Certificate of Appropriateness Application

New Construction, Small — Accessory Dwelling Unit

Property Address:	414 E. 36th Street, Savannah, GA 31401
PIN:	20064-23009
Zoning:	TN-2
District:	Streetcar Historic District
Request:	New Construction, Small — ADU
Owner/Applicant:	Samuel Kopelman
Architect:	Demetrius F. Huddleston, Architect

1. Written Project Description

The applicant, Samuel Kopelman, proposes a new single-story, one-bedroom accessory dwelling unit (ADU) at the rear of 414 E. 36th Street in the Streetcar Historic District. The ADU exists for one reason: to add much-needed housing to the neighborhood without altering the existing building or its street frontage.

The lot is tightly constrained. The ADU must sit 10 feet from the main structure, the two existing parking spaces required for the duplex must be kept, and all required setbacks must be met. Together these leave only one place for the building: the rear of the lot against the lane. That is only possible with a 0-foot rear setback (of which the roof eaves account for 1.5 feet) in place of the 3-foot minimum. The Zoning Board of Appeals heard this request and granted the variance.

The unit is deliberately small, 376 SF (24'-6" x 15'-4"), because that is all that fits. It is a simple hip-roofed building, subordinate in scale and massing to the main house, and sits at the rear of the lot against the lane, away from E. 36th Street. It is clad in 5-inch smooth HardiBoard lap siding with an asphalt shingle roof and single-hung windows without grilles or divided lites. Parking, garbage and recycling storage, and the A/C condenser are all kept at the rear.

2. Lot Coverage

	Proposed	Allowable
Lot Area	4,691 SF / 0.11 Acres	—
Main House Footprint	1,548 SF (33.0% of lot)	—
ADU Footprint	376 SF / 24.3% of main (8.0% of lot)	619 SF / 40%
Total Lot Coverage	1,924 SF / approx. 41%	2,815 SF / 60%
Rear Setback	0 ft (eaves 1.5 ft)	3 ft min. (ZBA variance)

Figures are taken from the Site Data on Sheet C-1 of the attached plans.

3. Existing Conditions — Site Photographs

Color photographs of the existing residence, the rear of the lot at the lane, and the surrounding context are attached with this submission.

4. Material Specifications

Exterior Siding: 5-inch exposure smooth face HardiBoard fiber cement lap siding (James Hardie), painted. Installed per manufacturer specifications over a water-resistive barrier.

Roofing: Asphalt shingles (GAF Timberline HDZ), hip roof, color by owner.

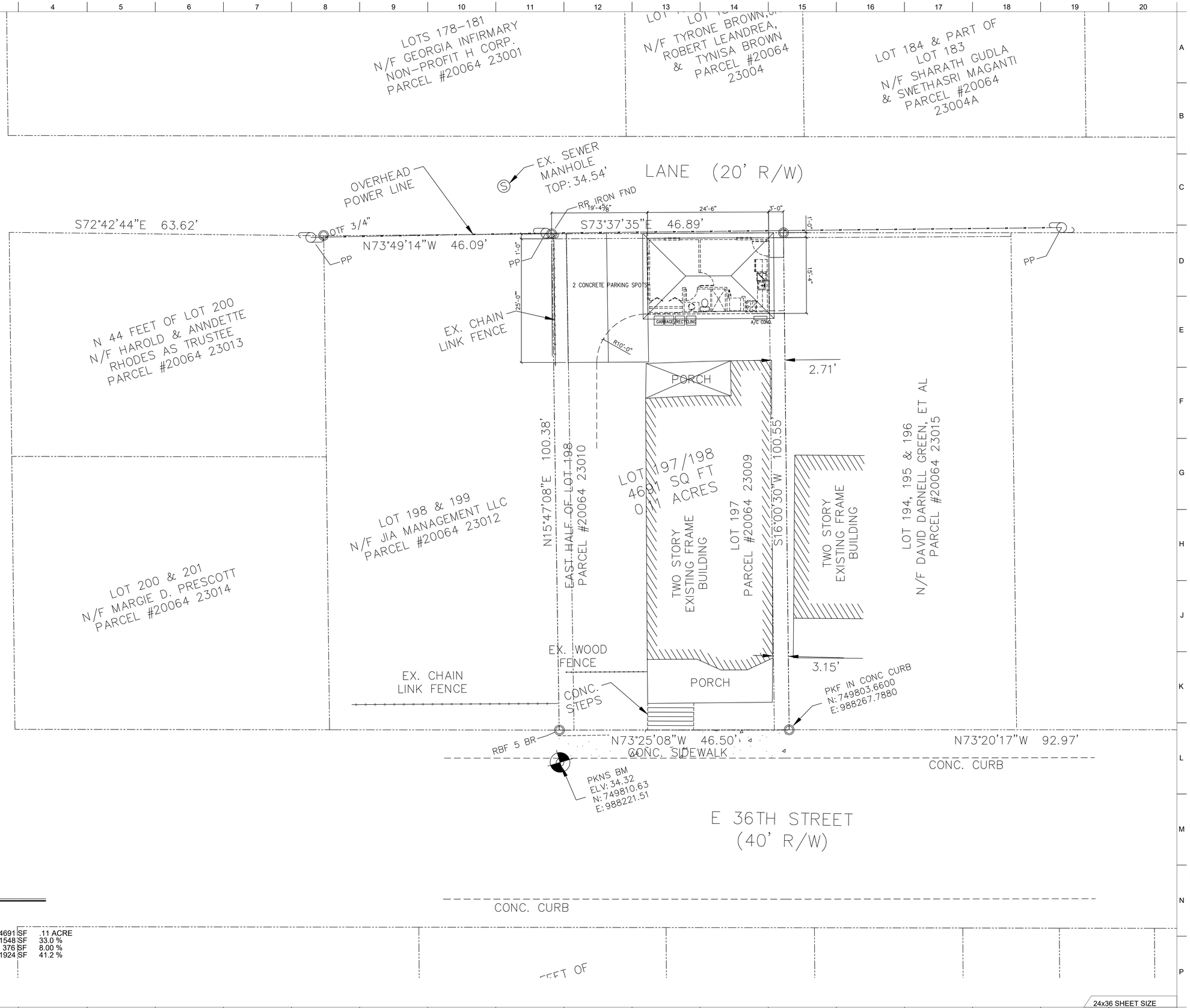
Windows: Sierra Pacific aluminum clad single-hung windows, with no grilles or divided lites, sized per the window callouts on Sheet A-1.

Entry Door: One exterior entry door on the east elevation: 6-panel wood door.

Fencing: If a privacy fence is needed, pressure-treated wood with vertical 5/4x6 boards, as detailed on Sheet A-3.

Fascia, Soffit, Trim: As shown on the wall section, Sheet A-3.

Manufacturer product sheets follow the architectural plans.



SITE PLAN

SCALE: 1/8" = 1'-0"

SITE DATA:

LOT SIZE	4691 SF	.11 ACRE
EXISTING LOT COVERAGE	1548 SF	33.0 %
PROPOSED NEW COVERAGE	376 SF	8.00 %
NEW LOT COVERAGE	1924 SF	41.2 %

STATE OF GEORGIA
DEMETRIUS FRANKLIN HUDDLESTON
CERTIFICATE NO 13188
REGISTERED ARCHITECT

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NEW ACCESSORY DWELLING UNIT:

414 EAST 36TH STREET

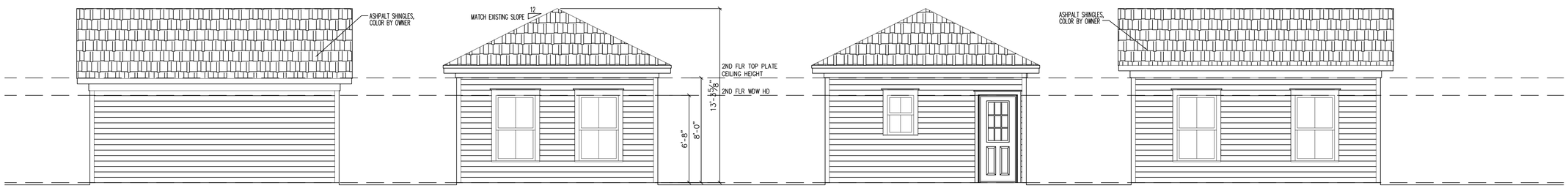
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JOB NO.	

C-1
SHEET

24x36 SHEET SIZE

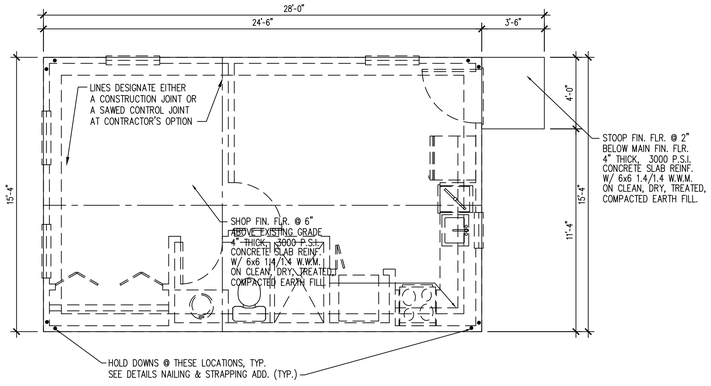


SOUTH ELEVATION (INTERIOR)
SCALE: 1/4" = 1'-0"

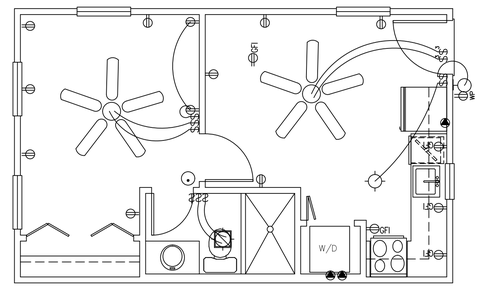
WEST ELEVATION
SCALE: 1/4" = 1'-0"

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

NORTH ELEVATION (LANE)
SCALE: 1/4" = 1'-0"



FOUNDATION PLAN
SCALE: 1/4" = 1'-0"

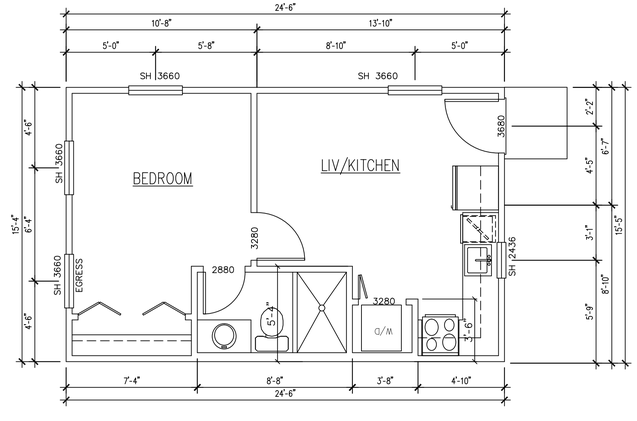


FIRST FLOOR ELEC. LAYOUT
SCALE: 1/4" = 1'-0"

ELECTRICAL LEGEND

- DUPLEX RECEPTACLE
- DUPLEX RECEPTACLE WITH TOP HALF SWITCHED
- DUPLEX RECEPTACLE GROUND FAULT CIRCUIT
- DUPLEX RECEPTACLE WATERPROOF w/ GFI
- 220 VOLT OUTLET
- ELECTRICAL EQUIPMENT CONNECTION
- TV OUTLET (DATA TYPE BY OWNER)
- TELEPHONE OUTLET 16"A.F.F.
- WALL TELEPHONE OUTLET
- SINGLE POLE SWITCH
- 3-WAY SWITCH
- 4-WAY SWITCH
- THERMOSTAT
- RECESSED FIXTURE
- CEILING FIXTURE
- WALL MOUNTED LIGHT FIXTURE
- CEILING ACCENT LIGHT FIXTURE
- SMOKE DETECTOR
- GARAGE DOOR OPENER W/ LIGHT
- EXHAUST VENT/LIGHT
- DOOR CHIMES
- DOOR BELL BUTTON
- ELECTRIC METER
- ELECTRICAL PANEL
- ELECTRICAL DISCONNECT

CEILING FAN / LIGHT FIXTURE



FIRST FLOOR PLAN
SCALE: 1/4" = 1'-0"

24x36 SHEET SIZE

STATE OF GEORGIA
DEMETRIUS FRANKLIN HUDDLESTON
CERTIFICATE NO 13108
REGISTERED ARCHITECT

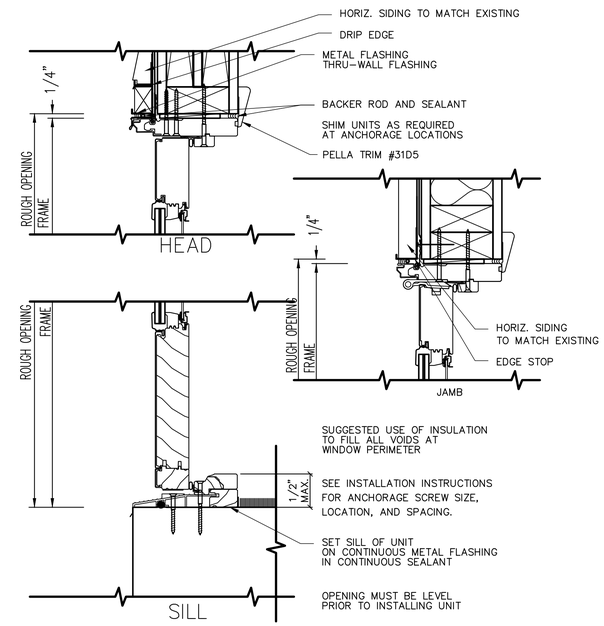
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SAVANNAH, GEORGIA

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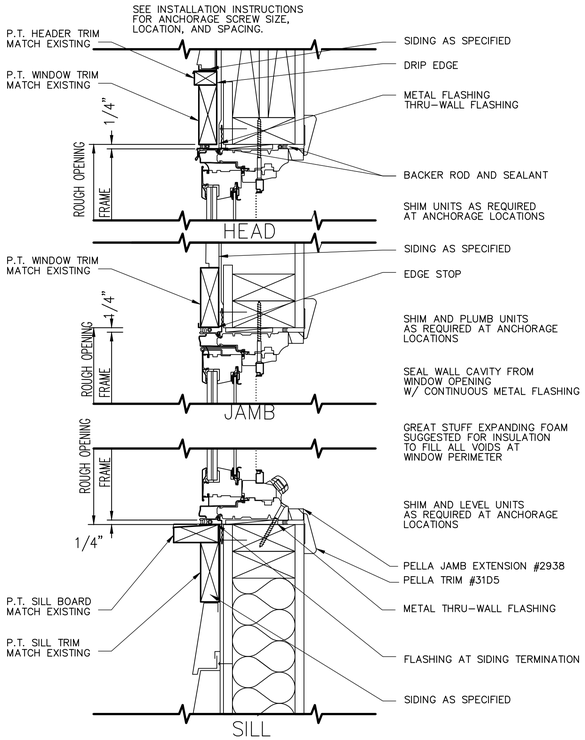
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A-1
SHEET



TYPICAL EXTERIOR DOOR INSTALLATION

SCALE: NOT TO SCALE

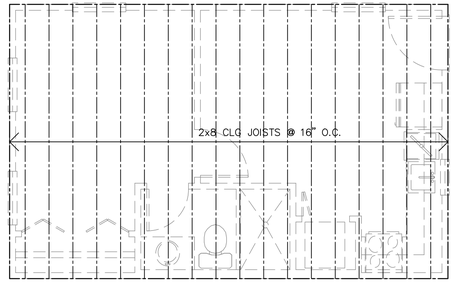


TYPICAL WINDOW INSTALLATION

SCALE: NOT TO SCALE

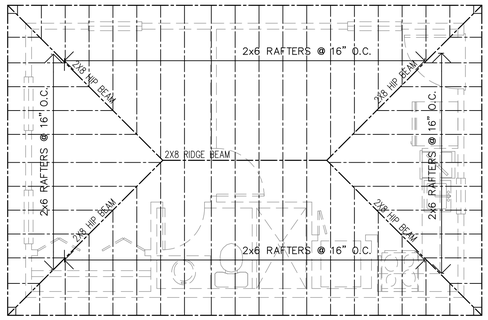
GENERAL NOTE:

DETAILS DRAWN WITH PELLA WINDOWS AND DOORS
ALL INSTALLATIONS TO MEET THESE STANDARDS
OR THE SPECIFIED MANUFACTURER'S STANDARDS
WHICHEVER IS MORE RESTRICTIVE



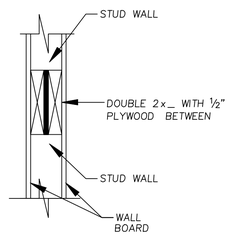
SECOND CEILING FRAMING

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



ROOF RAFTER FRAMING

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



HEADER SECTION

NOT TO SCALE

NOTE: ALL EXTERIOR STAIR RUNS ARE REPRESENTATIONAL.
CONTRACTOR SHALL VERIFY LEVEL CHANGES FROM
DECK TO GRADE OR SLAB BELLOW.

I.A.W. IRC 2018 307.7.5.1 FOR ALL STAIRS.
NO TREAD SHALL BE LESS THAN 10INCHES. NO RISERS SHALL BE
OVER 7-3/4" & NO RUN OF STAIRS SHALL HAVE MORE THAN
3/8" VARIANCE FROM THE TALLEST TO THE SHORTES RISER
WITHIN ANY ONE RUN OF TREADS.

MINIMUM WALL AND HEADER STUD REQUIREMENTS

		MAXIMUM HEADER SPAN (FT.)			
		3 ft	6 ft	9 ft	12 ft
	NUMBER OF HEADER STUDS SUPPORTING EACH END OF THE HEADER				
		1	1	2	2
UNSUPPORTED WALL HEIGHT	STUD SPACING	NUMBER OF FULL LENGTH STUDS AT EACH END OF THE HEADER			
10 FEET OR LESS	16"o/c	2	2	3	3
GREATER THEN 10 FEET	16"o/c	2	2	3	3

DOOR AND WINDOW HEADER SCHEDULE: (WALLS 2x6's @ 16" O.C.)
(3) 2x8's W/ (1/2) PLYWOOD FILLERS FOR UP TO 4'-0" OPENINGS
(3) 2x10's W/ (1/2) PLYWOOD FILLERS FOR UP TO 8'-0" OPENINGS
(3) 2x12's W/ (1/2) PLYWOOD FILLERS FOR UP TO 10'-0" OPENINGS

DOOR AND WINDOW HEADER SCHEDULE: (WALLS 2x4's @ 16" O.C.)
(2) 2x8's W/ (1/2) PLYWOOD FILLERS FOR UP TO 4'-0" OPENINGS
(2) 2x10's W/ (1/2) PLYWOOD FILLERS FOR UP TO 8'-0" OPENINGS
(2) 2x12's W/ (1/2) PLYWOOD FILLERS FOR UP TO 10'-0" OPENINGS

SECTION R317
PROTECTION OF WOOD AND
WOOD-BASED PRODUCTS AGAINST DECAY
R317.1 Location required. Protection of wood and woodbased products from decay shall be provided in the following locations by the use of naturally durable wood or wood that is preservative-treated in accordance with AWPA U1.
1. Wood joists or the bottom of a wood structural floor where closer than 18 inches (457 mm) or wood girders where closer than 12 inches (305 mm) to the exposed ground in crawl spaces or unexcavated area located within the periphery of the building foundation.
2. Wood framing members that rest on concrete or masonry exterior foundation walls and are less than 8 inches (203 mm) from the exposed ground.
3. Sills and sleepers on a concrete or masonry slab that is in direct contact with the ground unless separated from such slab by an impervious moisture barrier.
4. The ends of wood girders entering exterior masonry or concrete walls having clearances of less than 1/2 inch (12.7 mm) on tops, sides and ends.
5. Wood siding, sheathing and wall framing on the exterior of a building having a clearance of less than 6 inches (152 mm) from the ground or less than 2 inches
(51 mm) measured vertically from concrete steps, porch slabs, patio slabs and similar horizontal surfaces exposed to the weather.
6. Wood structural members supporting moisture-permeable floors or roofs that are exposed to the weather, such as concrete or masonry slabs, unless separated from such floors or roofs by an impervious moisture barrier.
7. Wood furring strips or other wood framing members attached directly to the interior of exterior masonry walls or concrete walls below grade except where an approved vapor retarder is applied between the wall and the furring strips or framing members.

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NEW ACCESSORY DWELLING UNIT:

414 EAST 36TH STREET

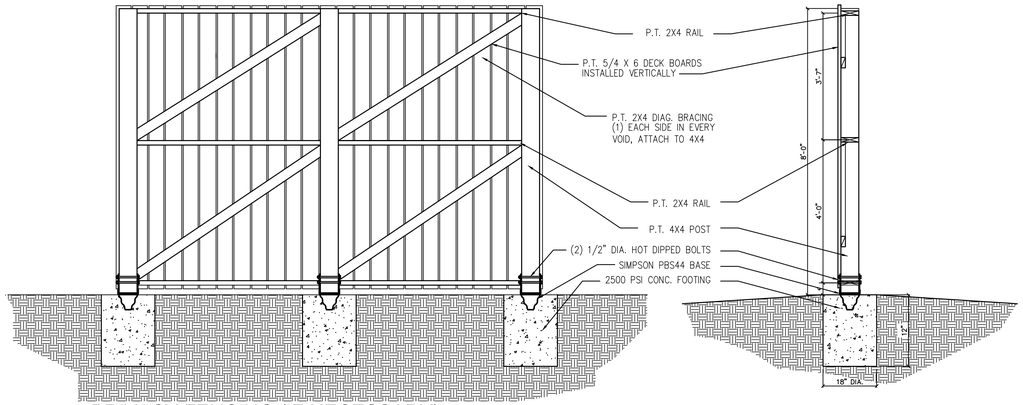
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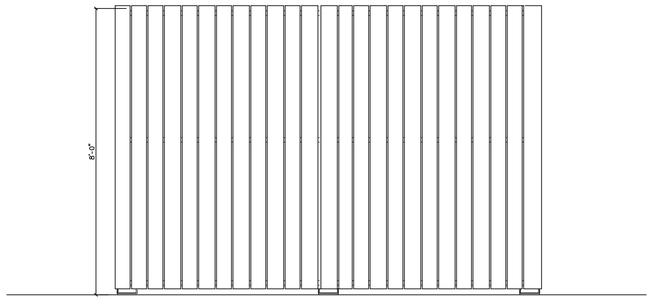
A-2
SHEET

24x36 SHEET SIZE

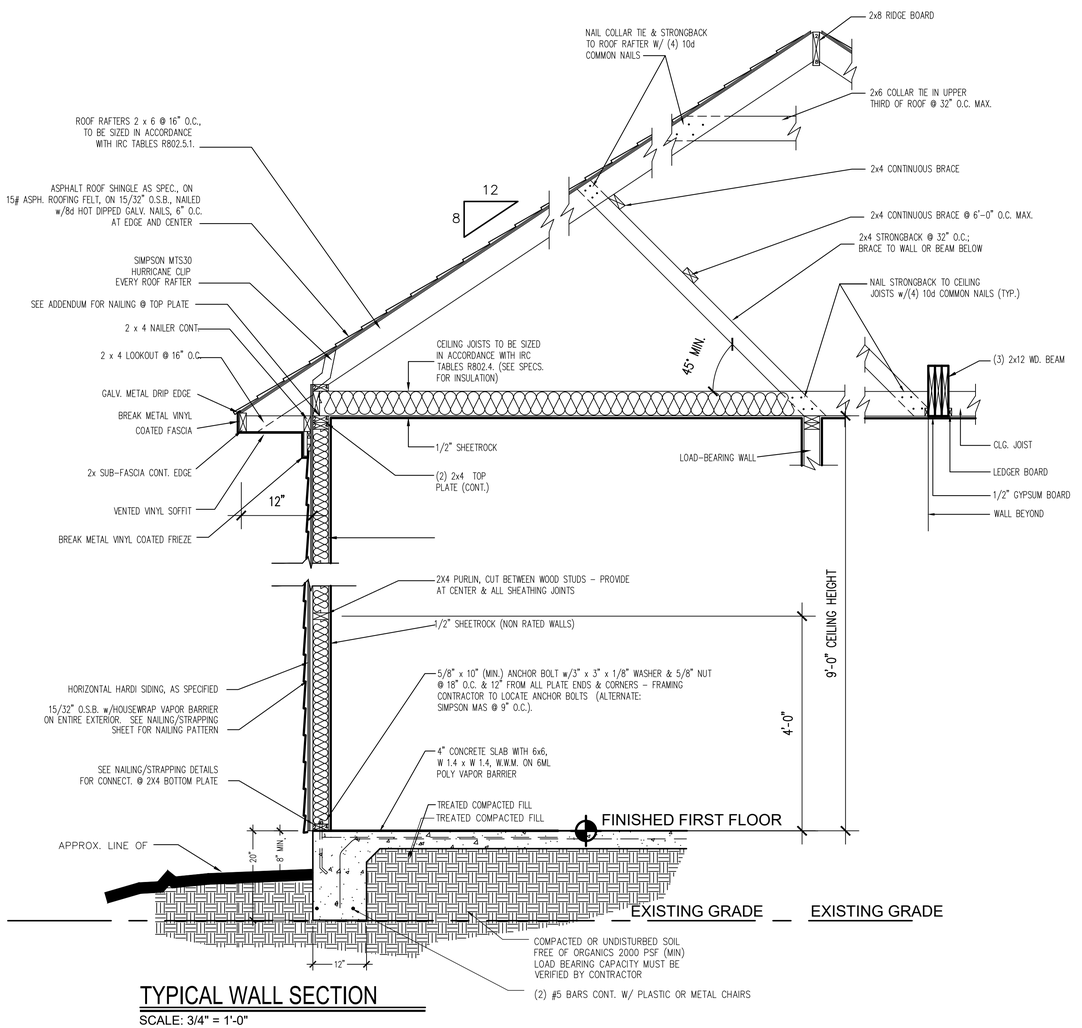


PRIVACY FENCING (IF NECESSARY)

SCALE: 1/2" = 1'-0"



VIEW OF PRIVACY FENCE FROM EXTERIOR



TYPICAL WALL SECTION

SCALE: 3/4" = 1'-0"

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NEW ACCESSORY DWELLING UNIT:

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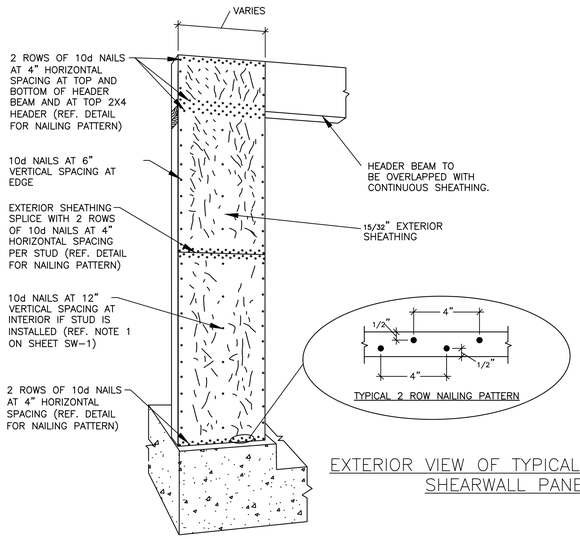
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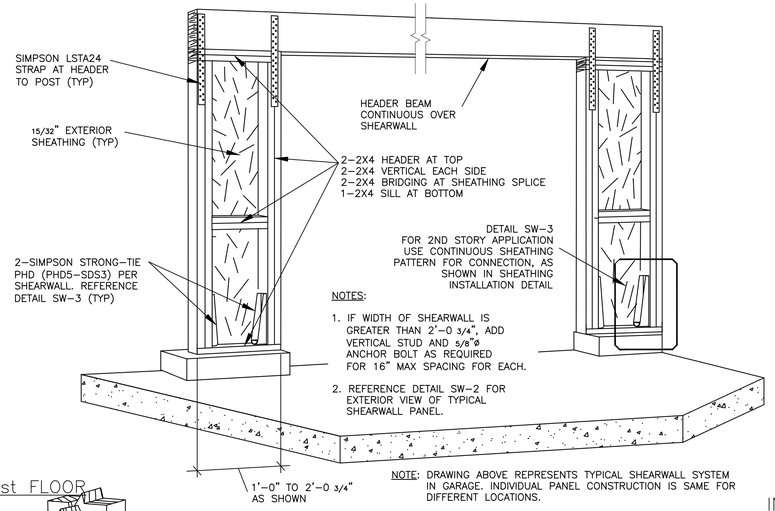
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A-3
SHEET

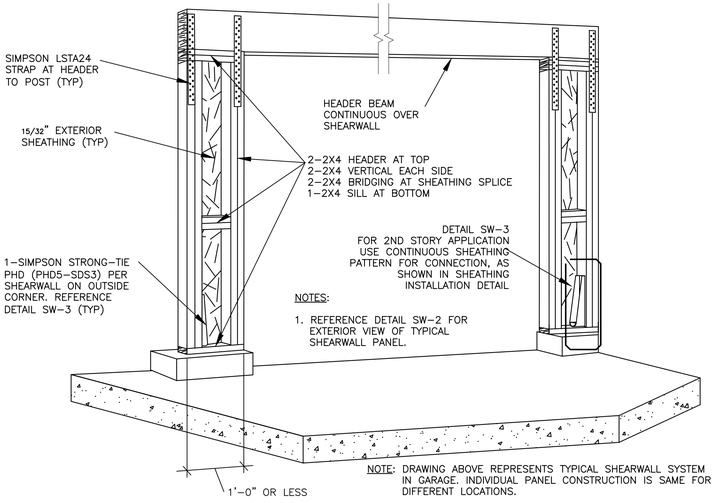
24x36 SHEET SIZE



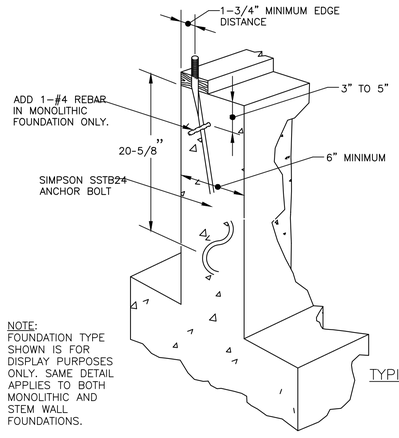
EXTERIOR VIEW OF TYPICAL 1st FLOOR SHEARWALL PANEL



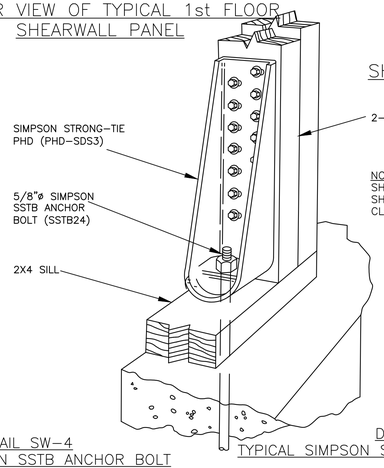
INTERIOR VIEW OF TYPICAL 1st FLOOR SHEARWALL PANELS FOR WALLS GREATER THAN 1'-0"



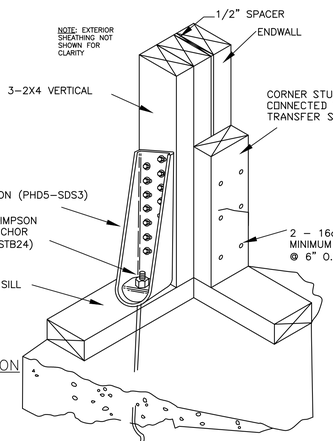
INTERIOR VIEW OF TYPICAL 1st FLOOR SHEARWALL PANELS FOR WALLS LESS THAN 1'-0"

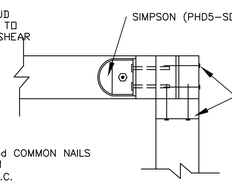


DETAIL SW-4
TYPICAL SIMPSON SSTB ANCHOR BOLT INSTALLATION

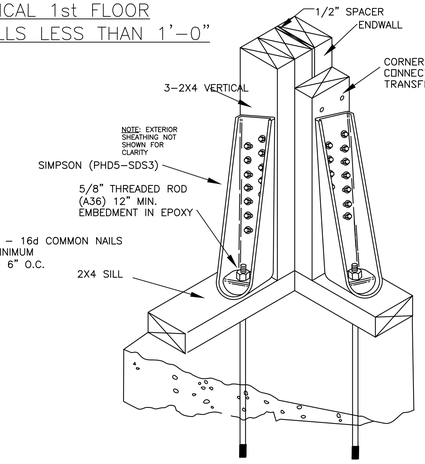


DETAIL SW-3
TYPICAL SIMPSON STRONG-TIE PHD CONNECTION

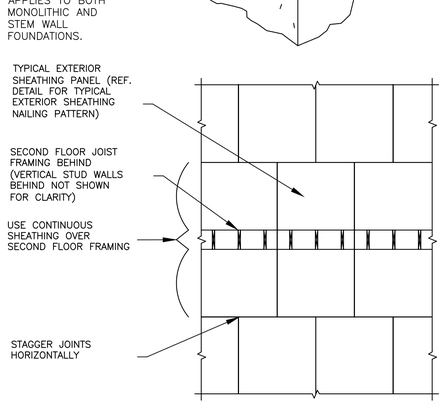




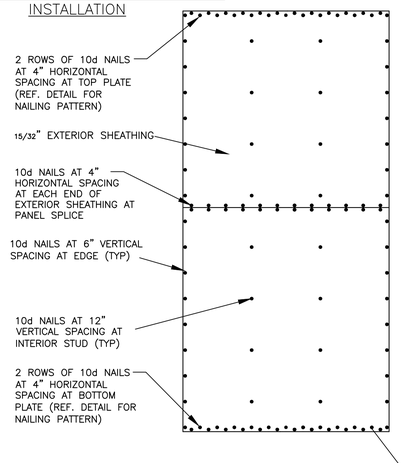
DETAIL SW-5
TYPICAL CORNER HOLDDOWN



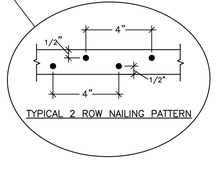
DETAIL SW-6
(TYP.) ALTERNATE DOUBLE HOLDDOWN DETAIL

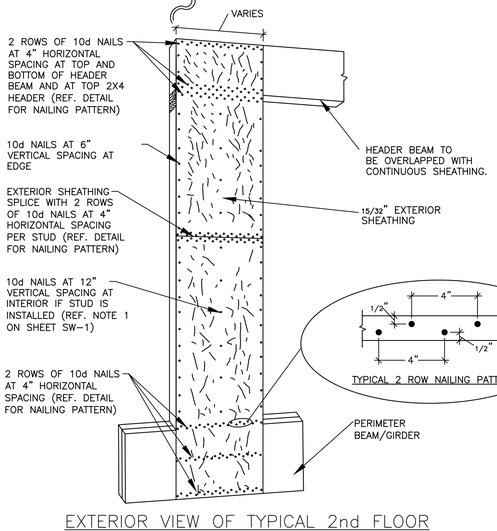


TYPICAL EXTERIOR SHEATHING INSTALLATION PATTERN

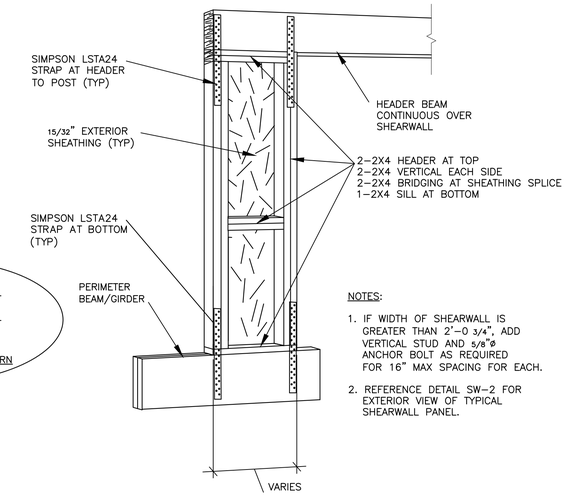


TYPICAL EXTERIOR SHEATHING NAILING PATTERN





EXTERIOR VIEW OF TYPICAL 2nd FLOOR SHEARWALL PANEL



INTERIOR VIEW OF TYPICAL 2nd FLOOR SHEARWALL PANELS

NAILING & STRAPPING ADDENDUM

SCALE: NOT TO SCALE

NOTE: DETIALS ARE DESIGNED TO 145/MPH WIND ZONE

STATE OF GEORGIA
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NEW LIVE / WORK ADU FOR:

29 FALLIGANT AVENUE

CHATHAM COUNTY, GEORGIA

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F-5
SHEET

24x36 SHEET SIZE

HardiePanel® Vertical Siding

MULTIFAMILY / COMMERCIAL INSTALLATION REQUIREMENTS

EFFECTIVE DECEMBER 2020

IMPORTANT: FAILURE TO FOLLOW JAMES HARDIE WRITTEN INSTALLATION INSTRUCTIONS AND COMPLY WITH APPLICABLE BUILDING CODES MAY VIOLATE LOCAL LAWS, AFFECT BUILDING ENVELOPE PERFORMANCE AND MAY AFFECT WARRANTY COVERAGE. FAILURE TO COMPLY WITH ALL HEALTH AND SAFETY REGULATIONS WHEN CUTTING AND INSTALLING THIS PRODUCT MAY RESULT IN PERSONAL INJURY. BEFORE INSTALLATION, CONFIRM YOU ARE USING THE CORRECT HARDIEZONE® PRODUCT INSTRUCTIONS BY VISITING HARDIEZONE.COM OR CALL 1-866-942-7343 (866-9-HARDIE).

STORAGE & HANDLING:

Store flat and keep dry and covered prior to installation. Installing siding wet or saturated may result in shrinkage at butt joints. Carry planks on edge. Protect edges and corners from breakage. James Hardie is not responsible for damage caused by improper storage and handling of the product.



⚠ CUTTING INSTRUCTIONS

OUTDOORS

1. Position cutting station so that airflow blows dust away from the user and others near the cutting area.
2. Cut using one of the following methods:
   - a. Best: Circular saw equipped with a HardieBlade® saw blade and attached vacuum dust collection system. Shears (manual, pneumatic or electric) may also be used, not recommended for products thicker than 7/16 in.
   - b. Better: Circular saw equipped with a dust collection feature (e.g. Roar® saw) and a HardieBlade saw blade.
   - c. Good: Circular saw equipped with a HardieBlade saw blade.

INDOORS

DO NOT grind or cut with a power saw indoors. Cut using shears (manual, pneumatic or electric) or the score and snap method, not recommended for products thicker than 7/16 in.

- DO NOT dry sweep dust; use wet dust suppression or vacuum to collect dust.
- For maximum dust reduction, James Hardie recommends using the "Best" cutting practices. Always follow the equipment manufacturer's instructions for proper operation.
- For best performance when cutting with a circular saw, James Hardie recommends using HardieBlade® saw blades.
- Go to jameshardiepros.com for additional cutting and dust control recommendations.

IMPORTANT: The Occupational Safety and Health Administration (OSHA) regulates workplace exposure to silica dust. For construction sites, OSHA has deemed that cutting fiber cement with a circular saw having a blade diameter less than 8 inches and connected to a commercially available dust collection system per manufacturer's instructions results in exposures below the OSHA Permissible Exposure Limit (PEL) for respirable crystalline silica, without the need for additional respiratory protection.

If you are unsure about how to comply with OSHA silica dust regulations, consult a qualified industrial hygienist or safety professional, or contact your James Hardie technical sales representative for assistance. James Hardie makes no representation or warranty that adopting a particular cutting practice will assure your compliance with OSHA rules or other applicable laws and safety requirements.

GENERAL REQUIREMENTS:

- Refer to table 1 for multifamily/commercial drainage requirements for James Hardie® vertical siding.
- HardiePanel® vertical siding can be installed over furring strips (in accordance with local building code requirements). HardiePanel vertical siding can be installed over braced wood or steel studs, 20 gauge (0.836 mm) minimum to 16 gauge (1.367 mm) maximum, spaced a maximum of 610mm (24 in) o.c
- Consult ESR1844 for fastener schedule as well as additional technical information at www.jameshardiecommercial.com.
- A water-resistive barrier is required in accordance with local building code requirements. The water-resistive barrier must be appropriately installed with penetration and junction flashing in accordance with local building code requirements. The manufacturer will assume no responsibility for water infiltration.
- Information on installing James Hardie products over non-nailable substrates (ex: gypsum, foam,etc.) can be located in JH Tech Bulletin 19 at www.jamehardie.com
- Do not install James Hardie products such that they may remain in contact with standing water.
- HardiePanel vertical siding may be installed on vertical wall applications only.
- DO NOT use HardiePanel vertical siding in Fascia or Trim applications.
- The designer and/or architect shall take into consideration the coefficient of thermal expansion and moisture movement of the product in their design. These values can be found in the Technical Bulletin #8 "Expansion Characteristics of James Hardie® Siding Products" at www.jameshardiecommercial.com.
- James Hardie Building Products provides installation /wind load information for buildings with a maximum mean roof height of 85 feet. For information on installations above 60 feet, please contact JH technical support.
- Minimum standard panel design size is 12" x 16". Note:Panels may be notched and cut to size to fit between windows,doors, corners, etc.

Table 1: HardiePanel® Vertical Siding Wall Drainage Requirements

All national, state, and local building codes must be followed, and where they are more stringent than James Hardie installation requirements, state and local requirements will take precedence. Consult the "Exterior Wall Drainage Requirements" bulletin at www.jameshardiecommercial.com for additional guidance and a more detailed list of drainage required areas.



MINIMUM REQUIREMENTS BY STATE/COUNTY

A	WRB[1] *Dry Climates*
B	DRAINAGE PLANE (E.G. DRAINABLE WRB) WITH 90% DRAINAGE EFFICIENCY[2] *Moist and Marine Climates*
C	RAINSCREEN (MIN. 3/8 IN. AIR GAP)[3] *Severe Wind Driven Rain Climate*

[1] Water-resistive barrier and drainage requirements as defined by building code.
[2] Water-resistive barrier as defined by local building code that is manufactured in a manner to enhance drainage, must meet minimum 90% drainage efficiency when tested in accordance with ASTM E2273 or other recognized national standards.
[3] Water-resistive barrier (WRB) as defined by building code and a minimum 3/8 in. (10mm) air space between the WRB and the panel siding (formed by minimum 3/8 in. furring).

SMOOTH | SELECT CEDARMILL® | SELECT SIERRA 8 | STUCCO

B1

PRODUCT SUMMARY
Aluminum Clad Premium Double & Single Hung (WI)

EXTERIOR: Pre-treated aluminum surface has a baked-on, electrostatically applied super durable polyester powder paint, zero-VOC finish. Available in Seven Color Collections covering 75 colors conforming to the requirements of AAMA test procedures 2604 & 2605 as noted below.

- ColorStay™ in AAMA 2604 or AAMA 2605 – consists of 45 solid colors.
- Textured in AAMA 2604 – consists of 5 matte finish colors with varying grit.
- Weathered in AAMA 2604 or AAMA 2605 – consists of 8 dual tone/speckled colors.
- Pearl Metallic in AAMA 2605 – consists of 5 soft metallic colors
- Metallic in AAMA 2605 – consists of 5 colors mimicking metal elements.
- Industrial in AAMA 2605 – consists of 2 powder coated colors mimicking the most popular anodize finishes.
- Anodized – consists of 5 color options, AAMA 611 Standard Anodized Finish

Clear	Medium Bronze	Dark Bronze
Black	Copper	

- **Custom Color Match** – to your color specification in AAMA 2605 finish.

Please visit our website or contact a Sierra Pacific Windows representative to view the largest color palette in the industry!

INTERIOR: Exposed interior wood surfaces are natural pine wood

- Specify Interior Wood Species

Ponderosa Pine (Standard)	Alder	Cherry
Vertical Grain Douglas Fir	Mahogany	Maple
Red Oak	Black Walnut	White Oak
Other Species upon Request and Availability		

- Specify Interior Finish

Natural	Primed
Ultra Coat –White or Black Painted	Ultra Coat – Custom Color Match Paint
Ultra Stain – Clear Coat	Ultra Stain - Espresso
Ultra Stain – Toffee	Ultra Stain – Custom Color Match Stain

*Ultra Coat is an interior paint finish utilizing a specially formulated two-part catalyzed polyurethane paint finish.
*Ultra Stain is a water-based interior stain finish formulated to provide intense, rich color tones while maintaining uniformity of color and appearance.

FRAME:

- Overall frame thickness is 11/16" (18mm).
- Basic jamb width is 4-9/16" (116mm) standard; additional jamb depths available include:

4-3/4" (121mm)	5" (127mm)	5-1/8" (130mm)
5-5/16" (135mm)	6-7/16" (164mm)	6-9/16" (167mm)
6-11/16" (170mm)	7" (178mm)	7-1/8" (181mm)
7-1/4" (184mm)	7-5/16" (186mm)	7-3/8" (187mm)
8-1/8" (206mm)		

- Overall frame depth is 5-11/16" (144mm).
- Interior wood for head, sill and jambs are select pine, solid or finger-jointed with veneer, kiln dried to a moisture content of 6-12% at time of fabrication. Additional wood species available as noted under INTERIOR FINISH above.
- Exterior cladding for frame head, sill and jambs are 0.050" (1.27mm) extruded aluminum; mitered corners with screw boss construction.
- Frame is completely assembled with concealed jambliners and block and tackle balances with sash installed.

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PRODUCT SUMMARY
Aluminum Clad Premium Double & Single Hung (WI)

SASH:

- Sash thickness 1-7/16" (44mm)
- Sash corners mortised and tenoned and secured with nails.
- Sash exterior is clad with .050" extruded aluminum.
- Select pine kiln dried to 6-12% moisture content at time of fabrication. Water repellent preservative, CoreGuard™, treated in accordance with WDMA I.S.4.
- Available in standard 50/50 vent with optional 60/40 or 40/60 vent.

GLAZING OPTIONS:

- Premium quality flat glass complying with ASTM C 1036.
- Glazed with silicone sealant to the exterior and removable interior glazing bead.
- Factory glazed fabrication complies with requirements of Section 088100 and AAMA/WDMA/CSA 101/I.S.2/NAFS
- Safety glass laminated and tempered glass complies with safety glazing requirements in accordance with 16 CFR 1201 for Category II materials.

Standard Glazing Options include: (90% Argon Gas Fill Unless Capillary Tubes and/or No Coatings are required)

Low-E (standard)	Clear (No Coatings)	Low-E 366
Low-E 366 w/i89 Surf #4 LE	Low-E 366 w/Preserve	Low-E 366 w/Neat & Preserve
Low-E 180 (Passive Solar)	Low-E 180 w/Preserve	Low-E 180 w/Neat & Preserve
Low-E 180 w/i89 Surf #4 LE	Laminated Insul (No Coatings)	Low-E Laminated Insul

Note: Warm Edge Spacer (Std), XL Edge Spacer (Optional), Neat and/or Preserve require XL Edge Spacer

Specialty Glazing Options include: (90% Argon Gas Fill Unless Capillary Tubes are required)

Bronze	Grey	Green
Solar Cool Bronze	Solar Cool Grey	Mirropane
Spandrel		

Obscure Glazing Options include: (90% Argon Gas Fill Unless Capillary Tubes are required)

Standard (Pattern 62)	Rain	
Narrow Reed	Satin Etched	Glue Chip
White Laminated	Custom	

HARDWARE:

- Dual action cam sweep flush mounted lock and keeper located at the meeting rail: 2 locks are provided with 32"(813mm) glass width and wider.
- Zinc die-cast and high impact nylon, spring loaded tilt latches located at the top rail of both sash.
- Hardware available in the following finishes:

Champagne	White (Standard)	Bronze	Bright Brass
Brushed Chrome	Antique Brass	Oil Rubbed Forever Bronze	Matte Black
Satin Nickel			

- Optional lift handles in matching finishes.
- Balance system is an extruded beige vinyl jamb liner track with aluminum and wood covers color matched to the finishes to conceal the jamb liner.
- Sash are supported by a block and tackle system with adjustable nylon clutch shoe and steel tilt pin.

WEATHERSTRIP:

- Units constructed with pile weatherstripping w/center fin and a compressible bulb weatherstrip designed for tight seal when sash are closed.
- On Sash, closed-cell foam bulb weatherstrip with seamless TPE skin applied on top sash rail. Weatherstrip on the bottom sash is located on the bottom of the lower rail providing a seal at the sill. Pile weatherstrip w/fin applied to top and bottom sash stiles.
- On Frame, closed-cell foam bulb weatherstrip with seamless TPE skin at head.

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PRODUCT SUMMARY
Aluminum Clad Premium Double & Single Hung (WI)

ADDITIONAL GLASS SPECIFICATIONS:

- Low-E Insul (Standard): Dual insulated glass consisting of one lite of dual layered Cardinal 272 Low-E or Guardian 70/36 silver sputter coated on surface #2 and one lite of clear glass; Argon filled unless produced with capillary tubes. Produced with warm edge spacer standard. Cardinal XL™ Edge spacer optional.
- Clear Insul: dual insulating glass consisting of two lites of clear glass. Produced with warm edge spacer standard. Cardinal XL Edge spacer optional.
- ¾" Laminated Insul: Dual insulated glass consisting of one lite of ¾" laminated glass produced with .030" PVB interlayer (exterior lite) and one lite of clear glass. Argon filled unless produced with capillary tubes. Produced with Cardinal XL Edge ™ spacer.
- ¾" Low-E Laminated Insul: Dual insulated glass consisting of one lite of ¾" laminated glass produced with .030" PVB interlayer (exterior lite) and one lite of dual layered Cardinal 272 Low-E on surface #5. Argon filled unless produced with capillary tubes. Produced with Cardinal XL Edge ™ spacer.
- 366 Low-E: Dual insulated glass consisting of one lite of triple layered Cardinal 366 silver sputter coated on surface #2 and one lite of clear glass. Argon filled unless produced with capillary tubes. Produced with warm edge spacer standard. Cardinal XL Edge ™ spacer optional.
- 366 Low-E with i89: Dual insulated glass consisting of one lite of triple layered Cardinal 366 silver sputter coated on surface #2 and one lite of Cardinal i89 Low-E coating on surface #4. Argon filled unless produced with capillary tubes. Produced with warm edge spacer standard. Cardinal XL Edge ™ spacer optional.
- Low-E 366 with Neat & Preserve ™: Dual insulated glass consisting of one lite of triple layered Cardinal 366 silver sputter coated on surface #2 and one lite of air-activated Neat™ coating applied to surface #1 & Preserve™ protective film applied to the #1 surface or #1 and #4 surface. Argon filled unless produced with capillary tubes. Produced with Cardinal XL Edge ™ spacer.
- Low-E 366 with Preserve ™: Dual insulated glass consisting of one lite of triple layered Cardinal 366 silver sputter coated on surface #2 and Preserve™ protective film applied to the #1 surface or #1 and #4 surface. Argon filled unless produced with capillary tubes. Produced with Cardinal XL Edge ™ spacer.
- Low-E 180 Passive Solar: Dual insulated glass consisting of one lite of single layer Cardinal 180 silver sputter coated on surface #3 and one lite of clear glass. Argon filled unless produced with capillary tubes. Produced with warm edge spacer standard. Cardinal XL Edge ™ spacer optional.
- Low-E 180 Passive Solar w/i89: Dual insulated glass consisting of one lite of single layer Cardinal 180 silver sputter coated on surface #2 and one lite of Cardinal i89 Low-E coating on surface #4. Argon filled unless produced with capillary tubes. Produced with warm edge spacer standard. Cardinal XL Edge ™ spacer optional.
- Low-E 340: Dual insulated glass consisting of one lite of triple layered Cardinal 340 silver sputter coated on surface #2. Argon filled unless produced with capillary tubes. Produced with Cardinal XL Edge ™ ™spacer.



America's #1-selling shingle just got better!

The same shingle you know and love, now with LayerLock™ Technology which powers the industry's widest nailing area.

Timberline® HDZ™ Shingles

Benefits:

- **LayerLock™ Technology** — Proprietary technology mechanically fuses the common bond between overlapping shingle layers.
- **Up to 99.9% nailing accuracy** — The StrikeZone™ nailing area is so easy to hit that a roofer placed 999 out of 1,000 nails correctly in our test.[1]
- **WindProven™ Limited Wind Warranty** — When installed with the required combination of GAF Accessories, Timberline® HDZ™ Shingles are eligible for an industry first: a wind warranty with no maximum wind speed limitation.[2]
- Our legendary **Dura Grip™** sealant pairs with the smooth micrograinule surface of the StrikeZone™ nailing area for fast tack. Then, an asphalt-to-asphalt monolithic bond cures for durability, strength, and exceptional wind uplift performance.
- **StainGuard® Algae Protection** — Helps protect the beauty of your roof against unsightly blue-green algae discoloration.[3]
- **High Performance** — Designed with Advanced Protection® Shingle Technology.
- **Seamless compatibility** — The new Timberline® HDZ™ Shingles are compatible with traditional Timberline HD® Shingles for the same look and feel homeowners and contractors rely on for beauty and endurance.[4]
- **Perfect Finishing Touch** — For the best look, use TimberTex® Premium Ridge Cap Shingles or TimberCrest™ Premium SBS-Modified Ridge Cap Shingles.

Colors & Availability:



Product details:

Product/System Specifics

- Fiberglass asphalt construction
- Dimensions (approx.): 13 ¼" x 39 ⅜" (337 x 1,000 mm)
- Exposure: 5 ⅝" (143 mm)
- Bundles/Square: 3
- Pieces/Square: 64
- StainGuard® Algae Protection[3]
- Hip/Ridge: Timberline®; TimberCrest™; Seal-A-Ridge®; Z-Ridge; Ridglass®
- Starter: Pro-Start®; QuickStart®; WeatherBlocker®

Applicable Standards & Protocols:

- UL Listed to ANSI/UL 790 Class A
- State of Florida approved
- Classified by UL in accordance with ICC-ES AC438
- Meets ASTM D7158, Class H
- Meets ASTM D3161, Class F
- Meets ASTM D3018, Type 1
- Meets ASTM D3462[5]
- ICC-ES Evaluation Reports ESR-1475 and ESR-3267
- Meets Texas Department of Insurance Requirements
- ENERGY STAR® Certified (White Only) (U.S. Only): Rated by the CRRC. Can be used to comply with Title 24 cool roof requirements

Results based on study conducted by Rimini Innovation Research Labs, an independent research lab, comparing installation of Timberline HD® Shingles to Timberline® HDZ™ Shingles on a "6-square roof deck using instructions & nail nailing pattern under controlled laboratory conditions. Actual results may vary.

[2] GAF WindProven™ limited wind warranty on Timberline® HDZ™ Shingles requires the use of GAF starter strips, cut-back protection ridge cap shingles, and seal-down or attic ventilation. See GAF Roofing System Limited Warranty for complete coverage and restrictions. Visit gaf.com/US for qualifying GAF products.

[3] StainGuard® algae protection is available only on shingles sold in packages bearing the StainGuard® logo. Products with StainGuard® algae protection are covered by a 10-year limited warranty against blue-green algae discoloration. See GAF Shingle & Accessory Limited Warranty for complete coverage and restrictions.

[4] To be mixed on one roof, Timberline® HDZ™ Shingles and Timberline HD® Shingles must have matching 4-digit code found on the end of the bundle. When mixed, always use Timberline HD® installation instructions.

[5] Periodically tested by independent and internal labs to ensure compliance with ASTM D3462 at time of manufacture.

[1] Lifetime refers to the length of warranty coverage provided and means as long as the original individual owner(s) of a single-family, detached residence (or eligible second owner[s]) own the property where the qualifying GAF products are installed. For other ownership/structures, Lifetime coverage is not applicable. Lifetime coverage on shingles requires use of GAF Lifetime shingles only. See GAF Shingle & Accessory Limited Warranty for complete coverage and restrictions. Lifetime coverage on shingles and accessories requires use of only GAF Lifetime shingles and only 5 qualifying GAF accessories. See GAF Roofing System Limited Warranty for complete coverage and restrictions. Visit gaf.com/US for qualifying GAF products.

Note: It is difficult to reproduce the color clarity and actual color blends of these products. Before selecting your color, please ask to see several full-size shingles.

We protect what matters most™

GAF 12-HDZ-BROCHURE 2019

Existing Conditions — Site Photographs

414 E. 36th Street, Savannah, GA 31401 | PIN 20064-23009



Front (street) elevation of the existing duplex, East 36th Street.