill each wood fiber, enabling top performance.

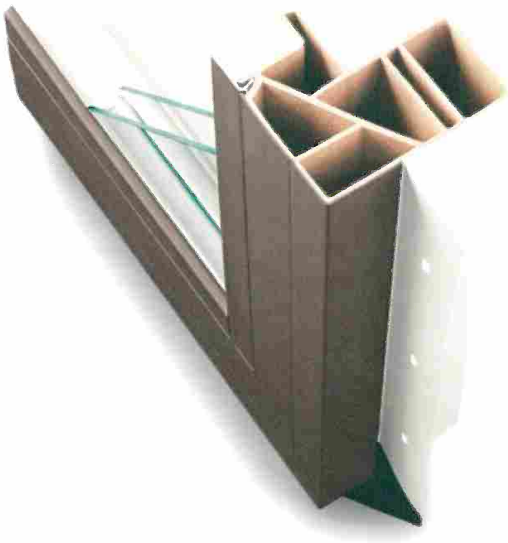
The result is a material that provides uncommon value and enhances the quality of any project. In use for nearly two decades in Andersen products, Fibrex material has proven its strength and durability in all types of climates.

A REVOLUTIONARY BUILDING MATERIAL

- Fibrex material is twice as strong as vinyl, so weathertight seals stay weathertight
- It blocks thermal transfer nearly 700 times better than aluminum to help reduce heating and cooling bills
- For exceptional durability, Fibrex material retains its stability and rigidity in all climates

ENVIRONMENTALLY RESPONSIBLE

- Since Andersen developed the highly sustainable Fibrex material, reuse of waste wood fiber has prevented the harvesting of nearly 90 million board-feet of timber
- 100 Series windows can help builders earn LEED® points in three key categories: Energy & Atmosphere, Materials & Resources and Indoor Environmental Quality
- 100 Series products meet or exceed California Section 01350 Specification, a California indoor emission standard — one of the toughest in the country
- Like all Andersen windows, the 100 Series product line is designed to last* and reduce future waste streams



See how Andersen created Fibrex material at **andersenwindows.com/fibrex**

ASK ABOUT ENERGY STAR

*Visit andersenwindows.com/warranty or contact your Andersen supplier for details.

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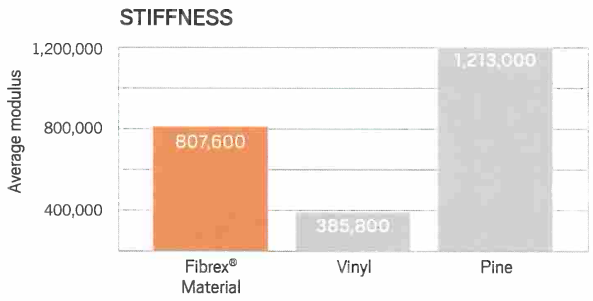
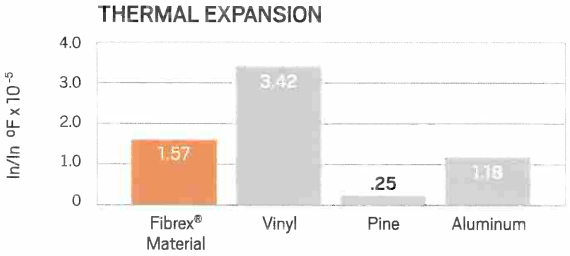
STABLE & PREDICTABLE

Fibrex® material is twice as stiff as vinyl. This strength makes it a better choice over time.



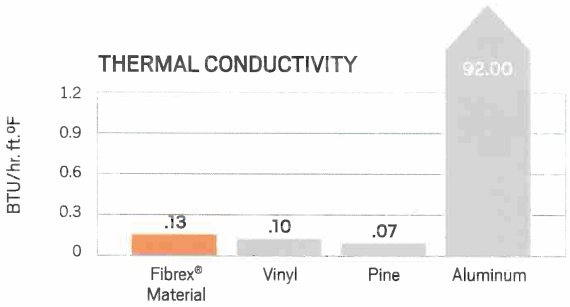
DURABLE & RELIABLE

All materials expand and contract when exposed to extreme temperatures. In these types of conditions, Fibrex material performs twice as well as vinyl, which can bow and crack over time.



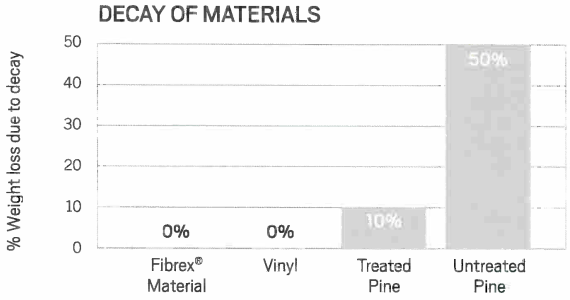
AN EXCELLENT INSULATOR

The built-in thermal qualities of Fibrex material mean that less heat and cold get transferred through the unit into your customers' homes. As an insulator, it's on par with vinyl and is far superior to aluminum.



MOISTURE-RESISTANT

Because Fibrex material combines wood fiber and a special polymer formula, water has a tough time penetrating. The result is an increased resistance to rot.



HEAT-RESISTANT

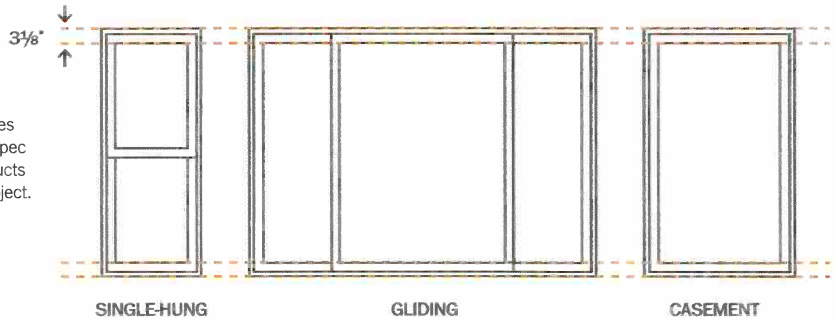
Designed to withstand direct sunlight, Fibrex material can withstand temperatures in excess of 160°F, even in dark colors.

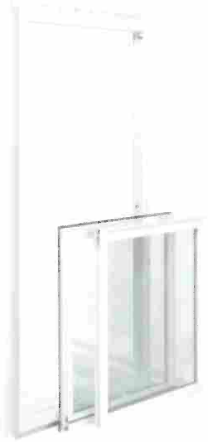
WHATEVER YOUR PROJECT, ANDERSEN DELIVERS.

BUILD

Wherever you work and whatever style of home you're building, you'll find a window or door to match in the Andersen® 100 Series product line. Choose from six exterior colors that won't fade, flake, blister, chalk or peel*— no matter what the climate. Virtually seamless corners create a beautiful, clean look.

Uniform sight lines make it easy to spec 100 Series products for the whole project.





SINGLE-HUNG DRYWALL WINDOW (DRYWALL PASS-THROUGH WINDOW)

- Upper sash (normally stationary) is easily removed on jobsite after the window is installed
- With both sash removed, drywall passes through the window into upper floors

EXTENSION JAMB ATTACHMENT FLANGE

- Easily apply extension jambs to products on the jobsite
- Flanges consist of 8' lengths of PVC applied to the outside edges of frames with VHB (very high bond) tape
- Watch a video on this convenient feature at **andersenwindows.com/extjamb**

*Visit andersenwindows.com/warranty or contact your Andersen supplier for details.

Fiberglass Entry Door Systems

Classic-Craft American Style

Create a timeless Arts and Crafts look. The American Style Collection is inspired by the simple design and handcrafted details of Craftsman and Prairie home styling. It reflects the prized beauty of real Douglas Fir wood grain with all the benefits of fiberglass, thanks to AccuGrain technology. And, with Classic-Craft, you get more. Every detail — from wider glass to heavier construction — creates a more premium entryway.

Browse all doors in this collection.

- 2016 Full-Line Catalog
- Classic-Craft Brochure

More Information

AccuGrain Technology

Design Your Door

Choose your door and then personalize it with our wide variety of options.

Print Email Post It Share Save My Door

Pick Door Height: 6'8" Doors 8'0" Doors

System Components

TruDefense® System

Quality Testing

View Details
Where to Buy
Try it On

View style number(s), features and additional information.

Available Door Sizes:
- 3'0" x 8'0"

Dimensional Data

Available Options:
Flush Glazed (?)

Glass: Clear
Low-E Available (?)

Finish Options:
Stainable Paintable

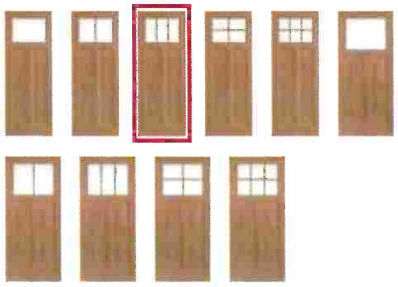
Accessories:
Dentil Shelves

Installation:
Installation Instructions

ACCUGRAIN LIFETIME LIMITED WARRANTY

Pick a Configuration: 6 Available Styles

Pick a Door Style: 10 Available Styles



Pick a Glass Style: 8 Available Styles

Villager

Homeward

Arborwatch

Chord

Chinchilla

Rainglass

Granite

Clear

Tuscany shown with optional Madera design trim and optional Blue Ridge handles.

Santiago shown with Closed Arch top and optional Blue Ridge handles and hinges.

Northampton shown with optional Thames design trim and optional Blue Ridge handles and hinges.

Specification	AMARR® CLASSICA® Series 2000	AMARR® CLASSICA® Series 3000
PANEL DESIGNS		
Carriage House	7 Designs	7 Designs
INSULATION[1]	Polystyrene	Polyurethane
R-VALUE[2]**/U-FACTOR**	6.64/0.15	13.35/0.07
DOOR THICKNESS	2" (5.1cm)	2" (5.1cm)
STEEL THICKNESS	24 ga	25/27 ga
WINDOW GLASS OPTIONS		
1/8" Tempered Double Strength	•	•
Optional Insulated Glass		•
Obscure	•	•
WIND LOAD AVAILABLE[3]	•	•
WARRANTY[4]		
Paint Finish	Lifetime	Lifetime
Hardware	5 Years	Lifetime

[1] Insulation has passed self-ignition, flamespread and smoke developed index fire testing.

[2] Calculated door section R-Value is in accordance with DASMA TDS-163

[3] It is your responsibility to make sure your garage door meets local building codes.

[4] For complete warranty details, visit deldenmfg.com or contact your local Delden dealer.

DELDEN GARAGE DOORS

"Experience the Quality"

KANSAS CITY, MO
www.DeldenMfg.com
©2016 2/2016

Your Local Delden Dealer:

Delden reserves the right to change specifications and designs without notice and without incurring obligations. Some graphics and details provided courtesy of Entrematic and used by permission.

WIND LOAD APPROVED

RECYCLED STEEL

AMARR® CLASSICA® COLLECTION

SAFE GUARD Finish Protection

LUCERN

CLOSED ARCH (L1)

CLOSED ARCH (L1) CLOSED SQUARE (L2)

DANUBE (L4) MADEIRA (L5)

NILE (L6) RHINE (L7)

SEINE (L8) THAMES (L10)

AMERICANA (L57) JARDIN (L75)

TRELLIS (L76)

VALENCIA

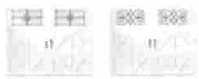
CLOSED ARCH (V1)

CLOSED ARCH (V1) CLOSED SQUARE (V2)

DANUBE (V4) MADEIRA (V5)

NILE (V6) RHINE (V7)

SEINE (V8) THAMES (V10)



AMERICANA (V57) JARDIN (V75)

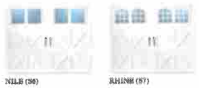
TRELLIS (V76)

SANTIAGO

CLOSED ARCH (S1)

CLOSED ARCH (S1) CLOSED SQUARE (S2)

DANUBE (S4) MADEIRA (S5)



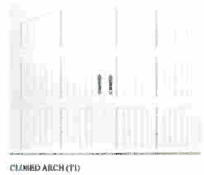
NILE (S6) RHINE (S7)

SEINE (S8) THAMES (S10)

AMERICANA (S57) JARDIN (S75)

TRELLIS (S76)

TUSCANY

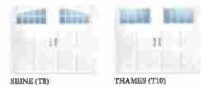


CLOSED ARCH (T1)

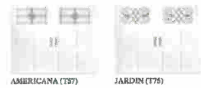
CLOSED ARCH (T1) CLOSED SQUARE (T2)

DANUBE (T4) MADEIRA (T5)

NILE (T6) RHINE (T7)



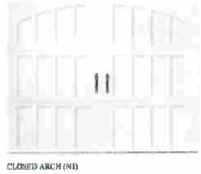
SEINE (T8) THAMES (T10)



AMERICANA (T57) JARDIN (T75)

TRELLIS (T76)

NORTHAMPTON

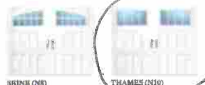


CLOSED ARCH (N1)

CLOSED ARCH (N1) CLOSED SQUARE (N2)

DANUBE (N4) MADEIRA (N5)

NILE (N6) RHINE (N7)

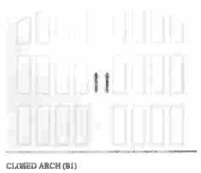


SEINE (N8) THAMES (N10)

AMERICANA (N57) JARDIN (N75)

TRELLIS (N76)

BORDEAUX



CLOSED ARCH (B1)

CLOSED ARCH (B1) CLOSED SQUARE (B2)

DANUBE (B4) MADEIRA (B5)

NILE (B6) RHINE (B7)

SEINE (B8) THAMES (B10)

AMERICANA (B57) JARDIN (B75)

TRELLIS (B76)

CORTONA

CLOSED SQUARE (C2)

CLOSED ARCH (C1) CLOSED SQUARE (C2)

DANUBE (C4) MADEIRA (C5)

NILE (C6) RHINE (C7)

SEINE (C8) THAMES (C10)

AMERICANA (C57) JARDIN (C75)

TRELLIS (C76)

TOP SECTION OPTIONS

CLOSED ARCH

CLOSED SQUARE

CLOSED DOUBLE ARCH

CLOSED ARCH • *NORTHAMPTON*

CLOSED SQUARE • *NORTHAMPTON*

CLOSED ARCH *BORDEAUX*

CLOSED SQUARE • *BORDEAUX*

CLOSED SQUARE • CORTONA

WINDOWS

DANUBE

MADEIRA

NILE

RHINE

SIENE

THAMES

OBSCURE

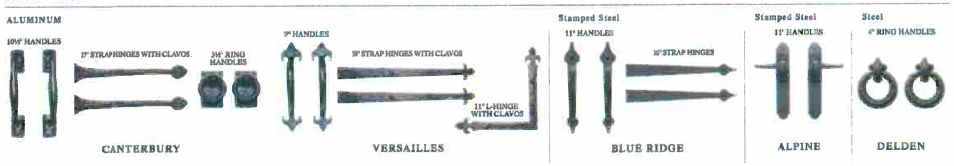
JARDIN

AMERICANA

TRELLIS

Not all window designs are stock items. Contact your local Delden dealer for details.

Decorative Hardware



Aluminum decorative strap hinges with clavos not recommended for arch openings.

Construction

Double-Layer: Steel + Insulation

- Heavy-Duty Exterior Steel
- Durable, Reliable, Low Maintenance
- Environmentally Safe Polystyrene Thermal Insulation with Vinyl Backing
- Energy Efficient
- Quiet Operation
- R-Value: 6.64

Triple-Layer: Steel + Insulation + Steel

- Heavy-Duty Exterior and Interior Steel
- Durable, Reliable, Low Maintenance
- Environmentally Safe Polyurethane Thermal Insulation
- Superior Energy Efficient
- Extra Quiet Operation
- R-Value: 13.35

COLORS

Amarr® steel doors arrive pre-painted; for custom colors, exterior latex paint must be used. Contact your local Delden Dealer for painting instructions.

DELDEN GARAGE DOORS

"Experience the Quality"

KANSAS CITY, MO

www.DeldenMfg.com

DASMA MADE IN USA IDA

WILDWOOD

APPLICATION FOR THE CITY OF WILDWOOD'S ARCHITECTURAL REVIEW BOARD
(please read thoroughly)

The following information and items shall be provided to the Department of Planning for processing and dissemination in association with scheduling of submittals before the City of Wildwood's Architectural Review Board (ARB). The ARB meets on the second Thursday of each month, unless otherwise changed, with the submittal deadline being 2:00 p.m. on the Monday ten (10) days prior to the meeting. If the agenda cannot support the number of submitted applications, a special meeting may be requested by the applicant or the item will be carried over to the succeeding month. A complete set of plans shall be submitted, with the information bearing an original signature and seal of the Licensed Architect upon it, before the Board will conduct its review. The completeness of the submission will aid in the understanding of the project by the Board and the relevance of its comments, as well as expedite reviews in an effort to avoid delays. Failure of the architect to sign and seal all requested items that are the subject of this review process, where applicable, or not providing the requested information identified below, will disqualify the submittal and the Department of Planning will return the packet to architect of record.

SECTION I

Project Name: Lot 7 Stone Mill

Address/Location: 1725 Falstone Mill Ct

Applicant Contact Information: Mike Whalen 314-575-7645

Zoning District/Council Ward: R-1A District w/ Planned Residential Development Overlay District

SECTION II

The ARB submittal requirements shall be as follows:

☑ **Architects Statement:** Provide a written statement that explains the design theory utilized in the overall site and building design separately. Include items such as reasoning behind entry locations, building placement, how existing topography was utilized instead of ignored, shape, orientation and style of the building, reasoning for chosen building materials and colors, site and building lighting, etc. This statement should be written as from one architect to another and should

include design theory. In this instance, cost can be an acceptable and appropriate goal of the overall design. The statement shall close with an acknowledgment that the design is in compliance with the requirements, or it should give a description of non-compliant items, with an explanation for such.

☑ **Preliminary Development Plan & Colored Landscape Plan:** These plans should reflect the same elements required for submittal to the Planning & Zoning Commission, such as the infrastructure and site improvements, including building footprints, curb cuts and driveway locations, and other natural and man-made features of significance.

☑ **Photographs:** Photos should reflect existing site conditions and immediate surrounding properties in all compass directions. The intent of these photographs is to better understand the project site and context, and how the project under consideration will complement both existing conditions, as well as future projects.

☑ **Preliminary Floor Plans:** These plans refers to the building footprint. However, interior layout, while not reviewed, can help in understanding the footprint and elevations.

☐ **Colored Architectural Elevations:** Elevations for each façade of the building, presented in the chosen color palette, with overall dimensions and materials labeled, noting any special items as necessary for a clear understanding of the project. Light fixtures should be shown accurately.

☑ **Colored Building Rendering:** This item is critical to provide a clear and quick understanding of the massing of the building and its materials and colors. Ideally, if prepared electronically in three dimensions, provide 'snapshots' of several views to highlight the overall building.

☑ **Materials and Colors:** The submittal should include 'finishes' pages, such as manufacturer specification sheets of the materials and colors. Actual samples will be required for presentation at the meeting itself.

☑ **Please provide twelve (12) copies of all of the above information in an 11"x17" format, formatted to fit 11"x17", and bound into an 8.5" x 11" booklets with a cover, as well as all information contained on a disc, or digital device. Appropriate sheets shall exhibit the original signature, seal, and date of the Licensed Architect, who prepared them. Please note, larger format items are permitted and encouraged for presentation purposes at the Architectural Review Board meeting.**

The items contained in the submittal package must meet minimum requirements prescribed by the Architectural Review Board(ARB). Further information may be requested, as directed by the Department of Planning and/or the ARB. Once an application has been processed for an upcoming meeting, the agenda will be sent to the appropriate representative(s). Attendance by the petitioner with their architect(s) for presentation and discussion with the ARB is mandatory. Variances to these procedures must be agreed to by the ARB members and the Department of Planning in advance of the scheduled meeting date. If you have any further questions, please feel free to contact the Department of Planning at (636) 458-0440.

We, the undersigned, are aware of the aforementioned items and submit this application in full compliance with the requirements of the Architectural Review Board on this day 31 **of** October, **20** 16.

Applicant [signature]

Licensed Architect [signature]

Mike Whalen
Applicant [print]

FRANK WISEMAN, JR.
Licensed Architect [print]

Contact Information for Applicant and Architect may be provided by attaching business cards here:

Mike Whalen
314-575-7645
mike@whalencustomhomes.com

Frank Wiseman
618-225-7472
fdwjr@charter.net

SECTION III

For Office Use Only

Application submittal accepted on: October 31, 2016 (TN)
Initial By: Department of Planning Staff

Initial review is scheduled for: November 10, 2016

Subsequent review is scheduled for: _____

Comments: _____

_____

Final Approval by the ARB on: _____

_____
Architectural Review Board Chair

WHALEN
Custom Homes

ARCHITECTURAL REVIEW BOARD SUBMISSION

NOVEMBER 10, 2016

STONE MILL LOT 7

WHALEN
Custom Homes

Architectural Statement

The proposed home and development embodies the New Urbanism Movement. This community is framed by it's architecture and landscape design which utilizes it's local history, climate, ecology and building practices. The subject property is based on Neocolonial features.

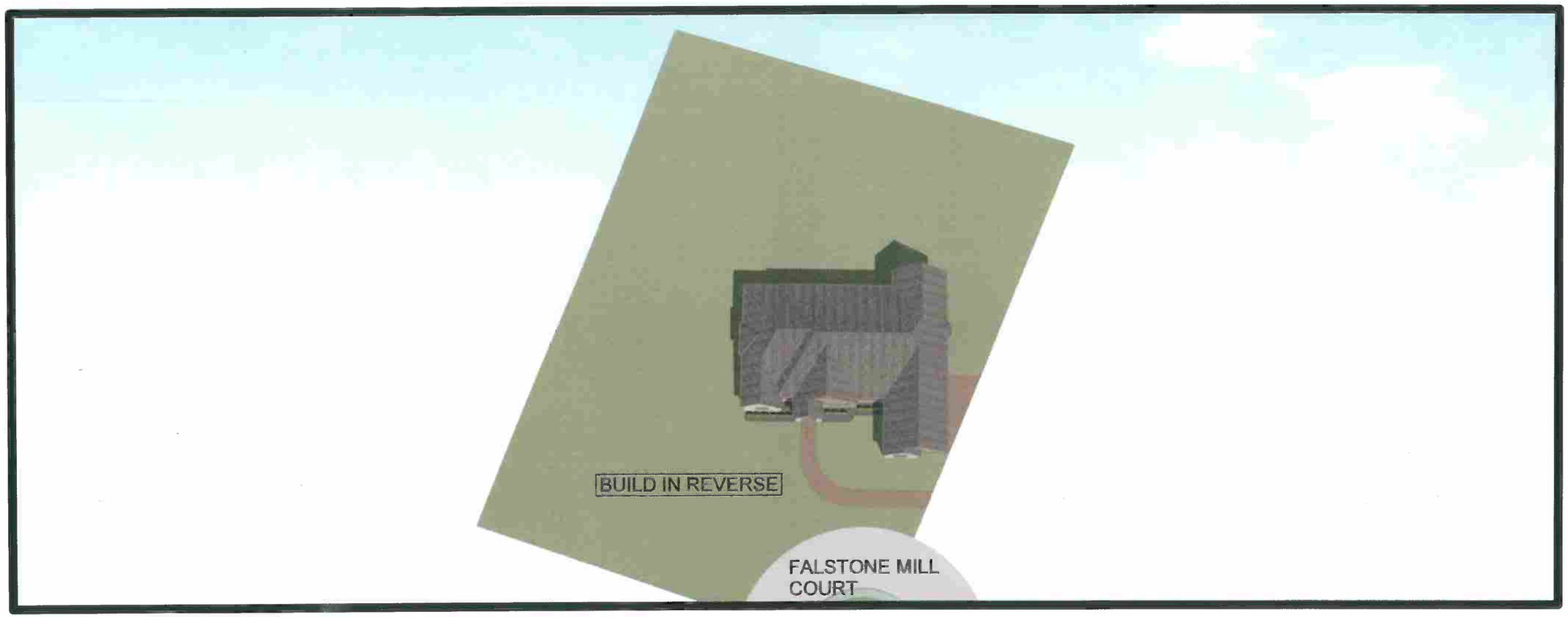
The placement of Stone Mill Display Lot 7 is such that it allows for a side car entry and maximizes the rear yard while meeting all required setbacks and easements. The classic soulard tudor brick and light colored stone facade will display a traditional strong look as you circle the Cul de Sac.

The design is in compliance with all requirements.

We appreciate the Architectural Review Boards consideration of this application.

Sincerely,

Mike Whalen



DEVELOPMENT PLAN AND LANDSCAPE PLAN

NO.	DESCRIPTION	BY	DATE

WHALEN Custom Homes

STONE MILL LOT 7

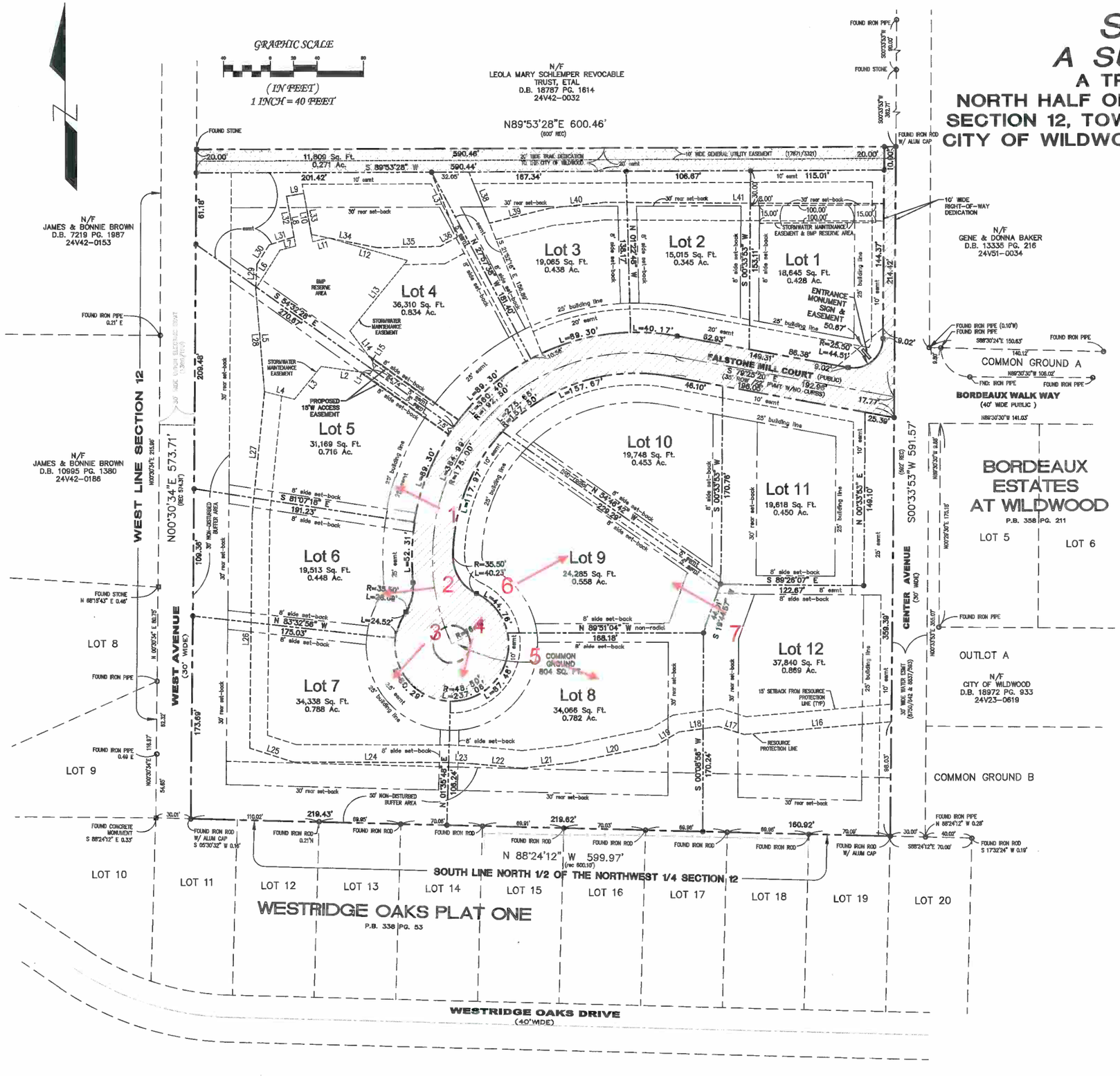
ROGERS RESIDENCE

DATE:

SCALE:

SHEET:

STONE MILL
A SUBDIVISION PLAT
A TRACT OF LAND IN THE NORTH HALF OF THE NORTHWEST QUARTER OF SECTION 12, TOWNSHIP 44 NORTH, RANGE 3 EAST CITY OF WILDWOOD, ST. LOUIS COUNTY, MISSOURI



LINE	BEARING	DISTANCE
L1	S 35°32'45" W	3.66'
L2	N 81°47'45" W	42.61'
L3	S 36°12'19" W	26.28'
L4	N 75°38'46" W	26.49'
L5	N 04°50'14" W	88.25'
L6	N 32°17'00" E	39.34'
L7	N 75°46'59" E	13.80'
L8	N 10°18'54" W	43.43'
L9	N 80°27'50" E	15.00'
L10	S 10°18'54" E	42.21'
L11	N 75°46'59" E	13.73'
L12	S 73°54'20" E	70.41'
L13	S 36°12'19" W	77.82'
L14	S 36°40'45" E	37.13'
L15	S 35°32'45" W	4.43'
L16	S 85°17'02" W	126.88'
L17	N 72°21'48" W	22.73'
L18	S 82°23'11" W	34.49'
L19	S 59°20'55" W	22.64'
L20	S 78°36'48" W	74.30'
L21	S 83°55'47" W	42.28'

LINE	BEARING	DISTANCE
L22	N 84°43'50" W	42.28'
L23	N 88°42'00" W	21.14'
L24	N 89°41'14" W	132.80'
L25	N 72°12'38" W	39.39'
L26	N 00°30'34" E	201.61'
L27	N 25°46'18" E	104.77'
L28	N 04°50'14" W	88.25'
L29	N 03°06'17" E	21.29'
L30	N 32°28'09" E	19.54'
L31	N 72°37'37" E	22.35'
L32	N 10°18'54" W	35.54'
L33	S 10°18'54" E	35.82'
L34	S 78°37'34" E	58.11'
L35	N 88°53'41" E	53.32'
L36	N 61°34'38" E	18.90'
L37	N 21°52'16" W	60.01'
L38	S 82°23'11" W	47.37'
L39	N 78°15'39" E	53.34'
L40	N 84°04'20" E	47.14'
L41	S 89°35'16" E	240.34'

□ : PERMANENT MONUMENT TO BE SET UPON COMPLETION OF GRADING.
● : SEMI-PERMANENT MONUMENT TO BE SET AT ALL REAR LOT CORNERS.

(NOTE: CROSSES SHALL BE CUT AT THE INTERSECTION OF THE EXTENSION OF EACH LOT LINE WITH THE CENTERLINE OF THE STREET.)

LAND DESCRIPTION:

A TRACT OF LAND IN THE NORTH HALF OF THE NORTHWEST QUARTER OF SECTION 12, TOWNSHIP 44 NORTH, RANGE 3 EAST, CITY OF WILDWOOD, ST. LOUIS COUNTY, MISSOURI, AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEGINNING AT THE SOUTHEAST CORNER OF A TRACT OF LAND DESCRIBED IN A DEED TO LEOLA MARY SCHLEMPER REVOCABLE TRUST RECORDED IN DEED BOOK 18787 PAGE 1614 OF THE ST. LOUIS COUNTY RECORDS, SAID POINT BEING ON THE WEST LINE OF CENTER (30' WIDE) AVENUE; THENCE WITH THE WEST LINE OF CENTER AVENUE, BEING 15' WEST OF AND PARALLEL TO THE CENTERLINE THEREOF SOUTH 00 DEGREES 33 MINUTES 53 SECONDS WEST 591.57 FEET TO THE SOUTH LINE OF THE NORTH 1/2 OF THE NORTHWEST 1/4 OF SECTION 12, SAID POINT ALSO BEING THE NORTH LINE OF WESTRIDGE OAKS PLAT ONE AS PER THE PLAT THEREOF RECORDED IN PLAT BOOK 338 PAGE 53 OF THE ST. LOUIS COUNTY RECORDS; THENCE DEPARTING THE WEST LINE OF CENTER AVENUE WITH THE NORTH LINE OF WESTRIDGE OAKS PLAT ONE, NORTH 88 DEGREES 24 MINUTES 12 SECONDS WEST 599.97 FEET TO A POINT ON THE EAST LINE OF WEST (30'WIDE) AVENUE; THENCE WITH THE EAST LINE OF WEST AVENUE, BEING 15' EAST OF AND PARALLEL TO THE CENTERLINE THEREOF AND 30 FEET EAST OF AND PARALLEL TO THE WEST LINE OF SECTION 12, NORTH 00 DEGREES 30 MINUTES 34 SECONDS EAST 573.71 FEET TO THE SOUTHWEST CORNER OF THE AFORESAID LEOLA MARY SCHLEMPER REVOCABLE TRUST TRACT; THENCE WITH THE SOUTH LINE OF SAID LEOLA MARY SCHLEMPER REVOCABLE TRUST TRACT, NORTH 89 DEGREES 53 MINUTES 28 SECONDS EAST 600.46 FEET TO THE POINT OF BEGINNING AND CONTAINING 348,870 (8.027 ACRES). MORE OR LESS. SUBJECT TO ALL EASEMENTS, CONDITIONS AND RESTRICTIONS OF RECORD, IF ANY.

BASIS OF BEARING:

BEARINGS ARE IN RELATION TO WESTRIDGE OAKS PLAT ONE, AS RECORDED IN PLAT BOOK 338, PAGE 53, ST LOUIS COUNTY RECORDS.

SOURCE OF RECORD TITLE:

LAND OF THE STATE OF MISSOURI, RECORDED IN DEED BOOK 3240, PAGE 14, ST. LOUIS COUNTY MISSOURI RECORDS.

NOTES:

ALL DIMENSIONS ARE SHOWN IN FEET AND DECIMAL FRACTIONS THEREOF.

ALL EASEMENTS AND CONDITIONS WHICH AFFECT THIS SITE AS REPORTED IN ASSURED TITLE COMPANY AS AGENT FOR COMMONWEALTH LAND TITLE INSURANCE COMPANY, FILE NO. 836695 REVISION 1, DATED FEBRUARY 20, 2013:

ITEMS 1-9: STANDARD EXCEPTIONS WITH NO COMMENT BY SURVEYOR.

ITEM 10. EASEMENT GRANTED PUBLIC WATER SUPPLY DISTRICT #1 OF ST. LOUIS COUNTY, MISSOURI RECORDED IN BOOK 8750 PAGE 642 AND ASSIGNED TO ST. LOUIS COUNTY WATER COMPANY BY INSTRUMENT RECORDED IN BOOK 8837 PAGE 583. PLOTS WITHIN THE 30 FOOT WIDE STRIP TO THE EAST KNOWN AS CENTER AVENUE AND DOES NOT ADVERSELY AFFECT THE SUBJECT TRACT.

ITEM 11. TERMS AND PROVISIONS OF MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION UTILITY EASEMENT RECORDED IN BOOK 17871 PAGE 3321, 10' WIDE EASEMENT ALONG THE NORTH LINE OF THE SUBJECT TRACT: PLOTTED HEREON.

ITEMS 12-13: STANDARD EXCEPTIONS WITH NO COMMENT BY SURVEYOR.

TOTAL ACREAGE OF THIS PLAT: 8.027 ACRES.

LOCATOR NO.: 24V42-0010

BENCHMARK:

ST. LOUIS COUNTY BM 18-109: 794.70 (NGVD'29) "L" ON THE WEST SIDE OF A CONCRETE PORCH OF BUILDING AT # 16957 MANCHESTER ROAD; 21' EAST OF THE CENTERLINE OF EATHERTON ROAD AND 39' NORTH OF THE CENTERLINE OF MANCHESTER ROAD.

SITE BENCHMARK:

795.88 (NGVD'29) CROSS AT THE INTERSECTION OF THE CENTERLINE OF BORDEAUX WALK WAY AND THE EAST LINE OF CENTER AVENUE. SAID POINT BEING 218.08 FEET SOUTH AND 29.86 FEET EAST OF THE NORTHEAST CORNER OF SUBJECT TRACT.

SURVEYOR'S CERTIFICATION:

THIS IS TO CERTIFY TO WHALEN CUSTOM HOMES, INC., THAT AT THEIR REQUEST, SUBURBAN LAND SURVEY, INC. HAS PREPARED A BOUNDARY SURVEY AND SUBDIVISION PLAT DATED DECEMBER , 2015, OF A TRACT OF LAND BEING IN THE NORTH HALF OF THE NORTHWEST QUARTER OF SECTION 12, TOWNSHIP 44 NORTH, RANGE 3 EAST, CITY OF WILDWOOD, ST. LOUIS COUNTY, MISSOURI, THAT THIS PLAT IS BASED UPON A BOUNDARY SURVEY COMPLETED ON THE GROUND; THAT THE RESULTS OF SAID SURVEY ARE SHOWN HEREON; AND THAT THE SAID SURVEY MEETS OR EXCEEDS THE CURRENT MINIMUM STANDARDS FOR URBAN CLASS BOUNDARY SURVEYS, AS ESTABLISHED BY THE MISSOURI DEPARTMENT OF NATURAL RESOURCES, DIVISION OF GEOLOGY AND LAND SURVEY.

DAVID L. ROBBINS NUMBER LS-2210

DAVID L. ROBBINS, P.L.S. 2210 DATE
SUBURBAN LAND SURVEY, INC. LS -378-D

SLS

REVISED	comment
01/19/16	easement script
02/03/16	non-disturbed buffer areas

Suburban Land Survey
2007 Bellevue Ave., St. Louis MO 63143
(314) 645-7055 Fax: (314) 644-1225
LICENSED IN MISSOURI AND ILLINOIS

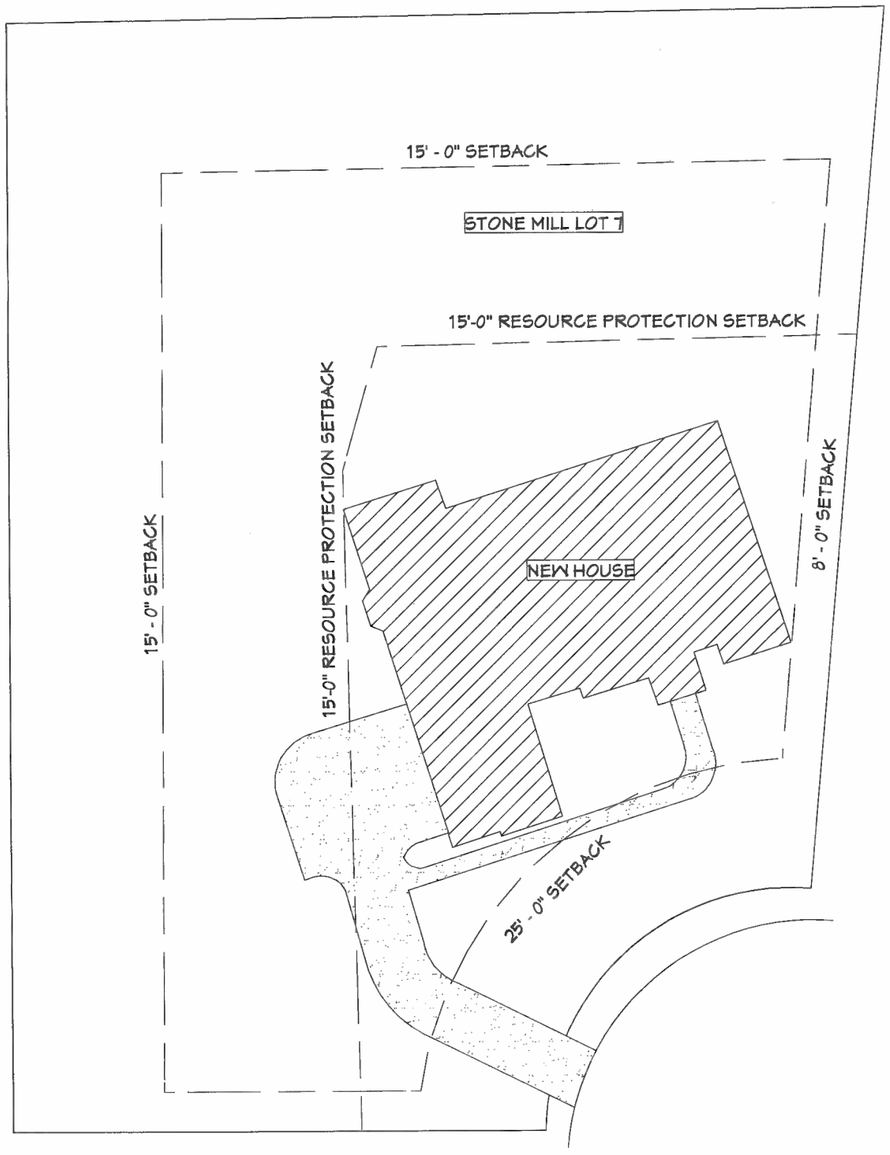
PROJECT:
STONE MILL
CITY OF WILDWOOD
ST LOUIS COUNTY, MISSOURI

PREPARED FOR:
Whalen Custom Homes
338 S. Kirkwood Road
St Louis, MO 63122
(314) 821-1745

DATE: 12/21/2015
JOB NUMBER: 15072
FILE NAME: Stone Mill.dwg
FIELDWORK BY: DLR, CJK
DRAWN BY: DLR
CHECKED BY:
SHEET

1

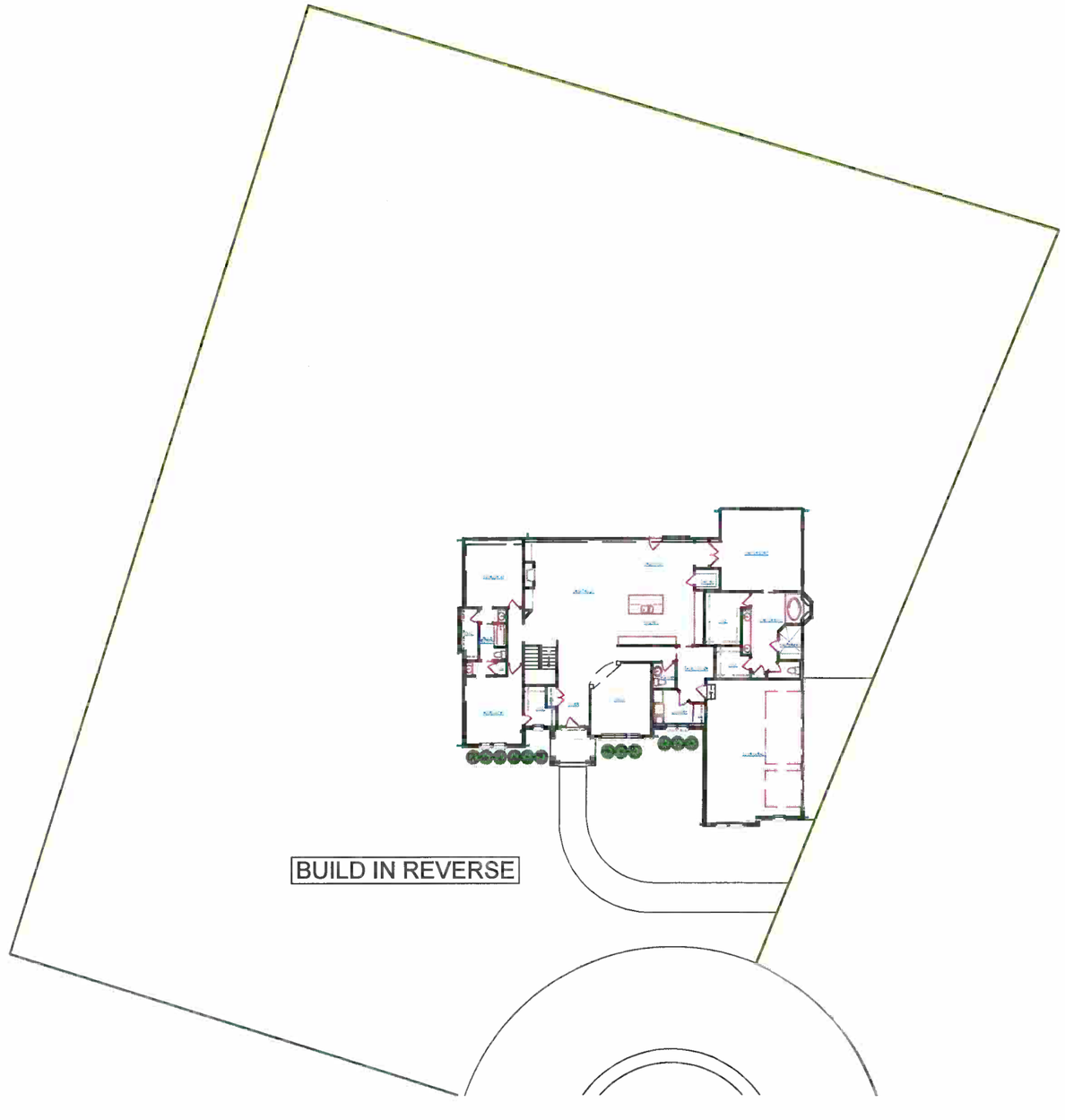
7
HUDROVKH



FOOTPRINT OF HOUSE ON LOT

SCALE: 1" = 30'-0"

ACTUAL



GENERAL FLOOR PLAN

SCALE: 1" = 30'-0"

NO.	DESCRIPTION	BY	DATE

WHALEN Custom Homes

STONE MILL LOT 7

ROGERS RESIDENCE

DATE:

SCALE:

SHEET:

FRONT ELEVATION

BUILD IN REVERSE

REAR ELEVATION

SEE "MATERIALS AND COLORS SECTION" FOR DESCRIPTIONS

NO.	DESCRIPTION	BY	DATE

WHALEN Custom Homes

STONE MILL LOT 7

ROGERS RESIDENCE

DATE:

SCALE:

SHEET:

RIGHT ELEVATION

LEFT ELEVATION

SEE "MATERIALS AND COLORS SECTION" FOR DESCRIPTIONS

NO.	DESCRIPTION	BY	DATE

WHALEN Custom Homes

STONE MILL LOT 7

ROGERS RESIDENCE

DATE:

SCALE:

SHEET:

FRONT RENDERINGS

NO.	DESCRIPTION	BY	DATE

WHALEN Custom Homes

STONE MILL LOT 7

ROGERS RESIDENCE

DATE:

SCALE:

SHEET:

REAR RENDERINGS

NO.	DESCRIPTION	BY	DATE

WHALEN Custom Homes

STONE MILL LOT 7

ROGERS RESIDENCE

DATE:

SCALE:

SHEET:

BASEMENT / FOUNDATION PLAN   8'-10" POUR

4'-1'-0"

BUILD IN REVERSE

BASEMENT / FOUNDATION PLAN NOTES

1. 10" TH CONC FOUNDATION (8'-10" POUR) SEE PLAN FOR FTG SIZES
2. 3½" TH CONC SLAB ON 6 MIL PVB ON 4" GRAVEL - SLOPE TO FLR DRN
3. 10" TH CONC FOUND ON 16"X10" CONC FTG 30" MIN BELOW FIN GRADE
4. 4" TH CONC SLAB W/ 6X6X10/10 WWF ON 6 MIL PVB ON 4" GRAVEL - SLOPE TO OH DOORS
5. HOLD TOP OF FOUND DN FOR SLAB CLEARANCE
6. 12" TH CONC FOUND ON 16"X12" CONC FTG - 30" MIN BELOW FIN GRADE
7. 4" TH CONC SLAB W/ #4'S @ 24" OC, 24" EW INTO FOUND - THICKEN EDGES & SLOPE AWAY FROM STRUCT.
8. ADD'L (2) #4'S T&B, 24" EW, @ ALL FOUND INTERSECTIONS
9. 3½" OD STL COLUMN ON 30"X30"X12" TH CONC COL PAD
10. BEAM POCKET W/ MIN 4" BEARING - GROUT LEVEL & SOLID
11. FREEZE PROOF HOSE BIBB
12. METALBESTOS FLUE W/ UL APP'D CAP & CO
13. GAS WATER HEATER W/ OVERFLOW TANK IF < 30 GALLON
14. FLOOR DRAIN
15. FORCED AIR GAS FURNACE
16. 4" Ø PERF DRAIN PIPE @ FOUND PERIM TO OPT SUMP W/ DED. OUTLET OR DAYLITED
17. APPROX. LOCAT. OF 200AMP ELECT PANEL W/ GFI - FIELD LOCATE
18. IRC BRACED WALL PANEL - SEE IRC NOTE ON SHT 2
19. (2) 2X12 HEADER - 16'-0" LONG (PORTAL FRAME)
20. (2) 2X10 HEADER
21. (2) 1¾"X11⅞" ML HDR - 12'-0" LONG (PORTAL FRAME)
22. (2) 1¾"X11⅞" ML HEADER
23. 11⅞" TJI FLOOR JOISTS @ 16" OC - 210 SERIES BY TRUS JOIST INC
24. 1¾"X11⅞" MICROLLAM
25. 2X10 FLOOR JOISTS @ 16" OC W/ (2) 2X10'S @ PERIM @ LANDING
26. 4X4 POST ON 16"X16"X12" TH CONC PAD
27. CANTILEVER ABOVE, INSUL TO R-19 MIN, COVER W/ EG MTL & SEAL ALL JOINTS

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STATE OF MISSOURI — FRANKLIN D. WISEMAN, JR. — NUMBER A-2003027170 — ARCHITECT

10-26-16

DATE:

Frank Wisemen
Missouri License #: A-2003027170

ARCHITECTURE

Frank Wiseman
(Sole Proprietor)
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WHALEN Custom Homes
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Sales: 314-575-7645
Office: 314-821-1745

PROJECT TITLE

Proposed Residence For:
THE ROGERS FAMILY
LOT 7 STONE MILL
WILDWOOD, MO.

DRAWING ISSUE / REVISION

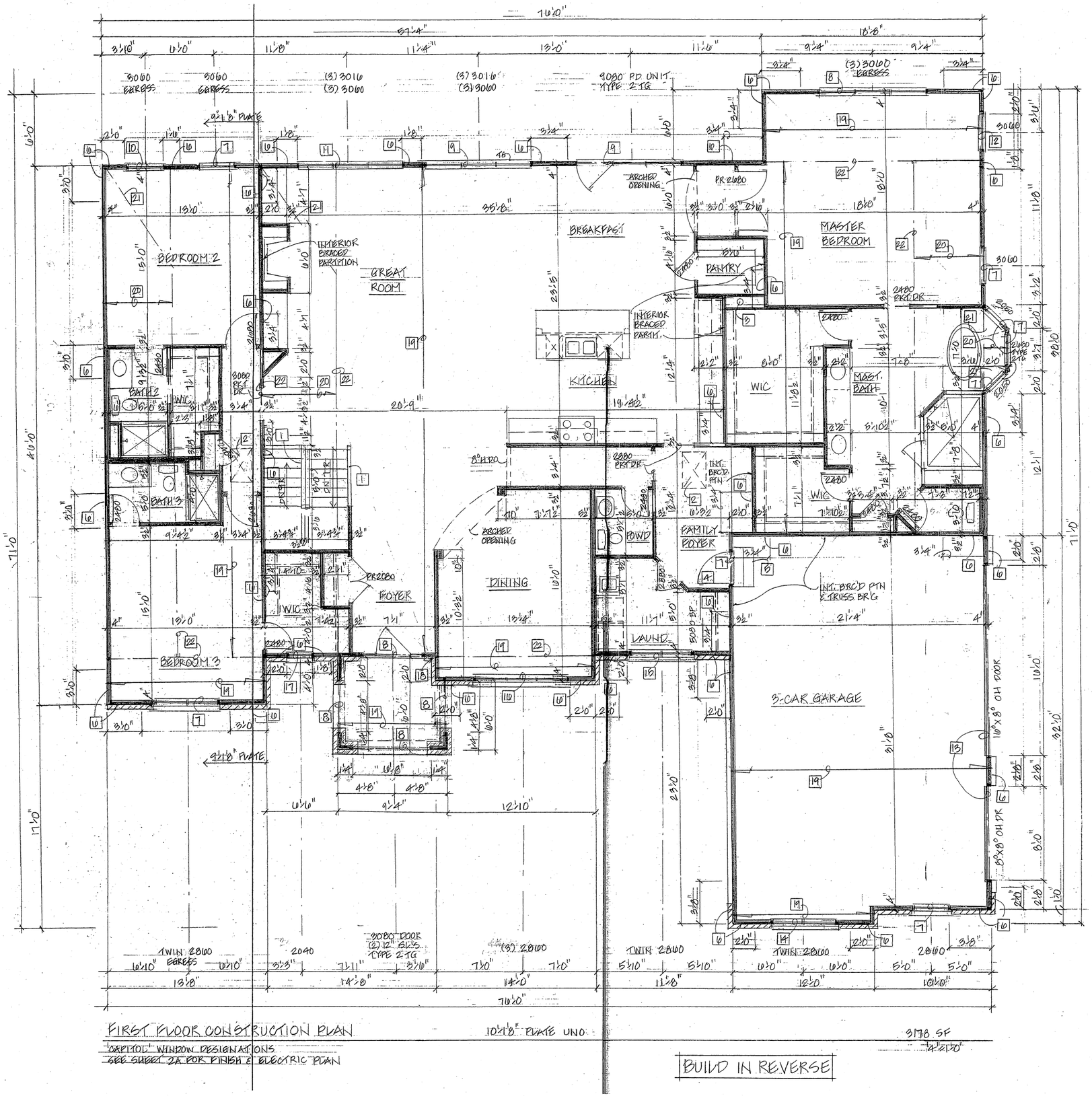
REV #	DESCRIPTION	DATE
	ROGERS RESID	10/5/16
1	BUILD IN REV.	10/26/16

DRAWING TITLE
BASEMENT / FOUND. PLAN

SHEET NUMBER
1 OF 9

JOB #

SHEET SIZE 36" X 24" LANDSCAPE



FIRST FLOOR CONSTRUCTION PLAN

CAPITOL WINDOW DESIGNATIONS
SEE SHEET 2A FOR FINISH & ELECTRIC PLAN

BUILD IN REVERSE

FIRST FLOOR CONSTRUCTION PLAN NOTES

1. 36"H RAILING W/ MAX 4" OC SPACING BTWN. BALUSTERS
2. 22"X30" ATTIC ACCESS
3. KNEE SPACE - MIN 2'-0" CLEAR
4. 2880 SC DOOR
5. MIN 4" STEP UP
6. IRC BRACED WALL PANEL - SEE IRC NOTE THIS SHEET
7. (2)2X10 HEADER
8. (2)2X12 HEADER
9. (2)1 3/4"X11 7/8" MICRO=LAM HEADER
10. (2)2X12 HEADER - 6'-10" LONG (PORTAL FRAME)
11. (2)1 3/4"X14" MICRO=LAM HDR - 12'-4" LONG (PORTAL FRAME)
12. (2)2X12 HEADER - 16'-0" LONG (PORTAL FRAME)
13. (2)1 3/4"X11 7/8" MICRO=LAM HDR - 32'-0" LONG (PORTAL FRAME)
14. (2)2X12 HEADER - 12'-0" LONG (PORTAL FRAME)
15. (2)2X12 HEADER - 11'-8" LONG (PORTAL FRAME)
16. (2)2X12 HEADER - 14'-0" LONG (PORTAL FRAME)
17. (2)2X12 HEADER - 5'-11" LONG (PORTAL FRAME)
18. 1000 LB HOLD DOWN
19. PREFAB TRUSSES @ 24" OC
20. PREFAB MONO TRUSSES @ 24" OC
21. PREFAB HIP CORNER SET
22. PREFAB GIRDER TRUSS W/ (6) STUDS EE OR GIRDER TO GIRDER CONNECTION BY TRUSS MFGR

IRC NOTE

SIMPLIFIED BRACING METHOD' USED
THE INT. & EXT. WALL CONFIG. BRACES THE STRUCT.
IN ACCORD W/ OR EQUAL TO THE LATERAL BRACING
PROVISIONS OF 2009 IRC SECT R602.10 OR 2009 IBC SECT 2305.
SHEATH ENTIRE STRUCT W/ 7/16" OSB OR PLYWOOD
SEE SHEET D3 FOR DETAILS

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REV #	DESCRIPTION	DATE
	ROGERS RESID	10/5/16
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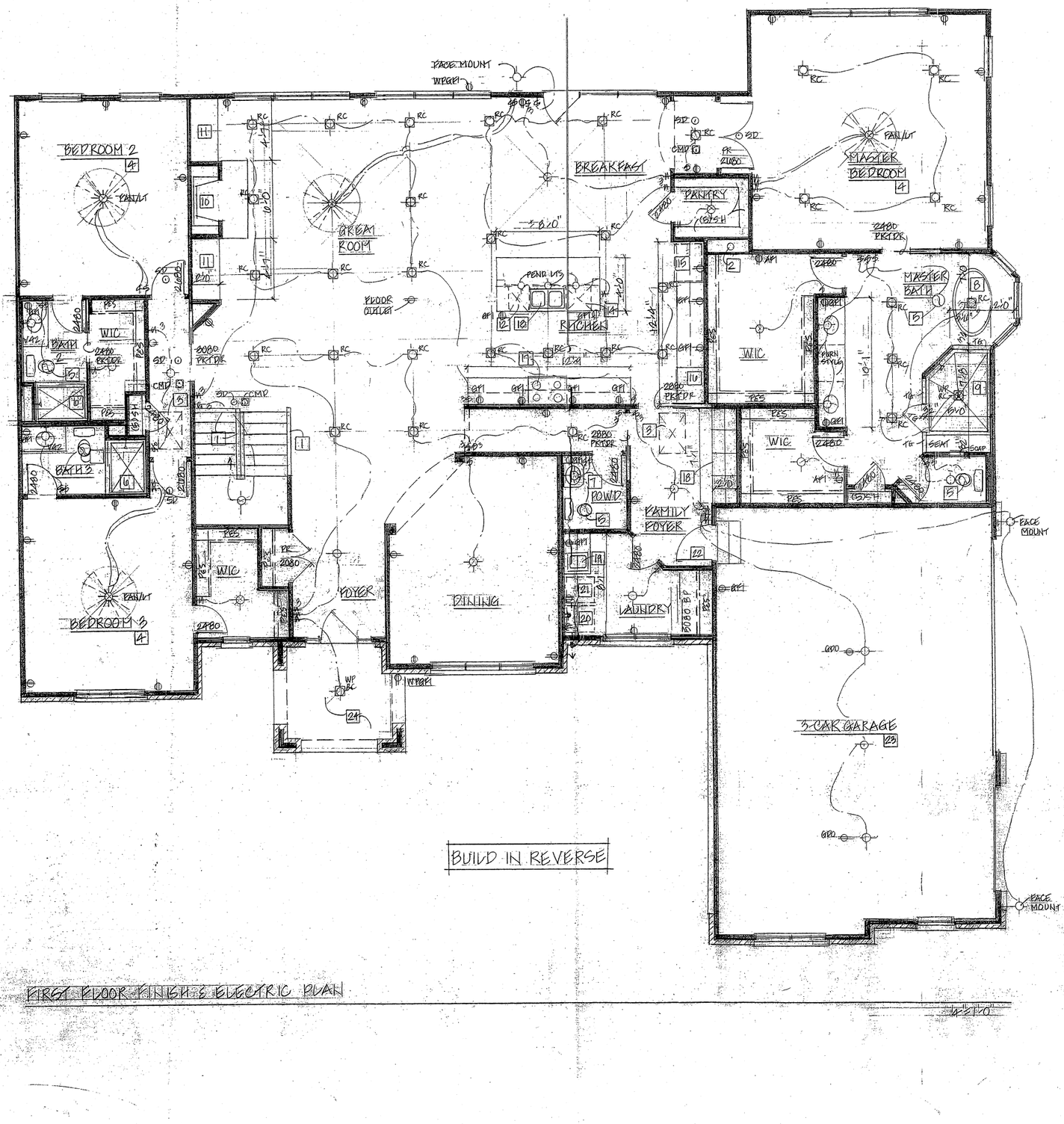
DRAWING TITLE
FIRST FLOOR CONSTRUCTION PLAN

SHEET NUMBER
2 OF 9

JOB #

SHEET SIZE | 36" X 24" LANDSCAPE



FIRST FLOOR FINISH & ELECTRIC PLAN

1/4"=1'-0"

FIRST FLOOR FINISH & ELECTRIC NOTES

1. 36" H RAILING W/MAX 4" OC SPACING BTWN BALUSTERS
2. PLUE SPACE - MIN 2" CLEAR
3. 22"X36" ATTIC ACCESS
4. AFI CIRCUITS IN THIS ROOM
5. EXHAUST FAN TO EXT - MIN 80CFM
6. 48"X36" SHOWER W/ TG. DOORS
7. PEDESTAL SINK
8. FREESTANDING TUB
9. SHOWER W/ TG WALLS & DOOR W/SEAT & SOAP NICHE
10. HEARTILATOR NOVUS DIRECT VENT FIREPLACE
11. BUILT-INS
12. TRASH
13. 36" SINK W/ DISPOSAL
14. DISHWASHER
15. REFRIGERATOR SPACE
16. OVEN CABINET
17. 36" RANGE W/220V OR GAS HOOKUP & EXH HOOD
18. CUBBIES
19. LAUNDRY SINK IN CABINET
20. WASHER SPACE W/ H&C & HI DRAIN
21. DRYER SPACE W/220V OR GAS HOOKUP & VENT TO EXT
22. 2080 SC DOOR
23. (1) LAYER 5/8" TYPE 'X' DW W/ 3½" BATT INSUL (R-13 MIN) @ ALL WALLS BTWN HOUSE & GAR UP TO UNDERSIDE OF ROOF SHTG OR (1) LAYER 5/8" TYPE 'X' DW ON GAR CLG W/ FIRESTOPPED ATTIC ACCESS (FIELD LOC.)
24. VINYL SOFFIT & CEILING

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ARCHITECTURE

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WILDWOOD, MO.

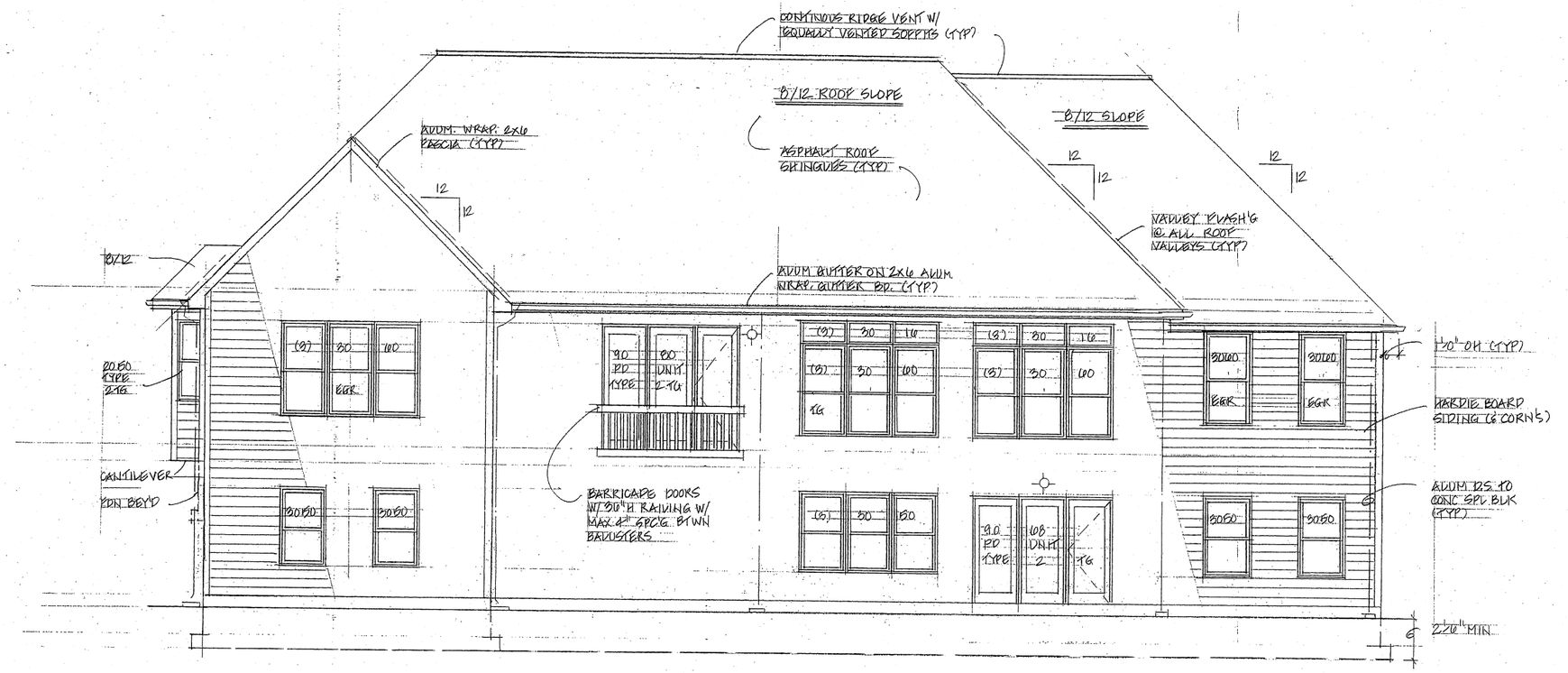
DRAWING ISSUE / REVISION

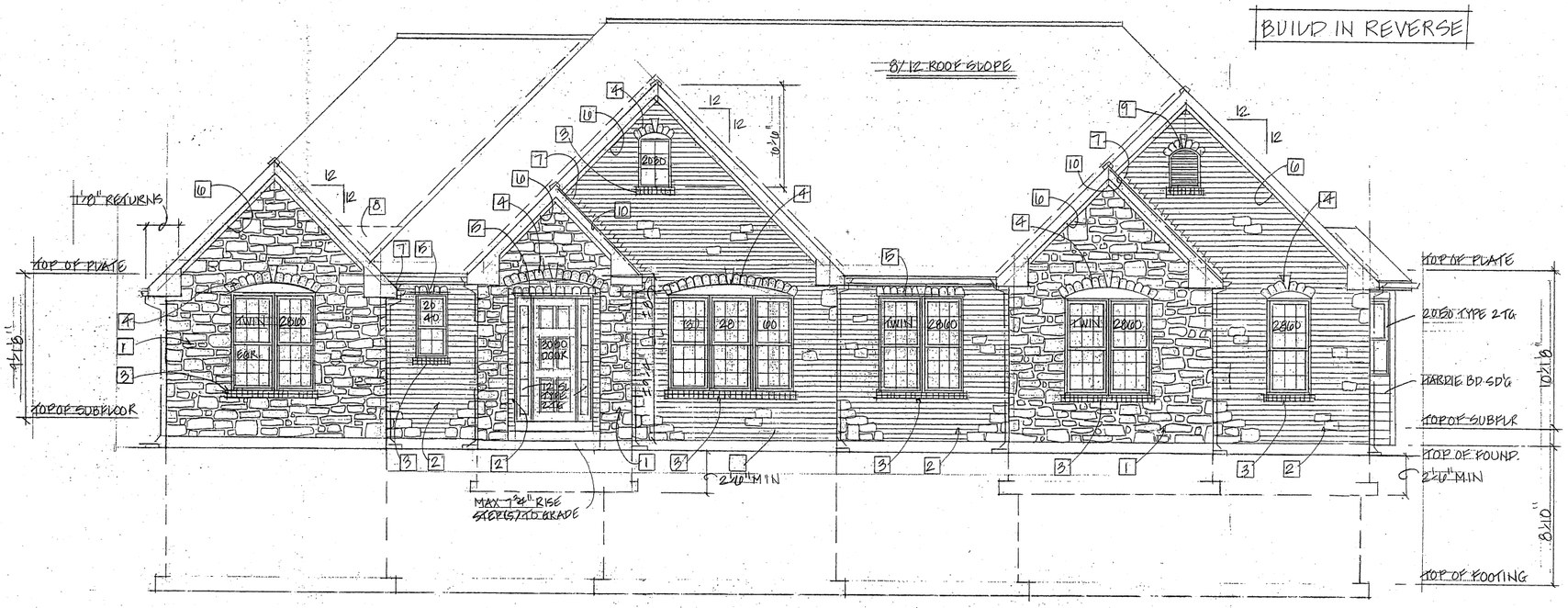
REV #	DESCRIPTION	DATE
	ROGERS RESID.	10/5/16
1	BUILD IN REV.	10/26/16

DRAWING TITLE
FIRST FLOOR FINISH & ELECTRIC PLAN

SHEET NUMBER
2A OF 9

JOB #
SHEET SIZE 36" X 24" LANDSCAPE





FRONT ELEVATION NOTES

1. STONE VENEER
2. BRICK VENEER W/ STONE ACCENTS
3. BRICK ROWLOCK SILL
4. STONE ARCH W/ STONE KEY
5. STONE HDR W/ 3½"x3½"x¼" STL ∠
6. 2X ALUM WRAPPED SHADOW TRIM
7. METAL STEP FLASHING
8. METAL PAN
9. 'FYPON' EYEBROW LOUVER # EBLV22X32 W/ STONE ARCH & KEY & ROWLOCK SILL
10. BOLT 3½"x3½"x¼" STL ∠ TO TRUSS @ 16"OC TO SUPPORT BRICK VENEER

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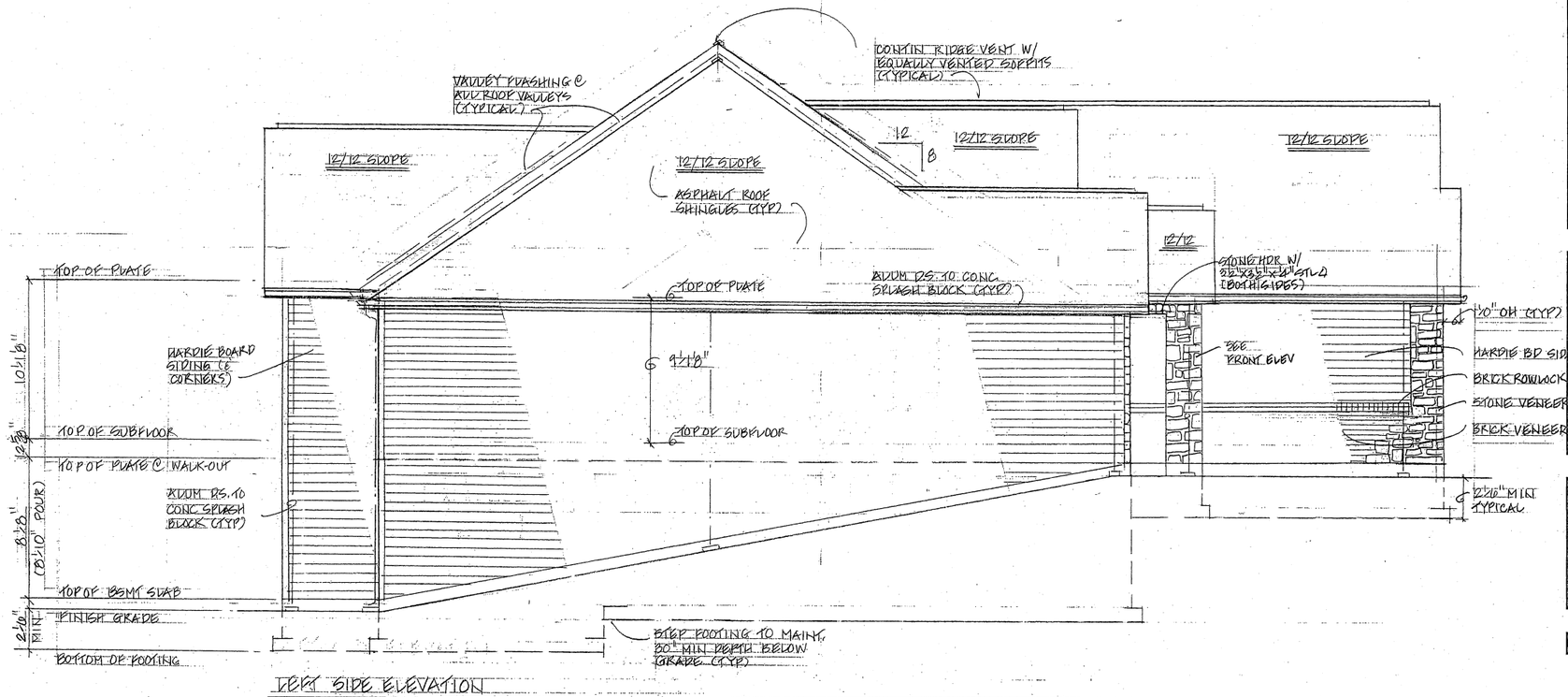
DRAWING ISSUE / REVISION

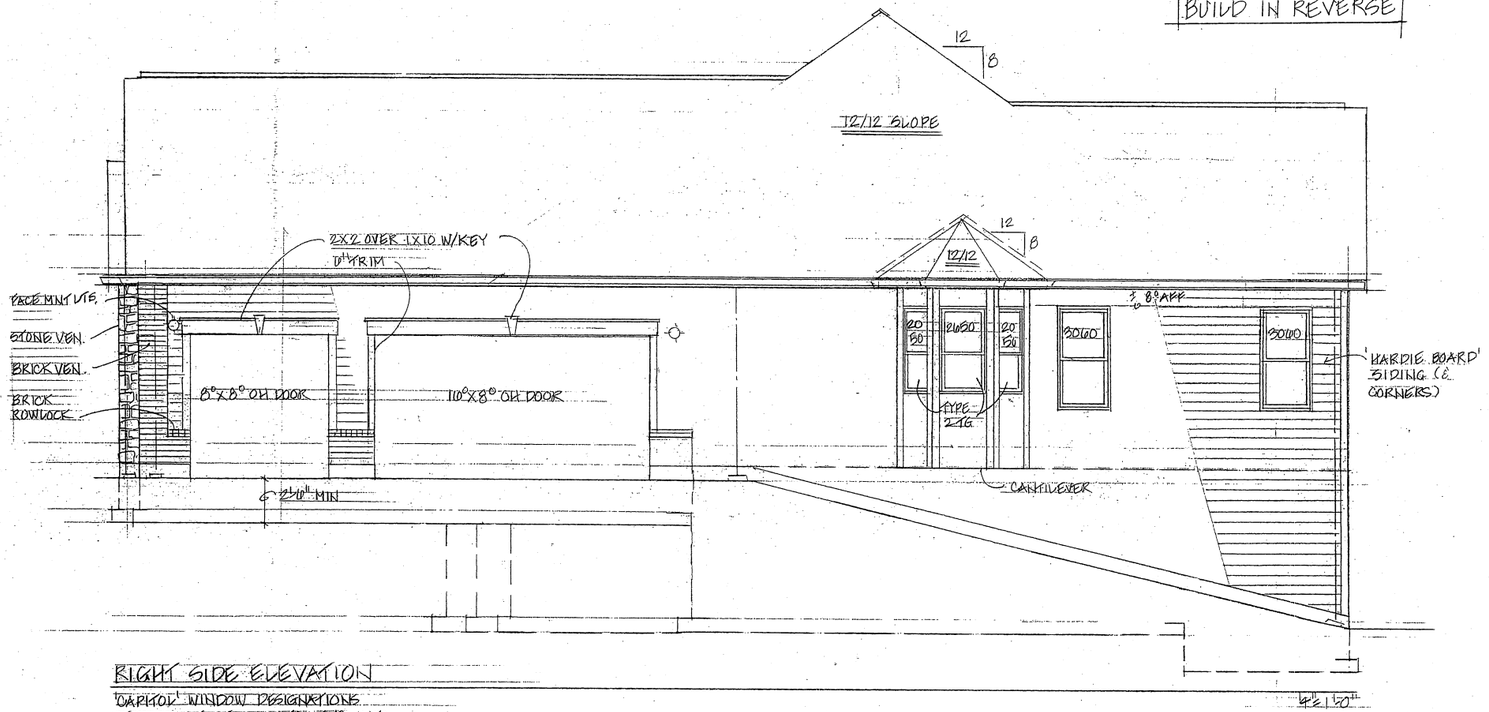
REV #	DESCRIPTION	DATE
	ROGERS RESID	10/5/16
1	BUILD IN REV	10/26/16

DRAWING TITLE
FRONT & REAR ELEVATIONS

SHEET NUMBER
3 OF 9



BUILD IN REVERSE



RIGHT SIDE ELEVATION

'CAPITOL' WINDOW DESIGNATIONS
SEE LEFT SIDE ELEV FOR TYP. INFO

42'-1 0"

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DRAWING ISSUE / REVISION

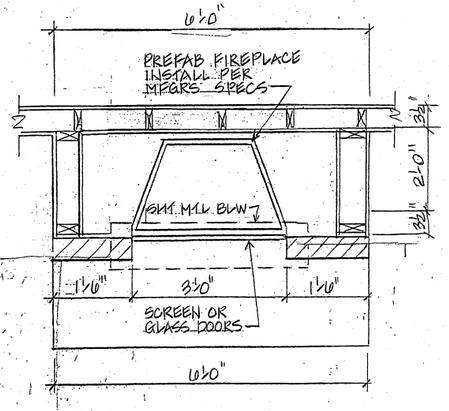
REV #	DESCRIPTION	DATE
	ROGERS RESID	10/5/16
1	BUILD IN REV	10/24/16

DRAWING TITLE
SIDE ELEVATIONS

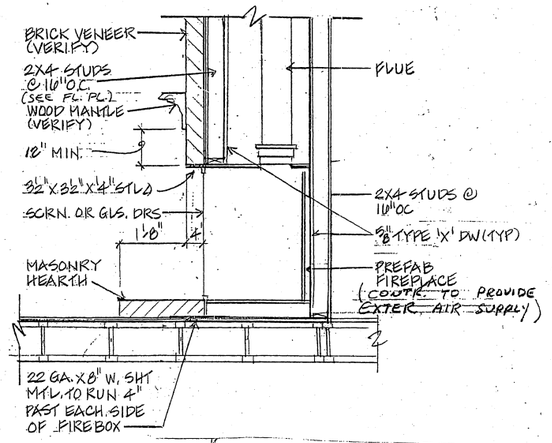
SHEET NUMBER
4 OF 9

JOB #
SHEET SIZE 36" X 24" LANDSCAPE

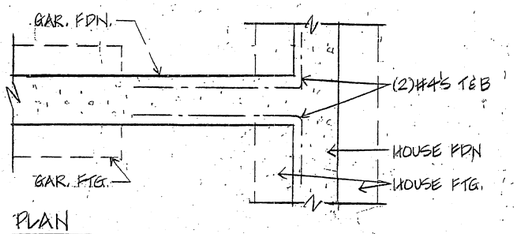
FIREPLACE NOTE:
FIRESTOP REQUIRED @ ALL CEILING LINES & ATTIC SPACES W/5/8" TYPE 'X' D.W., 3/4" PLYWD OR 22 GA. SHT MTL
SEP SHUT-OFF VALVE IF GAS FIRED



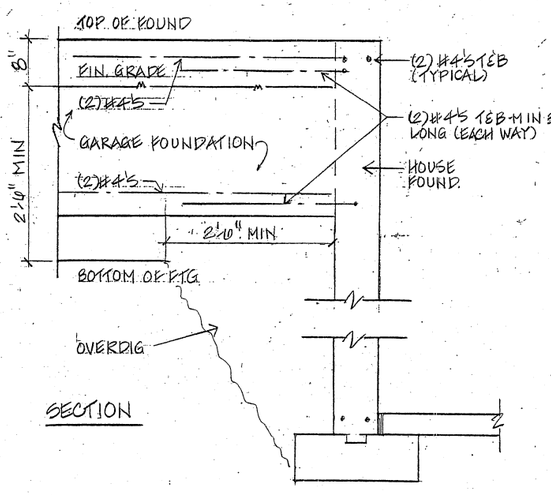
FIREPLACE PLAN
3/4"=1'-0"



FIREPLACE SECTION
3/4"=1'-0"

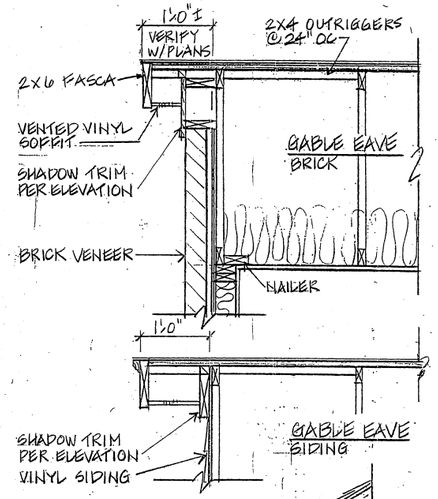


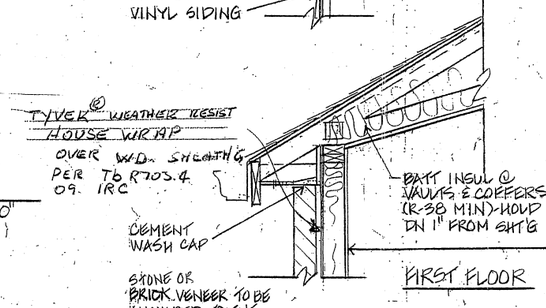
PLAN



SECTION

FOUNDATION WALL BRIDGE
(SHORT WALL TO TALL WALL)
1"=1'-0"

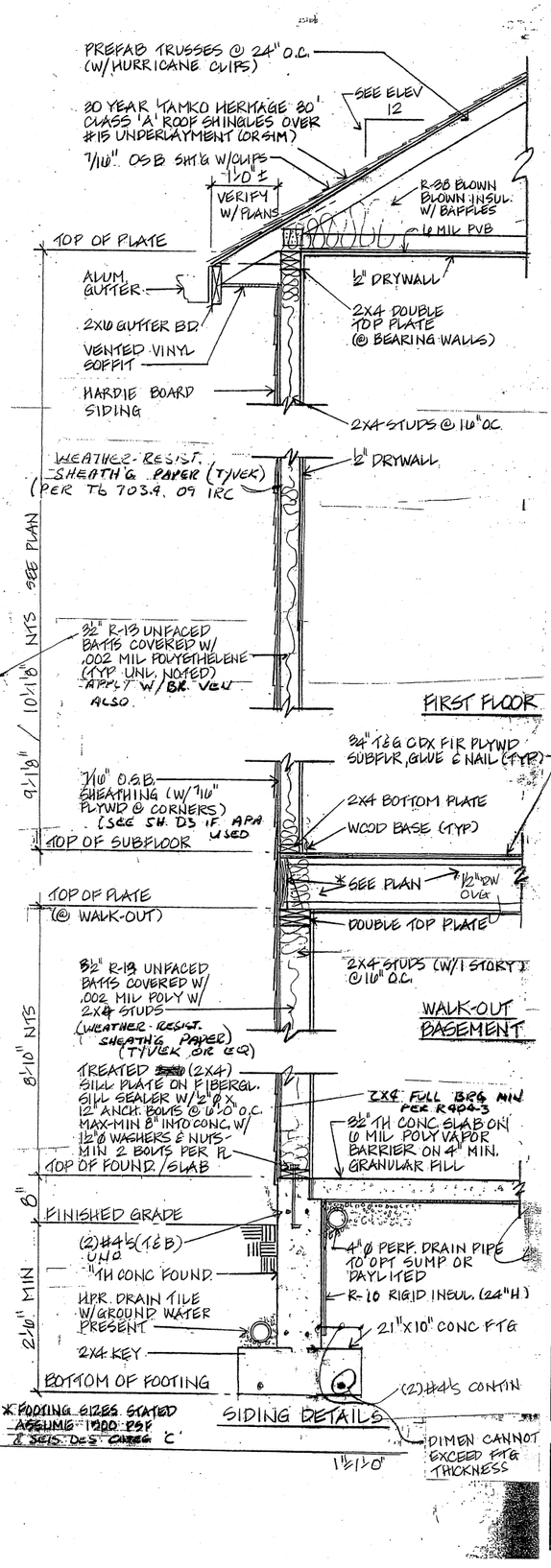




NOTE:
SEE GENERAL NOTES FOR ADDITIONAL INFORMATION

* BRICK VEN. ANCHORS AROUND OPEN'GS LARGER THAN 16" IN EITHER DIRECTION SHALL BE SPACED 3'-0" O.C. MAX AROUND PERIMETER AND WITHIN 12" OF OPEN'G

TYPICAL WALL SECTIONS



* FOOTING SIZES STATED ASSUME 1200 PSF & SEIS. DES. CATEG C.

SIDING DETAILS
1"=1'-0"

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WILDWOOD, MO.

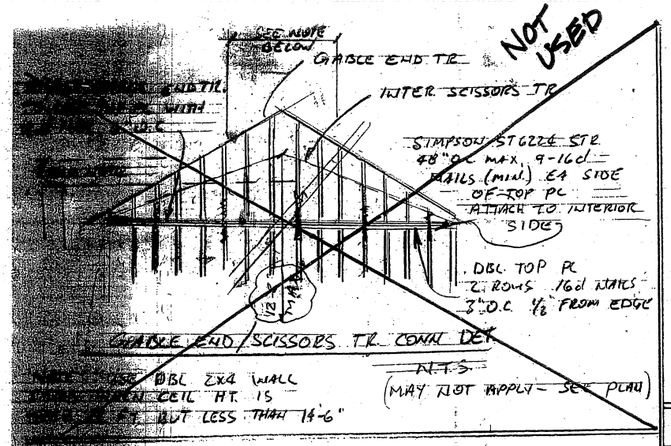
DRAWING ISSUE / REVISION

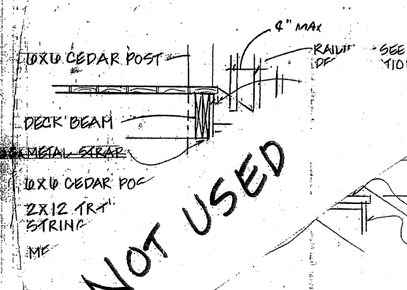
REV #	DESCRIPTION	DATE
	ROGERS RES.	10/5/16

DRAWING TITLE
SECTIONS

SHEET NUMBER
D1 OF 9

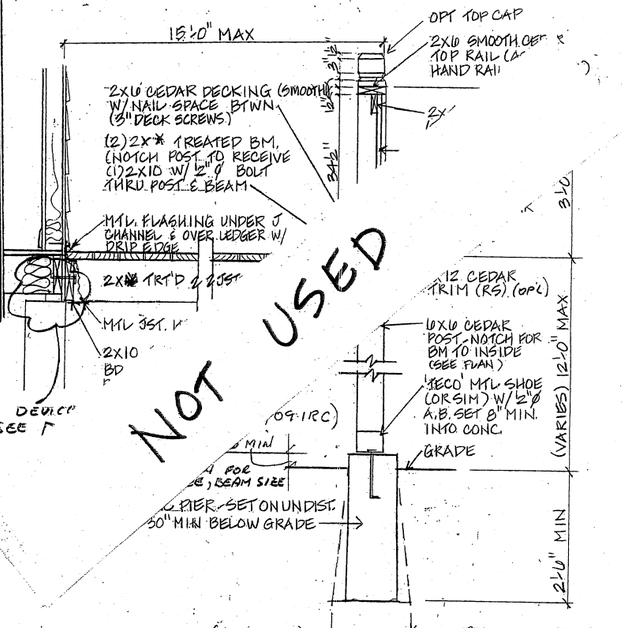
JOB #
SHEET SIZE 36" X 24" LANDSCAPE





STA. TION @ DECK

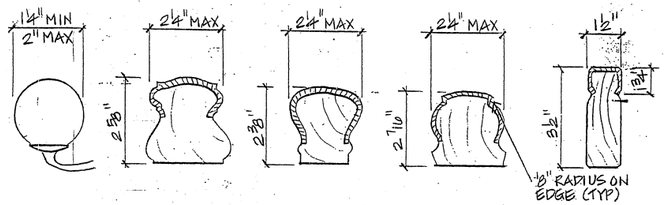
3/4"=1'-0"



DECK SECTION (TYP. SEE PLANS)

3/4"=1'-0"

ALL TREATED LUMBER TO BE ACQ TREATED. ALL METAL THAT COMES IN CONTACT W/ ACQ TREATED LUMBER TO BE GALVANIZED.

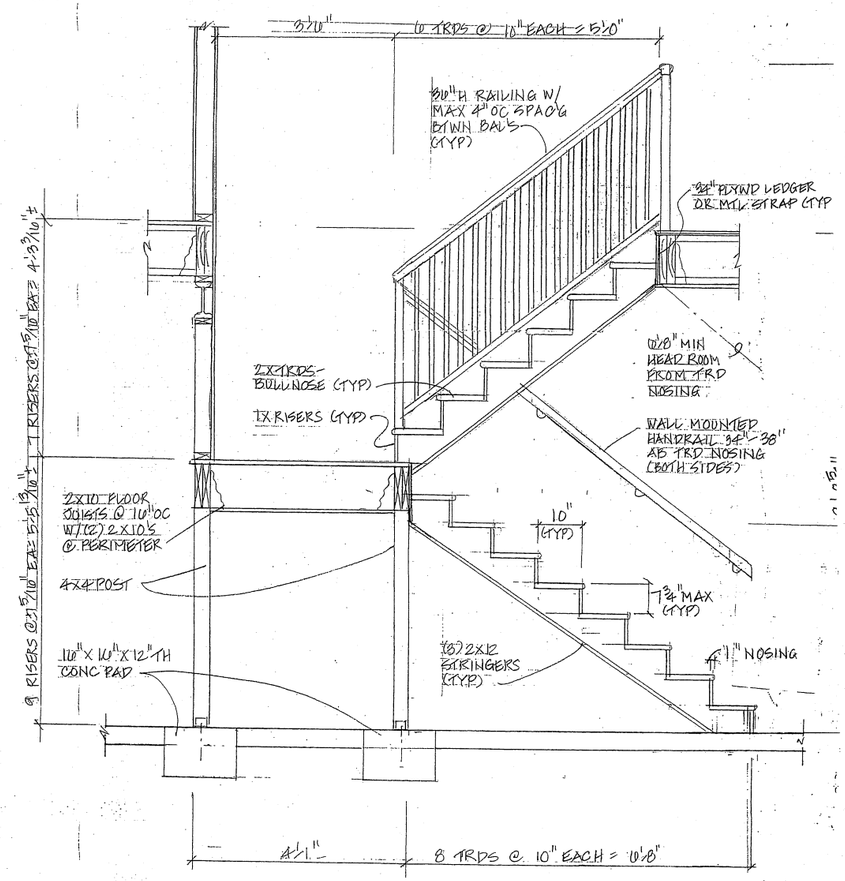


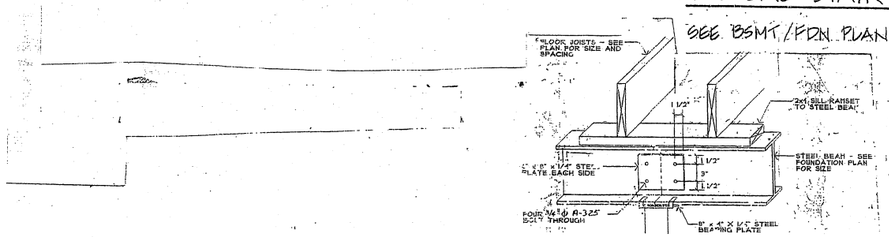
ACCEPTABLE RAIL PROFILES

DENOTES GRASPABLE PERIMETER

HANDRAILS SHALL MEET EITHER:
- CIRCULAR CROSS SECTION W/ MIN Ø OF 14" BUT LESS THAN 2"
- OTHER SHAPES HAVING A MAX. ALLOWABLE HORIZ. WIDTH OF 24", MAX. GRASPABLE PERIMETER DIMEN. OF 64" AND/OR MIN. 4" GRASPABLE DIMENSION

ALL RAILS TO BE CONTINUOUS & RETURN TO WALL OR NEWEL POST EA. END, NO LADDER DESIGN

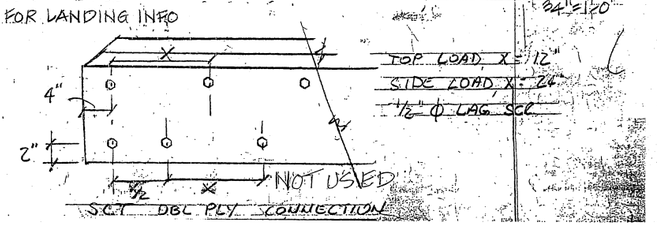




TYPICAL STAIR SECTION (U.N.O. ON SPECIFIC PLAN)

SEE BSMT/FDN. PLAN FOR LANDING INFO

3/4"=1'-0"



The Professional Architects seal affixed to this sheet indicates that the named Architect has prepared or directed the preparation of the material shown only on this sheet. Other drawings and documents not exhibiting this seal shall not be considered prepared by or the responsibility of the undersigned.

STATE OF MISSOURI
FRANKLIN D. WISEMAN, JR.
NUMBER A-2003027170
ARCHITECT
10-26-16
DATE:

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Missouri License #: A-2003027170

ARCHITECTURE

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WHALEN Custom Homes
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Kirkwood, MO 63122
Sales: 314-575-7645
Office: 314-821-1745

PROJECT TITLE

Proposed Residence For:
THE ROGERS FAMILY
LOT 1 STONE MILL
WINDWOOD, MO.

DRAWING ISSUE / REVISION

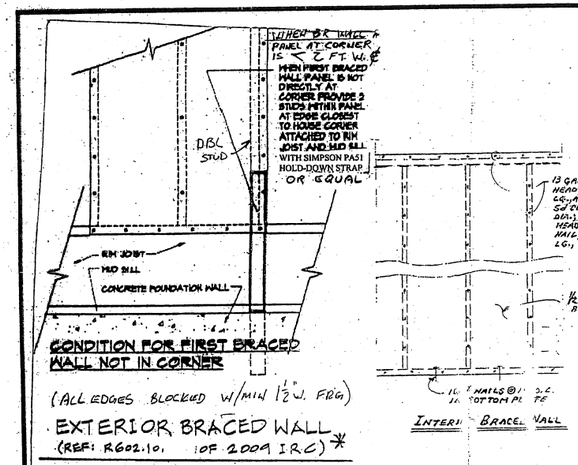
REV #	DESCRIPTION	DATE
	ROGERS RESID	10/15/16

DRAWING TITLE: STAIR SECTION

SHEET NUMBER: D2 OF 9

JOB #

SHEET SIZE: 36" X 24" LANDSCAPE



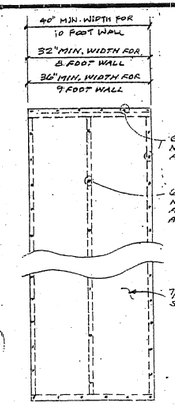
CONDITION FOR FIRST BRACED WALL NOT IN CORNER

(ALL EDGES BLOCKED W/MIN 1½" W. FRG)

EXTERIOR BRACED WALL

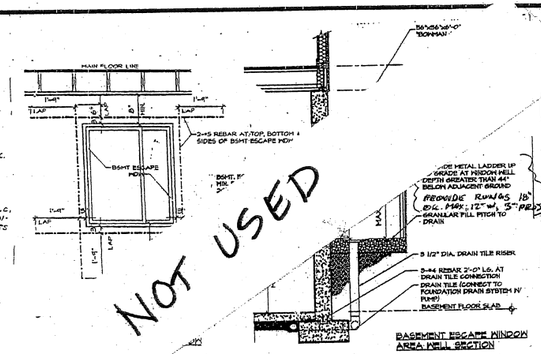
(REF: R602.10. OF 2009 IRC) *

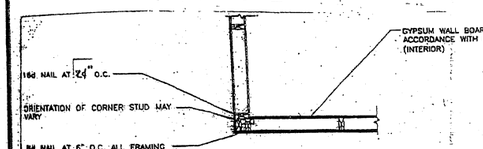
INTERIOR BRACED WALL



EXTERIOR BRACED WALL PANEL

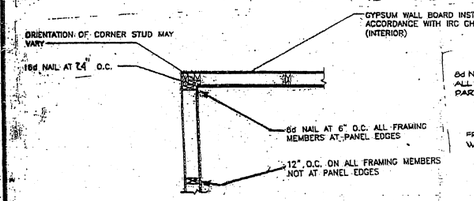
(ALL EDGES BLOCKED WITH MIN. 1½" W. FRAMING





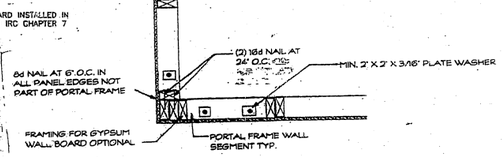
IMPORTANT CODE REQUIREMENT:
ONLY FOR USE ON HOMES WITH FULLY SHEATHED PLYWOOD OR OSB EXTERIOR WALLS, PER IRC R602.10.3

EXAMPLE OF OUTSIDE CORNER DETAIL PER IRC R602.10.4

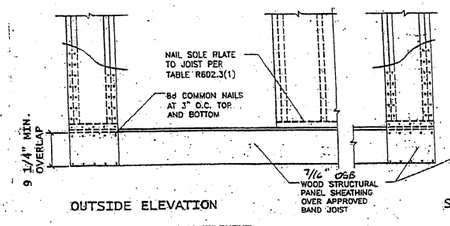


IMPORTANT CODE REQUIREMENT:
ONLY FOR USE ON HOMES WITH FULLY SHEATHED PLYWOOD OR OSB EXTERIOR WALLS, PER IRC R602.10.5.

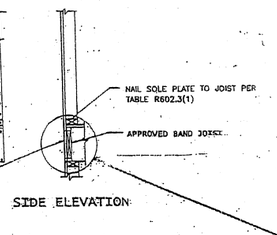
EXAMPLE OF INSIDE CORNER DETAIL PER IRC R602.10.4



CORNER DETAIL USED IN CONJUNCTION WITH 6:1 ASPECT RATIO FRAME



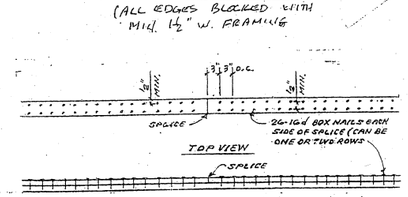
OUTSIDE ELEVATION



SIDE ELEVATION

IMPORTANT CODE REQUIREMENT:
ONLY FOR USE ON HOMES WITH FULLY SHEATHED PLYWOOD OR OSB EXTERIOR WALLS, PER IRC R602.10.3

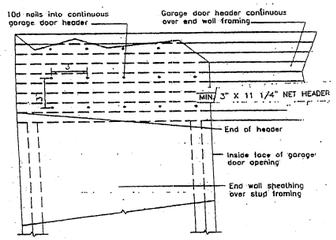
DETAIL OF NARROW WALL BRACING METHOD WITHOUT HOLD-DOWNS



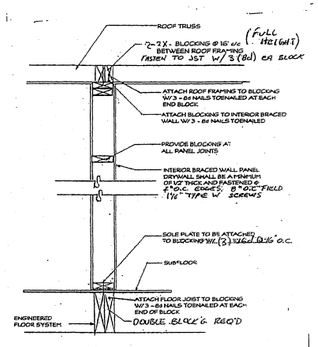
TOP VIEW

SIDE VIEW

DOUBLE TOP PLATE SPLICE IN BRACED WALL LINE (DRAG STRUT DETAIL)

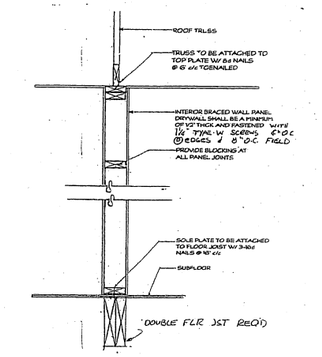


GARAGE DOOR HEADER OVER NARROW END WALL



INTERIOR BRACED WALL PERPENDICULAR W/ TRUSS & JOIST

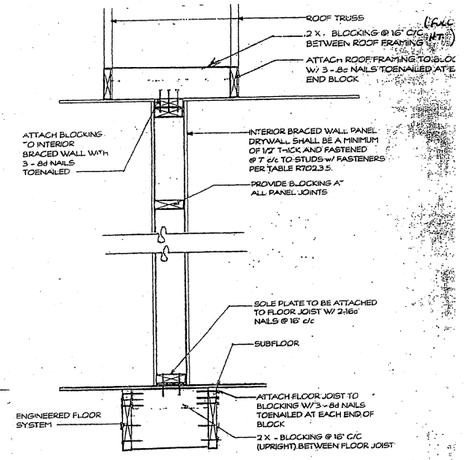
NOT TO SCALE



INTERIOR BRACED WALL W/ TRUSS & JOIST DIRECTLY ABOVE AND BELOW

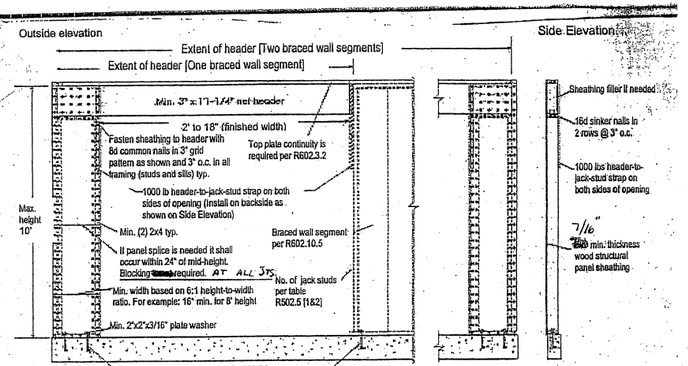
NOT TO SCALE

CITY OF BALLWIN, 2006 IRC



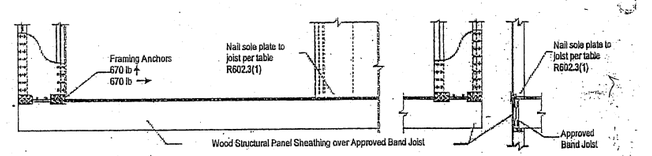
INTERIOR BRACED WALL W/O TRUSS & JOIST DIRECTLY ABOVE AND BELOW

NOT TO SCALE

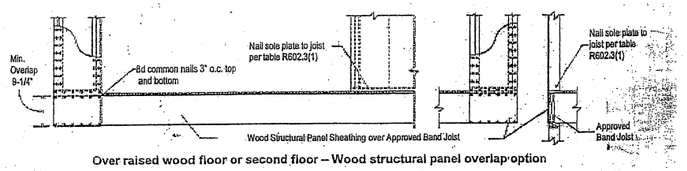


Over concrete or masonry block foundation

(R602.10.6.2, 09 IRC)



Over raised wood floor or second floor – framing-anchor option



Over raised wood floor or second floor – Wood structural panel overlap option

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STATE OF MISSOURI FRANKLIN D. WISEMAN, JR. NUMBER A-2003027170 ARCHITECT

DATE: 10-26-16

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Missouri License #: A-2003027170

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WHALEN Custom Homes

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Kirkwood, MO 63122
Sales: 314-575-7645
Office: 314-821-1745

PROJECT TITLE

Proposed Residence For:
THE ROGERS FAMILY
LOT 7 STONE MILL
WILDWOOD, MO.

DRAWING ISSUE / REVISION

REV #	DESCRIPTION	DATE
	ROGERS RESID	10/26/16

DRAWING TITLE: IRC DETAILS

SHEET NUMBER: D3 OF 9

JOB #

SHEET SIZE: 36" X 24" LANDSCAPE

GENERAL BUILDING NOTES

1. The general or grading contractor is responsible for providing a minimum safe soil bearing capacity of 1500 psf (2000 psf if certified by a Missouri registered soils engineer) for all foundation footings. No foundation footings shall be placed on fill dirt. Design shall conform to Seismic Design Category "A/B" per Sec R301.2.2 of the 2009 International Residential Code for one and two family detached dwellings. All others shall conform to Seismic Design Category C unless soils reports indicate a seismic condition requiring stricter seismic considerations. *

2. Backfill shall be free of debris and large rocks, installed in lifts and each lift compacted to fill all voids.

3. Fc=3500 psi @ 28 days (min) concrete, air entrained per table R402.2 of the 2009 IRC or as * required by local codes.

4. Concrete basement foundation walls with more than 20% exposure above finish grade to be insulated w/products meeting the following criteria: flame spread rating less than 25; smoke development rating less than 450; can be left exposed without an approved 15 min. thermal barrier (1/2" drywall); R-13 min. insulation value. Extend insulation down to 24" min. below outside finish grade (or to basement slab). Fiberglass batts or blanket. No foam products allowed.

5. Concrete piers to be 30" min. below grade and 24"min. into undisturbed earth. Flare bottom of piers per plan.

6. Basement to have glass area equal to 1/150th of total area.

7. Basement to have vent area to 1% of total area.

8. Basement wall and floors of habitable and occupied spaces are to be water tight and properly reinforced to withstand water pressure as necessary.

9. 6 mil poly vapor barrier required under concrete slabs with lapped joints minimum 6". (basement and garage floors affected.)

10. No ground water present-provide drain tile or perforated pipe around perimeter of the outside of the foundation or inside the foundation under the slab. Drain discharge shall be gravity to daylight or be connected to a basement floor sump. Basement area way drains and foundation drain tiles are not to be connected to a sanitary sewer.

A) An approved filter membrane shall be placed on 2" minimum gravel or crushed stone and have 6" minimum cover.

B) Provide sump; 15" in dia. x 18" deep with a fitted cover connected to the foundation drain pipe unless gravity discharge. A sump shall be provided if basement is finished with pump discharge into an approved disposal system.

C) Provide damp-proofing of floor slab of 6 mil polyethylene film below slab with joints in membrane lapped and sealed.

D) Walls shall be dampproofed with a bituminous material, 3 lb. per sq. yd. of acrylic modified cement, 1/8" coat of surface bonding mortar, or by any of the materials permitted for wall waterproofing.

10.1 Groundwater present-provide drainage system inside and outside of foundation.

A) Drainage system shall discharge by gravity to daylight or be connected to an approved sump (15" in diameter by 18" deep fitted cover) having a sump pump that discharges into an approved disposal system. Basement area way drains and foundation drain tiles are not to be connected to a sanitary sewer.

B) Provide waterproofing membrane under floor slab of rubberized asphalt, butyl rubber, neoprene or minimum 6 mil polyvinyl chloride or polyethylene with joints lapped a minimum of 6" and sealed.

C) Foundation to be waterproofed with two ply hot-mopped felts, 6 mil PVC, 40 mil polymer asphalt or 6 mil polyethylene. Joints to be lapped and sealed per manufacturers installation instructions.

D) Waterproofing to be applied from the bottom of the wall to at least 12" above the water table elevation. The remainder of the wall to be dampproofed. All joints in walls and floors to be watertight.

11. Steel and wood beams to have 4" minimum bearing in pocket and grouted solid.

12. All lumber is to conform to Table 1, American Lumber Standards Committee as indicated on this sheet.

13. Roof overhang-2 layers of 15# felt (Type 1 per ASTM D226-95) cemented together from eave 24"inside building wall. Full 15# felt on all roof surfaces in compliance with 2009 IRC and local * ordinances.

14. Attic to have a minimum venting equal to 1/150th of total area. Two (2) remote vents required for each (min) Where ridge or gable vents are used, ½ of the area to be provided by ridge or gable vents and ½ by eave or cornice vents. Ventilation cannot be mechanical only.

15. Aluminum flashing is required at roof/wall and chimney/roof intersections.

16. Corrosion resistant flashing is required at the top and sides of all exterior window and door openings, all wall and roof intersections, changes in roof slope or direction, around all roof openings, intersections with chimneys, intersections of exterior walls and porches & decks, etc. ~~Two (2) layers of 15# felt (type 1 per ASTM D226-95) may be used for flashing at roof valleys~~ ~~[illegible]~~.

17. Caulking and sealants: Exterior joints around window and door frames; between wall cavities and window or door frames; between wall and foundation, between wall and roof, between wall panels at penetrations or utility services through walls, floors and roofs; and all other openings in the exterior envelope shall be sealed in an approved manner.

18. All exposed materials for porches, soffits, overhangs, etc. to be approved exterior grade materials.

19. Fireblocking is required at all interior bearing partitions, furred spaces & between stair stringers attop and bottom of run, between stair stringers at the top and bottom of the run. Enclosed accessible spaces under stairs shall have walls, under stair surface and any soffits protected on the enclosed side with ½" gypsum board. Fire blocking required for all spaces between the chimney and the floors and ceilings the chimney passes through with 1" depth batt or blanket or mineral wool or glass fiber supported by strips of metal or metal lath. Fire blocking required around vent, pipe and duct penetrations of ceilings and floors.

20. Firestop all dropped ceilings, soffits, and partitions over 8'-1-1/8" high. Ceilings suspended below wood joists or attached to wood floor trusses to be draft-stopped at 1000 sq. ft. intervals and parallel to the framing members.

21. Top and bottom of all conventional and staggered-stud walls to be firestopped.

22. Double floor joists below parallel partitions.

23. All door and window headers: 2-2x10's unless noted otherwise. All headers to conform to Table 1 ALSC, this sheet U.N.O.

24. All nailing must comply with table R602.3.(1), (2) of the 2009 IRC *

25. Drywall installation to be in accordance with the Gypsum Association's recommended practices as to the thickness, nailing and taping on correct spacing and Table R602.3.1 of the 2009 IRC *

26. All fire rated drywall assemblies shall be installed in accordance with the specifications of the approved test assembly

27. Water resistant gypsum board is required in bath tub and shower areas (DO NOT INSTALL OVER VAPOR BARRIER)

28. Interior finish materials shall not have flame spread ratings exceeding 200. If batt or blanket insulation including facings, vapor retarders or other vapor permeable membranes are exposed, material shall have a flame spread rating of 25 or less and a smoke development rating of 450 or less. Foam plastics shall have a flame spread rating of 75 or less and a smoke development rating of 450 or less

29. Air infiltration rate for windows shall not exceed 0.5 CFM per foot of sash track. Doors shall not exceed 0.5 CFM per sq. ft. of door area. Glazing in any portion of a building wall enclosing bathtubs, showers, hot tubs, etc. which is located less than 60" above a standing surface shall be tested and labeled in accordance with CPSC 16 CFR Part 1201 Standard as a Type I or Type II category safety glazing material. Any glazing material exceeding 9 s.f. in area is required to be safety glazing in accordance with the following categories:

a. Glazing in doors enclosing bathtubs, showers, hot tubs, whirlpools, saunas, steam rooms, spas, (TYPE II only), indoor or outdoor pools which is located 60" or less, measured horizontally, from the water's edge and less than 60" vertically above a standing surface
b. Any glazing material within a 24" a4rc of either vertical edge of the door in a closed position and if the bottom edge of he glazing material is less than 60" above the floor.
c. Fixed or operable panels that have individual panes greater than 9 ft. and bottom edge less than 18" above the floor and top edge more than 36" above floor and walking surface within 36" horizontally
d. All doors
e. Glazing in hand or guard rails
f. Glazing adjacent to stairways, landings and ramps within 36" horizontally of the walking surface. And glazing adjacent to stairways within 60" horizontally of the gbottom tread in any direction when the exposed surface of the glass is less than 60" above the tread nosing

Bathrooms must have 50 CFM min. exhaust to exterior; Kitchen range exhaust fan and/ or down-draft cook top must have 100 CFM min. and 599 CFM max. (Also see note 53) exhaust to exterior; and clothes dryer must be vented to exterior and ducted independent of all other systems through a min. 4" dia. smooth duct. Maximum length of duct to be 25 ft.

31. House to have aluminum gutters and downspouts. Do not connect to sanitary sewers

32. Downspouts shall direct water away from foundation so as to prevent erosion

33. It is the contractor's responsibility to see that the stairway, handrails, balusters and connections are designed, fabricated and installed in accordance with 2009 IRC code requirements as required by * local ordinance. Handrails shall either meet A) circular cross-section with minimum diameter of 1-1/4" but not more than 2" B)other approved shapes having a maximum graspable perimeter dimension of 6-1/4", or minimum 4" graspable perimeter dimension. Maximum allowable handrail projection into stair width is 4 ½". Handrails must be continuous and return to either a newel post or wall at each end. Stairways require lighting w/illuminated switches, 10 footcandles min., measured at every tread nosing. Ext. stairs 1 footcandle

34. All wiring copper w/ ground and comply with all national, state, and local codes. Closet lighting per NEC 410-8, kitchen island receptacles per NEC 210-52. Receptacles for ranges and clothes dryers to be 3 pole ground type. Bedroom circuits to be arc protected

35. Grounding: If the underground metal water pipe is used as the grounding electrode, the connection must be made to the pipe within 5' of the point of entrance to the building. A supplemental grounding electrode shall be provided as specified in NEC 250-50 and 250-53

36. All electrical outlets in kitchen, baths, basement, garage and all other exterior electric outlets to be GFCI type. All circuits in bedrooms to be AFCI.

37. Garage/house separating partitions and garage ceiling constructed with 5/8" type X gypsum board (1 hour fire rated assembly) Basement garage or garage with 2nd story above: Ceiling and floor separating garage from dwelling to be 1 hour fire rated assembly of 5/8" type X gypsum board. Soffit down around any mechanical ductwork with 5/8" type X gypsum board. Garage/house separating partitions to be 1 hour fire rated each side of stud. All bearing walls, beams, and columns/wood posts to be wrapped with 1 hour assembly of 15/8" type X gypsum board. All soffits, eaves and overhangs within 5 ft. of a property line must be fire rated. See plans.

38. Smoke detectors to be AC powered with battery backup, UL listed and installed in accordance with NFPA 72-07. Detectors to be interconnected. Hallway detectors shall be located upstream from return air grilles. All bedrooms and each level of a residence must have a carbon monoxide detector. (UL 2034-2008/9)

39. No-lead solder required on all copper water supply piping

40. Plumbers Note: The incoming water service line for dwelling shall be sized as follows: 1" service line-up to 3 ½ baths, 1-1/4" service line-up to 6 baths, and 1 ½" service line-more than 6 baths. This count includes 1-kitchen sink with dishwasher, 1 clothes washer supply and laundry sink, and 2-1/2" exterior continuous use hose bibbs Roughed-in fixtures shall be included in this count.

41. Water service pipe and the building sewer are to be a minimum of 10 ft. apart horizontally

42. Door separating garage from the house is to be 1-3/4" solid core (1 hour fire rated) Door sill to be 4" minimum above garage floor

43. All footings shall be placed on virgin soil (undisturbed subgrade)

44. Finish grade to be 8" min. below top of foundation (6" min. for full masonry walls)) and slope away from foundation6" IN 10 FT.All areas sloped away to lower elevations

45. Heating contractor to furnish duct layout and heat loss/gain calculations

46. Roof trusses to comply with AFPA NDS-91 and TPI 1-2002; and roof truss manufacturer to furnish Missouri engineer-sealed drawings.

47. Parallam, Microlam, etc installations to be in strict accordance with manufacturer's recommendations. Minimum properties of all structural lumber assemblies to meet or exceed E=1.7, Fv=285 psi, Fb=2600 psi

48. All wood connections shall be in strict accordance with current AITC standards

49. The structure specified on this drawing set is certified as designed. Any additional design work including site plan, lot survey, mechanical details,. Any special foundation design if required soil conditions cannot be met is the responsibility of the builder unless specifically addressed in this set by the design professional

50. Insulating requirements: Roof/ceiling min. R-30; Frame walls and band joists min.R-13; Floor over unheated crawl space min. R-19; Basement foundation wall min. R-13; Slab on grade floor min. R-10 (unheated) R-15 (heated); Windows and doors max. U-.40

51. Entry doors: Locks with thumb turns on the inside are permitted. Inside key operation is permitted provided the key cannot be removed from the lock when locked from the inside

52. Each gas appliance shall have a gas shutoff valve and ground joint union. A sediment trap is required at each appliance or group of appliances. Gas piping shall be identified at intervals of no more than 5 ft. Vibration isolators shall be installed between mechanical equipment and metal ducts.

53. Vibration isolators shall be fabricated from approved materials and shall not exceed 1" in length. Minimum appliance clearance from combustibles is 18" and minimum clearance in front of appliances for services 30" Make-up air shall be provided during the operation of kitchen exhaust systems of 600 CFM or greater exhaust flow. (See M1502.4)

54. Cutting, notching and/or boring holes in wood beams, joists, rafters, or studs shall not exceed the limitations noted in R602.3.1 through 4, R502.8 and R802.7 of the 2009 IRC Code and as required * by local ordinance. Stud reinforcement to be done in accordance with R602.6 of the 2009 IRC

55. Nailing and fastening of floor, roof/ceiling, wall and roof sheathing, and gypsum const. shall be in accordance with R602.3.1 through 4 of the 2009 IRC in compliance with local ordinance. *

56. Combustible trim and mantles attached to the fireplace face shall be a minimum of 6" from the opening. Combustible material above & projecting more than 1 ½" from a fireplace face wall shall have a minimum clearance of 12" above a fireplace opening

57. Minimum depth of masonry fire box to be 20". Size of chimney connection to the smoke chamber shall have a minimum of 50 sq. in. in cross-sectional area.

58. The walls of the throat and smoke chamber shall be a minimum of 8" solid masonry or 4" of solid masonry with at least 1" of insulating refractory masonry

59. Masonry chimneys shall be constructed of 4" minimum solid masonry or 12" rubble stone masonry & shall be lined with minimum 5/8" thick fire-clay lining or other approved lining

60. Fireplace liner shall extend a minimum 4" into the throat of a masonry fireplace

61. Hanging light fixtures, track lighting & ceiling fans are not to be installed within 36" horizontal of bath tub, measured from outside edge of tub & 96" vertically from top of tub rim. Electric receptacles are prohibited in bath tub or shower space. Shower floors and shower, bathtub/shower enclosure walls to be constructed of smooth noncorrosive, nonabsorbant and waterproof materials to a height of 72" min. above floor

62. General contractor to affix a metal or of other durable material, sign reading "WARNING-TRUSSES NOT DESIGNED FOR STORAGE" in attics on each side of scuttle hole openings, 36" above bottom chord and within 18" of edge, 40 sq. in. in area using ¾" letters. Additionally a 2x4 horizontal railing is to be affixed on each side – 24" min. height and 36" max. height

63. All construction to be in accordance with the 2009 IRC, 2008 National Electric Code, the ~~2009 International Mechanical Code~~ and the 2009 Uniform Plumbing Code and all local ordinances unless otherwise indicated. Where construction does not meet the 2009 IRC, construction documents will be supplied either by the contractor or design professional of record showing compliance with the 2009 International Building Code. (2006 IBC - BALLWIN, MO) *

64. Windows: All skylights shall be double-glazed with maximum U value of 0.60. Windows for natural ventilation of unfinished basements may be single glazed. All other windows shall comply with one of the following conditions: For window areas that do not exceed 24% of the gross insulated frame wall area or the entire building:

a) Use double glazed windows with ½" minimum (gross overall thickness) clear glass, with either aluminum frame with thermal break, vinyl frame, wood frame, or fiberglass frame. OR
b) Use a window having a maximum overall U value not more than 0..40

For window areas greater than 24% and not more than 30% of the gross insulated frame wall area of the entire building, use one of the following options: Use double glazed windows with ½" min. (gross overall thickness) clear glass, with either aluminum frame with thermal break, vinyl frame, wood frame or fiberglass frame with one of the following options:

1. Treated with Low E film
2. Exterior wall sheathed with a minimum ½" sheathing with an R- value of R3 min.
3. Max U value of all windows shall not exceed 0.40

65. Contractor to install sign stating the house is equipped with dryer duct clean-outs when clean-outs are installed.

66. Mechanical contractor is required to install a programmable thermostat.

67. Electrical contractor is to install at least one communication outlet within the dwelling and cabled to the service provider demarcation point. The communication system shall have an interior bonding terminal.

68. Foam insulation products to be separated from interior by 1/2" thick gypsum.

69. No exposed or partially exposed or pendant lights allowed in closets. Maintain 12" clearance between light fixture and storage for incandescent lighting and 6" clearance for flourescent lighting.

70. Shower, shower floor and shower/bath enclosures to be smooth, non-corrosive, non-absorbent and waterproof up to 6 ft. 0 in. above floor.

71. Clearance for all mechanical equipment shall be 18 inches sides and back and 30 inches front.

72. All bedroom, habitable attics and basement to have a minimum of one egress window with 44 inches maximum dimension from finished floor to bottom of clear opening, 20 inches minimum width of clearance and 24 inches minimum height of clear opening. The shall also be a minimum open area for each egress window of 5.7 sq. ft. Egress openings in basement walls shall conform to the detail on this sheet.

73. The contractor shall insure all fuel gas appliances meet the requirements of the 2009 IRc, * specifically Sec G2407-Combustion and Ventilation Requirements, Sec. G2408 Installation Requirements, Cec G2409, Clearance Requirements

74. Roof Valleys (Open) Either 24" wide metal per Table 905.2.8.2 or two plies of mieral surfaced roo roofing, ASTM D3909 or D6380 Class M-bottom layer 18 w., top layer 36" w. (Closed)-one ply smooth roll roofing ASTM D6380, 3 in. w.or self-adhesive polymer underlayment, ASTM D1970

75. A waterproof GFCI receptacle is required within 25 ft. of the outside A/C condenser

SOUTHERN PINE REFERENCE DESIGN VALUES

Based on SPIB Grading Rules and AWC National Design Specification®
Values in pounds per square inch (psi)

Table 1 - Dimension Lumber – 2" to 4" thick, 2" and wider — Effective June 1, 2013

Based on Normal Load Duration and Dry Service (MC≤19%)

Size	Grade	Bending F_b	Tension Parallel to Grain F_t	Shear Parallel to Grain F_v	Compression Perpendicular to Grain $F_{c\perp}$	Compression Parallel to Grain F_c	Modulus of Elasticity E	E_{min}
2" to 4" thick, 2" to 4" wide. Includes: 2x2, 2x3, 2x4, 3x3, 3x4, 4x4	Dense Select Structural	2700	1900	175	660	2050	1,900,000	690,000
	Select Structural	2350	1650	175	565	1900	1,800,000	660,000
	Non-Dense Select Structural	2050	1450	175	480	1800	1,600,000	580,000
	No.1 Dense	1650	1100	175	660	1750	1,800,000	660,000
	No.1	1500	1000	175	565	1650	1,600,000	580,000
	No.1 Non-Dense	1300	875	175	480	1550	1,400,000	510,000
	No.2 Dense	1200	750	175	660	1500	1,600,000	580,000
	No.2	1100	675	175	565	1450	1,400,000	510,000
	No.2 Non-Dense	1050	600	175	480	1450	1,300,000	470,000
	No.3 and Stud	650	400	175	565	850	1,300,000	470,000
	Construction	875	500	175	565	1600	1,400,000	510,000
	Standard	475	275	175	565	1300	1,200,000	440,000
	Utility[1]	225	125	175	565	850	1,200,000	440,000
2" to 4" thick, 5" to 6" wide. Includes: 2x5 2x6, 3x5 3x6, 4x5 4x6	Dense Select Structural	2400	1650	175	660	1900	1,900,000	690,000
	Select Structural	2100	1450	175	565	1800	1,800,000	660,000
	Non-Dense Select Structural	1850	1300	175	480	1700	1,600,000	580,000
	No.1 Dense	1500	1000	175	660	1650	1,800,000	660,000
	No.1	1350	875	175	565	1550	1,600,000	580,000
	No.1 Non-Dense	1200	775	175	480	1450	1,400,000	510,000
	No.2 Dense	1050	650	175	660	1450	1,600,000	580,000
	No.2	1000	600	175	565	1400	1,400,000	510,000
	No.2 Non-Dense	950	525	175	480	1350	1,300,000	470,000
	No.3 and Stud	575	350	175	565	800	1,300,000	470,000
2" to 4" thick, 8" wide. Includes: 2x8, 3x8, 4x8[2]	Dense Select Structural	2200	1550	175	660	1850	1,900,000	690,000
	Select Structural	1950	1350	175	565	1700	1,800,000	660,000
	Non-Dense Select Structural	1700	1200	175	480	1650	1,600,000	580,000
	No.1 Dense	1350	900	175	660	1600	1,800,000	660,000
	No.1	1250	800	175	565	1500	1,600,000	580,000
	No.1 Non-Dense	1100	700	175	480	1400	1,400,000	510,000
	No.2 Dense	975	600	175	660	1400	1,600,000	580,000
	No.2	925	550	175	565	1350	1,400,000	510,000
	No.2 Non-Dense	875	500	175	480	1300	1,300,000	470,000
	No.3 and Stud	525	325	175	565	775	1,300,000	470,000
2" to 4" thick, 10" wide. Includes: 2x10, 3x10, 4x10[2]	Dense Select Structural	1950	1300	175	660	1800	1,900,000	690,000
	Select Structural	1700	1150	175	565	1650	1,800,000	660,000
	Non-Dense Select Structural	1500	1050	175	480	1600	1,600,000	580,000
	No.1 Dense	1200	800	175	660	1550	1,800,000	660,000
	No.1	1050	700	175	565	1450	1,600,000	580,000
	No.1 Non-Dense	950	625	175	480	1400	1,400,000	510,000
	No.2 Dense	850	525	175	660	1350	1,600,000	580,000
	No.2	800	475	175	565	1300	1,400,000	510,000
	No.2 Non-Dense	750	425	175	480	1250	1,300,000	470,000
	No.3 and Stud	475	275	175	565	750	1,300,000	470,000
2" to 4" thick, 12" wide[3]. Includes: 2x12, 3x12, 4x12[2]	Dense Select Structural	1800	1250	175	660	1750	1,900,000	690,000
	Select Structural	1600	1100	175	565	1650	1,800,000	660,000
	Non-Dense Select Structural	1400	975	175	480	1550	1,600,000	580,000
	No.1 Dense	1100	750	175	660	1500	1,800,000	660,000
	No.1	1000	650	175	565	1400	1,600,000	580,000
	No.1 Non-Dense	900	575	175	480	1350	1,400,000	510,000
	No.2 Dense	800	500	175	660	1300	1,600,000	580,000
	No.2	750	450	175	565	1250	1,400,000	510,000
	No.2 Non-Dense	700	400	175	480	1250	1,300,000	470,000
	No.3 and Stud	450	250	175	565	725	1,300,000	470,000

(1) For Utility, design values apply to 4"-wide lumber only. (2) For lumber 4" thick and 8" or wider, multiply the F_b value by C_F=1.1. (3) For lumber wider than 12", multiply these 12"-width design values for F_b, F_t and F_c by C_F=.90, and use these 12"-width design values for the other properties.

The Southern Forest Products Association (SFPA) does not test lumber or establish design values. Neither SFPA nor its members, warrant that the design values are correct, and disclaim responsibility for injury or damage resulting from the use of such design values.

SELECT SIZE AT INDICATED GRADE (→)

76. Wind speed criteria for this design is based on 90 mph (3 sec. gust) criteria per Sec. R301.2(4) of the 2009 IRC. Wall and roof connections in this design are adequate to resist these wind loads.

77. The structure specified on these plans will be termite damage protected by the contractor according to R317 and R318 of the 2009 IRC.

78. An approved ice and water shield shall be provided on all roof edges in compliance with Sec. R905.2.7.1 of the 2009 IRC.

The Professional Architects seal affixed to this sheet indicates that the named Architect has prepared or directed the preparation of the material shown only on this sheet. Other drawings and documents not exhibiting this seal shall not be considered prepared by or the responsibility of the undersigned.

STATE OF MISSOURI
FRANKLIN D. WISEMAN, JR.
NUMBER A-2003027170
ARCHITECT

DATE: 10-26-16

Frank Wisemen
Missouri License #: A-2003027170

ARCHITECTURE

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E-mail: fdwjr@charter.net

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E-mail: pamalsing@gmail.com

WHALEN Custom Homes
338 S. Kirkwood Road
Kirkwood, MO 63122
Sales: 314-575-7645
Office: 314-821-1745

PROJECT TITLE

Proposed Residence For:
THE ROGERS FAMILY
LOT 7 STONE MILL
WILDWOOD, MO.

DRAWING ISSUE / REVISION

REV #	DESCRIPTION	DATE
	ROGERS RESID.	10/15/16

DRAWING TITLE
GENERAL NOTES

SHEET NUMBER
D4 OF 9

JOB #

SHEET SIZE 36" X 24" LANDSCAPE

EXTERIOR

SHINGLES
- Tamko 30 Yr Architectural Heritage- Weathered Wood

SIDING/SOFFIT/FASCIA
- JamesHardie HardiePlank Lap Siding- Khaki Brown
- Mastic Aluminum Soffit/Fascia- Terra Bronze

BRICK
- Soulard Tudor Oversized

STONE
- Harvest Mix Tumbled

WINDOWS
- Capitol Low E Vinyl Windows

FRONT DOOR
- Therma Tru Classic-Craft Rustic Style- Walnut

GARAGE DOOR
- Delden Classica Series- N10, 8x8, 16x8 Terra Bronze and Clay

HERITAGE®
LAMINATED ASPHALT SHINGLES

PRODUCT DATA

MANUFACTURED IN JOPLIN, MO

HERITAGE® shingles have a double-layer fiberglass mat construction with a random-cut sawtooth design. The two layers of mat are coated with asphalt, surfaced with mineral granules and then laminated together. They also include a self-sealing strip of asphalt.

USES: For application to roof decks with inclines of not less than 2 inches per foot. For slopes between 2 inches and 4 inches per foot, refer to application instructions for low slope.

- Rustic beauty of wood shakes.
- Shadowtone feature adds dimension, depth of appearance and curb appeal.
- 30-year Limited Warranty, 15-year Full Start, 5-year Transferability.

SHINGLES BEGIN TO AGE AS SOON AS THEY ARE EXPOSED TO NATURE. BUILDINGS EXPERIENCE AGING FACTORS DIFFERENTLY, SO IT IS DIFFICULT TO PREDICT HOW LONG SHINGLES WILL LAST. THAT'S WHY TAMKO PROVIDES A LIMITED WARRANTY, THAT INCLUDES A BINDING ARBITRATION CLAUSE AND OTHER TERMS AND CONDITIONS WHICH ARE INCORPORATED HEREIN BY REFERENCE. YOU MAY OBTAIN A COPY OF THE LIMITED WARRANTY AT TAMKO.COM OR BY CALLING 1-800-641-4691.

CERTIFICATIONS

UL Listed for Class A Fire Rating:	UL 790/ASTM E 108, Class A
UL Classified for Wind Resistance:	ASTM D 7158, Class H and ASTM D 3161, Class F
UL Classified in accordance with:	ASTM D 3462 and ICC-ES Acceptance Criteria AC438
UL Evaluation Reports:	UL ER2919-01 and UL ER2919-02
Florida Building Code Approved:	FL 18355

COLORS

AMERICA'S NATURAL COLORS

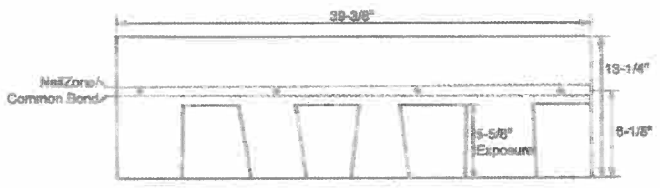
- Black Walnut
- Harvest Gold
- Mountain Slate
- Natural Timber
- Painted Desert
- Thunderstorm Grey

CLASSIC HERITAGE COLORS

- Antique Slate
- Olde English Pewter
- Oxford Grey
- Rustic Black
- Rustic Cedar
- Rustic Evergreen
- Rustic Hickory
- Rustic Slate
- Weathered Wood

PRODUCT DATA†

Shingle size	13-1/4" × 39-3/8"
Exposure	5-5/8"
Coverage per Square††	98.4 sq.ft.
Shingles per Square††	64
Bundles per Square††	3



† All values stated as nominal.

†† When applied according to instructions.

CAUTION: This product contains crystalline silica and formaldehyde. Crystalline silica and formaldehyde have been classified as "known" human carcinogens by the International Agency for Research on Cancer (IARC) and the National Toxicology Program. This product also contains oxidized asphalt. Occupational exposures to oxidized asphalt and its emissions during roofing have been classified by IARC as a "probable human carcinogen". Oxidized asphalt also contains Polycyclic Aromatic Hydrocarbons some of which have been classified by IARC as known or probable human carcinogens. The physical nature of this product may help limit any inhalation or dermal hazard during application and/or removal. However, physical forces such as sawing, grinding or drilling during demolition work and heating or burning may increase the inhalation or dermal exposure hazard of this product. Take precautions to prevent breathing and contact with skin.

Information included in this product data sheet was current at time of printing. To obtain a copy of the most current version of this product data sheet, visit us online at tamko.com or call us at 800-641-4691.

TAMKO Logo, Heritage, and TAMKO are registered trademarks of TAMKO Building Products, Inc.

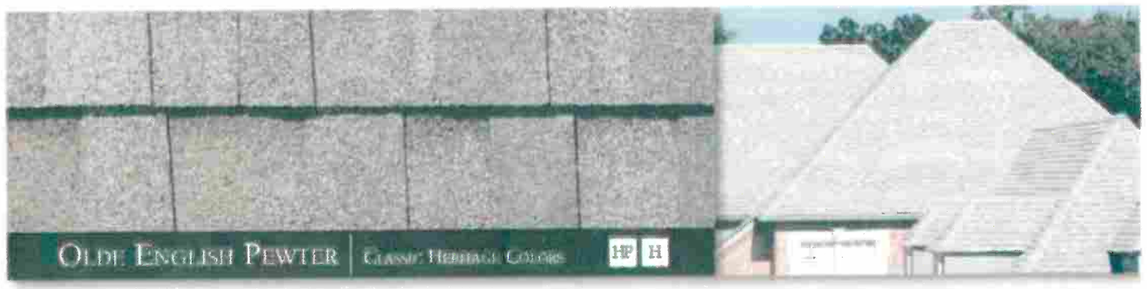
TAMKO BUILDING PRODUCTS

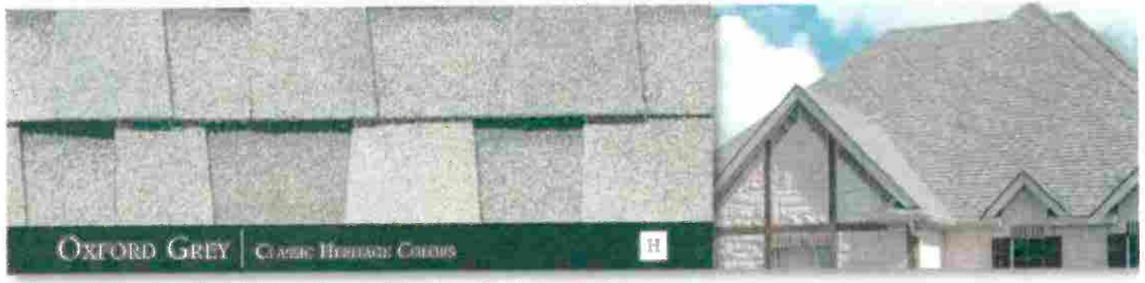
P.O. Box 1404 • Joplin, MO 64802-1404 • 1-800-641-4691 • tamko.com

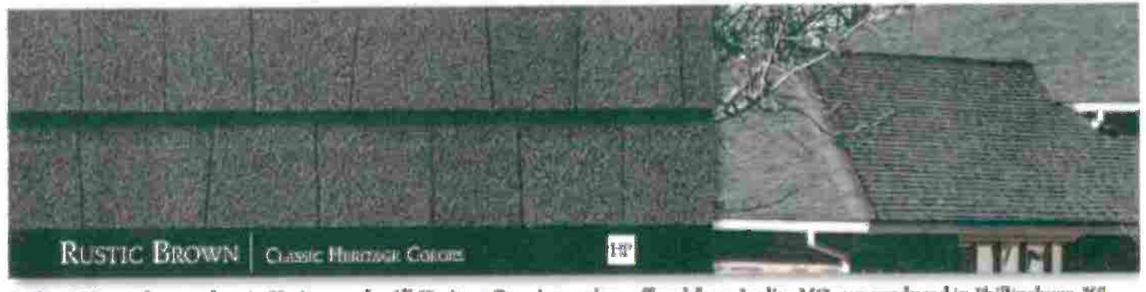
Rev. 07/2016

HP HERITAGE® Premium Shingles H HERITAGE® Shingles Symbols shown beside each color name denote product options and availability.

NOTE: TAMKO® RECOMMENDS VIEWING AN ACTUAL ROOF INSTALLATION PRIOR TO FINAL COLOR SELECTION FOR THE FULL IMPACT OF COLOR BLENDING AND PATTERNS. REPRODUCTION OF THESE COLORS IS AS ACCURATE AS OUR PRINTING WILL PERMIT.







Joplin, MO, produces colors in Heritage only. All Heritage Premium colors offered from Joplin, MO, are produced in Phillipsburg, KS. Rustic Redwood and Rustic Brown swatch photos are Phillipsburg Heritage Premium colors. All other swatch photos shown in this

Technical Attributes
HardiePlank™ Lap Siding

Effective 12/2007

James Hardie Building Products, Inc.

HardiePlank™ Lap Siding has been comprehensively tested and displays the following typical physical properties.

	General Property	Test Method	Unit or Characteristic	Requirement	Result
PHYSICAL ATTRIBUTES	Dimensional Tolerances	ASTM C1185	Length	± 0.5%	Pass
		ASTM C1185	Width	± 0.5%	Pass
		ASTM C1185	Thickness	± 0.04 in.	Pass
		ASTM C1185	Squareness	< 1/32 in./ft of length	Pass
		ASTM C1185	Edge Straightness	< 1/32 in./ft of length	Pass
	Density, lb/ft^3	ASTM C1185		As reported	< 83
	Water Absorption, % by mass	ASTM C1185		As reported	< 36
	Water Tightness	ASTM C1185	Physical Observations	No drop formation	Pass
	Moisture Content, %	ASTM C1185		As reported	~ 5
	Moisture Movement, % Linear Change	ASTM C1185	30 – 90% Relative Humidity	As reported	≤ 0.05
	Flexural Strength	ASTM C1185	Wet conditioned, psi	> 1015 psi	Pass
		ASTM C1185	Equilibrium conditioned, psi	> 1450 psi	Pass
THERMAL	Thermal Conductivity	ASTM C177	K_{eff} = BTU/hr-ft^2-° F	As reported	2.07
	Actual Thermal Conductivity	ASTM C177	(K_{eff})	As reported	6.62
	Thermal Resistance	ASTM C177	R=1/K_{eff}	As reported	0.48
	Actual Thermal Resistance	ASTM C177	(R)	As reported	0.15
DURABILITY	Warm Water Resistance	ASTM C1185	Physical Observations	No visible cracks or structural alteration	Pass
		ASTM C1185	Warm Water, % wet retention	≥ 85%	Pass
	Heat/Rain Resistance	ASTM C1185	Physical Observations	No visible cracks or structural alteration	Pass
	Freeze/Thaw Resistance	ASTM C1185	Physical Observations	No visible cracks or structural alteration	Pass
		ASTM C1185	Mass Loss, %	≤ 3.0	Pass
		ASTM C1185	Freeze/Thaw, % wet retention	≥ 80%	Pass
	UV Accelerated Weathering Test	ASTM G23	Physical Observations	No cracking, checking, or crazing	Pass
FIRE CHARACTERISTICS	Surface Burning Characteristics	ASTM E84	Flames Spread Index (FSI)	0	Pass
		ASTM E84	Smoke Developed Index (SDI)	≤ 5	Pass
		ASTM E84	Fuel Contributed	0	Pass
			NFPA Class	As reported	A
			Uniform Building Code™ Class	As reported	1
			International Building Code® Class	As reported	A
	Noncombustibility	ASTM E136	Noncombustible	Pass/fail	Pass
	Fire Resistance Rated Construction	ASTM E119	Fire Resistance Rating	1-hour	Note 1

Note 1: Listed on Warnock Hersey and ICC-ES NER-405

NOTE: In addition to the above product properties, building assemblies incorporating this product have been tested for fire, acoustic and impact performance.

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Additional installation information, warranties, and warnings are available at www.jameshardie.com

JamesHardie

THIS TECHNICAL SUPPLEMENT MUST BE READ IN CONJUCTION WITH THE CURRENT TECHNICAL PRODUCT LITERATURE. JAMES HARDIE BUILDING PRODUCTS MUST BE INSTALLED IN ACCORDANCE WITH THE APPLICABLE TECHNICAL PRODUCT LITERATURE. ALL COMPONENTS AND ACCESSORIES MUST BE INSTALLED IN ACCORDANCE WITH THE RESPECTIVE MANUFACTURER'S SPECIFICATIONS. FOR THE PRODUCT WARRANTY, TERMS AND CONDITIONS REFER TO THE APPLICABLE JAMES HARDIE TECHNICAL PRODUCT LITERATURE

WHALEN
Custom Homes

Jennifer Bartley <jennifer@whalencustomhomes.com>

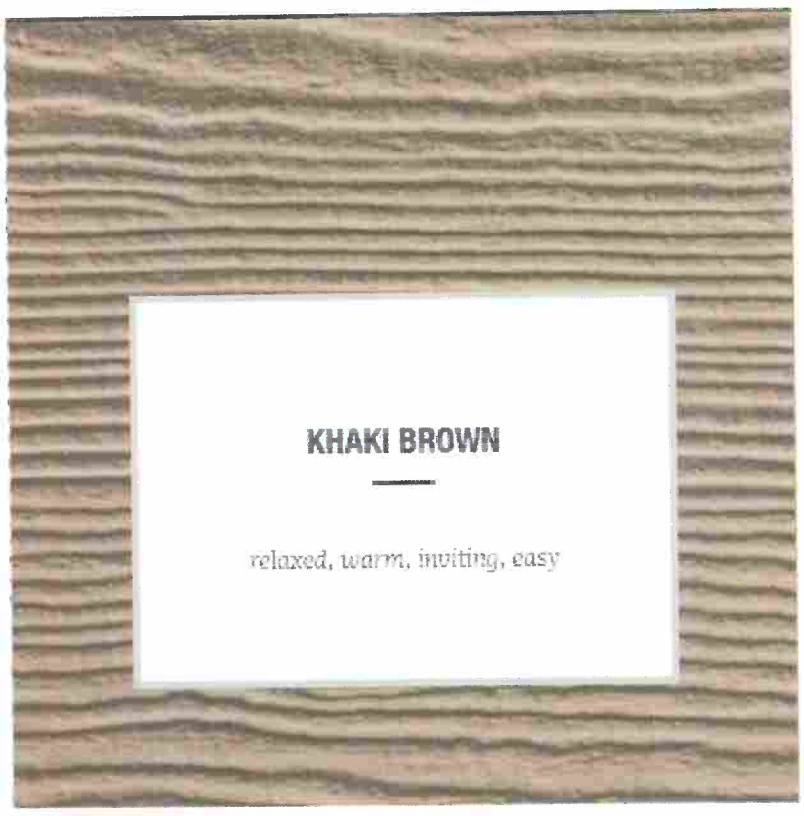
Khaki Brown Example

Customer Service South <SouthCS@jameshardie.com>
To: "jennifer@whalencustomhomes.com" <jennifer@whalencustomhomes.com>

Thu, Oct 27, 2016 at 1:54 PM

Hi Jennifer,

Please see the below per your request.



Thank you,

Katie Wiese

James Hardie Building Products

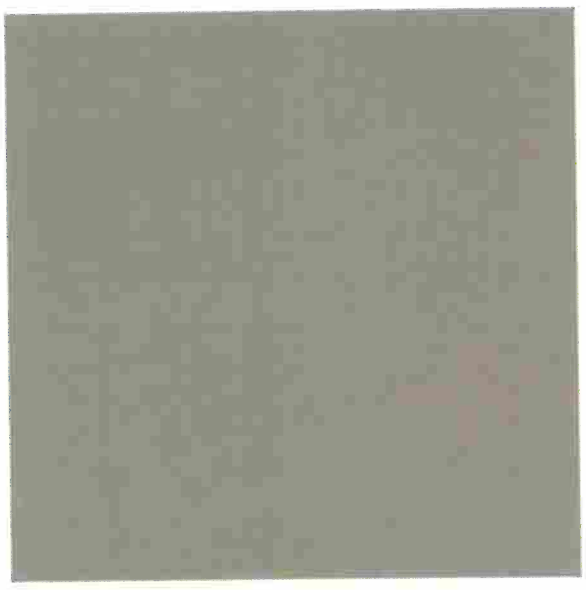
Customer Operations Exteriors

Phone: 888-888-3408

Fax: 800-968-7040

E-mail: SouthCS@jameshardie.com

customerfeedback@jameshardie.com



MASTIC TERRA BRONZE FASCIA AND SOFFIT

Envoy Quad 4" U-Groove Soffit - Center Lanced

1N82 Soulard Tudor

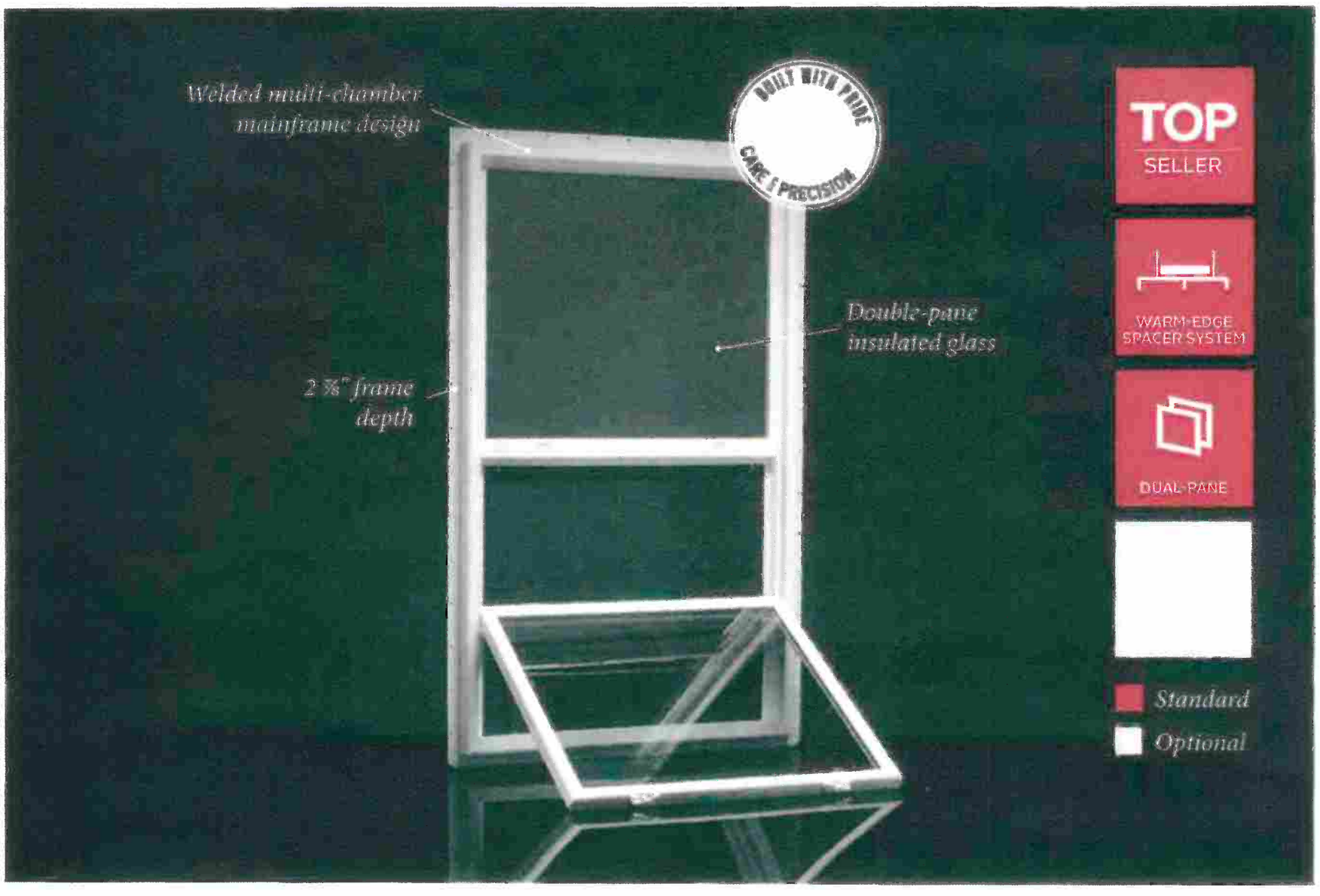
Mi

3500 Vinyl Single-Hung Window

The 3500 vinyl single-hung window offers **handcrafted quality, exceptional durability, and optimal energy efficiency.** With standard features that include a pre-punched mounting fin and removable sash for easy drywall pass through, our 3500 window is ideal for any new home construction project. A full-length lift rail and metal reinforcements at the meeting rail provide aesthetic and performance benefits that complement the window's builder-friendly attributes.

PERFORMANCE FEATURES

- Warm-edge spacer system maximizes energy efficiency and improves seal performance of insulated glass units
- Welded, multi-chambered frame and sash for superior strength and energy-efficiency
- Integral J-Channel and mounting fin with pre-punched holes for easy and efficient installations
- Top glass is drop-in tape glazed for easy material pass through
- Heavy-duty weatherstripping for protection against wind, rain, dust, and noise



Designed smarter, from the inside out

ENGINEERED TO PERFORM

- Multi-chamber mainframe design
- 2 ⅞" frame depth
- ¾" insulating glass
- 4 9/16" or 6 9/16" wood extension jambs available
- Continuous head and sill mulling for twins and triples
- Brickmould available

SAFETY & SECURITY FEATURES

- Dual-opposing locks create a stronger, safer seal
- Optional tempered glass is four times stronger than non-tempered glass and safer if broken
- Optional obscure glass allows light in while protecting privacy

CONVENIENCE & STYLE

The 3500 features the following design details on every window:

- Silicone-glazed sash
- Recessed tilt latch
- Full-length lift rail

SIZING

MINIMUM & MAXIMUM *(available in ⅛" increments)*

- 13"–48" wide × 24"–96" high

CREATE A CUSTOMIZED LOOK

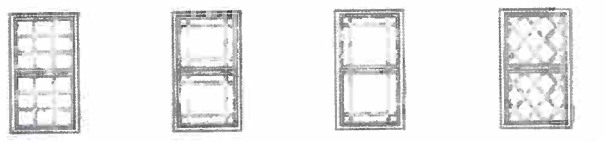
HARDWARE FINISH OPTIONS

- Color-matched

GRID TYPES & SIZES

- ⅝" flat grids-between-the-glass
- ⅞" flat grids-between-the-glass
- 1 1/16" sculptured grids-between-the-glass
- 1 5/16" sculptured grids-between-the-glass

GRID PATTERNS



Colonial | 9-Lite Perimeter | 6-Lite Perimeter | Diamond

VINYL/EXTRUDED COLORS

White | Almond

EXTERIOR LAMINATE

Bronze *

EXTERIOR PAINT

Cream | Almond | Clay | Silver †

Cocoa | Forest Green | Bronze | Black †

ENERGY-EFFICIENT GLASS PACKAGES

Our **dual-pane** insulated glass package options help save on heating and cooling costs while enhancing home comfort

- **In cool weather**, insulated glass provides outstanding thermal performance to keep interior glass surfaces closer to room temperature, eliminating cold spots near windows
- **In warm weather**, it helps reduce solar heat gain and minimize glare to improve interior comfort
- Able to meet **ENERGY STAR®** requirements in all four climate zones

GLAZING TYPE	U-VALUE	SHGC		STC
Low-E glass	0.33	0.32	0.26*	28
Low-E glass with grids	0.33	0.29	0.23*	28
Argon and Low-E glass	0.33	0.29	0.25*	28
Argon and Low-E glass with grids	0.30	0.28	0.23*	28
HP Low-E glass	0.33	0.23		28
HP Low-E glass with grids	0.33	0.21		28
Argon and HP Low-E glass	0.29	0.22		28
Argon and HP Low-E glass with grids	0.29	0.20		28

Note: all values based on standard ¾" dual-pane IGU

* Product sold and installed in GA, NC, and SC requires a different standard Low-E coating to meet state energy requirements. The same HP Low-E coating is used on all MI products sold in the Eastern region.

ENERGY STAR PARTNER | MEMBER

* Bronze laminate available with white interior; available with ⅝" grids only; not available with J-Channel

† Silver and black not available with woodgrain interiors

Experience Clarity™

OUR MISSION

Getting It Right Every Time

We build each of our products the same way we built our company: with integrity and precision. Every MI window and door is handcrafted in the United States using state-of-the-art manufacturing techniques, and is backed by vigorous in-house testing procedures. We are 100% committed to offering the styles, value, and performance you're after.

Discover everything we have to offer at miwindows.com, or by calling 1-717-365-3300.

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EXTERIOR

SHINGLES
- Tamko 30 Yr Architectural Heritage- Weathered Wood

SIDING/SOFFIT/FASCIA
- JamesHardie HardiePlank Lap Siding- Khaki Brown
- Mastic Aluminum Soffit/Fascia- Terra Bronze

BRICK
- Soulard Tudor Oversized

STONE
- Harvest Mix Tumbled

WINDOWS
- Capitol Low E Vinyl Windows

FRONT DOOR
- Therma Tru Classic-Craft Rustic Style- Walnut

GARAGE DOOR
- Delden Classica Series- N10, 8x8, 16x8 Terra Bronze and Clay

HERITAGE®
LAMINATED ASPHALT SHINGLES

PRODUCT DATA

MANUFACTURED IN JOPLIN, MO

HERITAGE® shingles have a double-layer fiberglass mat construction with a random-cut sawtooth design. The two layers of mat are coated with asphalt, surfaced with mineral granules and then laminated together. They also include a self-sealing strip of asphalt.

USES: For application to roof decks with inclines of not less than 2 inches per foot. For slopes between 2 inches and 4 inches per foot, refer to application instructions for low slope.

- Rustic beauty of wood shakes.
- Shadowtone feature adds dimension, depth of appearance and curb appeal.
- 30-year Limited Warranty, 15-year Full Start, 5-year Transferability.

SHINGLES BEGIN TO AGE AS SOON AS THEY ARE EXPOSED TO NATURE. BUILDINGS EXPERIENCE AGING FACTORS DIFFERENTLY, SO IT IS DIFFICULT TO PREDICT HOW LONG SHINGLES WILL LAST. THAT'S WHY TAMKO PROVIDES A LIMITED WARRANTY, THAT INCLUDES A BINDING ARBITRATION CLAUSE AND OTHER TERMS AND CONDITIONS WHICH ARE INCORPORATED HEREIN BY REFERENCE. YOU MAY OBTAIN A COPY OF THE LIMITED WARRANTY AT TAMKO.COM OR BY CALLING 1-800-641-4691.

CERTIFICATIONS

UL Listed for Class A Fire Rating:	UL 790/ASTM E 108, Class A
UL Classified for Wind Resistance:	ASTM D 7158, Class H and ASTM D 3161, Class F
UL Classified in accordance with:	ASTM D 3462 and ICC-ES Acceptance Criteria AC438
UL Evaluation Reports:	UL ER2919-01 and UL ER2919-02
Florida Building Code Approved:	FL 18355

COLORS

AMERICA'S NATURAL COLORS

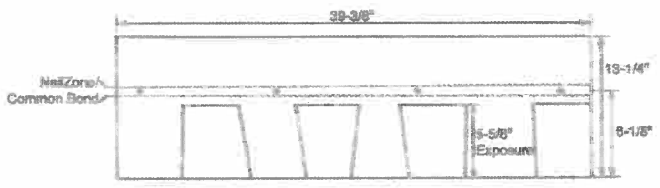
- Black Walnut
- Harvest Gold
- Mountain Slate
- Natural Timber
- Painted Desert
- Thunderstorm Grey

CLASSIC HERITAGE COLORS

- Antique Slate
- Olde English Pewter
- Oxford Grey
- Rustic Black
- Rustic Cedar
- Rustic Evergreen
- Rustic Hickory
- Rustic Slate
- Weathered Wood

PRODUCT DATA†

Shingle size	13-1/4" × 39-3/8"
Exposure	5-5/8"
Coverage per Square††	98.4 sq.ft.
Shingles per Square††	64
Bundles per Square††	3



† All values stated as nominal.

†† When applied according to instructions.

CAUTION: This product contains crystalline silica and formaldehyde. Crystalline silica and formaldehyde have been classified as "known" human carcinogens by the International Agency for Research on Cancer (IARC) and the National Toxicology Program. This product also contains oxidized asphalt. Occupational exposures to oxidized asphalt and its emissions during roofing have been classified by IARC as a "probable human carcinogen". Oxidized asphalt also contains Polycyclic Aromatic Hydrocarbons some of which have been classified by IARC as known or probable human carcinogens. The physical nature of this product may help limit any inhalation or dermal hazard during application and/or removal. However, physical forces such as sawing, grinding or drilling during demolition work and heating or burning may increase the inhalation or dermal exposure hazard of this product. Take precautions to prevent breathing and contact with skin.

Information included in this product data sheet was current at time of printing. To obtain a copy of the most current version of this product data sheet, visit us online at tamko.com or call us at 800-641-4691.

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TAMKO BUILDING PRODUCTS

P.O. Box 1404 • Joplin, MO 64802-1404 • 1-800-641-4691 • tamko.com

Rev. 07/2016

Technical Attributes
HardiePlank™ Lap Siding

Effective 12/2007

James Hardie Building Products, Inc.

HardiePlank™ Lap Siding has been comprehensively tested and displays the following typical physical properties.

	General Property	Test Method	Unit or Characteristic	Requirement	Result
PHYSICAL ATTRIBUTES	Dimensional Tolerances	ASTM C1185	Length	± 0.5%	Pass
		ASTM C1185	Width	± 0.5%	Pass
		ASTM C1185	Thickness	± 0.04 in.	Pass
		ASTM C1185	Squareness	< 1/32 in./ft of length	Pass
		ASTM C1185	Edge Straightness	< 1/32 in./ft of length	Pass
	Density, lb/ft^3	ASTM C1185		As reported	< 83
	Water Absorption, % by mass	ASTM C1185		As reported	< 36
	Water Tightness	ASTM C1185	Physical Observations	No drop formation	Pass
	Moisture Content, %	ASTM C1185		As reported	~ 5
	Moisture Movement, % Linear Change	ASTM C1185	30 – 90% Relative Humidity	As reported	≤ 0.05
	Flexural Strength	ASTM C1185	Wet conditioned, psi	> 1015 psi	Pass
		ASTM C1185	Equilibrium conditioned, psi	> 1450 psi	Pass
THERMAL	Thermal Conductivity	ASTM C177	K_{eff} = BTU/hr-ft^2-° F	As reported	2.07
	Actual Thermal Conductivity	ASTM C177	(K_{eff})	As reported	6.62
	Thermal Resistance	ASTM C177	R=1/K_{eff}	As reported	0.48
	Actual Thermal Resistance	ASTM C177	(R)	As reported	0.15
DURABILITY	Warm Water Resistance	ASTM C1185	Physical Observations	No visible cracks or structural alteration	Pass
		ASTM C1185	Warm Water, % wet retention	≥ 85%	Pass
	Heat/Rain Resistance	ASTM C1185	Physical Observations	No visible cracks or structural alteration	Pass
	Freeze/Thaw Resistance	ASTM C1185	Physical Observations	No visible cracks or structural alteration	Pass
		ASTM C1185	Mass Loss, %	≤ 3.0	Pass
		ASTM C1185	Freeze/Thaw, % wet retention	≥ 80%	Pass
	UV Accelerated Weathering Test	ASTM G23	Physical Observations	No cracking, checking, or crazing	Pass
FIRE CHARACTERISTICS	Surface Burning Characteristics	ASTM E84	Flames Spread Index (FSI)	0	Pass
		ASTM E84	Smoke Developed Index (SDI)	≤ 5	Pass
		ASTM E84	Fuel Contributed	0	Pass
			NFPA Class	As reported	A
			Uniform Building Code™ Class	As reported	1
			International Building Code® Class	As reported	A
	Noncombustibility	ASTM E136	Noncombustible	Pass/fail	Pass
	Fire Resistance Rated Construction	ASTM E119	Fire Resistance Rating	1-hour	Note 1

Note 1: Listed on Warnock Hersey and ICC-ES NER-405

NOTE: In addition to the above product properties, building assemblies incorporating this product have been tested for fire, acoustic and impact performance.

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Additional installation information, warranties, and warnings are available at www.jameshardie.com

JamesHardie

THIS TECHNICAL SUPPLEMENT MUST BE READ IN CONJUCTION WITH THE CURRENT TECHNICAL PRODUCT LITERATURE. JAMES HARDIE BUILDING PRODUCTS MUST BE INSTALLED IN ACCORDANCE WITH THE APPLICABLE TECHNICAL PRODUCT LITERATURE. ALL COMPONENTS AND ACCESSORIES MUST BE INSTALLED IN ACCORDANCE WITH THE RESPECTIVE MANUFACTURER'S SPECIFICATIONS. FOR THE PRODUCT WARRANTY, TERMS AND CONDITIONS REFER TO THE APPLICABLE JAMES HARDIE TECHNICAL PRODUCT LITERATURE

WHALEN
Custom Homes

Jennifer Bartley <jennifer@whalencustomhomes.com>

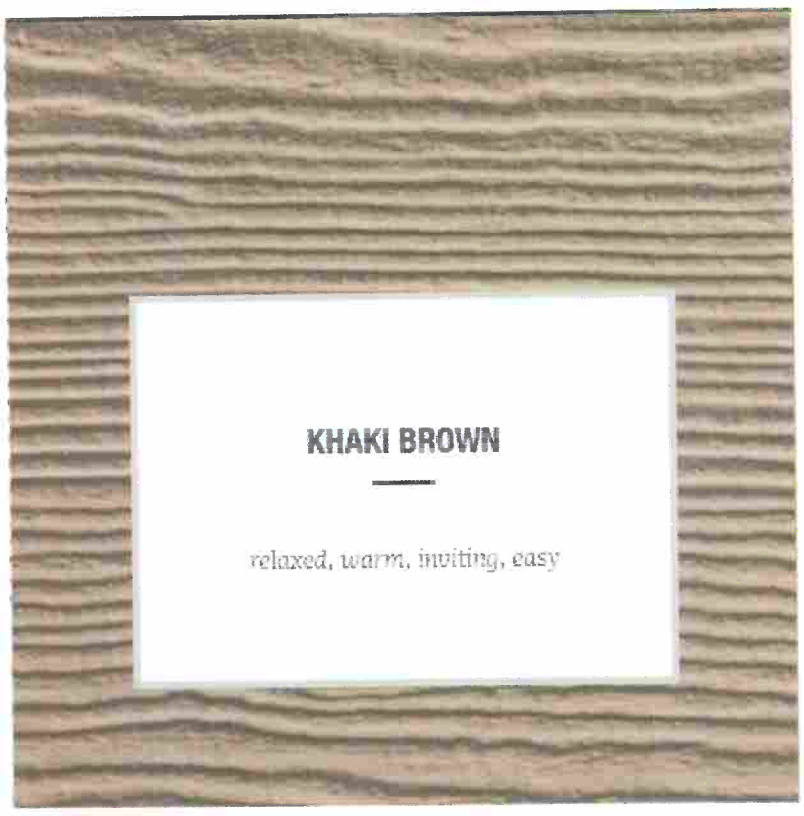
Khaki Brown Example

Customer Service South <SouthCS@jameshardie.com>
To: "jennifer@whalencustomhomes.com" <jennifer@whalencustomhomes.com>

Thu, Oct 27, 2016 at 1:54 PM

Hi Jennifer,

Please see the below per your request.



Thank you,

Katie Wiese

James Hardie Building Products

Customer Operations Exteriors

Phone: 888-888-3408

Fax: 800-968-7040

E-mail: SouthCS@jameshardie.com

customerfeedback@jameshardie.com

Fiberglass Entry Door Systems

Classic-Craft Rustic

Evoke Old World charm with regionally inspired styling. The Rustic Collection recreates natural beauty to suit home styles from the lively Southwest to the ornate European. It blends the casual elegance of authentic rustic wood grains with all the benefits of fiberglass, thanks to AccuGrain technology. And, with Classic-Craft, you get more. Every detail — from wider glass to heavier construction — creates a more premium entryway.

Design Your Door

Browse all doors in this collection.

Where to Buy

- 2016 Full-Line Catalog
- Classic-Craft Brochure

More Information

AccuGrain Technology

System Components

TruDefense® System

Quality Testing

Home Styles Guide

Design Your Door

Choose your door and then personalize it with our wide variety of options.

Print Email Post It Share

Save My Door

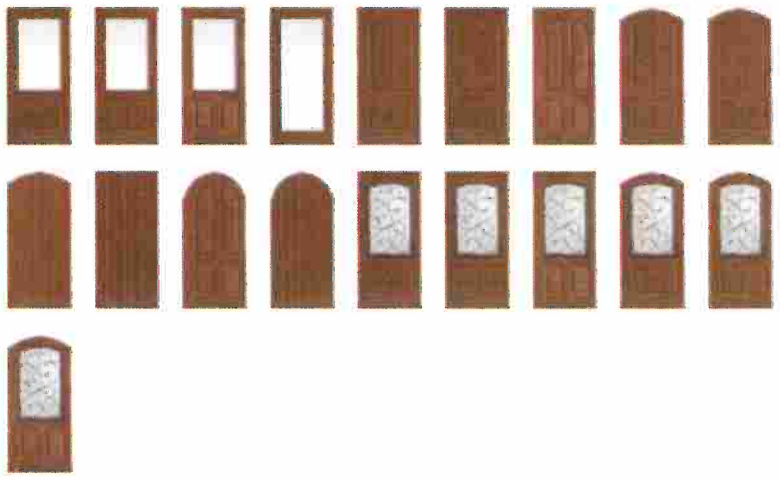
Pick Door Height: 6'8" Doors 8'0" Doors

Pick a Configuration: 6 Available Styles

Begin

by selecting a configuration.

Pick a Door Style: 19 Available Styles

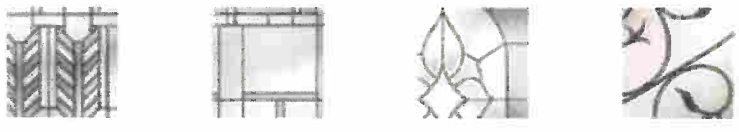


Finish Options:
Stainable Paintable

Accessories:
Decorative Hardware

Installation:
Installation Instructions

Pick a Glass Style: 19 Available Styles



Fiberglass Entry Door Systems

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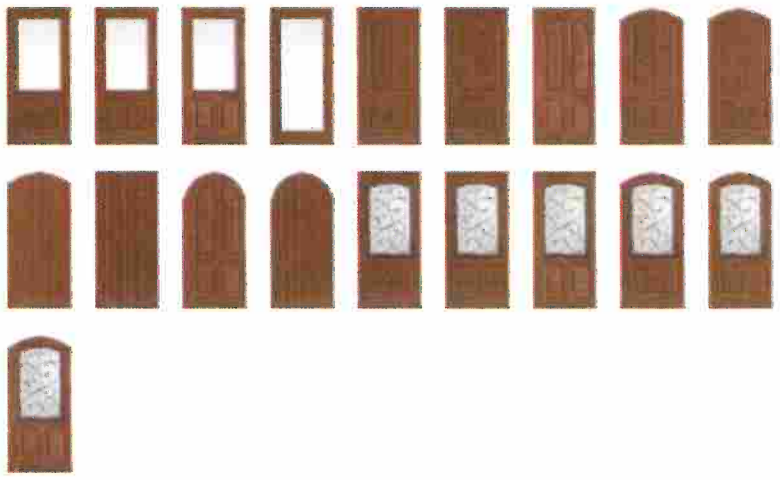

Finish Options:
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Installation Instructions

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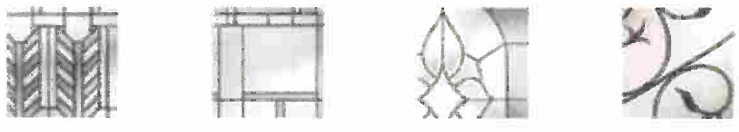
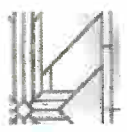


Villager | Homeward | Arcadia | Augustine


Ashurst

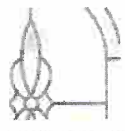
Bella

Arborwatch

Borrassa

Provincial

Longford


Cambridge

Zaha

Lucerna

Chord

Chinchilla

Rainglass

Granite

Clear

No Glass

Add Left Sidelite: 0 Available Styles

Add Right Sidelite: 0 Available Styles

Add Transom: 0 Available Styles About Transoms (?)

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AMARR® CLASSICA®

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Looks can be deceiving with Amarr® Classica® garage doors. From a distance, you see wood. Up close, the garage door is durable, low-maintenance steel. Authentic carriage house looks, modern functionality to complement your home's exterior.

R-Value	6.64 - 13.35
Maintenance	Low
Safety	High
Warranty	Lifetime
Price	$$$

LARGER SIZED WINDOWS

See the difference. Bigger windows and more vertical-looking garage doors provides a more authentic carriage house look. **VIEW MORE**

HIGH R-VALUE

Our garage doors have superior energy efficiency to maintain the temperature in your garage every season. **LEARN MORE**

SAFE PLUS PINCH PROTECTION

Garage doors designed to promote hand and finger safety. **LEARN MORE**

WIND LOAD GARAGE DOORS

Garage doors reinforced to meet or exceed the wind building codes in your area. **LEARN MORE**

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WILDWOOD

APPLICATION FOR THE CITY OF WILDWOOD'S ARCHITECTURAL REVIEW BOARD
(please read thoroughly)

The following information and items shall be provided to the Department of Planning for processing and dissemination in association with scheduling of submittals before the City of Wildwood's Architectural Review Board (ARB). The ARB meets on the second Thursday of each month, unless otherwise changed, with the submittal deadline being 2:00 p.m. on the Monday ten (10) days prior to the meeting. If the agenda cannot support the number of submitted applications, a special meeting may be requested by the applicant or the item will be carried over to the succeeding month. A complete set of plans shall be submitted, with the information bearing an original signature and seal of the Licensed Architect upon it, before the Board will conduct its review. The completeness of the submission will aid in the understanding of the project by the Board and the relevance of its comments, as well as expedite reviews in an effort to avoid delays. Failure of the architect to sign and seal all requested items that are the subject of this review process, where applicable, or not providing the requested information identified below, will disqualify the submittal and the Department of Planning will return the packet to architect of record.

SECTION I

Project Name: Lot 8 Stone Mill

Address/Location: 1724 Falstone Mill Ct.

Applicant Contact Information: Mike 314-575-7645

Zoning District/Council Ward: R1A District w/ Planned Residential Development Overlay District

SECTION II

The ARB submittal requirements shall be as follows:

- ✓ **Architects Statement:** Provide a written statement that explains the design theory utilized in the overall site and building design separately. Include items such as reasoning behind entry locations, building placement, how existing topography was utilized instead of ignored, shape, orientation and style of the building, reasoning for chosen building materials and colors, site and building lighting, etc. This statement should be written as from one architect to another and should

include design theory. In this instance, cost can be an acceptable and appropriate goal of the overall design. The statement shall close with an acknowledgment that the design is in compliance with the requirements, or it should give a description of non-compliant items, with an explanation for such.

- ☑ **Preliminary Development Plan & Colored Landscape Plan:** These plans should reflect the same elements required for submittal to the Planning & Zoning Commission, such as the infrastructure and site improvements, including building footprints, curb cuts and driveway locations, and other natural and man-made features of significance.

- ☑ **Photographs:** Photos should reflect existing site conditions and immediate surrounding properties in all compass directions. The intent of these photographs is to better understand the project site and context, and how the project under consideration will complement both existing conditions, as well as future projects.

- ☑ **Preliminary Floor Plans:** These plans refers to the building footprint. However, interior layout, while not reviewed, can help in understanding the footprint and elevations.

- ☑ **Colored Architectural Elevations:** Elevations for each façade of the building, presented in the chosen color palette, with overall dimensions and materials labeled, noting any special items as necessary for a clear understanding of the project. Light fixtures should be shown accurately.

- ☑ **Colored Building Rendering:** This item is critical to provide a clear and quick understanding of the massing of the building and its materials and colors. Ideally, if prepared electronically in three dimensions, provide 'snapshots' of several views to highlight the overall building.

- ☑ **Materials and Colors:** The submittal should include 'finishes' pages, such as manufacturer specification sheets of the materials and colors. Actual samples will be required for presentation at the meeting itself.

- ☑ **Please provide twelve (12) copies of all of the above information in an 11"x17" format, formatted to fit 11"x17", and bound into an 8.5" x 11" booklets with a cover, as well as all information contained on a disc, or digital device. Appropriate sheets shall exhibit the original signature, seal, and date of the Licensed Architect, who prepared them. Please note, larger format items are permitted and encouraged for presentation purposes at the Architectural Review Board meeting.**

The items contained in the submittal package must meet minimum requirements prescribed by the Architectural Review Board(ARB). Further information may be requested, as directed by the Department of Planning and/or the ARB. Once an application has been processed for an upcoming meeting, the agenda will be sent to the appropriate representative(s). Attendance by the petitioner with their architect(s) for presentation and discussion with the ARB is mandatory. Variances to these procedures must be agreed to by the ARB members and the Department of Planning in advance of the scheduled meeting date. If you have any further questions, please feel free to contact the Department of Planning at (636) 458-0440.

We, the undersigned, are aware of the aforementioned items and submit this application in full compliance with the requirements of the Architectural Review Board on this day 31 **of** October, 2016.

Applicant [signature]

Licensed Architect [signature]

Mike Whalen

Applicant [print]

Frank Wiseman, Jr.

Licensed Architect [print]

Contact Information for Applicant and Architect may be provided by attaching business cards here:

Mike Whalen
Whalen Custom Homes
314-575-7645
mike@whalencustomhomes.com

Frank Wiseman
618-225-7472
fdwjr@charter.net

SECTION III

For Office Use Only

Application submittal accepted on: October 31, 2016 FW

Initial By: Department of Planning Staff

Initial review is scheduled for: November 10, 2016

Subsequent review is scheduled for: _____

Comments: _____

_____

Final Approval by the ARB on: _____

_____
Architectural Review Board Chair

WHALEN
Custom Homes

ARCHITECTURAL REVIEW BOARD SUBMISSION
NOVEMBER 10, 2016

STONE MILL LOT 8

WHALEN
Custom Homes

Architectural Statement

The proposed home and development embodies the New Urbanism Movement. This community is framed by it's architecture and landscape design which utilizes it's local history, climate, ecology and building practices. The subject property is based on Neocolonial features.

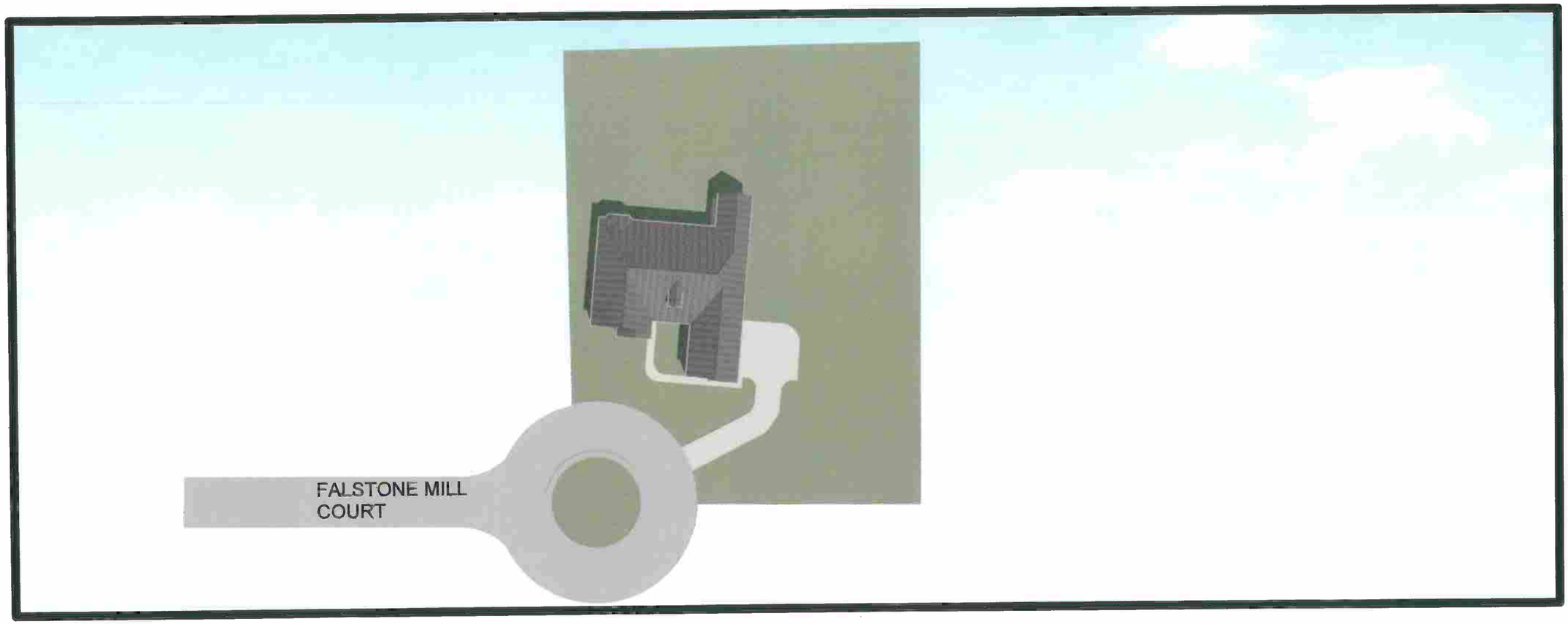
The placement of Stone Mill Display Lot 8 is such that it allows for a side car entry and maximizes the rear yard while meeting all required setbacks and easements. The classic Old Indiana Tudor brick and light colored stone facade will display a traditional timeless look as you circle the Cul de Sac.

The design is in compliance with all requirements.

We appreciate the Architectural Review Boards consideration of this application.

Sincerely,

Mike Whalen



DEVELOPMENT PLAN AND LANDSCAPE PLAN

NO.	DESCRIPTION	BY	DATE

WHALEN Custom Homes

STONE MILL LOT 8

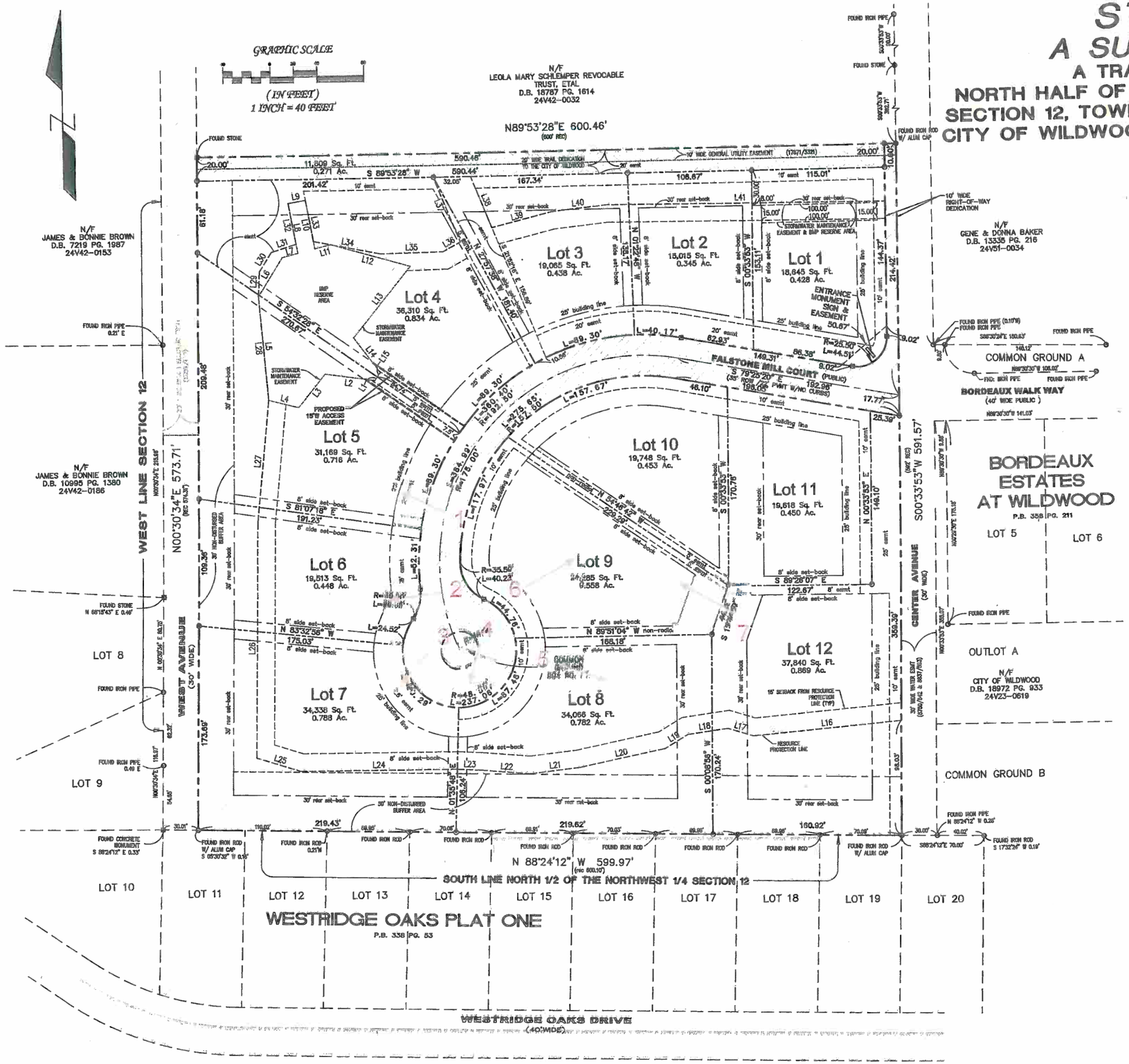
CALCATERRA RESIDENCE

DATE:

SCALE:

SHEET:

STONE MILL
A SUBDIVISION PLAT
A TRACT OF LAND IN THE NORTH HALF OF THE NORTHWEST QUARTER OF SECTION 12, TOWNSHIP 44 NORTH, RANGE 3 EAST CITY OF WILDWOOD, ST. LOUIS COUNTY, MISSOURI



LINE	BEARING	DISTANCE
L1	S 35°32'45" W	3.66'
L2	N 81°47'45" W	42.61'
L3	S 39°12'19" W	36.58'
L4	N 78°36'48" W	28.49'
L5	N 04°50'14" W	88.26'
L6	N 32°17'00" E	38.34'
L7	N 76°46'58" E	13.60'
L8	N 10°16'54" W	43.43'
L9	N 80°27'50" E	18.00'
L10	S 10°16'54" E	42.21'
L11	N 78°46'58" E	13.73'
L12	S 77°57'20" E	70.41'
L13	S 38°12'19" W	77.82'
L14	S 36°40'16" E	37.13'
L15	S 38°32'45" W	4.43'
L16	S 89°17'02" W	128.86'
L17	N 72°21'46" W	22.73'
L18	S 82°23'11" W	54.18'
L19	S 59°20'55" W	22.64'
L20	S 78°36'48" W	74.30'
L21	S 83°50'47" W	42.28'

LINE	BEARING	DISTANCE
L22	N 84°43'50" W	42.28'
L23	N 89°42'00" W	21.14'
L24	N 89°41'14" W	132.80'
L25	N 72°12'38" W	39.32'
L26	N 00°30'34" E	201.61'
L27	N 00°46'19" E	104.77'
L28	N 04°50'14" W	58.28'
L29	N 03°08'17" E	21.20'
L30	N 32°28'06" E	18.54'
L31	N 72°37'37" E	22.35'
L32	N 10°16'54" W	30.54'
L33	S 10°16'54" E	35.82'
L34	S 78°57'54" E	156.11'
L35	N 88°53'41" E	53.32'
L36	N 81°34'38" E	18.90'
L37	N 21°52'16" W	50.01'
L38	S 21°52'16" E	47.37'
L39	N 78°16'39" E	53.34'
L40	N 84°04'20" E	47.14'
L41	S 89°35'16" E	240.34'

□ : PERMANENT MONUMENT TO BE SET UPON COMPLETION OF GRADING.
● : SEMI-PERMANENT MONUMENT TO BE SET AT ALL REAR LOT CORNERS.

(NOTE: CROSSES SHALL BE CUT AT THE INTERSECTION OF THE EXTENSION OF EACH LOT LINE WITH THE CENTERLINE OF THE STREET.)

LAND DESCRIPTION:

A TRACT OF LAND IN THE NORTH HALF OF THE NORTHWEST QUARTER OF SECTION 12, TOWNSHIP 44 NORTH, RANGE 3 EAST, CITY OF WILDWOOD, ST. LOUIS COUNTY, MISSOURI, AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEGINNING AT THE SOUTHEAST CORNER OF A TRACT OF LAND DESCRIBED IN A DEED TO LEOLA MARY SCHLEMPER REVOCABLE TRUST RECORDED IN DEED BOOK 18787 PAGE 1614 OF THE ST. LOUIS COUNTY RECORDS, SAID POINT BEING ON THE WEST LINE OF CENTER (30' WIDE) AVENUE; THENCE WITH THE WEST LINE OF CENTER AVENUE, BEING 15' WEST OF AND PARALLEL TO, THE CENTERLINE THEREOF SOUTH 00 DEGREES 33 MINUTES 53 SECONDS WEST 591.57 FEET TO THE SOUTH LINE OF THE NORTH 1/2 OF THE NORTHWEST 1/4 OF SECTION 12, SAID POINT ALSO BEING THE NORTH LINE OF WESTRIDGE OAKS PLAT ONE AS PER THE PLAT THEREOF RECORDED IN PLAT BOOK 338 PAGE 53 OF THE ST. LOUIS COUNTY RECORDS; THENCE DEPARTING THE WEST LINE OF CENTER AVENUE WITH THE NORTH LINE OF WESTRIDGE OAKS PLAT ONE, NORTH 88 DEGREES 24 MINUTES 12 SECONDS WEST 599.97 FEET TO A POINT ON THE EAST LINE OF WEST AVENUE, BEING 15' EAST OF AND PARALLEL TO THE CENTERLINE THEREOF AND 30 FEET EAST OF AND PARALLEL TO, THE WEST LINE OF SECTION 12; THENCE WITH THE EAST LINE OF WEST AVENUE, BEING 15' EAST OF AND PARALLEL TO THE WEST LINE OF SECTION 12, TO THE CENTERLINE THEREOF AND 30 FEET EAST OF AND PARALLEL TO, THE WEST LINE OF THE NORTH 00 DEGREES 30 MINUTES 34 SECONDS EAST 573.71 FEET TO THE SOUTHWEST CORNER OF THE AFORESAID LEOLA MARY SCHLEMPER REVOCABLE TRUST TRACT; THENCE WITH THE SOUTH LINE OF SAID LEOLA MARY SCHLEMPER REVOCABLE TRUST TRACT, NORTH 89 DEGREES 53 MINUTES 28 SECONDS EAST 600.46 FEET TO THE POINT OF BEGINNING AND CONTAINING 348,670 (8.027 ACRES), MORE OR LESS.
SUBJECT TO ALL EASEMENTS, CONDITIONS AND RESTRICTIONS OF RECORD, IF ANY.

BASIS OF BEARING:

BEARINGS ARE IN RELATION TO WESTRIDGE OAKS PLAT ONE, AS RECORDED IN PLAT BOOK 338, PAGE 53, ST LOUIS COUNTY RECORDS.

SOURCE OF RECORD TITLE:

LAND OF THE STATE OF MISSOURI, RECORDED IN DEED BOOK 3240, PAGE 14, ST. LOUIS COUNTY MISSOURI RECORDS.

NOTES:

ALL DIMENSIONS ARE SHOWN IN FEET AND DECIMAL FRACTIONS THEREOF.

ALL EASEMENTS AND CONDITIONS WHICH AFFECT THIS SITE AS REPORTED IN ASSURED TITLE COMPANY AS AGENT FOR COMMONWEALTH LAND TITLE INSURANCE COMPANY, FILE NO. 836695 REVISION 1, DATED FEBRUARY 20, 2013:

ITEMS 1-8: STANDARD EXCEPTIONS WITH NO COMMENT BY SURVEYOR.

ITEM 10. EASEMENT GRANTED PUBLIC WATER SUPPLY DISTRICT #1 OF ST. LOUIS COUNTY, MISSOURI RECORDED IN BOOK 8750 PAGE 642 AND ASSIGNED TO ST. LOUIS COUNTY WATER COMPANY BY INSTRUMENT RECORDED IN BOOK 8837 PAGE 583. PLOTS WITHIN THE 30 FOOT WIDE STRIP TO THE EAST KNOWN AS CENTER AVENUE AND DOES NOT ADVERSELY AFFECT THE SUBJECT TRACT.

ITEM 11. TERMS AND PROVISIONS OF MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION UTILITY EASEMENT RECORDED IN BOOK 17871 PAGE 3321, 10' WIDE EASEMENT ALONG THE NORTH LINE OF THE SUBJECT TRACT: PLOTTED HEREON.

ITEMS 12-13: STANDARD EXCEPTIONS WITH NO COMMENT BY SURVEYOR.

TOTAL ACREAGE OF THIS PLAT: 8.027 ACRES.

LOCATOR NO.: 24V42-0010

BENCHMARK:

ST. LOUIS COUNTY BM 16-109: 794.70 (NGVD'29) "L" ON THE WEST SIDE OF A CONCRETE PORCH OF BUILDING AT # 16957 MANCHESTER ROAD; 21' EAST OF THE CENTERLINE OF EATHERTON ROAD AND 39' NORTH OF THE CENTERLINE OF MANCHESTER ROAD.

SITE BENCHMARK:

795.63 (NGVD'29) CROSS AT THE INTERSECTION OF THE CENTERLINE OF BORDEAUX WALK WAY AND THE EAST LINE OF CENTER AVENUE, SAID POINT BEING 218.06 FEET SOUTH AND 29.86 FEET EAST OF THE NORTHEAST CORNER OF SUBJECT TRACT.

SURVEYOR'S CERTIFICATION:

THIS IS TO CERTIFY TO WHALEN CUSTOM HOMES, INC., THAT AT THEIR REQUEST, SUBURBAN LAND SURVEY, INC. HAS PREPARED A BOUNDARY SURVEY AND SUBDIVISION PLAT DATED DECEMBER , 2015, OF A TRACT OF LAND BEING IN THE NORTH HALF OF THE NORTHWEST QUARTER OF SECTION 12, TOWNSHIP 44 NORTH, RANGE 3 EAST, CITY OF WILDWOOD, ST. LOUIS COUNTY, MISSOURI, THAT THIS PLAT IS BASED UPON A BOUNDARY SURVEY COMPLETED ON THE GROUND; THAT THE RESULTS OF SAID SURVEY ARE SHOWN HEREON; AND THAT THE SAID SURVEY MEETS OR EXCEEDS THE CURRENT MINIMUM STANDARDS FOR URBAN CLASS BOUNDARY SURVEYS AS ESTABLISHED BY THE MISSOURI DEPARTMENT OF NATURAL RESOURCES, DIVISION OF GEOLOGY AND LAND SURVEY.

DAVID L. ROBBINS, R.L.S. 2210 — DATE
SUBURBAN LAND SURVEY, INC. LS-376-D

COMMENT	DATE
geometric error	07/18/16
non-disturbed buffer areas	02/03/16

Suburban Land Survey
2007 Bellevue Ave., St. Louis MO 63143
(314) 645-7055 Fax: (314) 644-1225
LICENSED IN MISSOURI AND ILLINOIS

STONE MILL
CITY OF WILDWOOD
ST LOUIS COUNTY, MISSOURI

Whalen Custom Homes
338 S. Kirkwood Road
St. Louis, MO 63122
(314) 821-1745

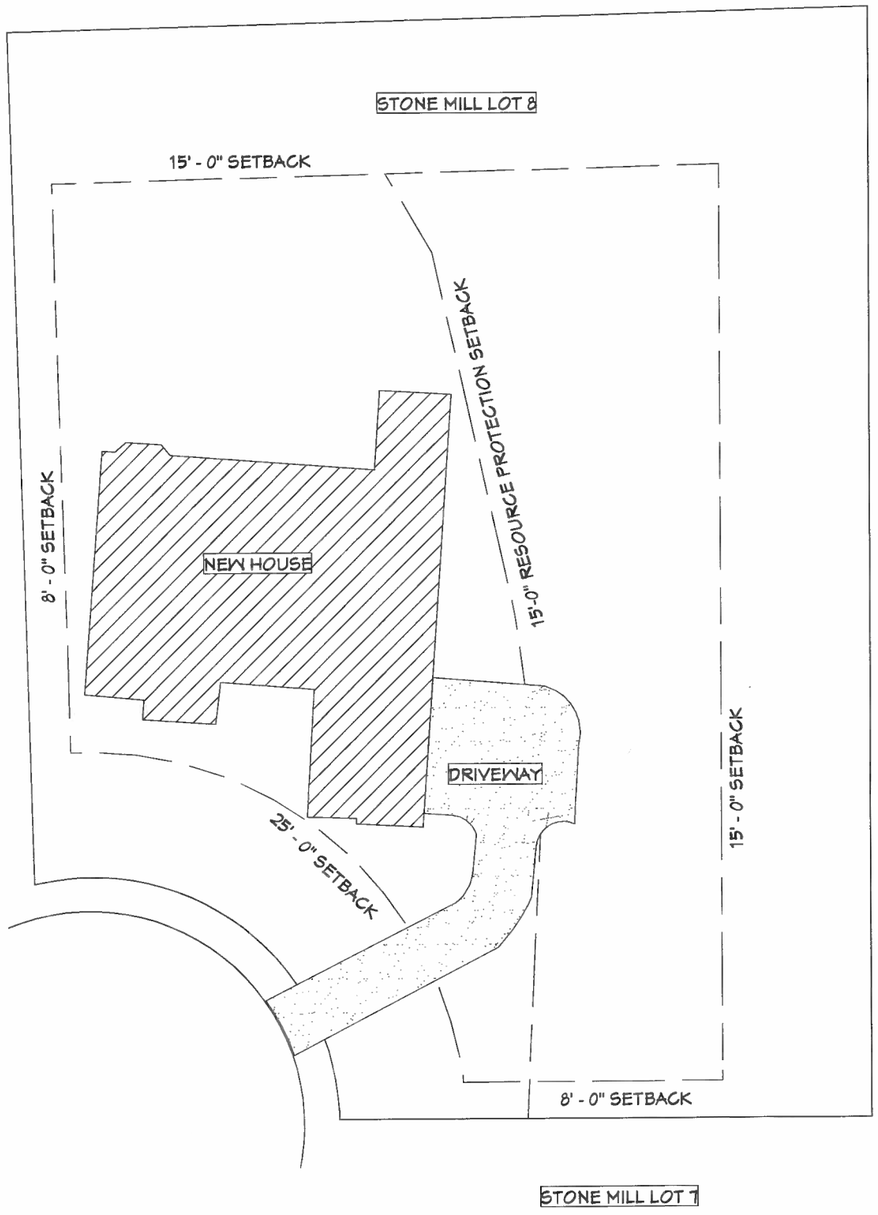
DATE: 12/21/2015
JOB NUMBER: 15072
FILE NAME: Stone Mill.dwg
FIELDWORK BY: DLR, CJC
DRAWN BY: DLR
CHECKED BY:
SHEET 1 of 2

2

3

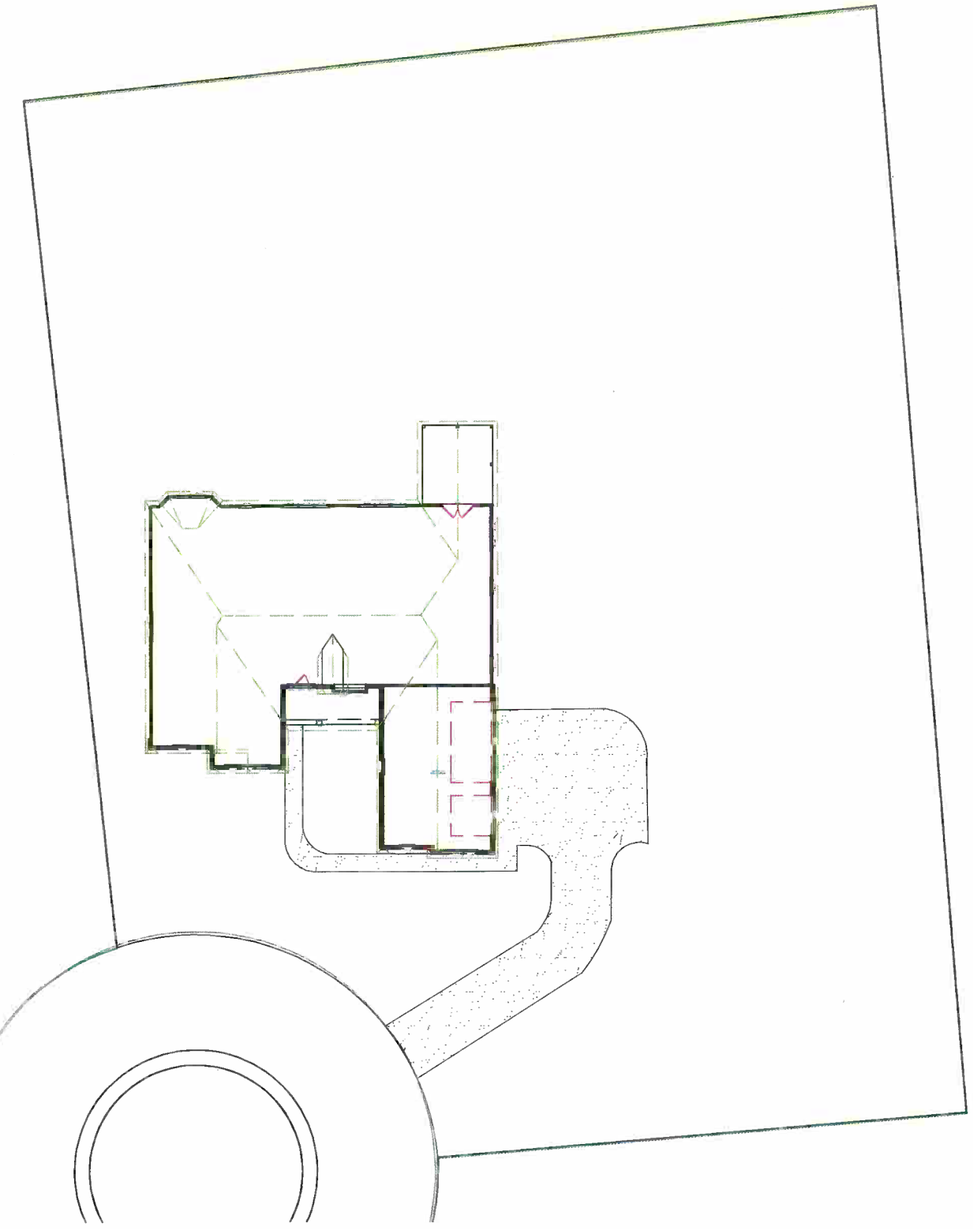
5

7
BUDROWICH



FOOTPRINT OF HOUSE ON LOT

SCALE: 1" = 30'-0" ACTUAL



GENERAL FLOOR PLAN

SCALE: 1" = 30'-0"

NO.	DESCRIPTION	BY	DATE

WHALEN Custom Homes

STONE MILL LOT 8

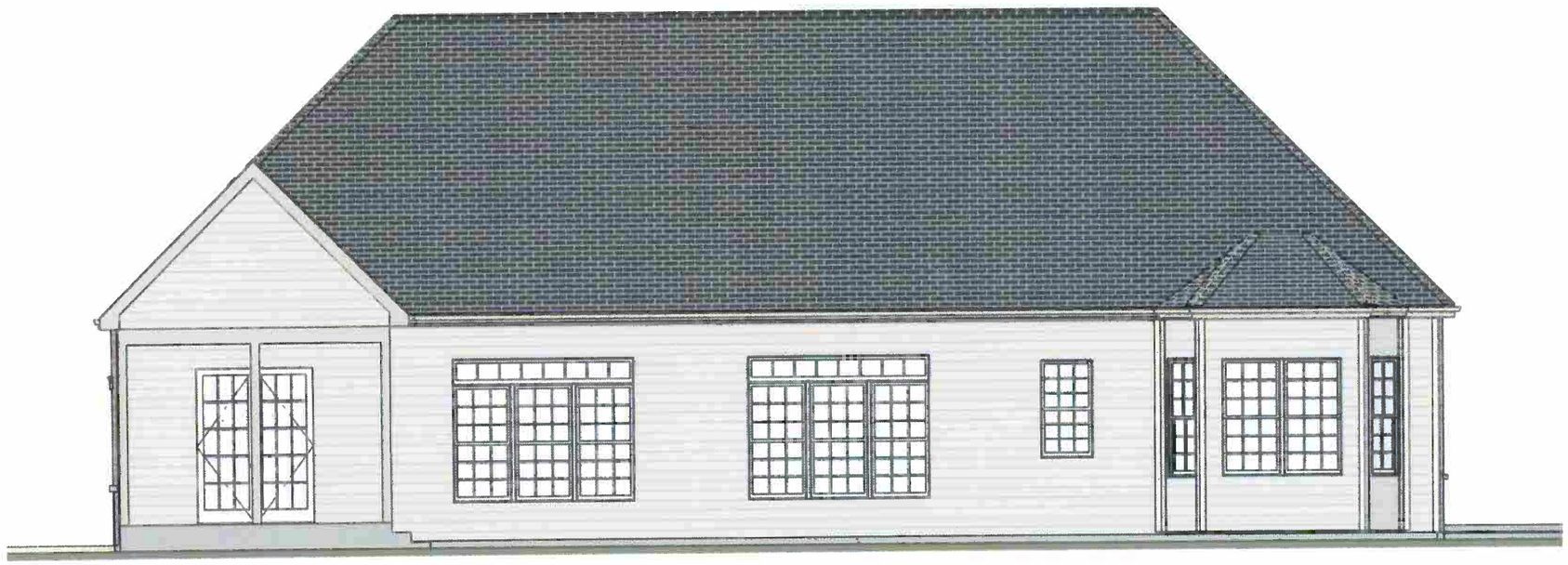
CALCATERRA RESIDENCE

DATE:

SCALE:

SHEET:

FRONT ELEVATION



REAR ELEVATION

SEE "MATERIALS AND COLORS SECTION" FOR DESCRIPTIONS

NO.	DESCRIPTION	BY	DATE

WHALEN Custom Homes

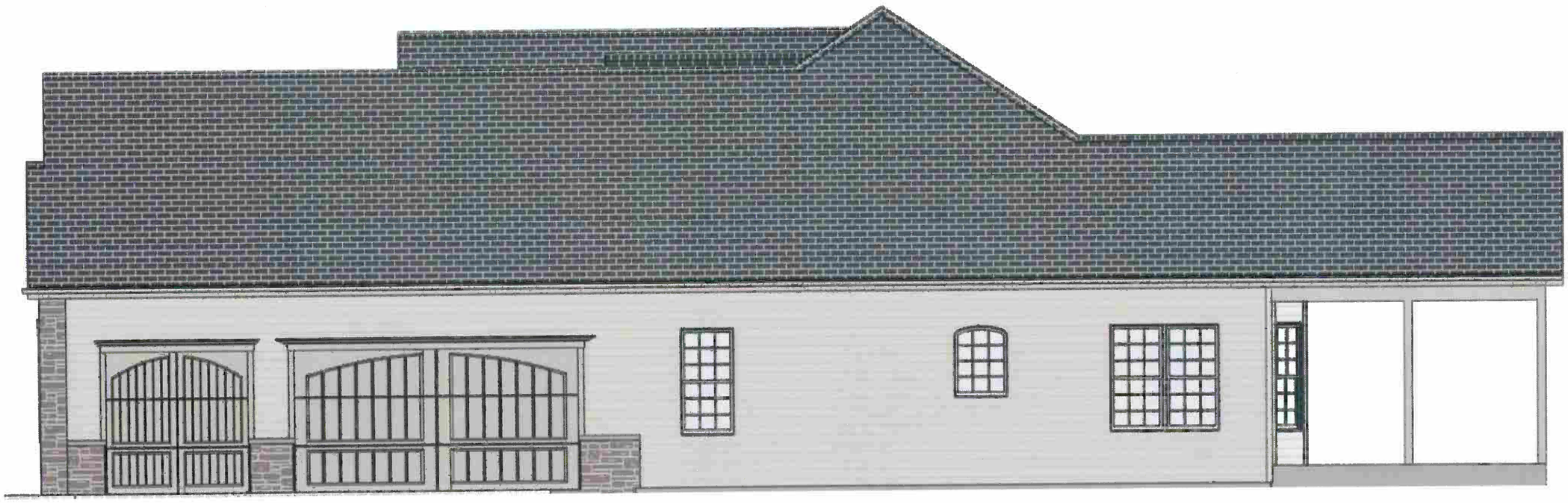
STONE MILL LOT 8

CALCATERRA RESIDENCE

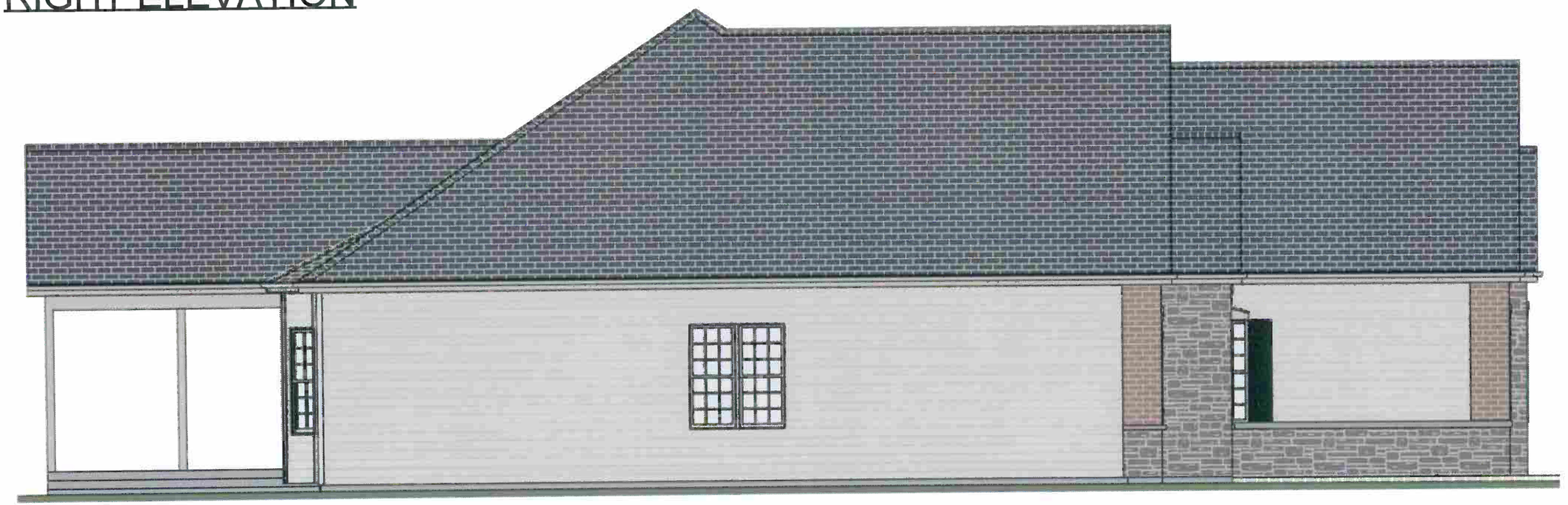
DATE:

SCALE:

SHEET:



RIGHT ELEVATION



LEFT ELEVATION

SEE "MATERIALS AND COLORS SECTION" FOR DESCRIPTIONS

NO.	DESCRIPTION	BY	DATE

WHALEN Custom Homes

STONE MILL LOT 8

CALCATERRA RESIDENCE

DATE:

SCALE:

SHEET:

FRONT RENDERINGS

NO.	DESCRIPTION	BY	DATE

WHALEN Custom Homes

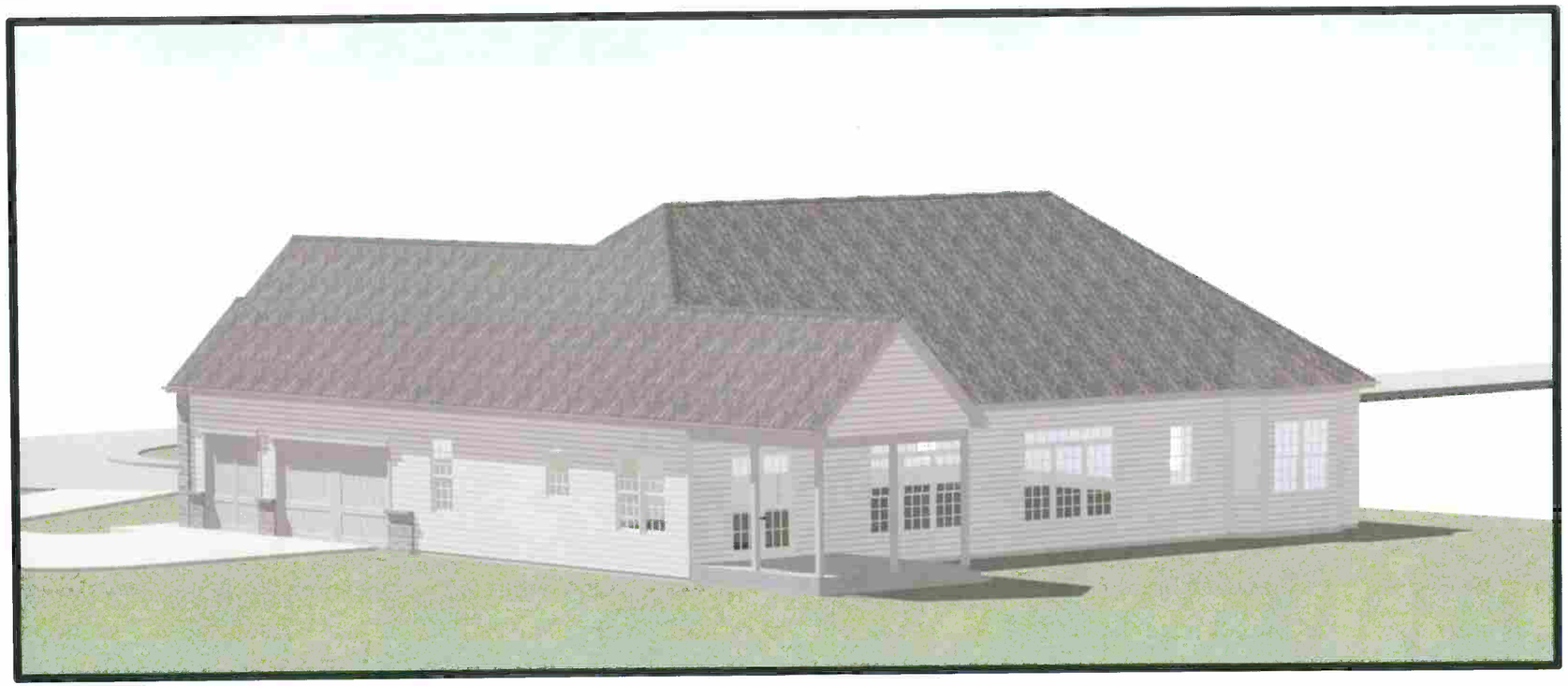
STONE MILL LOT 8

CALCATERRA RESIDENCE

DATE:

SCALE:

SHEET:



REAR RENDERINGS

NO.	DESCRIPTION	BY	DATE

WHALEN Custom Homes

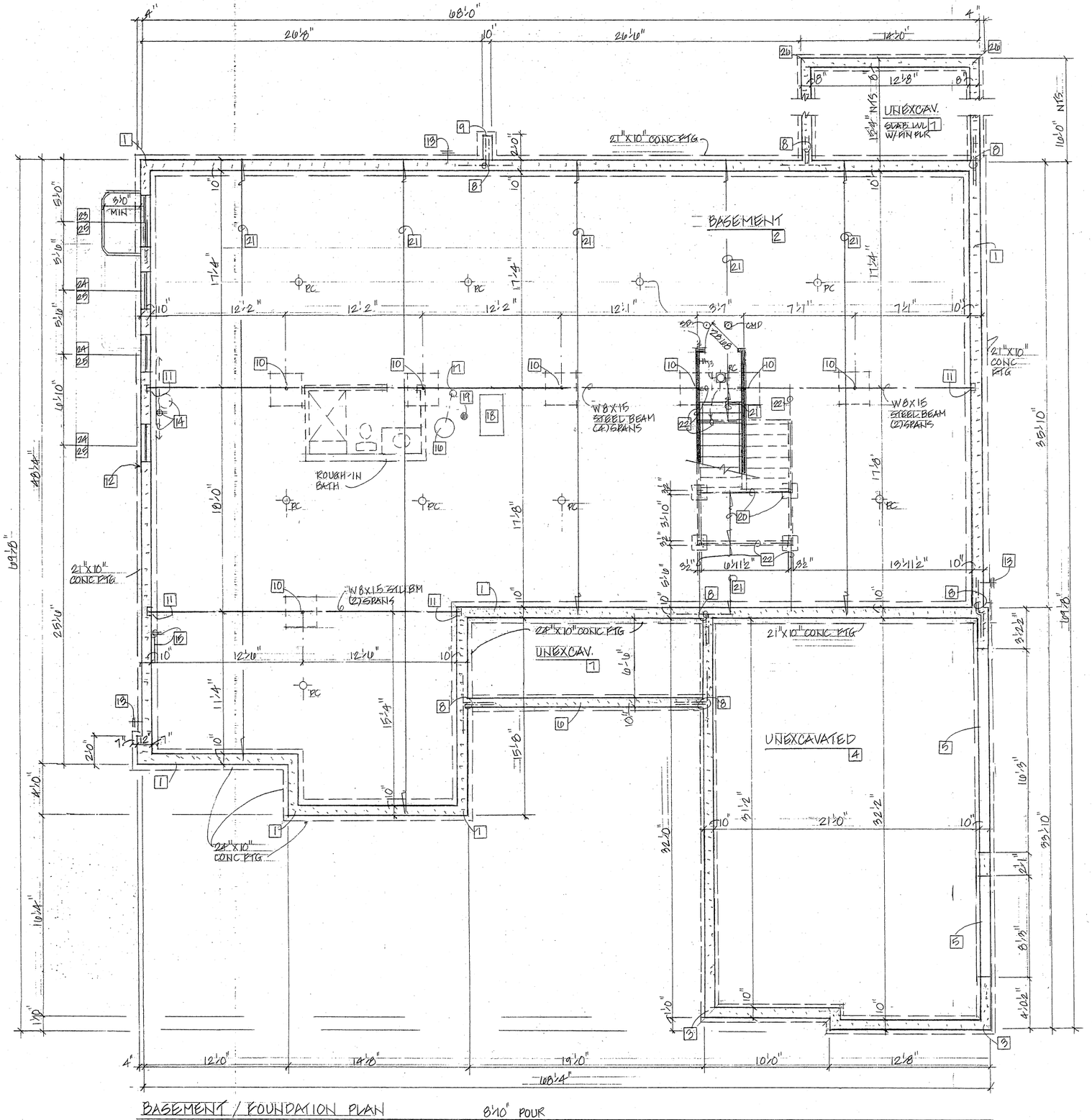
STONE MILL LOT 8

CALCATERRA RESIDENCE

DATE:

SCALE:

SHEET:



BASEMENT / FOUNDATION PLAN NOTES

1. 10"TH CONC. POUND @ 8'-10" POUR - SEE PLAN FOR FOOTING SIZES
2. 3½"TH CONC SLAB ON 6 MIL PVB ON 4" GRAVEL FILL - SLOPE TO FLOOR DRAIN
3. 10"TH CONC POUND ON 16"X10" CONC FOOTING - 30" MIN BELOW FIN GRADE
4. 4"TH CONC SLAB W/ 6X10X 10/10 WWF ON 6 MIL PVB ON 4" MIN GRAVEL. SLOPE TO DR. DRS.
5. HOLD TOP OF POUND DN FOR SLAB CLEARANCE
6. 10"TH CONC POUND ON 16"X10" CONC FOOTING - 30" MIN BEL FIN GRADE
7. 4"TH CONC SLAB W/ #4'S @ 24" OC - 24" EW INTO FDN. THICKEN EDGES & SLOPE AWAY FROM STRUCTURE
8. ADDT (2) #4'S TEB 24" EW @ ALL FDN INTERSECTIONS
9. CONCRETE BUTTRESS
10. 32" OD STEEL COLUMN ON 30"X30"X12" THICK CONC. COLUMN PAD
11. BEAM POCKET W/ MIN 4" BEARING - GROUT LEVEL & SOLID
12. EMBED TREATED 1X2'S INTO CONC. FOR APPLICATION OF SIDING TO 8" ABOVE FIN GRADE
13. FREEZE PROOF HOSE BIBB
14. 4" Ø PERF DRAIN PIPE @ POUND PERIM. TO SUMP W/ DEDICATED OUTLET OR DAYLITED
15. APPROX. LOCAT. OF 200 AMP ELECT PANEL W/ GFI - FIELD LOCATE
16. 50 GALLON GAS WATER HEATER
17. METAL/BESTOS FLUE W/ UV APP'D CAP & CO
18. FORCED AIR HIGH EFFIC. GAS FURN
19. FLOOR DRAIN
20. 2X10 FLOOR JOISTS @ 16" OC W/ (2) 2X10'S @ PERIM. OF LANDING W/ 4X4 POST ON 16"X16"X12"TH CONC PAD @ EACH CORNER - SEE SHT D2
21. 11⅞" TJI'S @ 16" OC - 210 SERIES BY TRUSS JOIST INC.
22. 1¾"X11⅞" MICRO=LAM
23. 'ANDERSEN' 200 SERIES EGRESS SLIDER # 2446WA1040 IN APPROVED WINDOW WELL W/ GRAVEL BED & DRN TO HPR SEE SHT D1
24. 'ANDERSEN' 200 SERIES BSMT SASH # 2820
25. ADDT (2) #5'S AROUND EACH WINDOW - EXTEND 24" MIN PAST WINDOW
26. 8"TH CONC POUND ON 16"X8" CONC FTG - 30" MIN BELOW FIN GRADE

The Professional Architects seal affixed to this sheet indicates that the named Architect has prepared or directed the preparation of the material shown only on this sheet. Other drawings and documents not exhibiting this seal shall not be considered prepared by or the responsibility of the undersigned.

STATE OF MISSOURI
FRANKLIN D. WISEMEN, JR.
NUMBER A-2003027170
ARCHITECT
10/29/16

DATE:

Frank Wisemen
Missouri License #: A-2003027170

ARCHITECTURE

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E-mail: pamalsing@gmail.com

WHALEN Custom Homes
338 S. Kirkwood Road
Kirkwood, MO 63122
Sales: 314-575-7645
Office: 314-821-1745

PROJECT TITLE

Proposed Residence For:
THE CALCATERRAS
LOT 8 STONE MILL
WILDWOOD, MO.

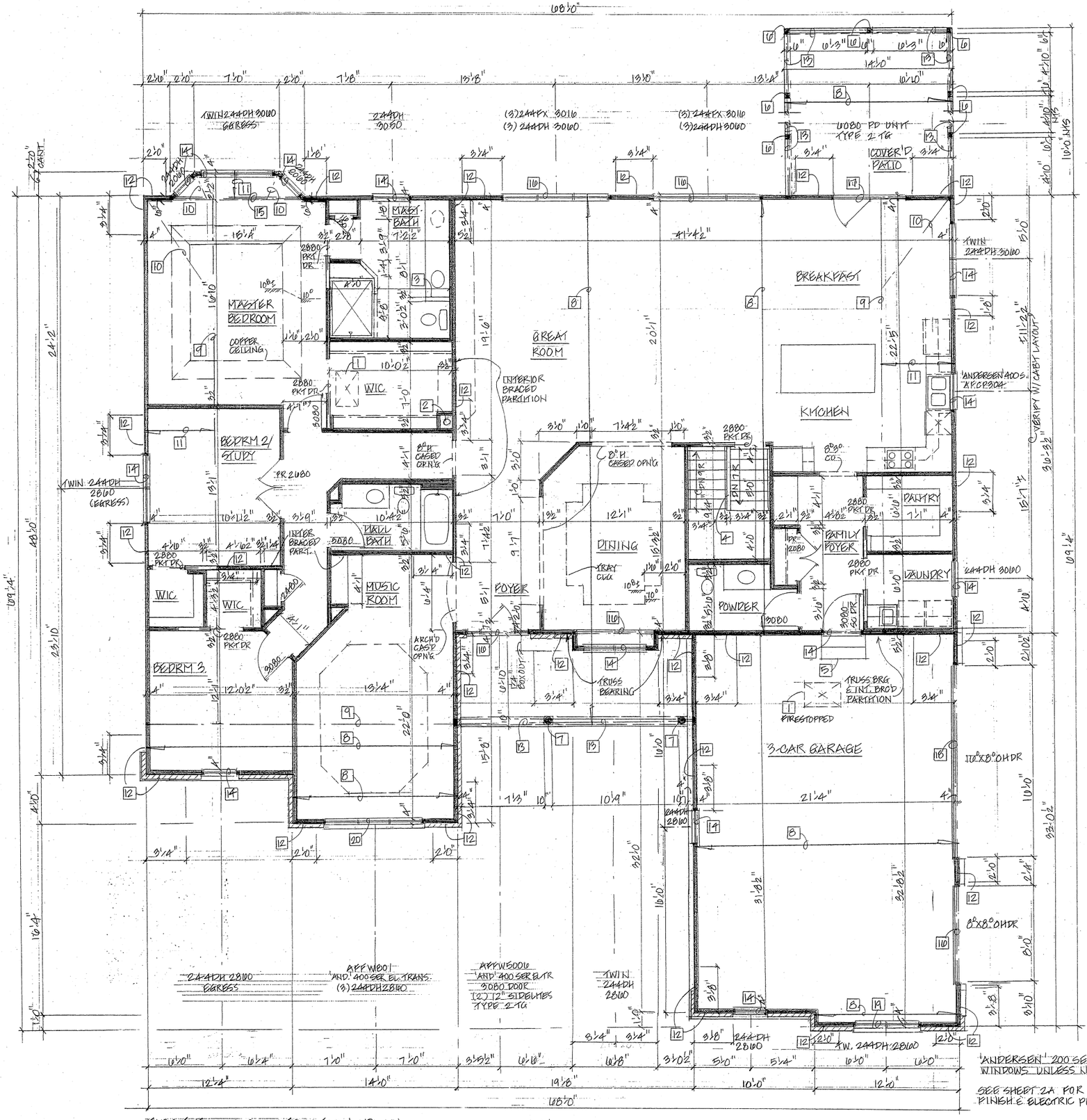
DRAWING ISSUE / REVISION

REV #	DESCRIPTION	DATE
	COMPLETE	10/29/16

DRAWING TITLE
BASEMENT/ FOUNDATION PLAN

SHEET NUMBER
1 OF 9

JOB #
SHEET SIZE 36" X 24" LANDSCAPE



FIRST FLOOR CONSTRUCTION PLAN

☐ FIRST FLOOR CONSTRUCTION PLAN NOTES

1. 22"x30" ATTIC ACCESS
2. FLUE SPACE - MIN 2" CLEAR
3. HALF WALL TO 6" ABOVE VANITY TOP
4. 36" H WALL W/ WOOD CAP
5. MIN 4" STEP UP
6. 6X6 TREATED POST
7. 10" Ø PERMACAST FLUTED STRUCT. COLUMN
8. PREFAB TRUSSES @ 24" OC W/ 18" HEEL
9. PREFAB GIRDER TRUS W/ 18" HEEL & (3) STUDS BE OR GIRDER TO GIRDER CONNECT. BY TRUSS MFGR
10. PREFAB HIP CORNER SET W/ 18" HEEL
11. PREFAB MONO TRUSSES @ 24" OC W/ 18" HEEL
12. IRC BRACED WALL PANEL - SEE IRC NOTE BELOW
13. (2) 2X12 BOX BEAM - SEE SECT ON SH 3 - BLOCK SOLID @ WALL BEARING POINTS
14. (2) 2X10 HEADER
15. 5 1/2" X 11 7/8" PARALLAM HDR - 15'2" LONG - PORTAL FRAME
16. (2) 2X12 HEADER
17. (2) 1 3/4" X 11 7/8" PARALLAM HEADER
18. (2) 1 3/4" X 11 7/8" MICRO.LAM HDR - 20'0" L - PORTAL FRAME
19. (2) 2X12 HEADER - 12'0" LONG - PORTAL FRAME
20. (2) 2X12 HEADER - 14'0" LONG - PORTAL FRAME

IRC NOTE:

"SIMPLIFIED BRACING METHOD" USED THE INTERIOR & EXTERIOR WALL CONFIGURATION BRACES THE ENTIRE STRUCTURE IN ACCORD. W/ OR EQUAL TO THE LATERAL BRACING PROVISIONS OF THE 2009 IRC SECT R602.10 OR THE 2009 IBC, SECT 2305. SHEATH ENTIRE STRUCT W/ 7/16" OSB OR PLYWOOD SEE SHT D3 FOR BRACING DETAILS.

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STATE OF MISSOURI
FRANKLIN D. WISEMAN, JR.
NUMBER A-2003027170
ARCHITECT
10-29-10

DATE: _____

Frank Wiseman
Missouri License #: A-2003027170

ARCHITECTURE

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E-mail: pamalsing@gmail.com

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PROJECT TITLE

Proposed Residence For:
THE CALCATERRAS
LOT 8 STONE MILL
WILDWOOD, MO

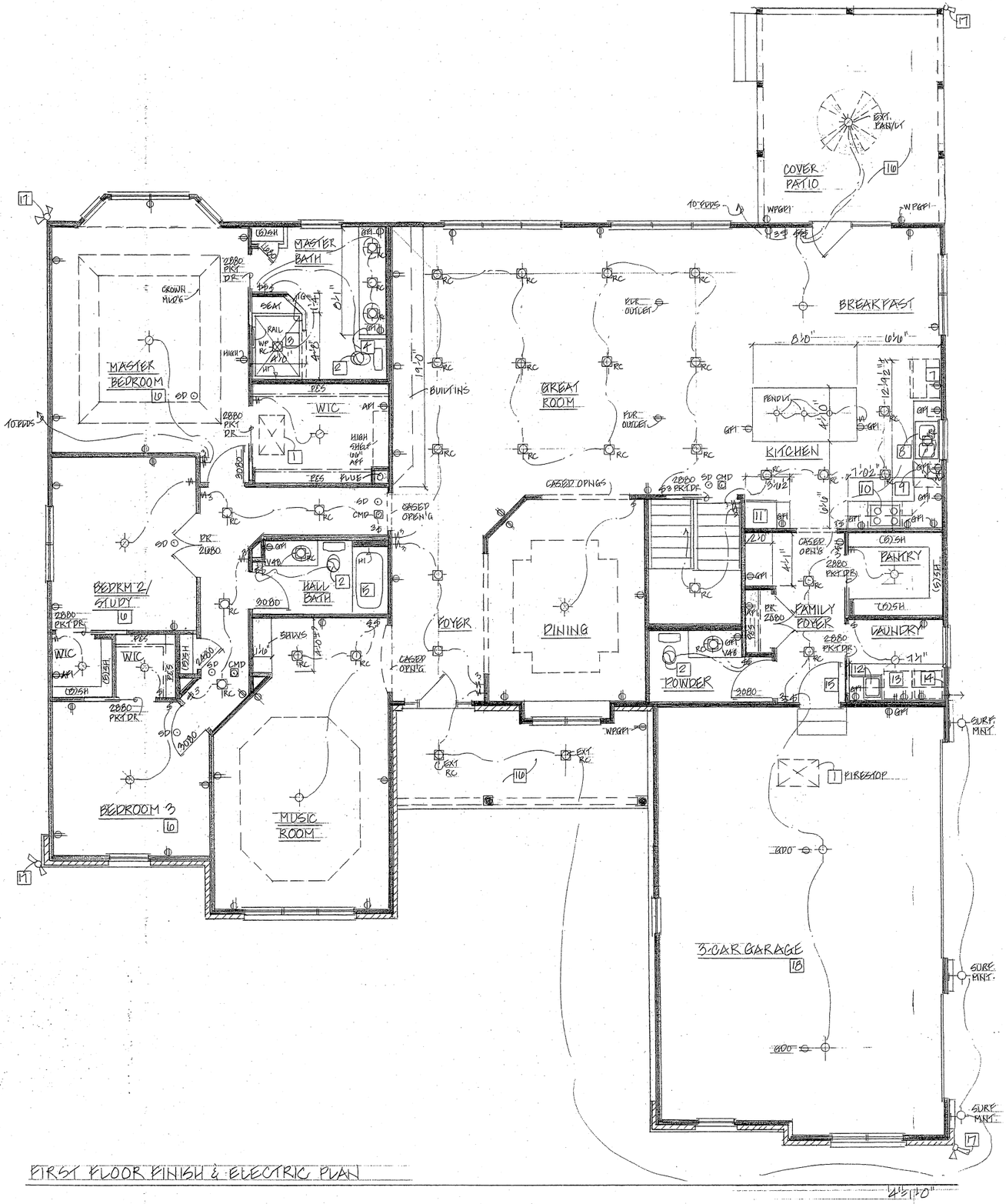
DRAWING ISSUE / REVISION

REV #	DESCRIPTION	DATE
	COMPLETE	10/29/10

DRAWING TITLE
FIRST FLOOR CONSTRUCTION PLAN

SHEET NUMBER
2 OF 9

JOB #
SHEET SIZE 36" X 24" LANDSCAPE



☐ FIRST FLOOR FINISH & ELECTRIC NOTES

1. 22"X36" ATTIC ACCESS
2. EXHAUST FAN TO EXT - MIN 50 CFM
3. CUSTOM SHOWER
4. ½ WALL TO 16" ABOVE VANITY
5. 100"X37" TUB SHOWER
6. AFI CIRCUITS IN THIS ROOM
7. REFRIGERATOR SPACE
8. 36" SINK W/ DISPOSAL
9. DISHWASHER
10. COOKTOP W/ GAS HOOK-UP & EXHAUST HOOD
11. OVEN CABINET W/ GAS HOOK-UP
12. LAUNDRY SINK IN CABINET
13. WASHER SPACE W/ H & C & HDRN
14. DRYER SPACE W/ GAS HOOKUP & VENT TO EXT.
15. 3080 SC DOOR
16. ALUM. SOFFIT CEILING
17. FLOODLIGHT - SWITCHED @ BREAKFAST ROOM & MASTER BEDROOM
18. (1) LAYER 5/8" TYPE 'X' DW W/ 3½" BATT (R-13 MIN) INSUL @ ALL WALLS BTWN HSE & GAR W/ (1) LAYER 5/8" TYPE 'X' DW ON GAR CLG.

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FRANK WISEMEN
MISSOURI
FRANK W. IN D. WISEMAN, JR.
NUMBER
A-2003027170
ARCHITECTS

DATE: _____

Frank Wisemen
Missouri License #: A-2003027170

ARCHITECTURE

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PROJECT TITLE

Proposed Residence For:
THE CALCATERRAS
LOT 8, STONE MILL
WILDWOOD, MO.

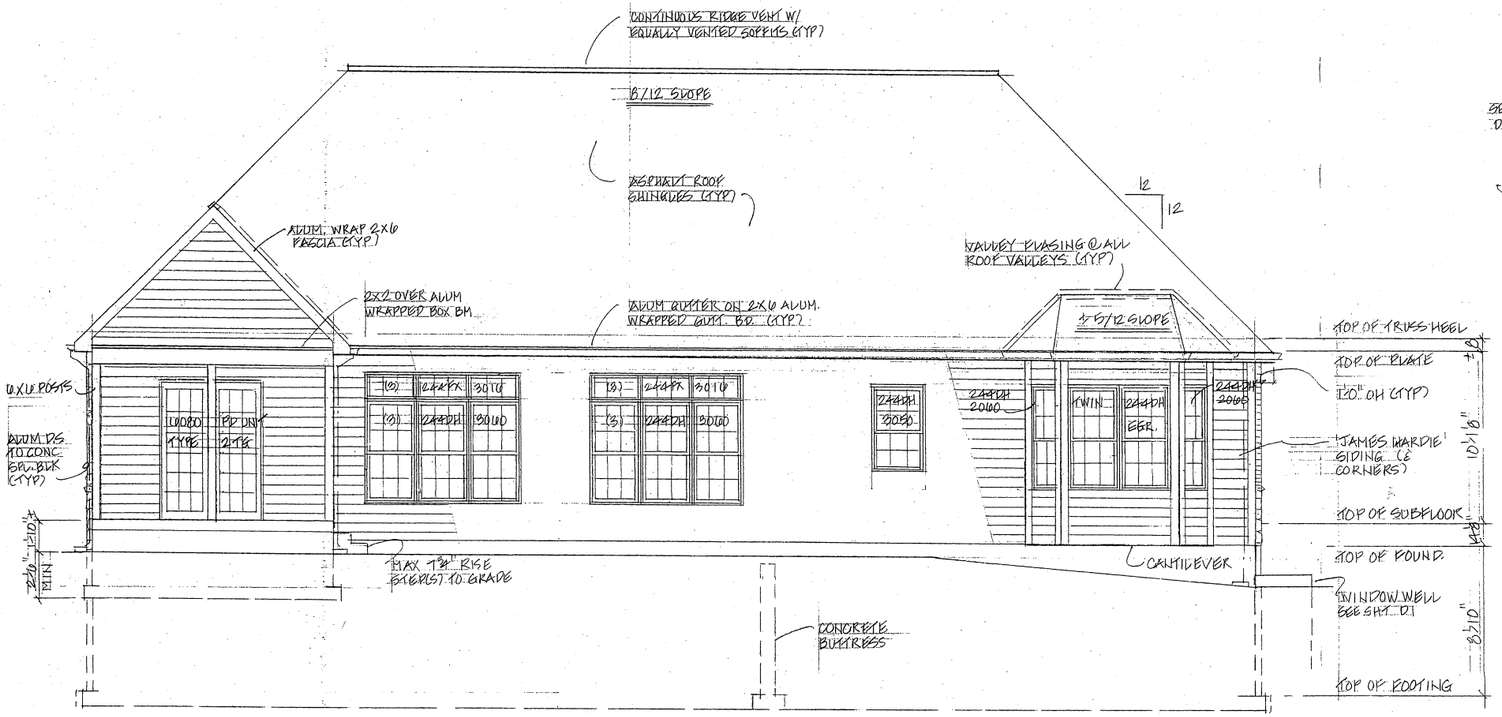
DRAWING ISSUE / REVISION

REV #	DESCRIPTION	DATE
	COMPLETE	10/28/16

DRAWING TITLE
FIRST FLOOR FINISH & ELECTRIC PLAN

SHEET NUMBER
2A OF 9

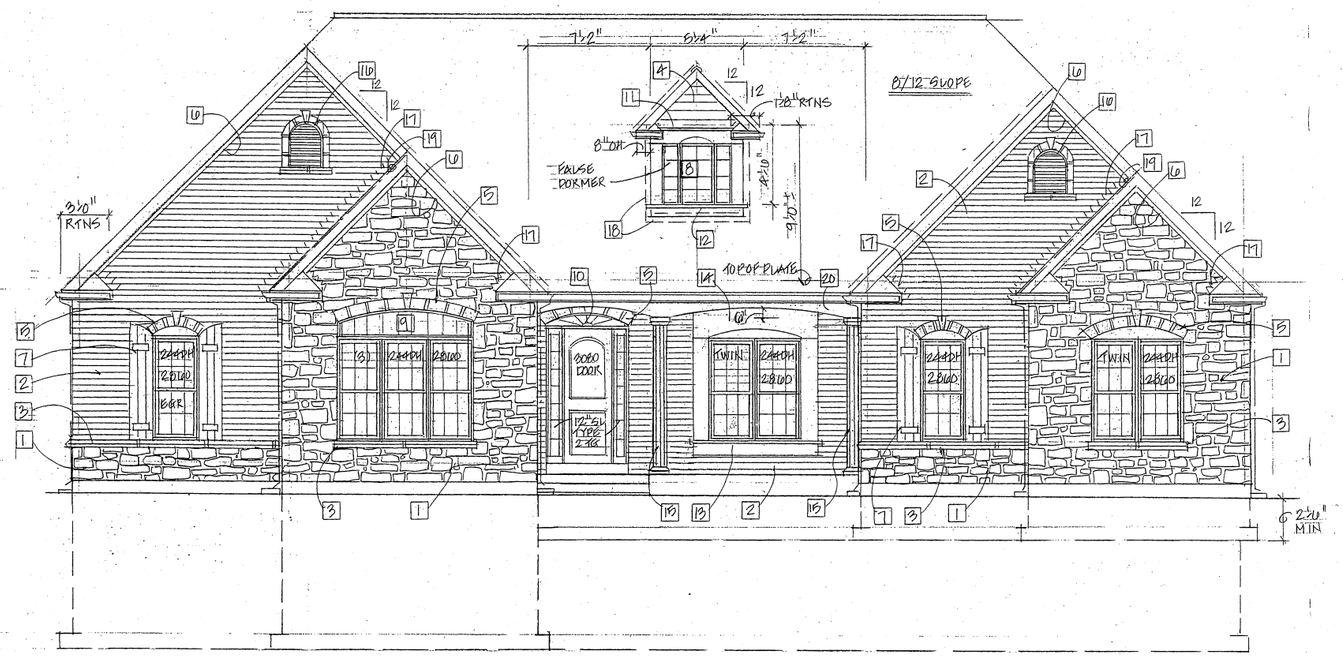
JOB #
SHEET SIZE 36" X 24" LANDSCAPE



REAR ELEVATION

'ANDERSEN' 200 SERIES WINDOWS (TYPICAL) UNLESS NOTED

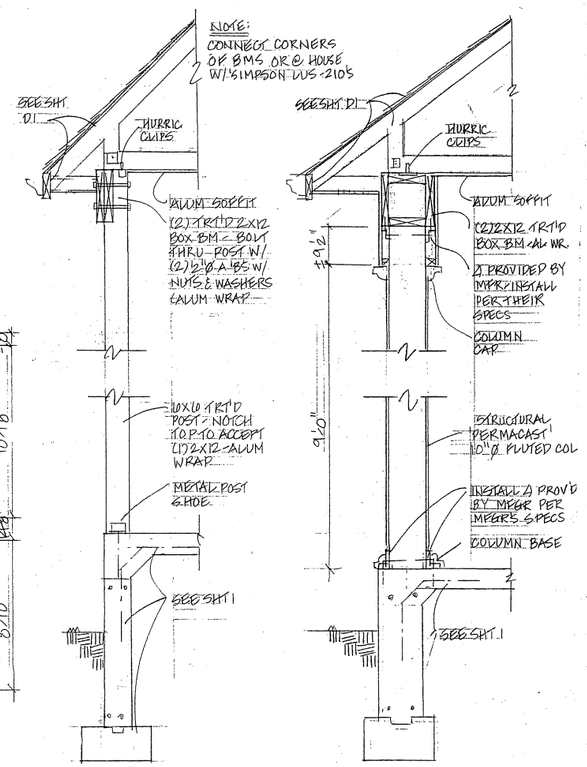
1/4"=1'-0"



FRONT ELEVATION

SEE REAR ELEVATION FOR TYPICAL INFO

1/4"=1'-0"



SECT @ REAR PORCH

3/4"=1'-0"

SECT @ FRONT PORCH

3/4"=1'-0"

FRONT ELEVATION NOTES

1. STONE VENEER
2. BRICK VENEER
3. CUT STONE SILL
4. JAMES HARDIE SIDING
5. CUT STONE ARCH W/ STONE KEY
6. ALUM. WRAPPED 2x SHADOW TRIM
7. 18" ARCH TOP SHUTTERS
8. 1040/2040/T040 FIXED WINDOWS
9. EUPT TRANS #APPW801 - 'ANDERSEN' 400 SERIES
10. EUPT TRANS #APPWS006 'ANDERSEN' 400 SERIES
11. 2x4 OVER 1x8 W/ ARCH CUT OVER 1x8
12. 2x4 SILL OVER 2X APRON
13. 2x4 SILL OVER 2X8 APRON
14. ARCHCUT PVC OVER SAME
15. 10" Ø 'PERMACAST' FLUTED COLUMN W/ MFG ANCH. I & B
16. 'FYPON' CATHEDRAL LOUVER #CLV22X31 W/ KEYED CUT STONE SURROUND & CUT STONE SILL
17. METAL STEP FLASHING @ ALL ROOF/MASON. INTERSCTNS
18. METAL FLASHING @ ALL ROOF/WALL INTERSECTIONS
19. 3½"x3½"x¼" SIL & BOLTED TO TRUSS @ 10'0"OC TO SUPPORT MASONRY ABOVE
20. ARCHCUT PVC @ FACE OF BOX BEAM

Proposed Residence For:

THE CALCATERRAS
LOT 8 STONE MILL
WILDWOOD, MO.

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STATE OF MISSOURI
FRANKLIN D. WISEMAN, JR.
NUMBER A-2003027170
ARCHITECT

DATE:

Frank Wisemen
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ARCHITECTURE

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WHALEN Custom Homes

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PROJECT TITLE

DRAWING ISSUE / REVISION

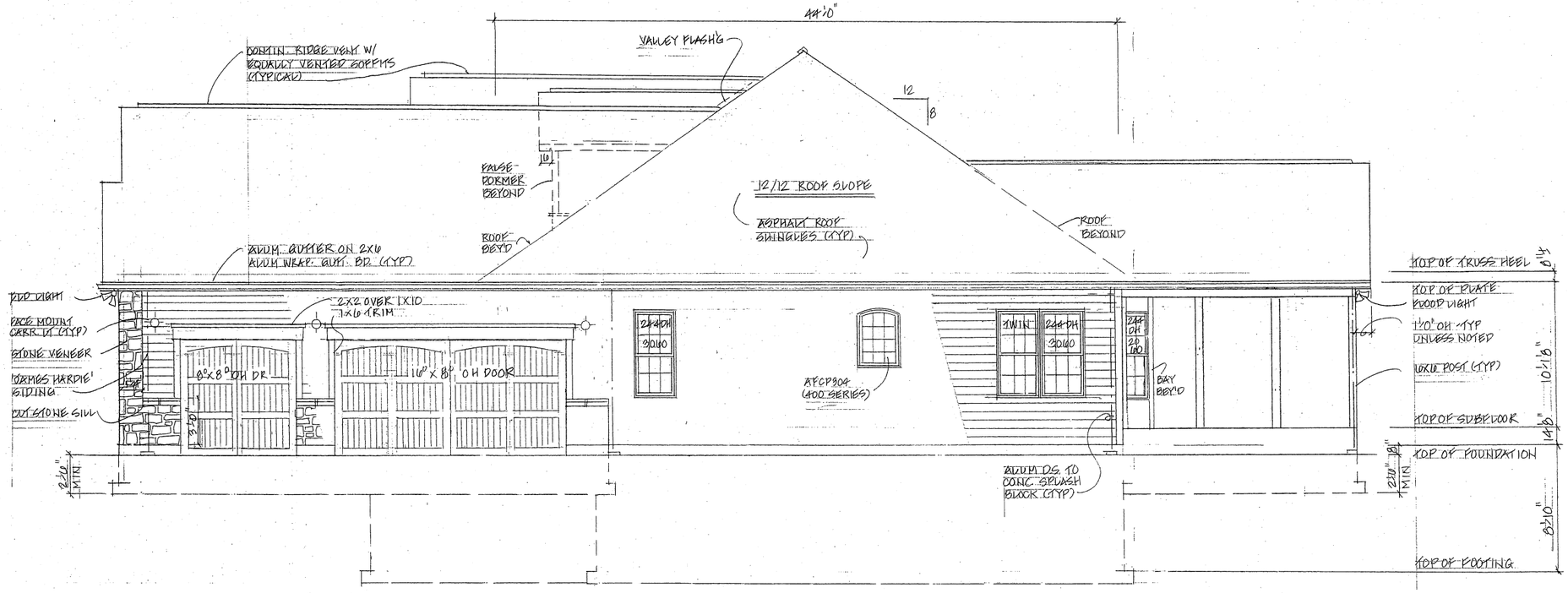
REV #	DESCRIPTION	DATE
	COMPLETE	10/29/10

DRAWING TITLE: FRONT & REAR ELEVATIONS

SHEET NUMBER: 3 OF 9

JOB #

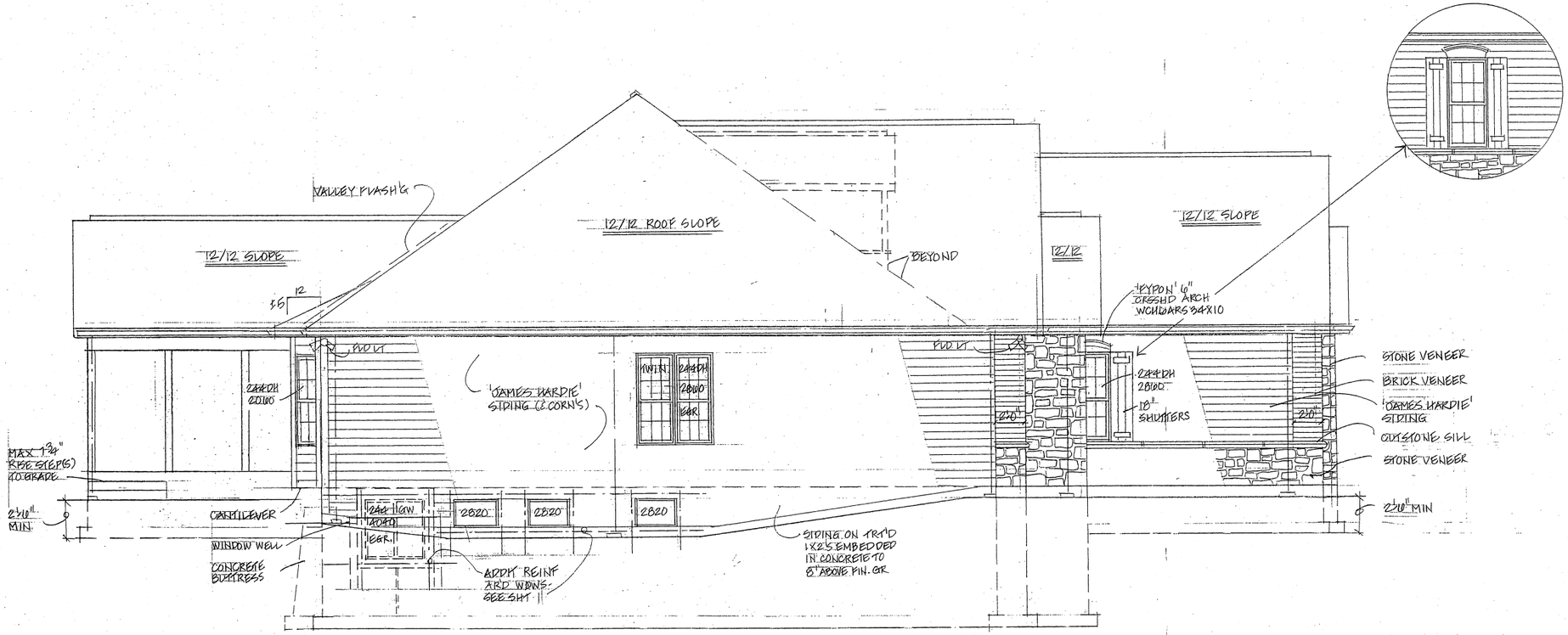
SHEET SIZE: 36" X 24" LANDSCAPE



RIGHT SIDE ELEVATION

'ANDERSEN' 200 SERIES WINDOWS UNLESS NOTED (TYPICAL)

1/4"=1'-0"



LEFT SIDE ELEVATION

SEE RIGHT SIDE ELEV FOR TYPICAL INFO

4'=1'-0"

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STATE OF MISSOURI FRANK WISEMAN NUMBER A-2003027170

10-29-16

DATE:

Frank Wiseman
Missouri License #: A-2003027170

ARCHITECTURE

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PROJECT TITLE

Proposed Residence For:

THE CALCATERRAS
LOT 8 STONE MILL
WILDWOOD, MO.

DRAWING ISSUE / REVISION

REV #	DESCRIPTION	DATE
	COMPLETE	10/29/16

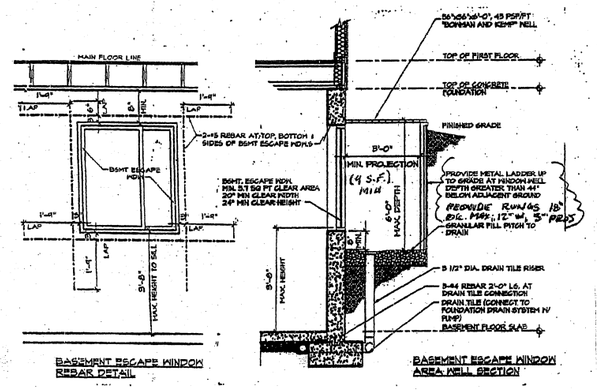
DRAWING TITLE

SIDE ELEVATIONS

SHEET NUMBER 4 OF 9

JOB #

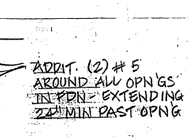
SHEET SIZE 36" X 24" LANDSCAPE



36" H. GUARD REQ'D 24" MIN TO WALKWAYS

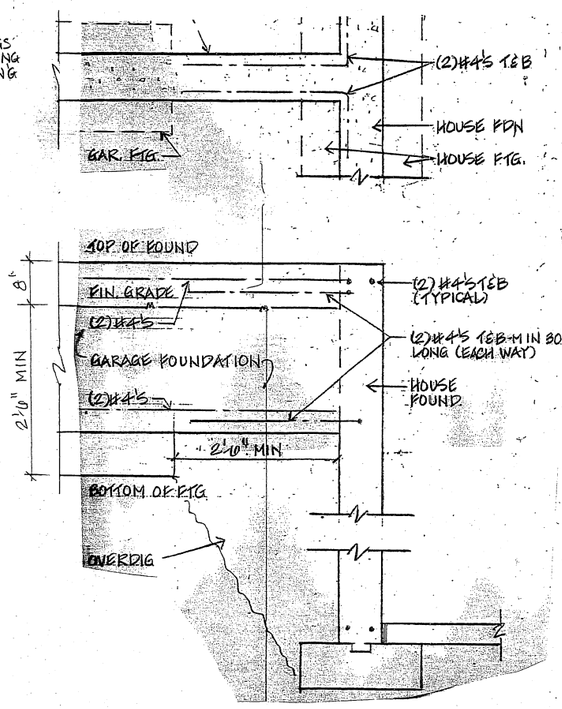
BASEMENT EGRESS WINDOW DETAIL

NO SCALE



ADDIT. REINF. REQMTS IN FDN

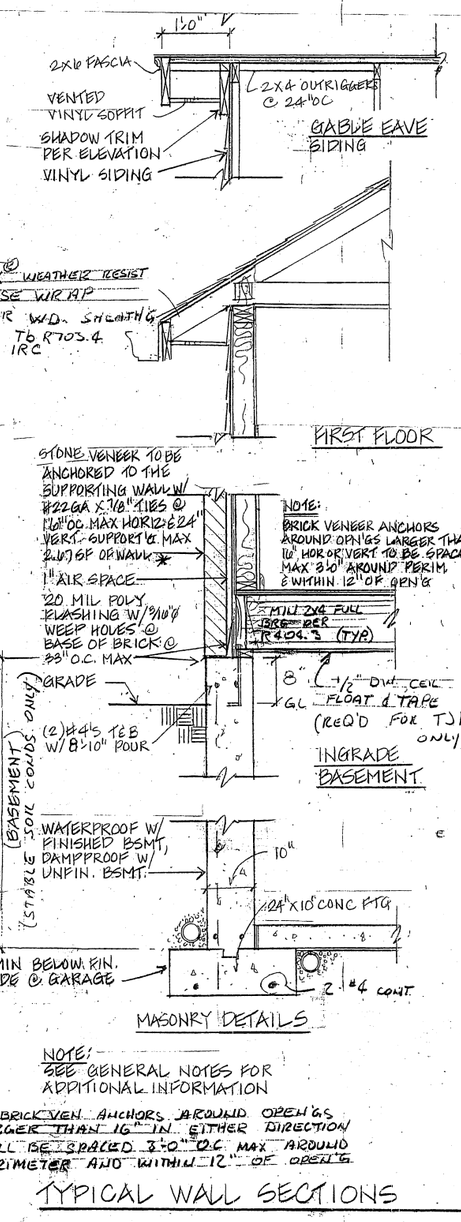
4"=1'-0"



FOUNDATION WALL BRIDGE

SHORT WALL TO TALL WALL

1"=1'-0"

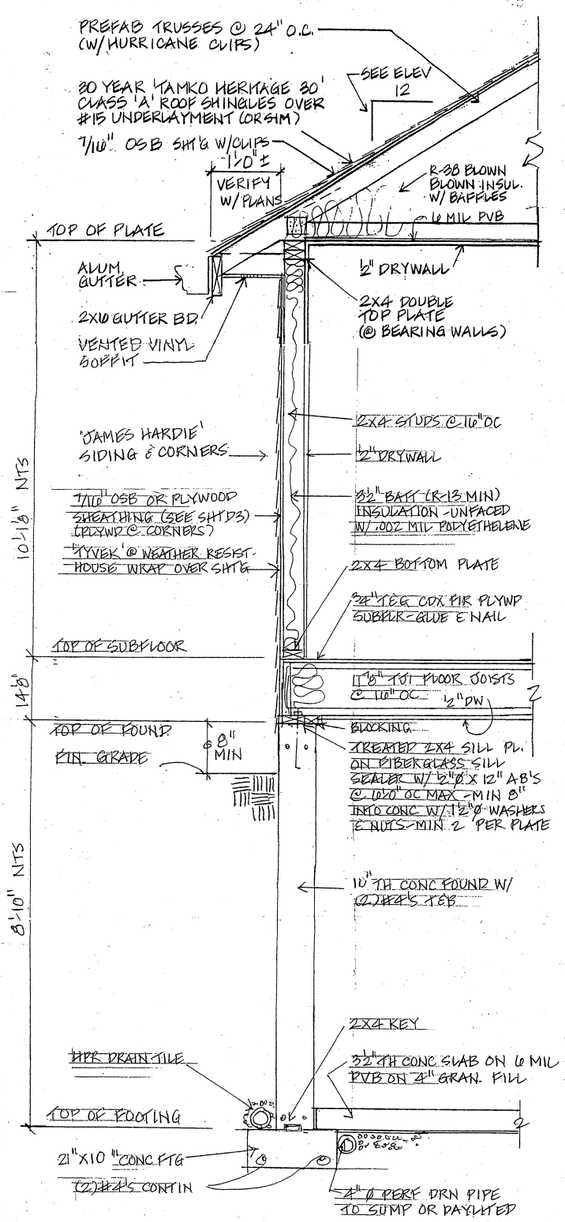


MASONRY DETAILS

NOTE:
SEE GENERAL NOTES FOR ADDITIONAL INFORMATION

* BRICK VEN. ANCHORS AROUND OPN'GS LARGER THAN 16" IN EITHER DIRECTION SHALL BE SPACED 3'-0" O.C. MAX AROUND PERIMETER AND WITHIN 12" OF OPN'G

TYPICAL WALL SECTIONS



TYPICAL WALL SECTION (@ SIDING)

3/4"=1'-0"

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STATE OF MISSOURI
FRANKLIN D. WISEMAN, JR.
NUMBER A-2003027170
ARCHITECT
10-29-16

DATE:

Frank Wiseman
Missouri License #: A-2003027170

ARCHITECTURE

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WHALEN Custom Homes
338 S. Kirkwood Road
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Sales: 314-575-7645
Office: 314-821-1745

PROJECT TITLE

Proposed Residence For:
The Calcaterras
Lot 8 Stone Mill
Wildwood, MO 63040

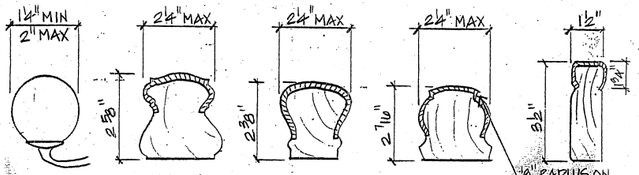
DRAWING ISSUE / REVISION

REV #	DESCRIPTION	DATE
	Complete	10/29/16

DRAWING TITLE
SECTIONS & DETAILS

SHEET NUMBER
D1 OF 9

JOB #

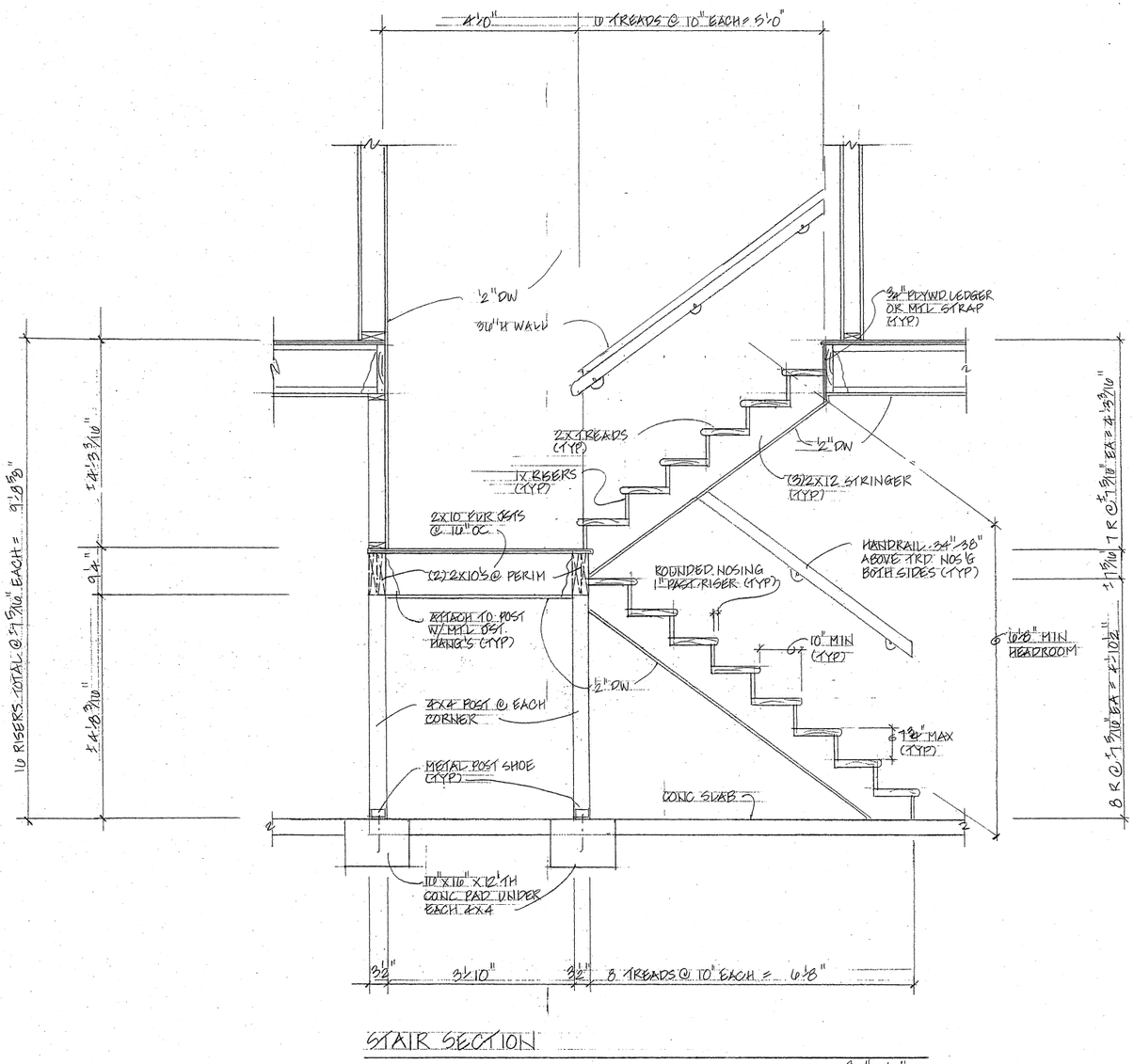


ACCEPTABLE RAIL PROFILES

DENOTES GRASPABLE PERIMETER

HANDRAILS SHALL MEET EITHER:
- CIRCULAR CROSS SECTION W/ MIN Ø OF 1¼" BUT LESS THAN 2"
- OTHER SHAPES HAVING A MAX. ALLOWABLE HORIZ WIDTH OF 2¼" MAX. GRASPABLE PERIMETER DIMEN. OF 6¼" AND/OR MIN. 4" GRASPABLE DIMENSION

ALL RAILS TO BE CONTINUOUS, ℄ RETURN TO WALL OR NEWEL POST EACH END. NO LADDER DESIGN.



STAIR SECTION

3/4"=1'-0"

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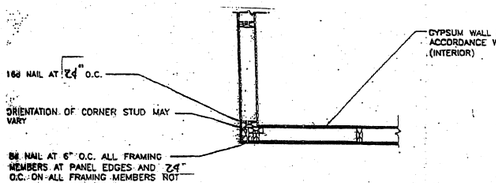
DRAWING ISSUE / REVISION

REV #	DESCRIPTION	DATE
	Complete	10/29/16

DRAWING TITLE
STAIR SECTION

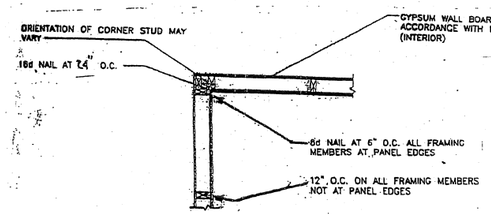
SHEET NUMBER
D2 OF 9

JOB #
SHEET SIZE 36" X 24" LANDSCAPE



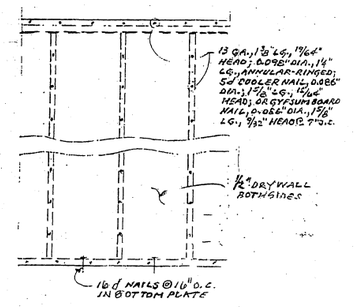
IMPORTANT CODE REQUIREMENT:
ONLY FOR USE ON HOMES WITH FULLY SHEATHED PLYWOOD OR OSB EXTERIOR WALLS, PER IRC R602.10.3

EXAMPLE OF OUTSIDE CORNER DETAIL PER IRC R602.10.4

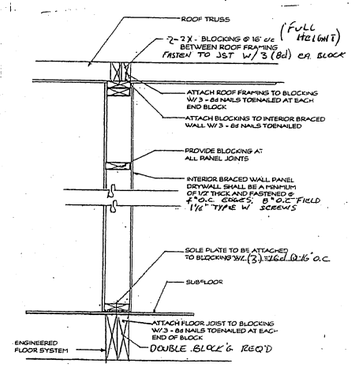


IMPORTANT CODE REQUIREMENT:
ONLY FOR USE ON HOMES WITH FULLY SHEATHED PLYWOOD OR OSB EXTERIOR WALLS, PER IRC R602.10.5.

EXAMPLE OF INSIDE CORNER DETAIL PER IRC R602.10.4

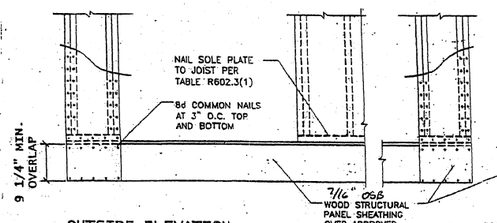


INTERIOR BRACED WALL

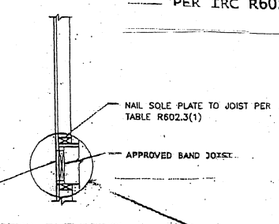


INTERIOR BRACED WALL PERPENDICULAR W/ TRUSS & JOIST

NOT TO SCALE



OUTSIDE ELEVATION



SIDE ELEVATION

IMPORTANT CODE REQUIREMENT:
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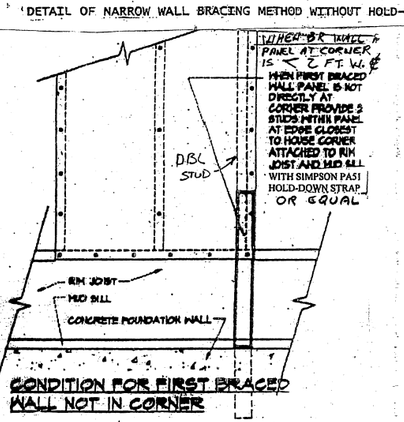
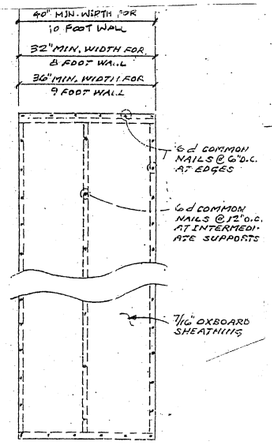
DETAIL OF NARROW WALL BRACING METHOD WITHOUT HOLD-DOWNS



CONDITION FOR FIRST BRACED WALL NOT IN CORNER

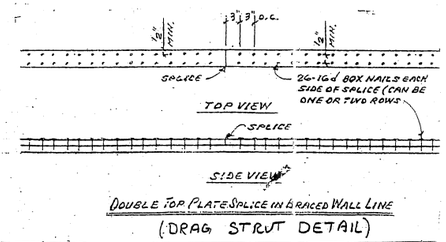
(ALL EDGES BLOCKED W/MIN 1 1/2" W. FRG)

EXTERIOR BRACED WALL (REF: R602.10. OF 2009 I.R.C) *



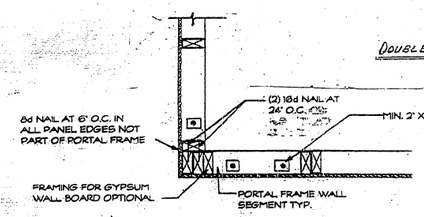
EXTERIOR BRACED WALL PANEL

(ALL EDGES BLOCKED WITH MIN. 1 1/2" W. FRAMING

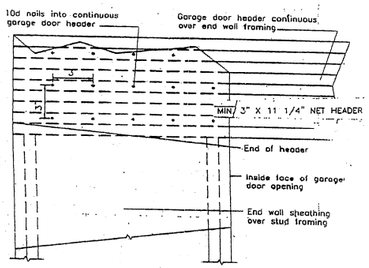


DOUBLE TOP PLATE SPLICE IN BRACED WALL LINE

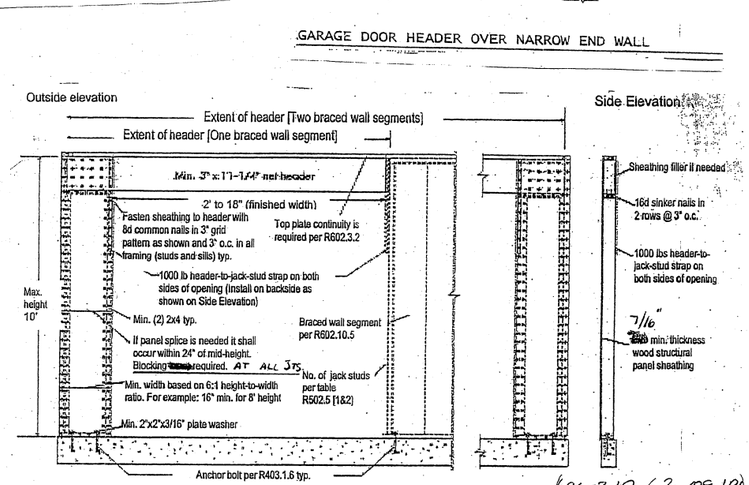
(DRAG STRUT DETAIL)



CORNER DETAIL USED IN CONJUNCTION WITH 6:1 ASPECT RATIO FRAME

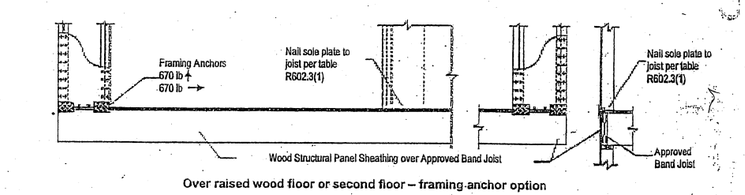


GARAGE DOOR HEADER OVER NARROW END WALL

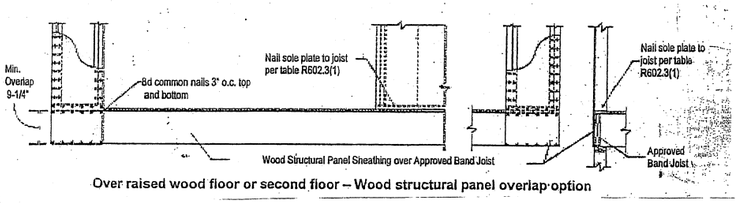


Over concrete or masonry block foundation

(R602.10.6.2, 09 IRC)



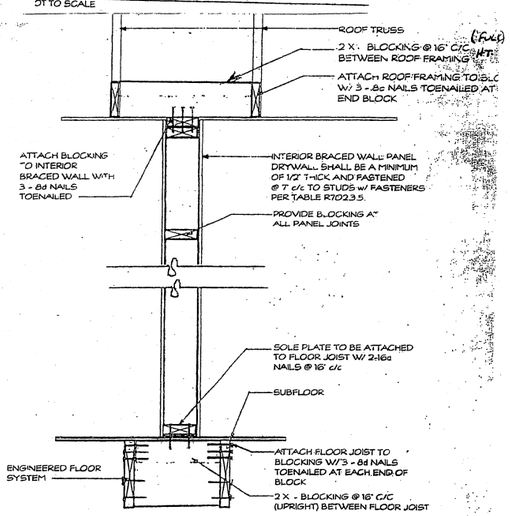
Over raised wood floor or second floor – framing-anchor option



Over raised wood floor or second floor – Wood structural panel overlap option

INTERIOR BRACED WALL W/ TRUSS & JOIST DIRECTLY ABOVE AND BELOW

NOT TO SCALE



INTERIOR BRACED WALL W/O TRUSS & JOIST DIRECTLY ABOVE AND BELOW

NOT TO SCALE

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PROJECT TITLE

Proposed Residence For:
The Calcaterras
Lot 8 Stone Mill
Wildwood, MO 63040

DRAWING ISSUE / REVISION

REV #	DESCRIPTION	DATE
	Complete	10/29/16

DRAWING TITLE: IRC DETAILS

SHEET NUMBER: D3 OF 9

JOB #

SHEET SIZE: 36" X 24" LANDSCAPE

GENERAL BUILDING NOTES

1. The general or grading contractor is responsible for providing a minimum safe soil bearing capacity of 1500 psf (2000 psf if certified by a Missouri registered soils engineer) for all foundation footings. No foundation footings shall be placed on fill dirt. Design shall conform to Seismic Design Category "A/B" per Sec R301.2.2 of the 2009 International Residential Code for one and two family detached dwellings. All others shall conform to Seismic Design Category C unless soils reports indicate a seismic condition requiring stricter seismic considerations.

2. Backfill shall be free of debris and large rocks, installed in lifts and each lift compacted to fill all voids.

3. Fc=3500 psi @ 28 days (min) concrete, air entrained per table R402.2 of the 2009 IRC or as required by local codes.

4. Concrete basement foundation walls with more than 20% exposure above finish grade to be insulated w/products meeting the following criteria: flame spread rating less than 25; smoke development rating less than 450; can be left exposed without an approved 15 min. thermal barrier (1/2" drywall); R-13 min. insulation value. Extend insulation down to 24" min. below outside finish grade (or to basement slab). Fiberglass batts or blanket. No foam products allowed.

5. Concrete piers to be 30" min. below grade and 24" min. into undisturbed earth. Flare bottom of piers per plan.

6. Basement to have glass area equal to 1/150th of total area.

7. Basement to have vent area to 1% of total area.

8. Basement wall and floors of habitable and occupied spaces are to be water tight and properly reinforced to withstand water pressure as necessary.

9. 6 mil poly vapor barrier required under concrete slabs with lapped joints minimum 0.5".(basement and garage floors affected.)

10. No ground water present-provide drain tile or perforated pipe around perimeter of the outside of the foundation or inside the foundation under the slab. Drain discharge shall be gravity to daylight or be connected to a basement floor sump. Basement area way drains and foundation drain tiles are not to be connected to a sanitary sewer.

A) An approved filter membrane shall be placed on 2" minimum gravel or crushed stone and have 6" minimum cover.

B) Provide sump, 15" in dia. x 18" deep with a fitted cover connected to the foundation drain pipe unless gravity discharge. A sump shall be provided if basement is finished with pump discharge into an approved disposal system.

C) Provide damp-proofing of floor slab of 6 mil polyethylene film below slab with joints in membrane lapped and sealed.

D) Walls shall be dampproofed with a bituminous material, 3 lb. per sq. yd. of acrylic modified cement, 1/8" coat of surface bonding mortar, or by any of the materials permitted for wall waterproofing.

10.1 Groundwater present-provide drainage system inside and outside of foundation.

A) Drainage system shall discharge by gravity to daylight or be connected to an approved sump (15" in diameter by 18" deep fitted cover) having a sump pump that discharges into an approved disposal system. Basement area way drains and foundation drain tiles are not to be connected to a sanitary sewer.

B) Provide waterproofing membrane under floor slab of rubberized asphalt, butyl rubber, neoprene or minimum 6 mil polyvinyl chloride or polyethylene with joints lapped a minimum of 6" and sealed.

C) Foundation to be waterproofed with two ply hot-mopped felts, 6 mil PVC, 40 mil polymer asphalt or 6 mil polyethylene. Joints to be lapped and sealed per manufacturers installation instructions.

D) Waterproofing to be applied from the bottom of the wall to at least 12" above the water table elevation. The remainder of the wall to be dampproofed. All joints in walls and floors to be watertight.

11. Steel and wood beams to have 4" minimum bearing in pocket and grouted solid.

12. All lumber is to conform to Table 1, American Lumber Standards Committee as indicated on this sheet.

13. Roof overhang-2 layers of 15# felt (Type 1 per ASTM D226-95) cemented together from eave 24" inside building wall.. Full 15# felt on all roof surfaces in compliance with 2009 IRC and local ordinances.

14. Attic to have a minimum venting equal to 1/150th of total area. Two (2) remote vents required for each (min) Where ridge or gable vents are used, ½ of the area to be provided by ridge or gable vents and ½ by eave or cornice vents. Ventilation cannot be mechanical only.

15. Aluminum flashing is required at roof/wall and chimney/roof intersections.

16. Corrosion resistant flashing is required at the top and sides of all exterior window and door openings, all wall and roof intersections, changes in roof slope or direction, around all roof openings, intersections with chimneys, intersections of exterior walls and porches & decks, etc.

17. Caulking and sealants: Exterior joints around window and door frames; between wall cavities and window or door frames; between wall and foundation, between wall and roof, between wall panels at penetrations or utility services through walls, floors and roofs, and all other openings in the exterior envelope shall be sealed in an approved manner.

18. All exposed materials for porches, soffits, overhangs, etc. to be approved exterior grade materials.

19. Fireblocking is required at all interior bearing partitions, furred spaces & between stair stringers attop and bottom of run, between stair stringers at the top and bottom of the run. Enclosed accessible spaces under stairs shall have walls, under stair surface and any soffits protected on the enclosed side with ½" gypsum board. Fire blocking required for all spaces between the chimney and the floors and ceilings the chimney passes through with 1" depth batt or blanket or mineral wool or glass fiber supported by strips of metal or metal lath. Fire blocking required around vent, pipe and duct penetrations of ceilings and floors.

20. Firestop all dropped ceilings, soffits, and partitions over 8'-1-1/8" high. Ceilings suspended below wood joists or attached to wood floor trusses to be draft-stopped at 1000 sq. ft. intervals and parallel to the framing members.

21. Top and bottom of all conventional and staggered-stud walls to be firestopped.

22. Double floor joists below parallel partitions.

23. All door and window headers: 2-2x10's unless noted otherwise. All headers to conform to Table 1 ALSC, this sheet U.N.O.

24. All nailing must comply with table R602.3.(1), (2) of the 2009 IRC

25. Drywall installation to be in accordance with the Gypsum Association's recommended practices as to the thickness, nailing and taping on correct spacing and Table R602.3.1 of the 2009 IRC

26. All fire rated drywall assemblies shall be installed in accordance with the specifications of the approved test assembly

27. Water resistant gypsum board is required in bath tub and shower areas (DO NOT INSTALL OVER VAPOR BARRIER)

28. Interior finish materials shall not have flame spread ratings exceeding 200. If batt or blanket insulation including facings, vapor retarders or other vapor permeable membranes are exposed, material shall have a flame spread rating of 25 or less and a smoke development rating of 450 or less. Foam plastics shall have a flame spread rating of 75 or less and a smoke development rating of 450 or less

29. Air infiltration rate for windows shall not exceed 0.5 CFM per foot of sash track. Doors shall not exceed 0.5 CFM per sq. ft. of door area. Glazing in any portion of a building wall enclosing bathtubs, showers, hot tubs, etc. which is located less than 60" above a standing surface shall be tested and labeled in accordance with CPSC 16 CFR Part 1201 Standard as a Type I or Type II category safety glazing material.. Any glazing material exceeding 9 s.f. in area is required to be safety glazing in accordance with the following categories:

a. Glazing in doors enclosing bathtubs, showers, hot tubs, whirlpools, saunas, steam rooms, spas, (TYPE II only), indoor or outdoor pools which is located 60" or less, measured horizontally, from the water's edge and less than 60" vertically above a standing surface

b. Any glazing material within a 24" a4rc of either vertical edge of the door in a closed position and if the bottom edge of he glazing material is less than 60" above the floor.

c. Fixed or operable panels that have individual panes greater than 9 ft. and bottom edge less than 18" above the floor and top edge more than 36" above floor and walking surface within 36" horizontally

d. All doors

e. Glazing in hand or guard rails

f. Glazing adjacent to stairways, landings and ramps within 36" horizontally of the walking surface. And glazing adjacent to stairways within 60" horizontally of the gbottom tread in any direction when the exposed surface of the glass is less than 60" above the tread nosing

Bathrooms must have 50 CFM min. exhaust to exterior; Kitchen range exhaust fan and/ or down-draft cook top must have 100 CFM min. and 599 CFM max. (Also see note 53) exhaust to exterior; and clothes dryer must be vented to exterior and ducted independent of all other systems through a min. 4" dia. smooth duct. Maximum length of duct to be 25 ft.

31. House to have aluminum gutters and downspouts. Do not connect to sanitary sewers

32. Downspouts shall direct water away from foundation so as to prevent erosion

33. It is the contractor's responsibility to see that the stairway, handrails, balusters and connections are designed, fabricated and installed in accordance with 2009 IRC code requirements as required by local ordinance. Handrails shall either meet A) circular cross-section with minimum diameter of 1-1/4" but not more than 2" B)other approved shapes having a maximum graspable perimeter dimension of 6-1/4", or minimum 4" graspable perimeter dimension. Maximum allowable handrail projection into stair width is 4 ½". Handrails must be continuous and return to either a newel post or wall at each end. Stairways require lighting w/illuminated switches, 10 footcandles min., measured at every tread nosing. Ext. stairs 1 footcandle

34. All wiring copper w/ ground and comply with all national, state, and local codes. Closet lighting per NEC 410-8, kitchen island receptacles per NEC 210-52. Receptacles for ranges and clothes dryers to be 3 pole ground type. Bedroom circuits to be arc protected

35. Grounding: If the underground metal water pipe is used as the grounding electrode, the connection must be made to the pipe within 5' of the point of entrance to the building. A supplemental grounding electrode shall be provided as specified in NEC 250-50 and 250-53

36. All electrical outlets in kitchen, baths, basement, garage and all other exterior electric outlets to be GFCI type. All circuits in bedrooms to be AFCI.

37. Garage/house separating partitions and garage ceiling constructed with 5/8" type X gypsum board (1 hour fire rated assembly) Basement garage or garage with 2nd story above: Ceiling and floor separating garage from dwelling to be 1 hour fire rated assembly of 5/8" type X gypsum board. Soffit down around any mechanical ductwork with 5/8" type X gypsum board. Garage/house separating partitions to be 1 hour fire rated each side of stud. All bearing walls, beams, and columns/wood posts to be wrapped with 1 hour assembly of 15/8" type X gypsum board. All soffits, eaves and overhangs within 5 ft. of a property line must be fire rated. See plans.

38. Smoke detectors to be AC powered with battery backup, UL listed and installed in accordance with NFPA 72-07. Detectors to be interconnected. Hallway detectors shall be located upstream from return air grilles. All bedrooms and each level of a residence must have a carbon monoxide detector. (UL 2034-2008/9)

39. No-lead solder required on all copper water supply piping

40. Plumbers Note: The incoming water service line for dwelling shall be sized as follows: 1" service line-up to 3 ½ baths, 1-1/4" service line-up to 6 baths, and 1 ½" service line-more than 6 baths. This count includes 1-kitchen sink with dishwasher, 1 clothes washer supply and laundry sink, and 2-1/2" exterior continuous use hose bibbs Roughed-in fixtures shall be included in this count.

41. Water service pipe and the building sewer are to be a minimum of 10 ft. apart horizontally

42. Door separating garage from the house is to be 1-3/4" solid core (1 hour fire rated) Door sill to be 4" minimum above garage floor

43. All footings shall be placed on virgin soil (undisturbed subgrade)

44. Finish grade to be 8" min. below top of foundation (6" min. for full masonry walls)) and slope away from foundation6" IN 10 FT.All areas sloped away to lower elevations

45. Heating contractor to furnish duct layout and heat loss/gain calculations

46. Roof trusses to comply with AFPA NDS-91 and TPI 1-2002; and roof truss manufacturer to furnish Missouri engineer-sealed drawings.

47. Parallam, Microlam, etc installations to be in strict accordance with manufacturer's recommendations. Minimum properties of all structural lumber assemblies to meet or exceed E=1.7, Fv=285 psi, Fb=2600 psi

48. All wood connections shall be in strict accordance with current AITC standards

49. The structure specified on this drawing set is certified as designed. Any additional design work including site plan, lot survey, mechanical details,. Any special foundation design if required soil conditions cannot be met is the responsibility of the builder unless specifically addressed in this set by the design professional

50. Insulating requirements: Roof/ceiling min. R-30; Frame walls and band joists min.R-13; Floor over unheated crawl space min. R-19; Basement foundation wall min. R-13; Slab on grade floor min. R-10 (unheated) R-15 (heated); Windows and doors max. U-.40

51. Entry doors: Locks with thumb turns on the inside are permitted. Inside key operation is permitted provided the key cannot be removed from the lock when locked from the inside

52. Each gas appliance shall have a gas shutoff valve and ground joint union. A sediment trap is required at each appliance or group of appliances. Gas piping shall be identified at intervals of no more than 5 ft. Vibration isolators shall be installed between mechanical equipment and metal ducts.

53. Vibration isolators shall be fabricated from approved materials and shall not exceed 1" in length. Minimum appliance clearance from combustibles is 18" and minimum clearance in front of appliances for services 30" Make-up air shall be provided during the operation of kitchen exhaust systems of 600 CFM or greater exhaust flow. (See M1502.4)

54. Cutting, notching and/or boring holes in wood beams, joists, rafters, or studs shall not exceed the limitations noted in R602.3.1 through 4, R502.8 and R802.7 of the 2009 IRC Code and as required by local ordinance. Stud reinforcement to be done in accordance with R602.6 of the 2009 IRC

55. Nailing and fastening of floor, roof/ceiling, wall and roof sheathing, and gypsum const. shall be in accordance with R602.3.1 through 4 of the 2009 IRC in compliance with local ordinance.

56. Combustible trim and mantles attached to the fireplace face shall be a minimum of 6" from the opening. Combustible material above & projecting more than 1 ½" from a fireplace face wall shall have a minimum clearance of 12" above a fireplace opening

57. Minimum depth of masonry fire box to be 20". Size of chimney connection to the smoke chamber shall have a minimum of 50 sq. in. in cross-sectional area.

58. The walls of the throat and smoke chamber shall be a minimum of 8" solid masonry or 4" of solid masonry with at least 1" of insulating refractory masonry

59. Masonry chimneys shall be constructed of 4" minimum solid masonry or 12" rubble stone masonry & shall be lined with minimum 5/8" thick fire-clay lining or other approved lining

60. Fireplace liner shall extend a minimum 4" into the throat of a masonry fireplace

61. Hanging light fixtures, track lighting & ceiling fans are not to be installed within 36" horizontal of bath tub, measured from outside edge of tub & 96" vertically from top of tub rim. Electric receptacles are prohibited in bath tub or shower space. Shower floors and shower, bathtub/shower enclosure walls to be constructed of smooth noncorrosive, nonabsorbant and waterproof materials to a height of 72" min. above floor

62. General contractor to affix a metal or of other durable material, sign reading "WARNING-TRUSSES NOT DESIGNED FOR STORAGE" in attics on each side of scuttle hole openings, 36" above bottom chord and within 18" of edge, 40 sq. in. in area using ¾" letters. Additionally a 2x4 horizontal railing is to be affixed on each side – 24" min. height and 36" max. height

63. All construction to be in accordance with the 2009 IRC, 2008 National Electric Code, the ~~2009 International Mechanical Code~~ and the 2009 Uniform Plumbing Code and all local ordinances unless otherwise indicated. Where construction does not meet the 2009 IRC, construction documents will be supplied either by the contractor or design professional of record showing compliance with the 2009 International Building Code.

64. Windows: All skylights shall be double-glazed with maximum U value of 0.60. Windows for natural ventilation of unfinished basements may be single glazed. All other windows shall comply with one of the following conditions: For window areas that do not exceed 24% of the gross insulated frame wall area or the entire building:

a) Use double glazed windows with ½" minimum (gross overall thickness) clear glass, with either aluminum frame with thermal break, vinyl frame, wood frame, or fiberglass frame. OR

b) Use a window having a maximum overall U value not more than 0..40

For window areas greater than 24% and not more than 30% of the gross insulated frame wall area of the entire building, use one of the following options: Use double glazed windows with ½" min. (gross overall thickness) clear glass, with either aluminum frame with thermal break, vinyl frame, wood frame or fiberglass frame with one of the following options:

1. Treated with Low E film
2. Exterior wall sheathed with a minimum ½" sheathing with an R- value of R3 min.
3. Max U value of all windows shall not exceed 0.40

65. Contractor to install sign stating the house is equipped with dryer duct clean-outs when clean-outs are installed.

66. Mechanical contractor is required to install a programmable thermostat.

67. Electrical contractor is to install at least one communication outlet within the dwelling and cabled to the service provider demarcation point. The communication system shall have an interior bonding terminal.

68. Foam insulation products to be separated from interior by 1/2" thick gypsum.

69. No exposed or partially exposed or pendant lights allowed in closets. Maintain 12" clearance between light fixture and storage for incandescent lighting and 6" clearance for flourescent lighting.

70. Shower, shower floor and shower/bath enclosures to be smooth, non-corrosive, non-absorbent and waterproof up to 6 ft. 0 in. above floor.

71. Clearance for all mechanical equipment shall be 18 inches sides and back and 30 inches front.

72. All bedroom, habitable attics and basement to have a minimum of one egress window with 44 inches maximum dimension from finished floor to bottom of clear opening, 20 inches minimum width of clearance and 24 inches minimum height of clear opening. The shall also be a minimum open area for each egress window of 5.7 sq. ft. Egress openings in basement walls shall conform to the detail on this sheet.

73. The contractor shall insure all fuel gas appliances meet the requirements of the 2009 IRc, specifically Sec G2407-Combustion and Ventilation Requirements, Sec. G2408 Installation Requirements, Cec G2409, Clearance Requirements

74. Roof Valleys (Open) Either 24" wide metal per Table 905.2.8.2 or two plies of mieral surfaced roll roofing, ASTM D3909 or D6380 Class M-bottom layer 18 w., top layer 36" w. (Closed)-one ply smooth roll roofing ASTM D6380, 3 in. w.or self-adhesive polymer ASTM D1970

75. A waterproof GFCI receptacle is required within 25 ft. of the outside A/C condenser

76. Wind speed criteria for this design is based on 90 mph (3 sec. gust) criteria per Sec. R301.2(4) of the 2009 IRC. Wall and roof connections in this design are adequate to resist these wind loads.

77. The structure specified on these plans will be termite damage protected by the contractor according to R317 and R318 of the 2009 IRC.

78. An approved ice and water shield shall be provided on all roof edges in compliance with Sec. R905.2.7.1 of the 2009 IRC.

SOUTHERN PINE REFERENCE DESIGN VALUES

Based on SPIB Grading Rules and AWC National Design Specification® Values in pounds per square inch (psi)

Table 1 Dimension Lumber – 2" to 4" thick, 2" and wider Effective June 1, 2013

Based on Normal Load Duration and Dry Service (MC≤19%)

Size	Grade	Bending F_b	Tension Parallel to Grain F_t	Shear Parallel to Grain F_v	Compression Perpendicular to Grain $F_{c\perp}$	Compression Parallel to Grain F_c	Modulus of Elasticity E	E_{min}
2" to 4" thick,	Dense Select Structural	2700	1900	175	660	2050	1,900,000	690,000
	Select Structural	2350	1650	175	565	1900	1,800,000	660,000
	Non-Dense Select Structural	2050	1450	175	480	1800	1,600,000	580,000
2" to 4" wide	No.1 Dense	1650	1100	175	660	1750	1,800,000	660,000
	No.1	1500	1000	175	565	1650	1,600,000	580,000
	No.1 Non-Dense	1300	875	175	480	1550	1,400,000	510,000
Includes:	No.2 Dense	1200	750	175	660	1500	1,600,000	580,000
2x2 →	No.2	1100	675	175	565	1450	1,400,000	510,000 ←
2x3	No.2 Non-Dense	1050	600	175	480	1450	1,300,000	470,000
2x4	No.3 and Stud	650	400	175	565	850	1,300,000	470,000
3x3	Construction	875	500	175	565	1600	1,400,000	510,000
3x4	Standard	475	275	175	565	1300	1,200,000	440,000
4x4	Utility[1]	225	125	175	565	850	1,200,000	440,000
2" to 4" thick,	Dense Select Structural	2400	1650	175	660	1900	1,900,000	690,000
	Select Structural	2100	1450	175	565	1800	1,800,000	660,000
	Non-Dense Select Structural	1850	1300	175	480	1700	1,600,000	580,000
5" to 6" wide	No.1 Dense	1500	1000	175	660	1650	1,800,000	660,000
	No.1	1350	875	175	565	1550	1,600,000	580,000
	No.1 Non-Dense	1200	775	175	480	1450	1,400,000	510,000
Includes: →	No.2 Dense	1050	650	175	660	1450	1,600,000	580,000 ←
2x5 2x6	No.2	1000	600	175	565	1400	1,400,000	510,000
3x5 3x6	No.2 Non-Dense	950	525	175	480	1350	1,300,000	470,000
4x5 4x6	No.3 and Stud	575	350	175	565	800	1,300,000	470,000
2" to 4" thick,	Dense Select Structural	2200	1550	175	660	1850	1,900,000	690,000
	Select Structural	1950	1350	175	565	1700	1,800,000	660,000
	Non-Dense Select Structural	1700	1200	175	480	1650	1,600,000	580,000
8" wide	No.1 Dense	1350	900	175	660	1600	1,800,000	660,000
	No.1	1250	800	175	565	1500	1,600,000	580,000
→	No.1 Non-Dense	1100	700	175	480	1400	1,400,000	510,000 ←
Includes: 2x8	No.2 Dense	975	600	175	660	1400	1,600,000	580,000
3x8	No.2	925	550	175	565	1350	1,400,000	510,000
	No.2 Non-Dense	875	500	175	480	1300	1,300,000	470,000
4x8[2]	No.3 and Stud	525	325	175	565	775	1,300,000	470,000
2" to 4" thick,	Dense Select Structural	1950	1300	175	660	1800	1,900,000	690,000
	Select Structural	1700	1150	175	565	1650	1,800,000	660,000
	Non-Dense Select Structural	1500	1050	175	480	1600	1,600,000	580,000
10" wide	No.1 Dense	1200	800	175	660	1550	1,800,000	660,000
→	No.1	1050	700	175	565	1450	1,600,000	580,000 ←
	No.1 Non-Dense	950	625	175	480	1400	1,400,000	510,000
Includes:	No.2 Dense	850	525	175	660	1350	1,600,000	580,000
2x10	No.2	800	475	175	565	1300	1,400,000	510,000
3x10	No.2 Non-Dense	750	425	175	480	1250	1,300,000	470,000
4x10[2]	No.3 and Stud	475	275	175	565	750	1,300,000	470,000
2" to 4" thick,	Dense Select Structural	1800	1250	175	660	1750	1,900,000	690,000
	Select Structural	1600	1100	175	565	1650	1,800,000	660,000
	Non-Dense Select Structural	1400	975	175	480	1550	1,600,000	580,000
12" wide[3]	No.1 Dense	1100	750	175	660	1500	1,800,000	660,000
→	No.1	1000	650	175	565	1400	1,600,000	580,000 ←
	No.1 Non-Dense	900	575	175	480	1350	1,400,000	510,000
Includes:	No.2 Dense	800	500	175	660	1300	1,600,000	580,000
2x12	No.2	750	450	175	565	1250	1,400,000	510,000
3x12	No.2 Non-Dense	700	400	175	480	1250	1,300,000	470,000
4x12[2]	No.3 and Stud	450	250	175	565	725	1,300,000	470,000

(1) For Utility, design values apply to 4"-wide lumber only. (2) For lumber 4" thick and 8" or wider, multiply the F_b value by $C_F = 1.1$. (3) For lumber wider than 12", multiply these 12"-width design values for F_b, F_t and F_c by $C_F = .90$, and use these 12"-width design values for the other properties.

The Southern Forest Products Association (SFPA) does not test lumber or establish design values. Neither SFPA, nor its members, warrant that the design values are correct, and disclaim responsibility for injury or damage resulting from the use of such design values.

SELECT SIZE AT INDICATED GRADE (→)

The Professional Architects seal affixed to this sheet indicates that the named Architect has prepared or directed the preparation of the material shown only on this sheet. Other drawings and documents not exhibiting this seal shall not be considered prepared by or the responsibility of the undersigned.

STATE OF MISSOURI
FRANKLIN D. WISEMAN, JR.
NUMBER A-2003027170
ARCHITECT
10-2-16

DATE:

Frank Wisemen
Missouri License #: A-2003027170

ARCHITECTURE

Frank Wiseman
(Sole Proprietor)
Missouri License #: A-2003027170
4442 Friarwood Dr., Alton, IL 62002
Phone: 618-225-7472
E-mail: fdwjr@charter.net

Pamela L. Alsing
(Not a Licensed Architect)
3745 Yaeger Rd, St. Louis, Mo 63129
Phone: 314-845-9723
E-mail: pamalsing@gmail.com

WHALEN
Custom Homes

338 S. Kirkwood Road
Kirkwood, MO 63122
Sales: 314-575-7645
Office: 314-821-1745

PROJECT TITLE

Proposed Residence For:
The Calcaterras
Lot 8 Stone Mill
Wildwood, MO 63040

DRAWING ISSUE / REVISION

REV #	DESCRIPTION	DATE
	Complete	10/29/16

DRAWING TITLE
GENERAL NOTES

SHEET NUMBER
D4 OF 9

JOB #

SHEET SIZE 36" X 24" LANDSCAPE

EXTERIOR

SHINGLES
- Tamko 30 Yr Architectural Heritage- Weathered Wood

SIDING/SOFFIT/FASCIA
- JamesHardie HardiePlank Lap Siding- Cobblestone
- Mastic Aluminum Soffit/Fascia- Linen

BRICK
- Old Indiana Tudor

STONE
- Grayhawk

WINDOWS
- Andersen 200 Series- White

FRONT DOOR
- Therma Tru S897 Smooth-Star-Painted Black, White Sidelights

SHUTTERS
- Cedar Per Plan- Painted Black

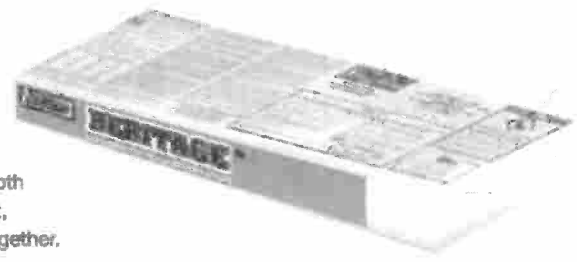
GARAGE DOOR
- Delden Classica Series- T1, 8x8, 16x8 Color: Linen

COLUMNS
- 12" HBG Permacast Round Fluted Columns

HERITAGE®
LAMINATED ASPHALT SHINGLES

PRODUCT DATA

MANUFACTURED IN JOPLIN, MO



HERITAGE® shingles have a double-layer fiberglass mat construction with a random-cut sawtooth design. The two layers of mat are coated with asphalt, surfaced with mineral granules and then laminated together. They also include a self-sealing strip of asphalt.

USES: For application to roof decks with inclines of not less than 2 inches per foot. For slopes between 2 inches and 4 inches per foot, refer to application instructions for low slope.

- Rustic beauty of wood shakes.
- Shadowtone feature adds dimension, depth of appearance and curb appeal.
- 30-year Limited Warranty, 15-year Full Start, 5-year Transferability.

SHINGLES BEGIN TO AGE AS SOON AS THEY ARE EXPOSED TO NATURE. BUILDINGS EXPERIENCE AGING FACTORS DIFFERENTLY, SO IT IS DIFFICULT TO PREDICT HOW LONG SHINGLES WILL LAST. THAT'S WHY TAMKO PROVIDES A LIMITED WARRANTY, THAT INCLUDES A BINDING ARBITRATION CLAUSE AND OTHER TERMS AND CONDITIONS WHICH ARE INCORPORATED HEREIN BY REFERENCE. YOU MAY OBTAIN A COPY OF THE LIMITED WARRANTY AT TAMKO.COM OR BY CALLING 1-800-641-4691.

CERTIFICATIONS

UL Listed for Class A Fire Rating:	UL 790/ASTM E 108, Class A
UL Classified for Wind Resistance:	ASTM D 7158, Class H and ASTM D 3161, Class F
UL Classified in accordance with:	ASTM D 3462 and ICC-ES Acceptance Criteria AC438
UL Evaluation Reports:	UL ER2919-01 and UL ER2919-02
Florida Building Code Approved:	FL 18355

COLORS

AMERICA'S NATURAL COLORS

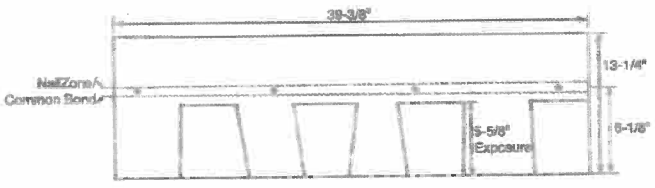
- Black Walnut
- Harvest Gold
- Mountain Slate
- Natural Timber
- Painted Desert
- Thunderstorm Grey

CLASSIC HERITAGE COLORS

- Antique Slate
- Olde English Pewter
- Oxford Grey
- Rustic Black
- Rustic Cedar
- Rustic Evergreen
- Rustic Hickory
- Rustic Slate
- Weathered Wood

PRODUCT DATA†

Shingle size	13-1/4" x 39-3/8"
Exposure	5-5/8"
Coverage per Square††	98.4 sq.ft.
Shingles per Square††	64
Bundles per Square††	3



† All values stated as nominal.
†† When applied according to instructions.

CAUTION: This product contains crystalline silica and formaldehyde. Crystalline silica and formaldehyde have been classified as "known" human carcinogens by the International Agency for Research on Cancer (IARC) and the National Toxicology Program. This product also contains oxidized asphalt. Occupational exposures to oxidized asphalt and its emissions during roofing have been classified by IARC as a "probable human carcinogen". Oxidized asphalt also contains Polycyclic Aromatic Hydrocarbons some of which have been classified by IARC as known or probable human carcinogens. The physical nature of this product may help limit any inhalation or dermal hazard during application and/or removal. However, physical forces such as sawing, grinding or drilling during demolition work and heating or burning may increase the inhalation or dermal exposure hazard of this product. Take precautions to prevent breathing and contact with skin.

Information included in this product data sheet was current at time of printing. To obtain a copy of the most current version of this product data sheet, visit us online at tamko.com or call us at 800-641-4691

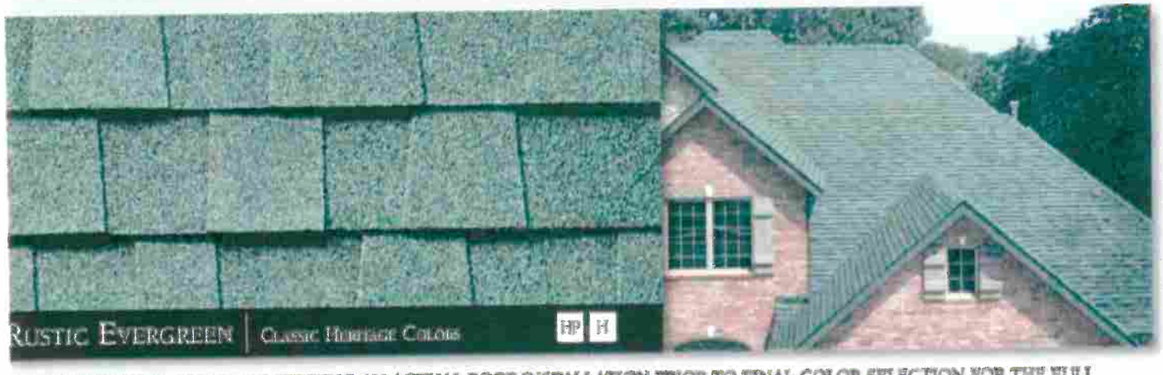
TAMKO Logo, Heritage, and TAMKO are registered trademarks of TAMKO Building Products, Inc.

TAMKO BUILDING PRODUCTS

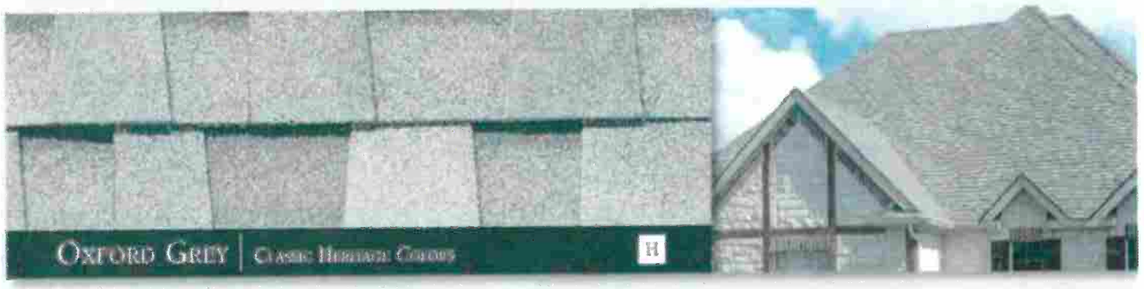
P.O. Box 1404 • Joplin, MO 64802-1404 • 1-800-641-4691 • tamko.com

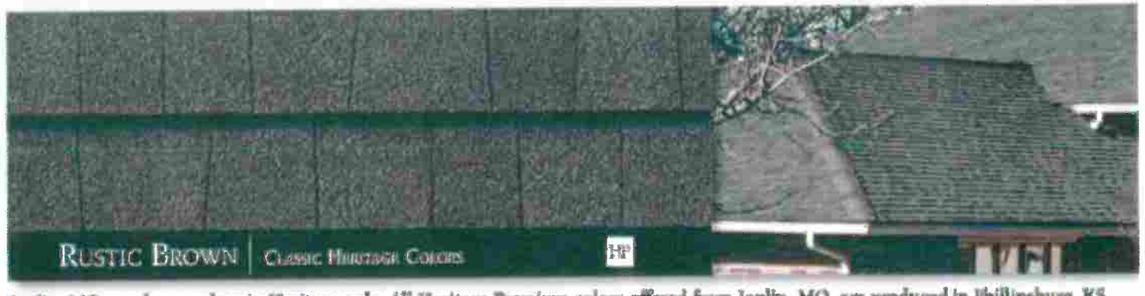
Rev. 07/2016

HP HERITAGE® Premium Shingles H HERITAGE® Shingles Symbols shown beside each color name denote product options and availability.



NOTE: TAMKO® RECOMMENDS VIEWING AN ACTUAL ROOF INSTALLATION PRIOR TO FINAL COLOR SELECTION FOR THE FULL IMPACT OF COLOR BLENDING AND PATTERNS. REPRODUCTION OF THESE COLORS IS AS ACCURATE AS OUR PRINTING WILL PERMIT.





Joplin, MO, produces colors in Heritage only. All Heritage Premium colors offered from Joplin, MO, are produced in Phillipsburg, KS. Rustic Redwood and Rustic Brown swatch photos are Phillipsburg Heritage Premium colors. All other swatch photos shown in this

Technical Attributes
HardiePlank™ Lap Siding

Effective 12/2007

James Hardie Building Products, Inc.

HardiePlank™ Lap Siding has been comprehensively tested and displays the following typical physical properties.

	General Property	Test Method	Unit or Characteristic	Requirement	Result
PHYSICAL ATTRIBUTES	Dimensional Tolerances	ASTM C1185	Length	± 0.5%	Pass
		ASTM C1185	Width	± 0.5%	Pass
		ASTM C1185	Thickness	± 0.04 in.	Pass
		ASTM C1185	Squareness	< 1/32 in./ft of length	Pass
		ASTM C1185	Edge Straightness	< 1/32 in./ft of length	Pass
	Density, lb/ft^3	ASTM C1185		As reported	< 83
	Water Absorption, % by mass	ASTM C1185		As reported	< 36
	Water Tightness	ASTM C1185	Physical Observations	No drop formation	Pass
	Moisture Content, %	ASTM C1185		As reported	~ 5
	Moisture Movement, % Linear Change	ASTM C1185	30 – 90% Relative Humidity	As reported	≤ 0.05
	Flexural Strength	ASTM C1185	Wet conditioned, psi	> 1015 psi	Pass
		ASTM C1185	Equilibrium conditioned, psi	> 1450 psi	Pass
THERMAL	Thermal Conductivity	ASTM C177	K_{eff} = BTU/hr-ft^2-° F	As reported	2.07
	Actual Thermal Conductivity	ASTM C177	(K_{eff})	As reported	6.62
	Thermal Resistance	ASTM C177	$R=1/K_{eff}$	As reported	0.48
	Actual Thermal Resistance	ASTM C177	(R)	As reported	0.15
DURABILITY	Warm Water Resistance	ASTM C1185	Physical Observations	No visible cracks or structural alteration	Pass
		ASTM C1185	Warm Water, % wet retention	≥ 85%	Pass
	Heat/Rain Resistance	ASTM C1185	Physical Observations	No visible cracks or structural alteration	Pass
	Freeze/Thaw Resistance	ASTM C1185	Physical Observations	No visible cracks or structural alteration	Pass
		ASTM C1185	Mass Loss, %	≤ 3.0	Pass
		ASTM C1185	Freeze/Thaw, % wet retention	≥ 80%	Pass
	UV Accelerated Weathering Test	ASTM G23	Physical Observations	No cracking, checking, or crazing	Pass
FIRE CHARACTERISTICS	Surface Burning Characteristics	ASTM E84	Flames Spread Index (FSI)	0	Pass
		ASTM E84	Smoke Developed Index (SDI)	≤ 5	Pass
		ASTM E84	Fuel Contributed	0	Pass
			NFPA Class	As reported	A
			Uniform Building Code™ Class	As reported	1
			International Building Code® Class	As reported	A
	Noncombustibility	ASTM E136	Noncombustible	Pass/fail	Pass
	Fire Resistance Rated Construction	ASTM E119	Fire Resistance Rating	1-hour	Note 1

Note 1: Listed on Warnock Hersey and ICC-ES NER-405

NOTE: In addition to the above product properties, building assemblies incorporating this product have been tested for fire, acoustic and impact performance.

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Additional installation information, warranties, and warnings are available at www.jameshardie.com

JamesHardie

THIS TECHNICAL SUPPLEMENT MUST BE READ IN CONJUCTION WITH THE CURRENT TECHNICAL PRODUCT LITERATURE. JAMES HARDIE BUILDING PRODUCTS MUST BE INSTALLED IN ACCORDANCE WITH THE APPLICABLE TECHNICAL PRODUCT LITERATURE. ALL COMPONENTS AND ACCESSORIES MUST BE INSTALLED IN ACCORDANCE WITH THE RESPECTIVE MANUFACTURER'S SPECIFICATIONS. FOR THE PRODUCT WARRANTY, TERMS AND CONDITIONS REFER TO THE APPLICABLE JAMES HARDIE TECHNICAL PRODUCT LITERATURE

WHALEN
Custom Homes

Cobble Stone Example

Customer Service South <SouthCS@jameshardie.com>
To: "jennifer@whalencustomhomes.com" <jennifer@whalencustomhomes.com>

Fri, Oct 28, 2016 at 10:34 AM

Good Morning,

Please see the below

Thank you,

Katie Wiese

James Hardie Building Products

Customer Operations Exteriors

Phone: 888-888-3408

Fax: 800-968-7040

E-mail: SouthCS@jameshardie.com

customerfeedback@jameshardie.com

James Hardie will be closed for Thanksgiving, November 24-25th.

Smooth-Star

Create curb appeal with plenty of color options. Smooth-Star features crisp, clean lines with a smooth, paintable surface. A much more attractive and durable alternative to steel, it has the look of a real wood door with all the benefits of fiberglass. From curb appeal to convenience, Smooth-Star entry doors are made to keep up with your lifestyle.

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More Information

AccuGrain Technology

System Components

TruDefense® System

Quality Testing

Home Styles Guide

Design Your Door

Choose your door and then personalize it with our wide variety of options.

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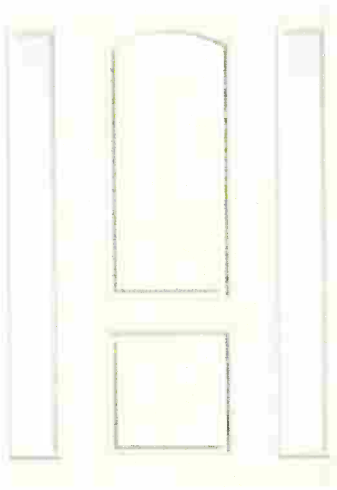


Pick Door Height: 6'8" Doors 8'0" Doors

Pick a Configuration: 6 Available Styles

Pick a Door Style: 19 Available Styles

Pick a Glass Style: 28 Available Styles

Add Left Sidelite: 4 Available Styles

Add Right Sidelite: 4 Available Styles

View Details | Where to Buy | Try It On

View style number(s), features and additional information.

Available Door Sizes:
- 2'8" x 8'0"
- 2'10" x 8'0"
- 3'0" x 8'0"

Dimensional Data

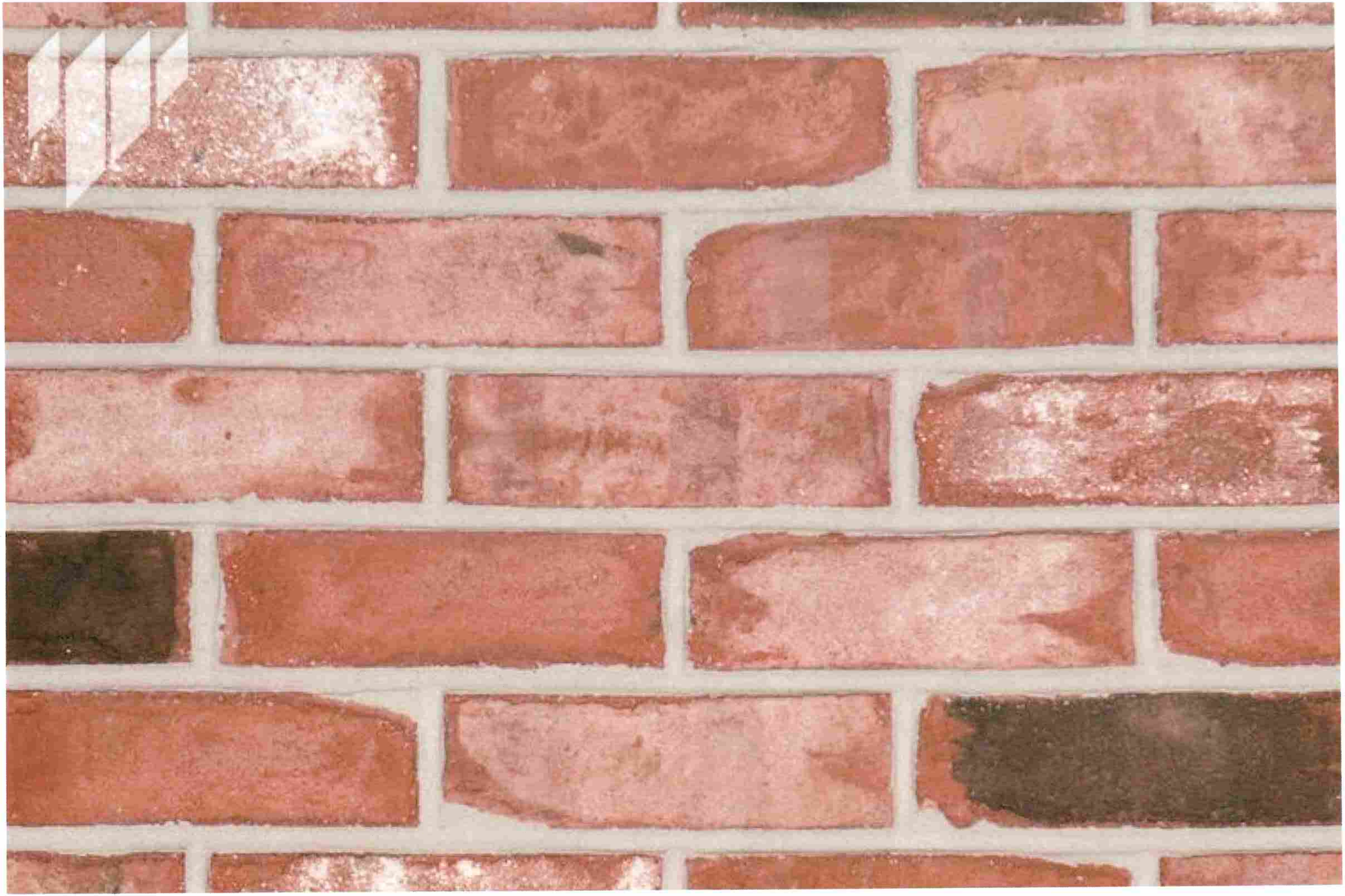
Glass: No Glass

Finish Options:

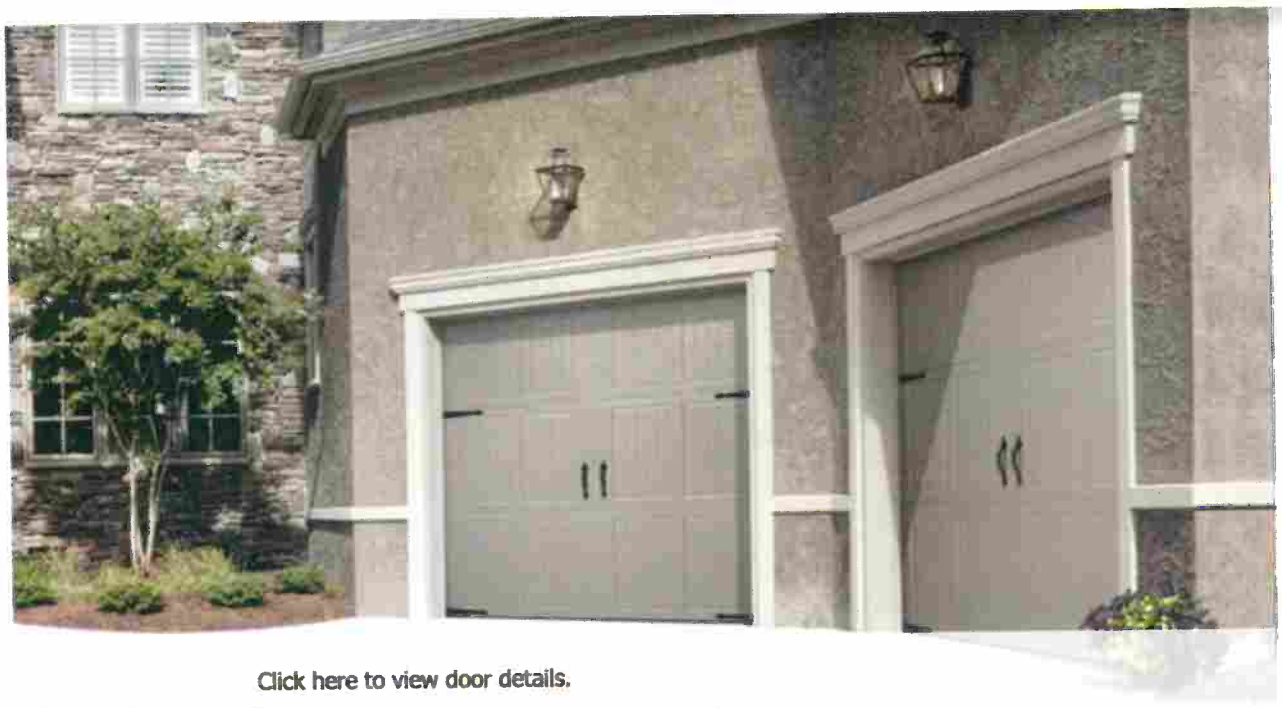
Paintable

Installation:
Installation Instructions

LIFETIME LIMITED WARRANTY



AMARR® CLASSICA®



Click here to view door details.

Looks can be deceiving with Amarr® Classica® garage doors. From a distance, you see wood. Up close, the garage door is durable, low-maintenance steel. Authentic carriage house looks, modern functionality to complement your home's exterior.

R-Value	6.64 - 13.35
Maintenance	Low
Safety	High
Warranty	Lifetime
Price	$$$

LARGER SIZED WINDOWS

See the difference. Bigger windows and more vertical-looking garage doors provides a more authentic carriage house look. **VIEW MORE**

HIGH R-VALUE

Our garage doors have superior energy efficiency to maintain the temperature in your garage every season. **LEARN MORE**

SAFE PLUS PINCH PROTECTION

Garage doors designed to promote hand and finger safety. **LEARN MORE**

WIND LOAD GARAGE DOORS

Garage doors reinforced to meet or exceed the wind building codes in your area. **LEARN MORE**

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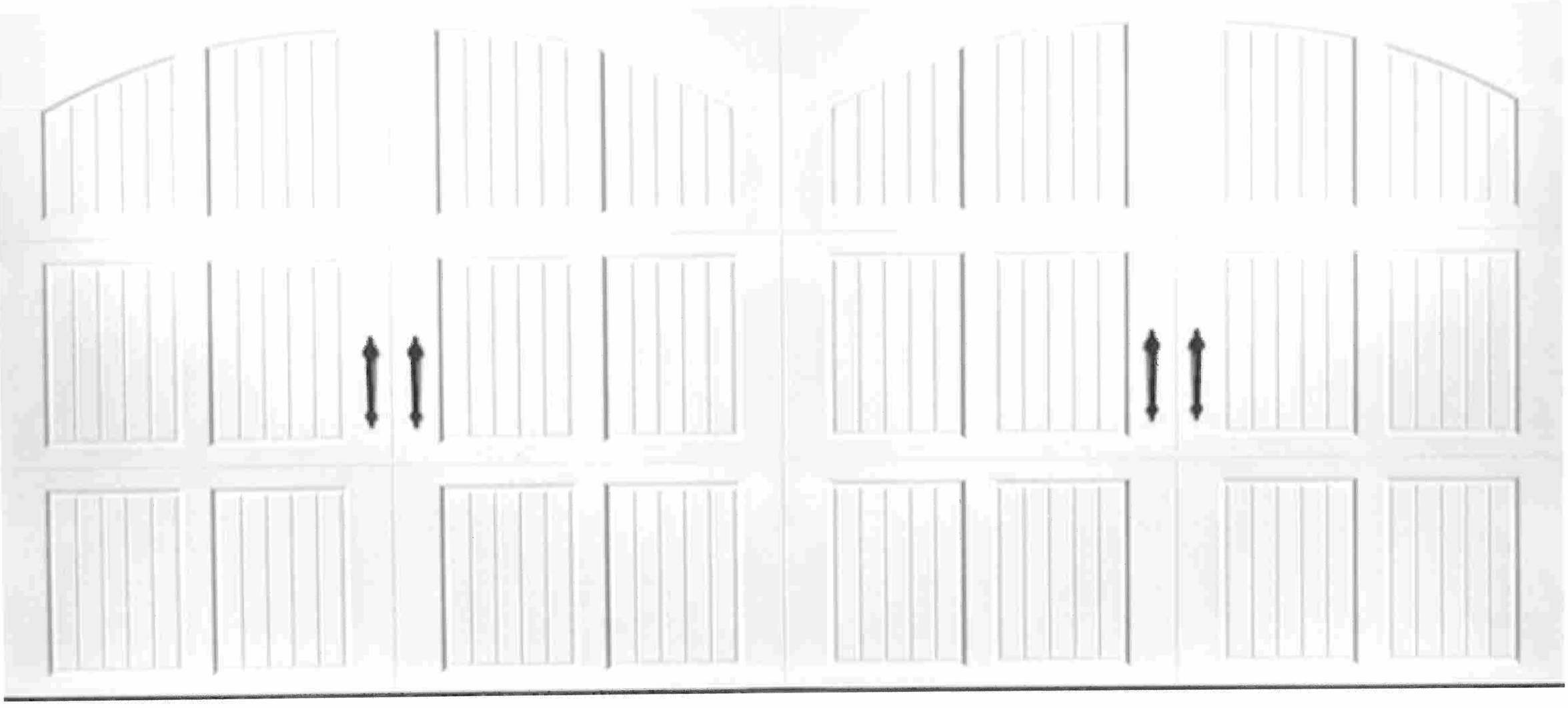
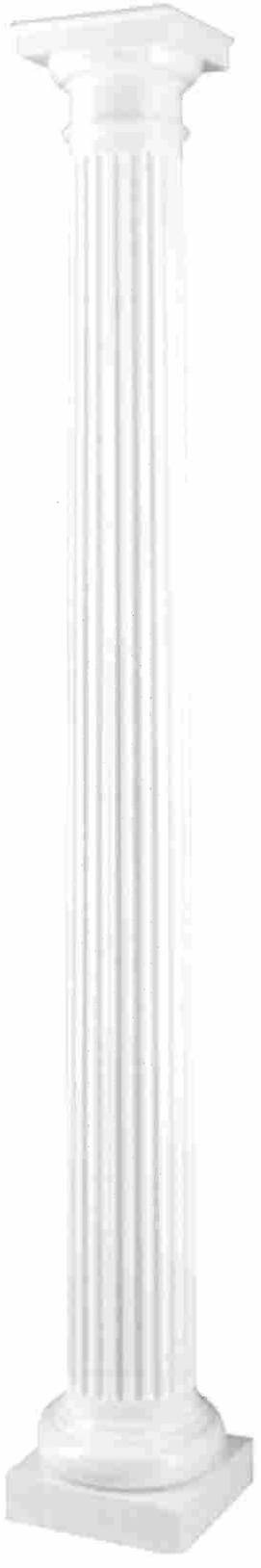


MASTIC LINEN FASCIA AND SOFFIT

Envoy Quad 4" U-Groove Soffit - Center Lanced



WILDWOOD®

Architectural Guidelines

Prepared by the Architectural Review Board

"Planning Tomorrow Today"

DRAFT

Statement of Intent

It is the intent of the City of Wildwood to encourage design creativity while maintaining compatible architecture throughout the city. Compatible does not mean 'the same', it means that we can utilize differing architectural styles so long as the design reflects the sense of place of the specific area and creates a continuity of character. This definition purposefully allows quite a bit of latitude. It is the purpose of the Architectural Review Board (ARB) review process to enforce this definition while entertaining the presenters own design philosophy for any given project.

The ARB reserves the right to respectfully disagree with presenters and therefor make suggestions on design or to outright reject any proposal.

MISCELLANEOUS

Site design: Aside from compliance with all ordinances, planning and zoning, and civil engineering requirements, and all developments shall be 'designed' so that they are compatible with neighboring properties. Character of the neighborhood shall be maintained and may take precedence over other minimum requirements. In general, residential or commercial buildings should face the pedestrian way, should address the direction of incoming travel, and in the case of corner lots, structures shall address both public directions. Commercial buildings shall not turn their back on main roads or intersections regardless of whether or not there are access roads behind them. A well-engineered site is no more important than a well-designed site.

Work with the site conditions and not against them. Consider the sun to building orientation, natural drainage patterns, approach, etc. before simply dropping in a building.

Colors shall be consistent with the character of the local area of the project and with the City overall. As a general direction for designers, one can use the Benjamin Moore Williamsburg Color Collection as a starting point. These are generally historical colors of earth tone bases.

Exterior materials that do not have an integral color shall be painted or stained. The overall color palette shall be consistent and compatible throughout the project and shall compliment the surrounding environment.

Trim shall be of one color, which may or may not be the same as the wall color. However, trim color shall complement those used on walls.

Storefront colors shall be complimentary to the building. Bright colors are generally discouraged and subject to ARB approval.

Accent color may be used for items such as the front door and shutters subject to approval of the ARB.

Masonry and mortar colors shall be selected from earth tone palettes. Natural mortar is acceptable.

Rough Siding and exterior wood shall be stained or finished as approved by the ARB, except wood roof shingles that may be left to age naturally.

Light fixtures on commercial buildings shall be mounted to walls, have LED, incandescent or metal halide bulbs and may not produce glare on adjacent properties. Light fixture cut sheets shall be submitted to the ARB along with design documents.

Picket fences shall be no greater than 3.5 feet high at front yards. Board fences may not exceed 6 feet and only used in side and rear yards. Chain link fences are not permitted.

Retaining walls shall be an integral part of a building design and will be reviewed on a case by case basis.

Free standing garages shall maintain the general character of the main building.

Misc. Façade Compositions:

Fenestration patterns and percent of coverage shall be consistent with surrounding buildings.

Avoid blank or monotonous elevations.

Create a pedestrian friendly scale

Avoid garage doors on the front elevation except for residential buildings where the house is wide enough to maintain at least fifty percent (50%) of the front façade without a garage door.

Proportion is everything!

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ELEMENTS

Columns, piers, arches, and chimneys shall be made of stone, wood, brick, or stucco. Any interior chimney flues shall be metal or clay flue tile. Chimney liner should be per building code.

Porches, posts, spindles, and balusters shall be made of wood, PVC or fiberglass, except railings attached to concrete or brick, which may be made of steel or wrought iron, and exhibit a painted or powder coated finish. Porches may be enclosed with glass or screens; however, glass enclosures are not permitted at frontages. Porch ceilings may be enclosed with painted wood or beaded vinyl; exposed joists shall be painted.

Porches shall be no less than 6 feet in depth and a minimum of 18 inches above grade. Porches shall be lit consistent with the City's Outdoor Lighting Regulations. Other illumination sources may be authorized based upon architectural merit.

Screened and visible sides of porches must be skirted.

Railings shall have top and bottom rails.

Decks shall be located in rear yards and where not easily visible from streets or paths. Decks shall be made of polymer lumber or composite material or shall be painted or stained wood.

Wood elements must be painted or stained with an opaque stain, except walking surfaces may be left natural.

Chimneys shall be a min. 2:1 proportion in plan and capped to conceal spark arresters. A chimney is required on any structure with a fireplace.

Bay windows at frontages shall be habitable.

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OPENINGS

Materials

Windows shall be made of painted vinyl or aluminum or clad wood and shall be glazed with transparent low-E glass in residential areas of the Town Center. Window selection shall be appropriate to the building. Screen colors shall match the window.

Tinted glass may be considered for commercial buildings.

Doors shall be wood, steel, or fiberglass. If glazed, doors shall be glazed with clear low-E glass.

Storm doors shall be factory finished painted wood or painted/anodized aluminum and match the entry door.

Security grilles must be approved by the ARB.

Configurations

Openings in upper stories shall be centered directly above openings in the first story. Openings in the gable ends must be centered. Openings shall be a minimum of 2 feet from building corners, unless approved by the ARB.

All sides of residential building shall have windows. Glazed areas shall be proportional to the total size of the facade where located.

Windows shall be single-hung, double-hung, or triple-hung or casement or awning types.

Transoms may be oriented horizontally with panes of vertical proportions.

Window muntins shall be true divided lights or fixed (snap-ins) on the exterior surface Muntins shall be located on the outside of the window, unless approved by the Architectural Review Board.

Porch and arcade openings shall be vertical in proportion.

Sliding doors shall be permitted only at residential backyard locations.

Garage doors facing a street frontage shall be a minimum of 10 feet in width. Tapered drives can be used in the Town Center.

Shutters shall be sized and shaped to match the opening, when used.

WALLS

Materials

Building Walls shall be finished in brick, stone, manufactured stone, split-faced or ground-faced block (commercial only), limestone (commercial only),wood shingles, wood clapboard, drop siding, wood board and batten, smooth stucco, fiber cement siding, or vinyl siding. Clapboard and siding, except vinyl, shall be painted except as noted.

Foundation walls and piers may be exposed smooth-finished, poured concrete, formed patterns, parged block or brick veneer.

Garden walls shall be finished in stone, brick or stucco matching the principal building. Material composition shall be replicated on both sides of the wall. Gates shall be wood or wrought iron. Wall caps shall be of limestone or metal, to be reviewed on a case-by-case basis.

Garden walls shall be minimum 8 inches thick and capped with an overhang of no less than one inch.

Fences fronting the street shall be constructed of wood, vinyl or coated metal; said material to be compatible with the building façade. Wood fences may have brick piers. Vinyl materials may be used as a substitute in buildings walls and fences, but shall be from the Master List to ensure acceptable quality.

Configurations

Walls may be built of no more than three materials. Change in material shall be aesthetically pleasing, with the heavier material below the lighter, i.e. brick or stone below stucco. Masonry walls terminating at outside corners shall wrap the corner a minimum of 24 inches, unless approved by the ARB. Additions to buildings must be made of the same materials as the main building, except when the main building is made of brick, the addition can be wood.

Siding shall be horizontal, a minimum 4 inches exposed to the weather. Boards with more than 8 inches to the weather shall show a 1 inch variation from one board to the next. Board and batten siding may be applied vertically

Wood shingles shall be 8 to 10 inches exposed. Shingles shall be hand split or machine cut and have bottom edges aligned.

Foundation walls shall be exposed a maximum of 12 inches above grade.

Trims shall not exceed 1 ½ inch in thickness. The minimum width at the corners shall be 6 inches. The minimum width around openings shall be 4 inches, except at the front door, which may be any size or configuration. Trim may be painted in any color compatible with the rest of the façade material colors.

ROOFS

Materials

Residential roof cladding materials are to include; clay and concrete tiles, metal shingles, slate, wood shakes and shingles, fiberglass-asphalt shingles and metal panels. Fiberglass-architectural shingles to have a minimum 30 year warranty.

Gutters and downspouts, when used, shall be made of galvanized steel, copper (not copper coated), or pre-finished aluminum. Splash blocks shall be made of brick, gravel, or concrete. In the absence of gutters, brick or gravel shall be placed at the drip line.

Flashing shall be copper, galvanized steel, stainless steel, membrane or pre-finished aluminum. Vinyl flashing is not allowed.

Configurations

The principal roofs shall be a gable or hip with a slope between 6:12 to 12:12.

Ancillary roofs (attached to walls at the upper portion) may be sheds with a minimum slope of 3:12.

Flat Roofs are permitted on commercial buildings. Flat roofs will have parapet walls at a height in accordance with building codes.

Roof top equipment is to be screened from view. Petitioner is required to submit "Line of Sight" drawings that depict views of the roof top equipment (with accurate equipment sizes) from all compass directions as well as proposed screening options. **The calculation of the "Line of Sight" shall be completed utilizing the following criteria: the origin point shall be the centerline of any abutting street/roadway or property line, whichever is the greater distance, to the building's rooftop and associated equipment, measured from a point that is a minimum of five (5) feet above the pavement/grade elevation.**

Roof penetrations shall be placed on the rear slope of the roof and painted to match the color of the roof, except those of pre-finished metal. Plumbing stacks and vents shall not be placed on the front slope of any roof or a visible portion of it from the primary street.