City of Rockville
Get Into It

MEMORANDUM

March 8, 2012

TO: Historic District Commission

FROM: Robin D. Ziek, Historic Preservation Planner

SUBJECT: HDC2012-00564, 400 West Montgomery Avenue
Condition of Approval

---

1) Attached please find the information required as a condition of approval of the HDC2012-00564 Certificate of Approval (January 19, 2012). The HDC required the applicant to provide technical information and a sample of the approved siding.

- Exterior Cladding Materials: NiciPanel Grooved 8" o.c. cedar
  Product information, and sample (to be provided at the upcoming meeting.)

At the meeting, staff will also provide a sample of the new window, which is a thermally glazed wood window, aluminum clad on the exterior with wood exposed on the interior.

2) Also attached, please find revised concept drawings that reflect changes made during the development of the construction drawings, to show that the roof of the new addition will be raised by 1-1/2 feet.

3) Finally, please know that through staff oversight, the applicant proposed an open trellis between the new addition and the house. In fact, the connecting link must have a solid roof. This can be achieved either with Plexiglas, or with any typical roofing material such as asphalt shingles.

As the HDC typically reviews concept drawings, staff assures that the construction drawings for the building permit meet the HDC approval, while noting that modest changes typically occur when a project is taken from "concept" to "construction drawings." The change in roof height does not change the overall massing and design of the addition, and will not have an adverse effect on the overall historic district. Similarly, the need to have a solid roof, whether with a clear or opaque material, will have no effect on the overall historic district.

Attachments:
1. Approval Letter
2. Approved drawings
3. Revision – note from architect and revised drawings

Attachment 1

City of Rockville
Get Into It

111 Maryland Avenue | Rockville, Maryland 20850-2364 | 240-314-5000
www.rockvillemd.gov

January 24, 2012

Scott and Sally Robinson
400 West Montgomery Avenue
Rockville, MD 20850

Dear Mr. and Mrs. Robinson:

On January 19, 2012, the Historic District Commission (HDC) approved application **HDC2012-00564** to construct a rear addition with connecting trellis at your property at 400 W. Montgomery Avenue, with the added condition that you provide technical information on the proposed siding to staff.

This letter serves as your HDC Certificate of Approval only. Please note that Section 25.07.14 of the City of Rockville Zoning and Planning Ordinance specifies that this Certificate of Approval becomes void if the work has not commenced within twelve (12) months of the date of approval. For good cause shown, the HDC may grant two six (6)-month time extensions.

Please contact Inspection Services Division (ISD) at 240-314-8240 to inquire about other City permits that may be required for the above work.

In addition, please contact the City of Rockville Historic Preservation Staff at 240- 314-8230 at least one week before beginning the approved work. With your signature below, you (the applicant) agree to allow City Staff to enter the property (exterior of structures only) to inspect the ongoing, and completed work for compliance with the HDC Certificate of Approval and any conditions contained in the Certificate of Approval. Any deviations from the Certificate of Approval must be reviewed by the HDC as a retroactive review and may result in reversal of unapproved changes.

Sincerely,

Jim Wasilak
Chief of Planning

Please sign this letter of approval and return one copy to the Department of Community Planning and Development Services, Rockville City Hall, 111 Maryland Avenue, Rockville, MD 20850

_____
Applicant's Signature

_____
Applicant's Name Printed

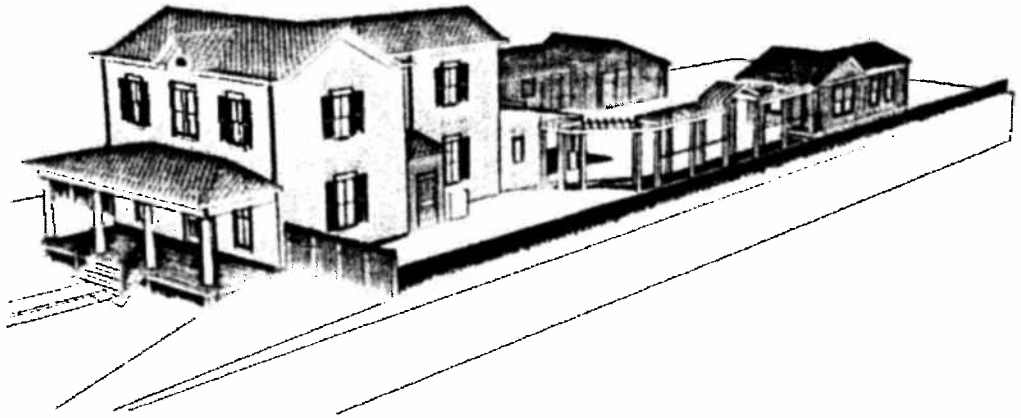
Mayor Phyllis Marcuccio | Councilmembers John F. Hall, Jr., Tom Moore, Bridget Donnell Newton, Mark Pierzchala
Acting City Manager Jennifer Kimball | Acting City Clerk Brenda Bean | City Attorney Debra Yerg Daniel

ATTACHMEN

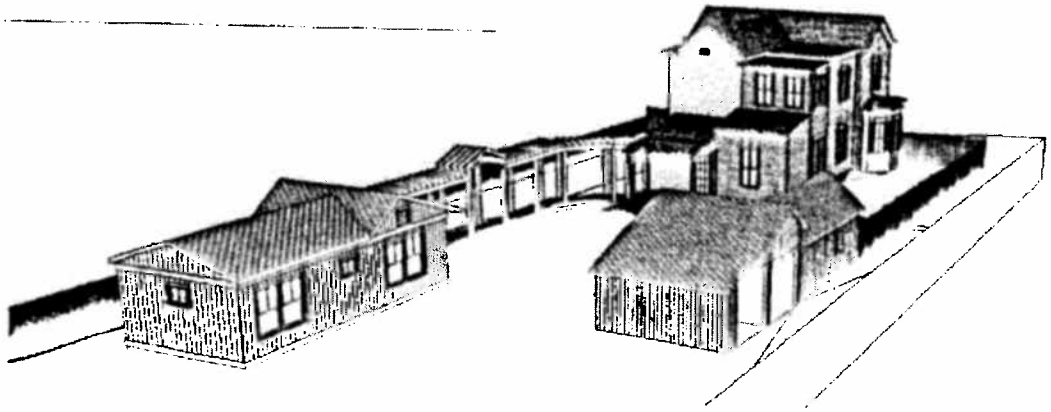
Robinson Residence

400 West Montgomery Avenue
Rockville, MD 20850

HISTORIC DISTRIC COMMISSION REVIEW



Front Perspective



Rear Perspective

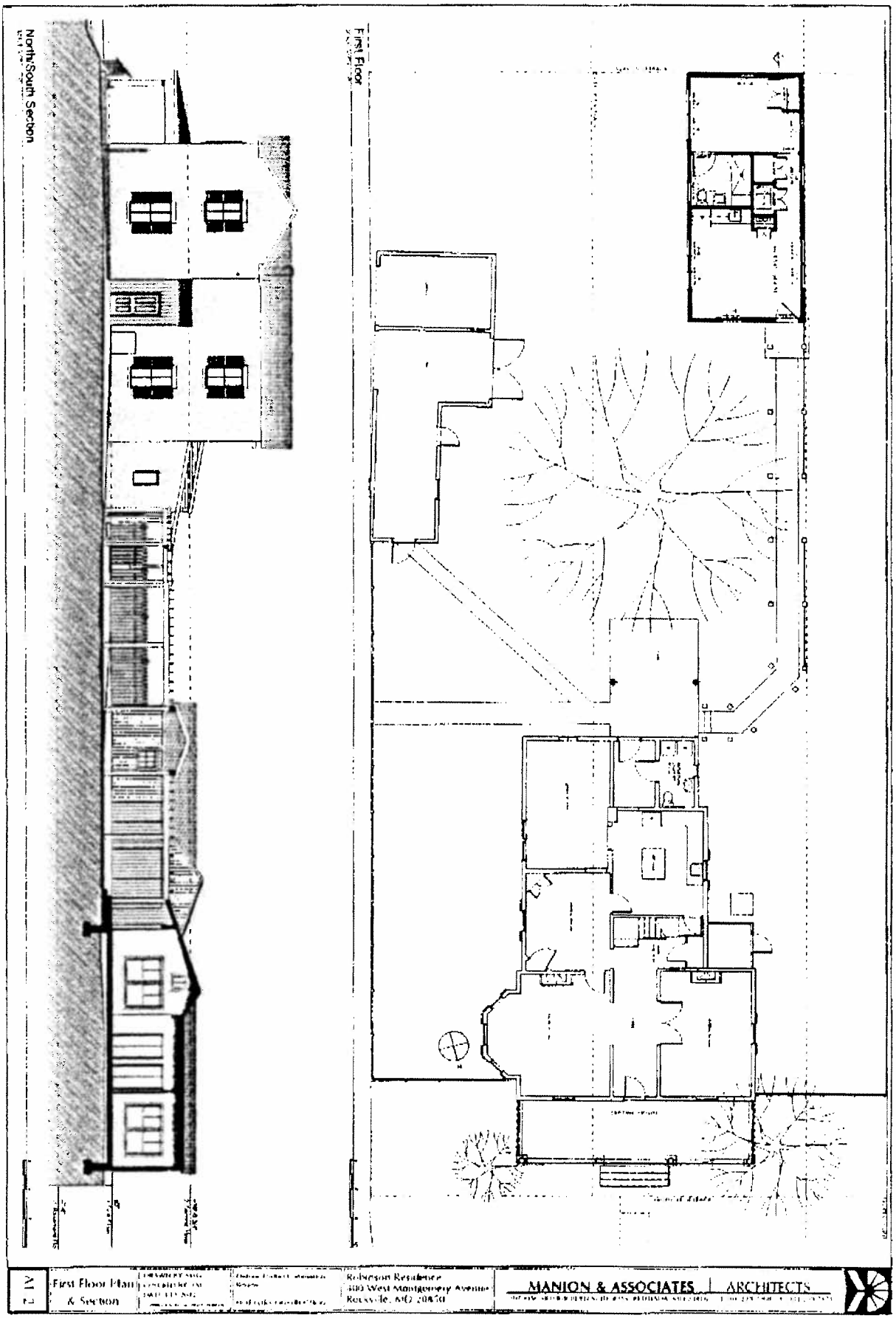
MANION & ASSOCIATES | ARCHITECTS

Robinson Residence
400 West Montgomery Avenue
Rockville, MD 20850

Cover Sheet

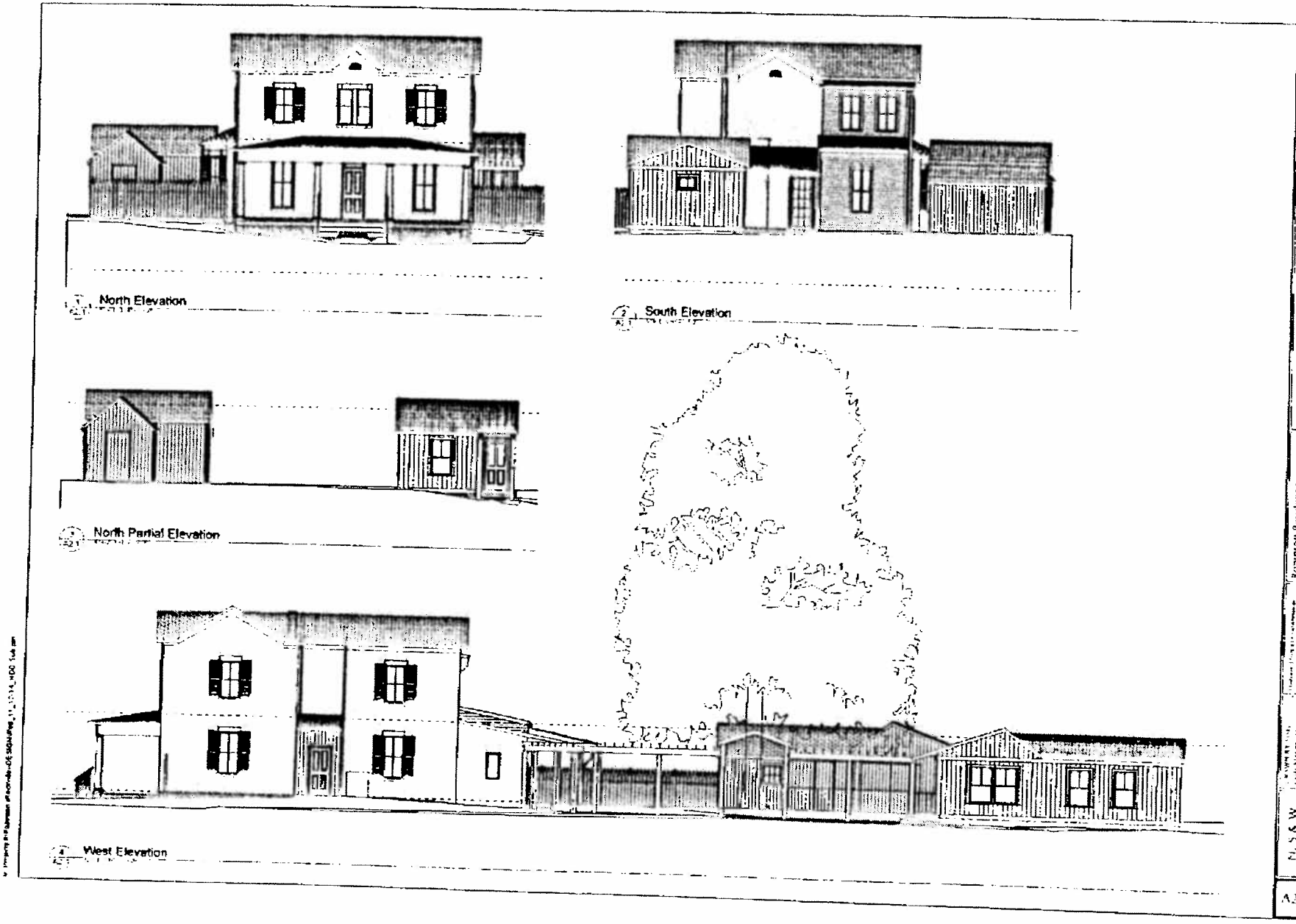
C-1

2-1


North/South Section
First Floor
A1.2
First Floor Plan
& Section
Robinson Residence
300 West Montgomery Avenue
Rockville, MD 20850
MANION & ASSOCIATES | ARCHITECTS

2-2

ATTACHMENT



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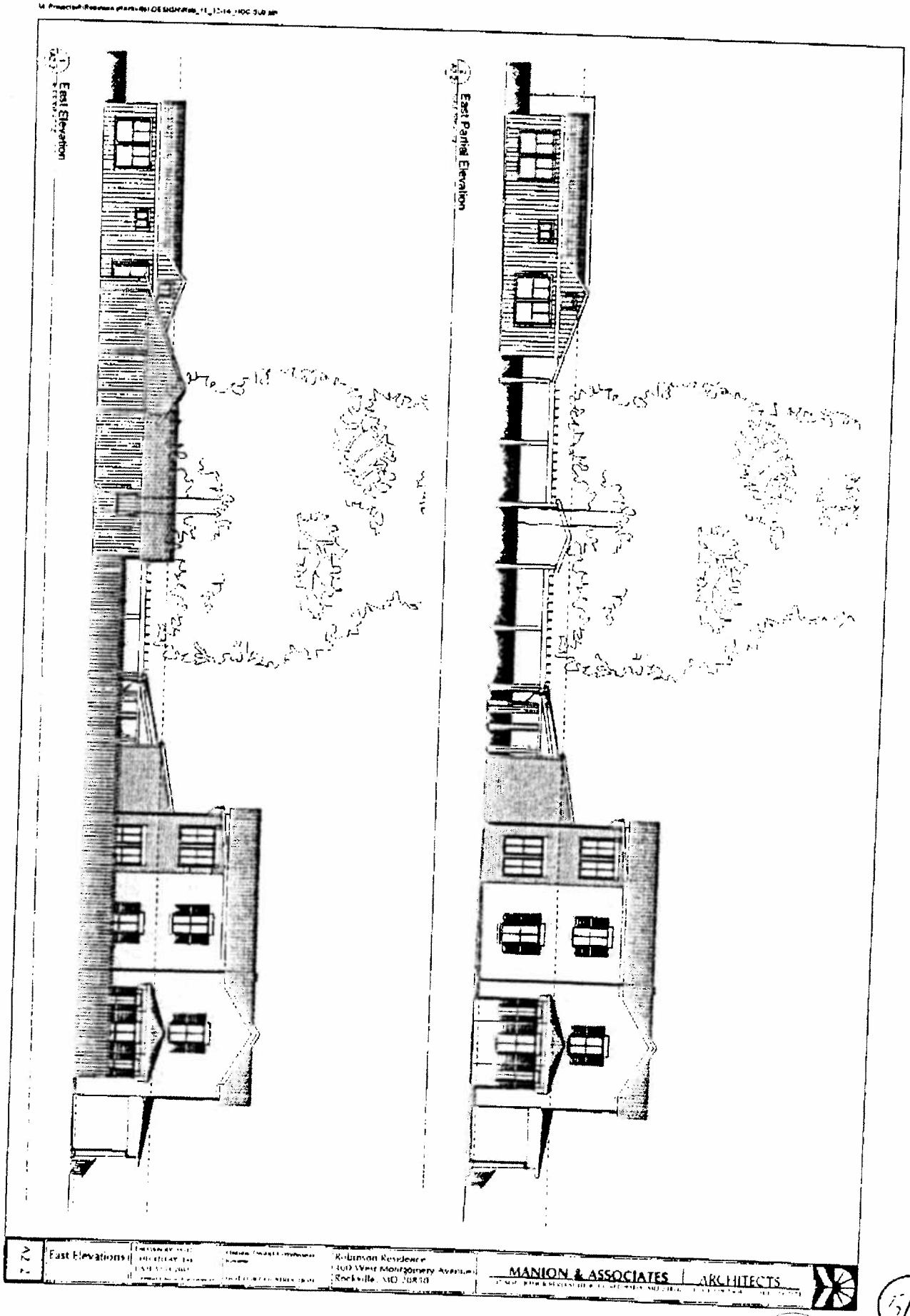
ATTACHMENT



5-1

2-4

Updated Drawings
Melissa Gobrecht
to:
Rziek
02/23/2012 11:43 AM
Show Details

History: This message has been replied to.

Dear Robin,

Attached are the revised drawings. The height is about 1'6" higher than what we previously submitted. Please let me know if you want the markers removed from the drawings. It took us some time to finally coordinate all of the pieces with the engineer. His analysis added some details to the trellis and the height of the roof.

Please contact us with any questions or concerns. Also, please let me know when we can pick up the window and siding sample from you.

Thank you,

Melissa Gobrecht, LEED AP

MANION+MARTIN ARCHITECTS, P.C.
7307 MacArthur Blvd; Ste 216
Bethesda, Maryland 20816
P 301.229.7000 x 306
F 301.229.7171
www.manionandmartin.com

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3-1

Robinson Residence

400 West Montgomery Ave
Rockville, MD 20850

Attachment 3

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7307 MACARTHUR BLVD #216
BETHESDA, MD 20816
PHONE: 301.229.7000
FAX: 301.229.7121
www.manionandassociates.com

ZONING:

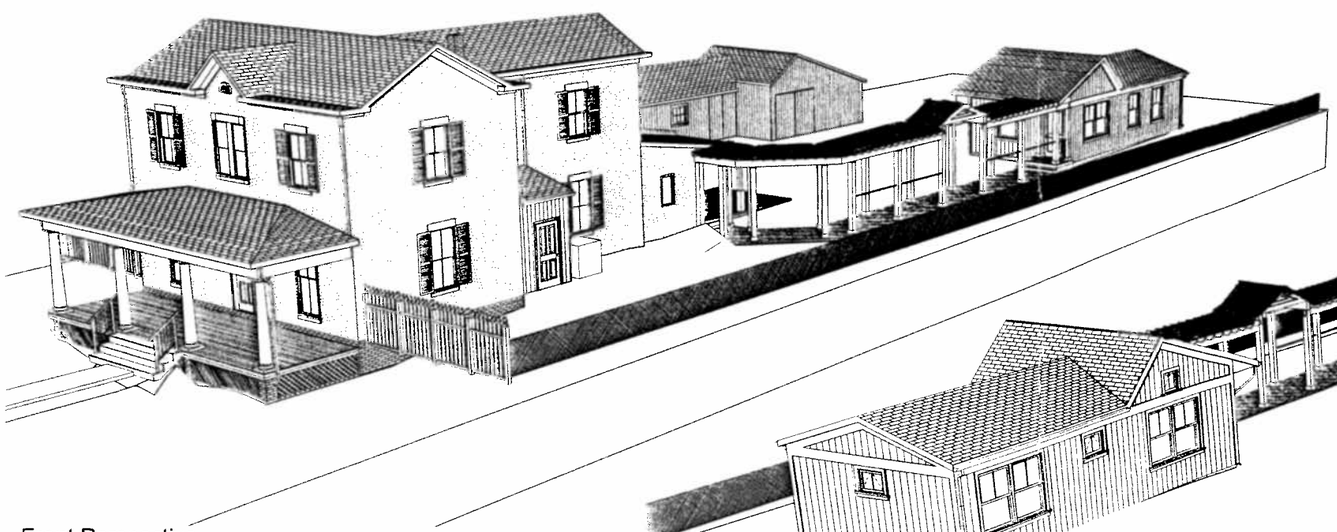
ZONE:	R-90 HISTORIC
LOT SIZE:	14,507 SF
EXIST. LOT COVERAGE (GARAGE EXCLUDED):	1920 SF
MAX ALLOWABLE COV'G:	25% = 3,626.75 SF
PROPOSED LOT COV'G:	2,842.5 SF
ALLOWABLE BLDG HGT:	35 FT
PROPOSED ADD'N HGT:	
MAX IMPERVIOUS SURFACE FRONT:	N/A, EXIST
FRONT SETBACK:	30 FT
SIDE SETBACK:	11 FT
REAR SETBACK:	25 FT

SCOPE OF WORK:

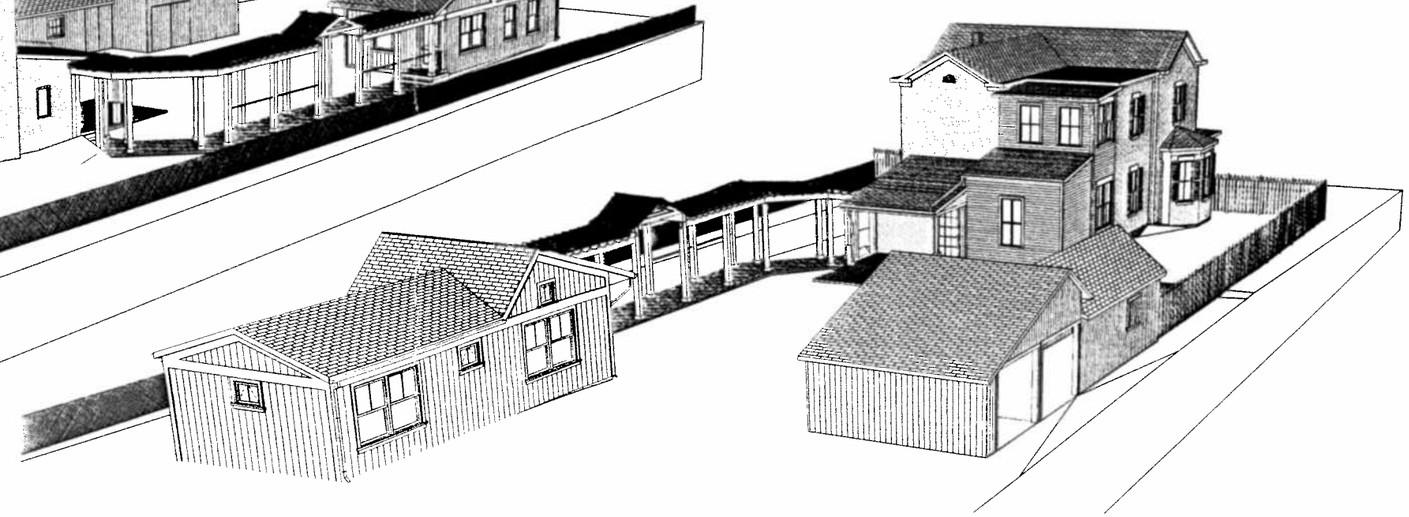
ADDITION TO EXISTING HOME CONSISTING OF TRELLIS, LIVING ROOM, WET BAR, BATHROOM AND BEDROOM.

SHEET INDEX

Page	Name
EX.1	Cover Sheet
EX1.1	Basement Floor
EX1.2	First Floor
EX1.3	Second Floor
EX1.4	Attic Floor
EX1.5	Roof
EX2.1	Front Elevation
EX2.2	Rear Elevation
EX2.3	Right Elevation
EX2.4	Left Elevation
C.1	Cover Sheet
A1.1	Site Plan
A1.2	First Floor Plan & Section
A1.3	Roof Plan
A2.1	N, S & W Elevations
A2.2	East Elevations
A3.1	Exterior Pictures
A3.2	Neighborhood Pictures
G1.1	General Information
G1.2	Project Notes
C1.1	Site Plan
D1.1	First Floor Demo Plan
S1.1	Foundation Plan
S1.2	First Floor Framing Plan
S1.3	Structural Details
A1.1	First Floor & Roof Plan
A2.1	North & South Elevation, Section
A2.2	East & West Elevation
A3.1	Construction Details
A3.2	Details & Wall Section
A3.3	Door & Window Details & Sc...
A4.1	Interior Elevations & Schedules
E1.1	First Floor Electrical Plan
M1.1	First & Second Floor Mechani...



Front Perspective



Rear Perspective

Robinson Residence
400 West Montgomery Ave
Rockville, MD 20850

General Information

SEAL

DRAWN BY:	MAG
CHECKED BY:	TM
DATE:	2/22/2012
PROJECT PHASE:	CD
REVISIONS:	

DO NOT SCALE DRAWINGS

Written dimensions on these drawings shall have precedence over scale dimensions. Contractors shall verify and be responsible for all dimensions and conditions on the job and this office must be notified of any variations from the dimensions and conditions.

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G1.1

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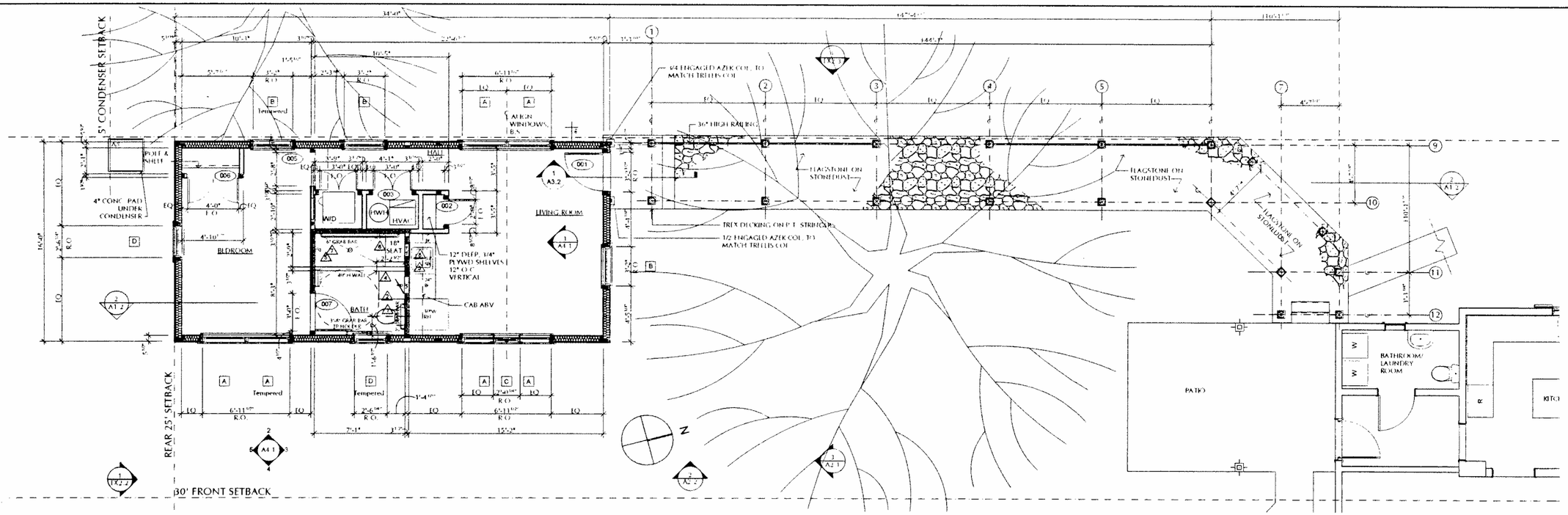
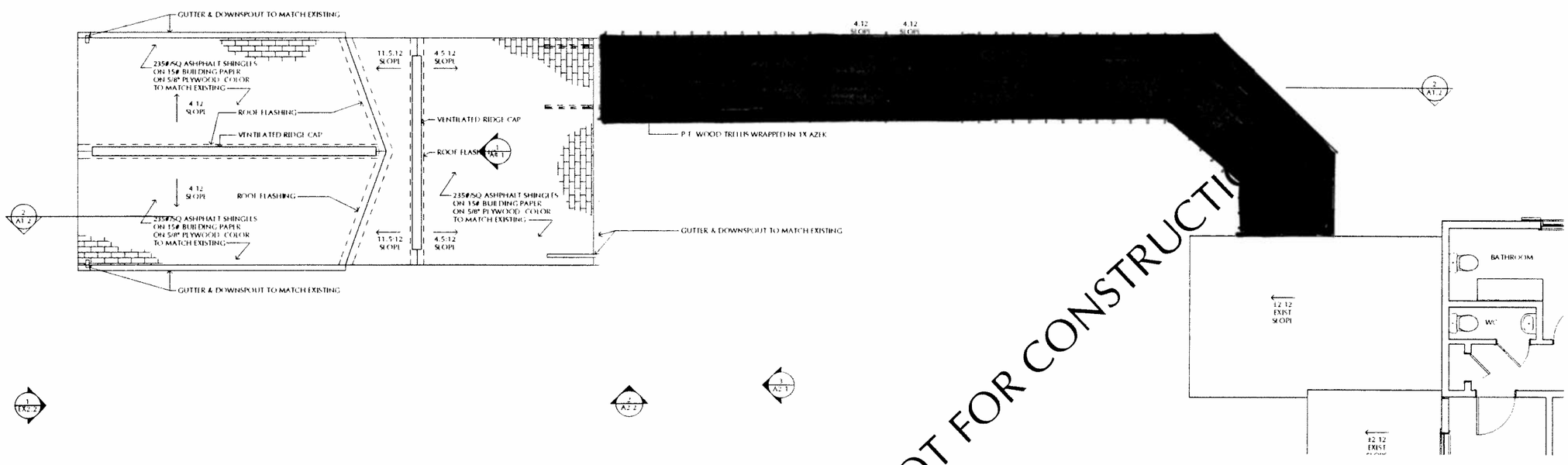
3-2

Attachment 3



1 A1.1 **First Floor**
SCALE 1/4" = 1'-0"



NOT FOR CONSTRUCTI

2 A1.1 **Second Floor/Addition Roof Plan**
SCALE 1/4" = 1'-0"

NOTE:
DIMENSIONS ARE TO FACE OF EXISTING FINISHES OR TO FACE OF NEW MASONRY OR WOOD FRAMING

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First Floor & Roof Plan

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A1.1

3-3

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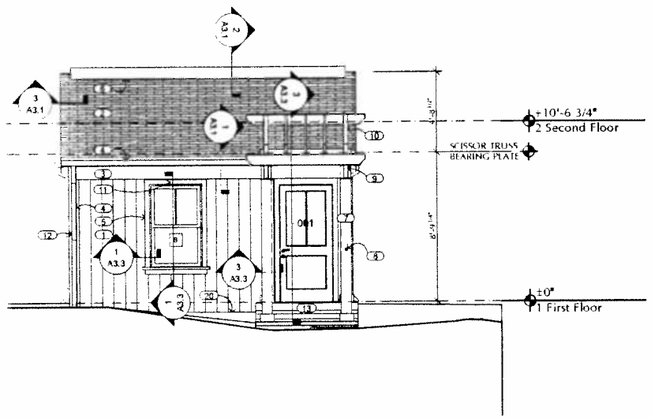
Attachment 3

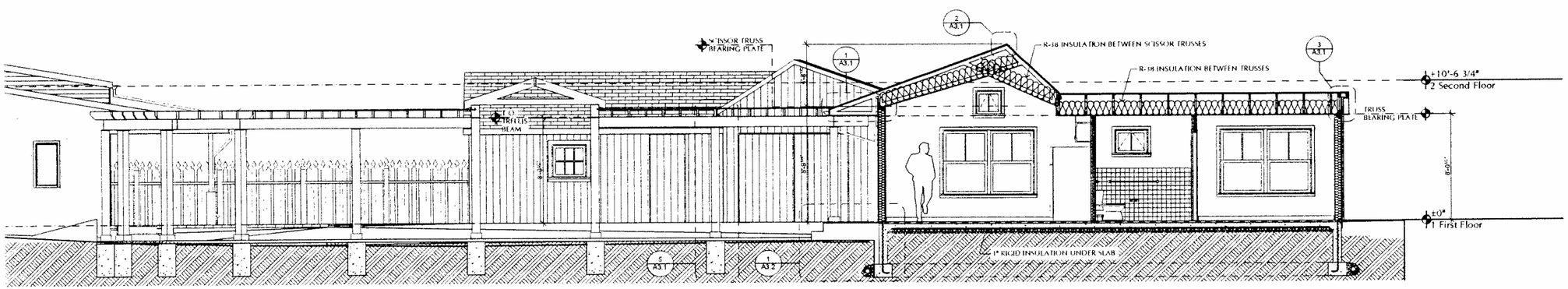
ELEVATION KEYNOTES

1. NICHIHA PANEL 8" O.C. VERTICAL GROOVE HOUSE WRAP ON 1/2" PLYWOOD
2. 235#/SQ. ASPHALT SHINGLES ON 15# BUILDING PAPER ON 5/8" PLYWOOD. COLOR TO MATCH EXISTING.
3. 5/4X10 AZEK TRIM BD
4. DOWNSPOUTS & GUTTERS TO MATCH EXISTING
5. 5/4X4 AZEK TRIM
6. RIDGE VENT
7. AZEK WRAPPED 6X6 PT COL
8. 36" HIGH RAILING
9. AZEK WRAPPED 2-2X10 BEAM, ALIGN W/ BAND BD
10. AZEK TRELLIS
11. 5/4X AZEK WINDOW TRIM, RUN TO UNDERSIDE OF BAND BD.
12. 5/4X6 AZEK CORNER BD
13. TREX DECKING ON P.T. RISERS
14. 5/4X8 AZEK TRIM BD
15. 1X6 AZEK EAVE BD
16. 1X6 AZEK RAKE BD W/ 1X QUARTER ROUND
17. EXISTING
18. 1/2" PARGING ON FOUNDATION WALL
19. 1/2" MDO
20. TERMITE SHIELD
21. VENTED SOFFIT



1 A2.1 North Partial Elevation
SCALE: 1/4" = 1'-0"

2 A2.1 South Elevation
SCALE: 1/4" = 1'-0"



3 A2.1 North/South Section
SCALE: 1/4" = 1'-0"

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North & South Elevation, Section

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SHEET 27 OF 34

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3-4

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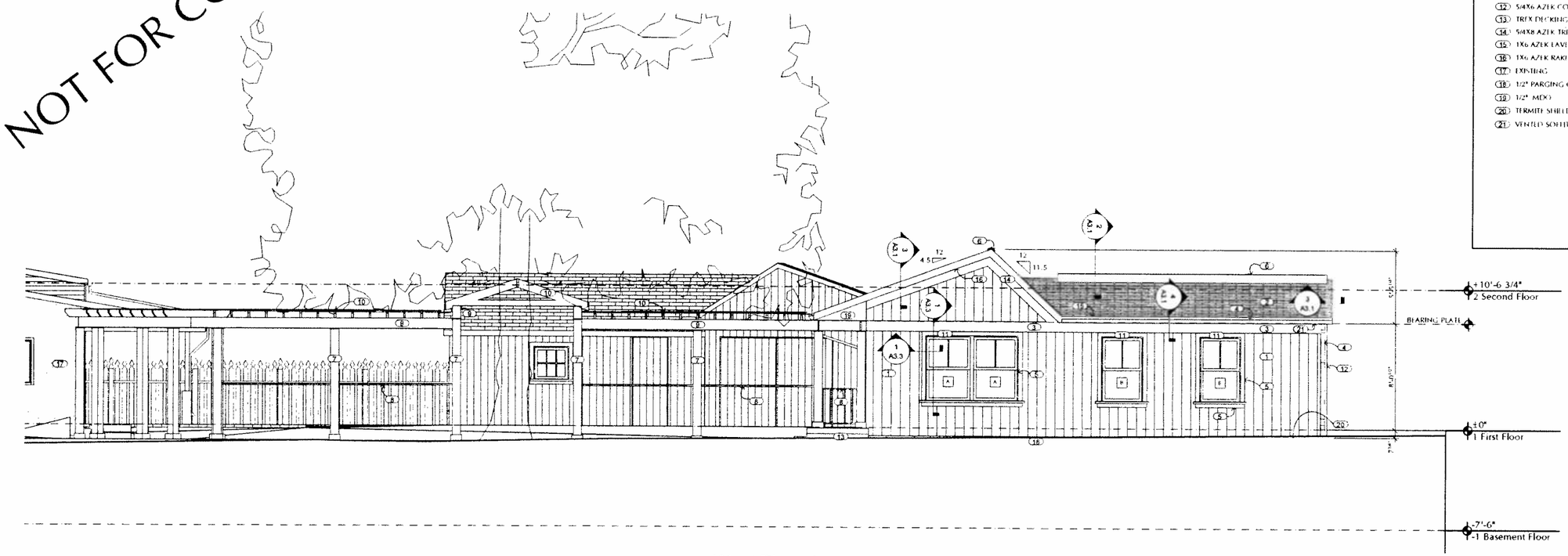
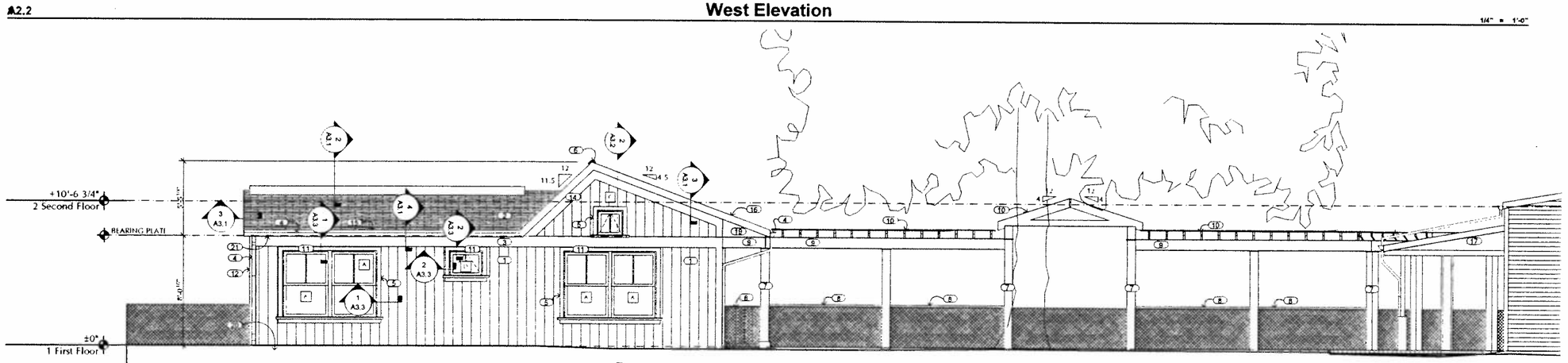


A2.2 **West Elevation** 1/4" = 1'-0"



2 A2.2 **East Partial Elevation**
SCALE 1/4" = 1'-0"

ELEVATION KEYNOTES

1. NICHIPANEL 8" O.C. VERTICAL GROOVE HOUSE WRAP OVER 1/2" PLYWOOD
2. 235#/SQ. ASPHALT SHINGLES ON 15# BUILDING PAPER ON 5/8" PLYWOOD COLOR TO MATCH EXISTING
3. 5/4X10 AZEK TRIM BD
4. DOWNSPOUTS & GUTTERS TO MATCH EXISTING
5. 5/4X4 AZEK TRIM
6. RIDGE VENT
7. AZEK WRAPPED 6X6 PT COL
8. 36" HIGH RAILING
9. AZEK WRAPPED 2-2X10 BEAM, ALIGN W/ BAND BD
10. AZEK TRELLIS
11. 5/4X AZEK WINDOW TRIM, RUN TO UNDERSIDE OF BAND BD
12. 5/4X6 AZEK CORNER BD
13. TREX DECKING ON P.T. RISERS
14. 5/4X8 AZEK TRIM BD
15. 1X6 AZEK EAVE BD
16. 1X6 AZEK RAKE BD W/ 1X QUARTER ROUND
17. EXISTING
18. 1/2" PARGING ON FOUNDATION WALL
19. 1/2" MDO
20. TERMITE SHIELD
21. VENTED SOFFIT

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East & West Elevation

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A2.2

SHEET 28 OF 34

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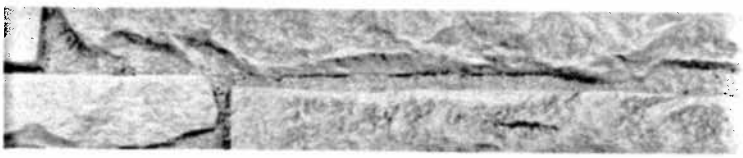
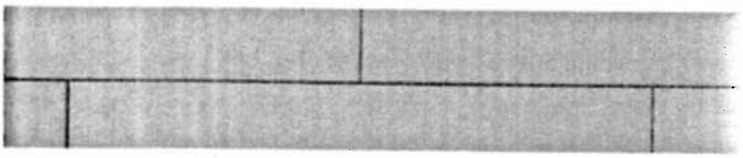
UNIQUELY DESIGNED LIKE NO OTHER

Brick, Stone and Block Panels

BRICK



STONE



BLOCK

Residential builders who are continually looking for ways to provide cost-effective solutions for their homes love what Nichiha fiber cement pre-finished brick, stone and block panels offer. With a wide range of texture and color options, builders have an easy time matching our products with their home designs. Smart builders know an exceptional value when they see one and Nichiha is a cost-effective solution that is manufactured to be a sustainable, long-lasting cladding. Uniquely designed like no other, Nichiha fiber cement masonry panels.

VintageBrick™ — White Wash

ArchitecturalBlock™ — Large — Gray

KuraStone™ — Desert

NICHIHA

Fiber Cement At Its Best™

6659 Peachtree Ind. Blvd., Suite AA

Norcross, Georgia 30092

Phone: 1-86 NICHIHA 1

nichiha.com

Product Certification: ES

Report No. ESR-1654

Silica Dust Warning: NICHIHA products may contain some amounts of crystalline silica [a.k.a. sand, silicon dioxide], which is a naturally occurring mineral. The amount will vary from product to product. Inhalation of crystalline silica into the lungs and repeated exposure to silica can cause health disorders, such as silicosis, lung cancer, or death depending upon various factors. To be conservative, Nichiha recommends that whenever cutting, sawing, sanding, sniping or abrading the product, users observe the Safety Instructions above. For further information or questions, please consult the MSDS, your employer, or visit www.osha.gov/SLTC/silicacrystalline/index.html and www.cdc.gov/niosh/topics/silica. The MSDS for Nichiha products are available at www.nichiha.com, at your local Nichiha dealer or through Nichiha directly at 1.866.424.4421. FAILURE TO ADHERE TO OUR WARNINGS, MSDS, AND OTHER INSTRUCTION MAY LEAD TO SERIOUS PERSONAL INJURY OR DEATH.

ARCHITECTURALBLOCK, FIBER CEMENT AT ITS BEST, KURASTONE, NICHIBOARD, NICHIPANEL, NICHIPRODUCTS, NICHISHAKE, NICHISOFFIT, NICHISTAGGERED, NICHISTRAIGHT, NICHITRIM, SIERRA PREMIUM and VINTAGEBRICK are trademarks of Nichiha USA, Inc.

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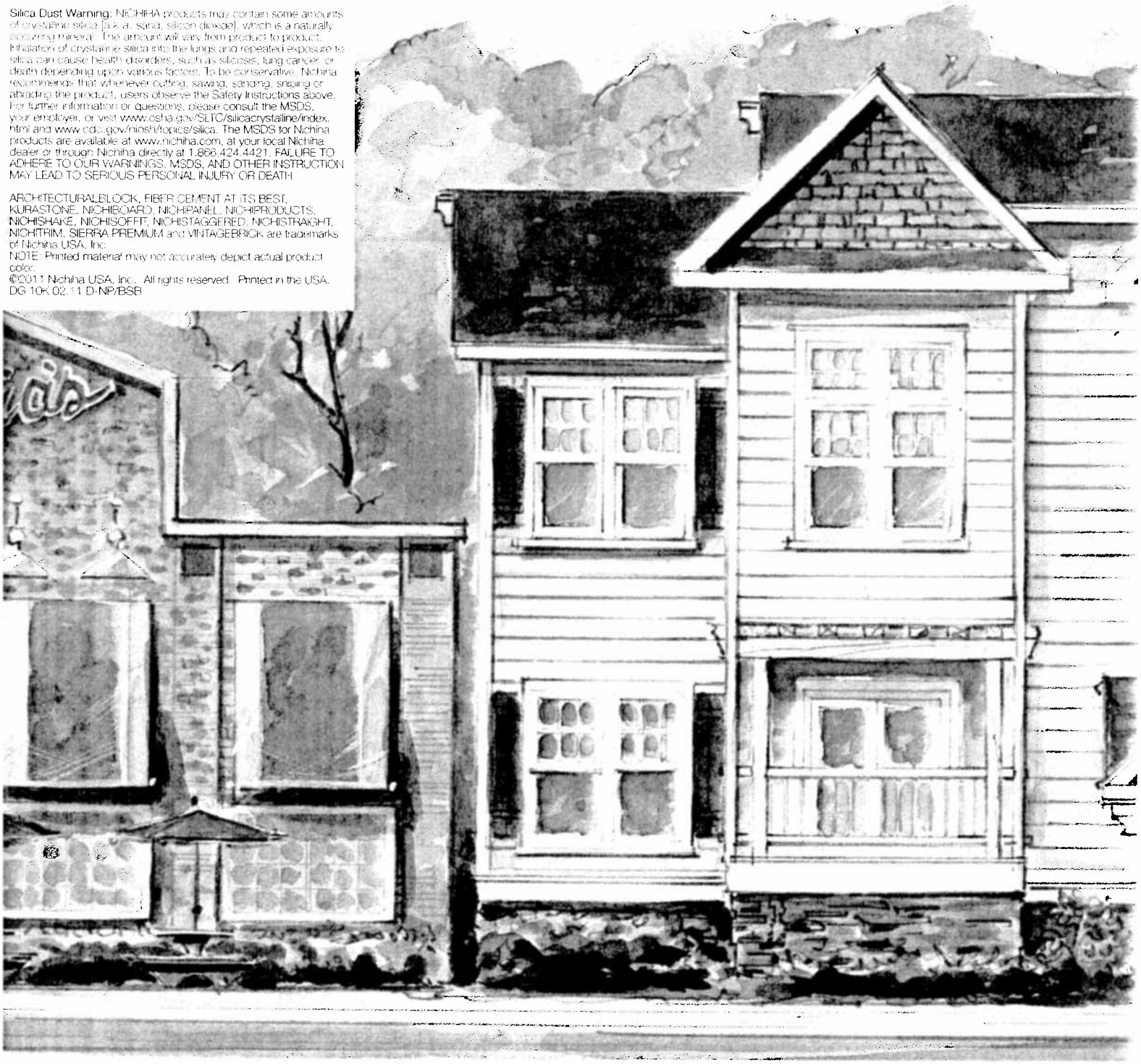
DG 10K 02.11 D-NP/BSB



SEE PAGE 8

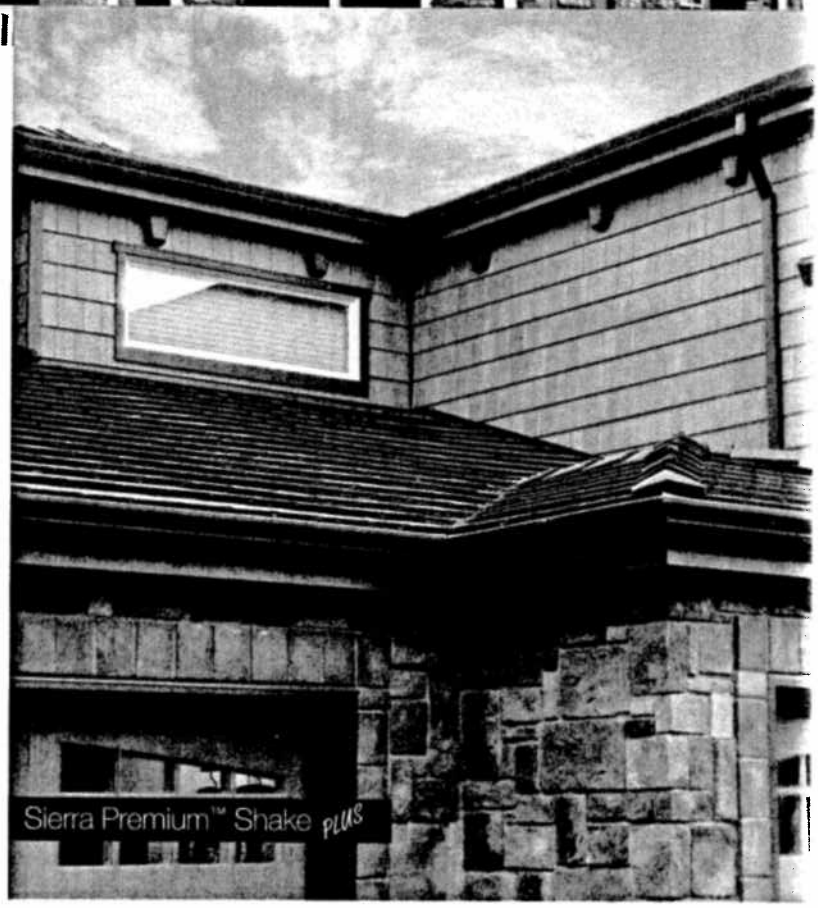
NICHIHA

TAKE A GOOD LOOK

AN ENDURING LOOK...
AN ENDEARING VALUE

NichiBoard™ — Cedar

Nichiha is proud of the products we produce, and we stand behind them like no other. Most of our products are backed by a lifetime limited warranty*. In all cases, we guarantee that Nichiha fiber cement products will not crack, rot or delaminate; are resistant to fungus and termite infestation and withstand extreme weather conditions.



Sierra Premium™ Shake PLUS

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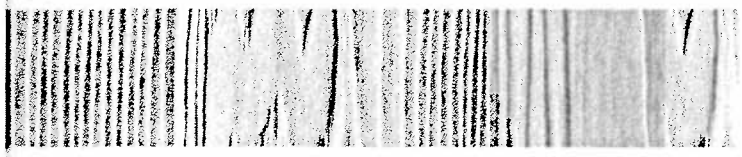
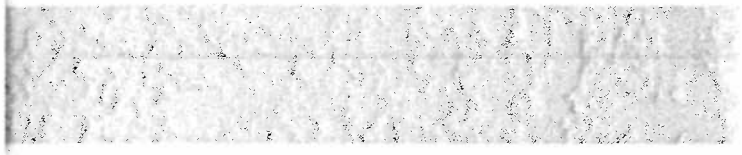
You'll see a product as versatile as you are

NICHIBOARD™

SIERRA PREMIUM™

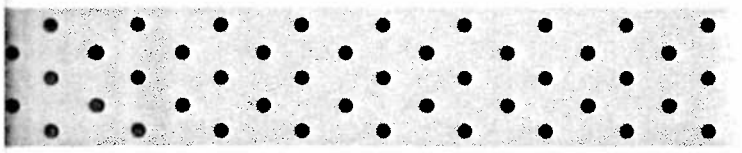


NICHISHAKE™



NICHIPANEL™

NICHITRIM™



NICHISOFFIT™

LIFETIME LIMITED WARRANTY

NICHIHA

NICHIHA WARRANTIES

- NichiBoard™, NichiPanel™, NichiShake™, NichiStaggered™, NichiStraight™, Sierra Premium™ Shake Plus and Sierra Premium™ Smooth – Lifetime limited warranty*.
- NichiTrim™ and NichiSoffit™ – 25-year limited warranty*.
- Duckback® Products, Inc. – 15-year 1-coat or 25-year 2-coat limited warranty* on paint finish.

* See Nichiha warranties for detailed information on terms, conditions and limitations. See Duckback® Products warranties for detailed information on terms, conditions and limitations. Visit nichiha.com for easy downloadable warranties or call toll-free 1.866.424.4421 for a copy.

Nichiha MSDS is available at nichiha.com, at your local NICHIHA dealer or call NICHIHA direct, toll-free 1.866.424.4421.

A CLOSER LOOK

HISTORY

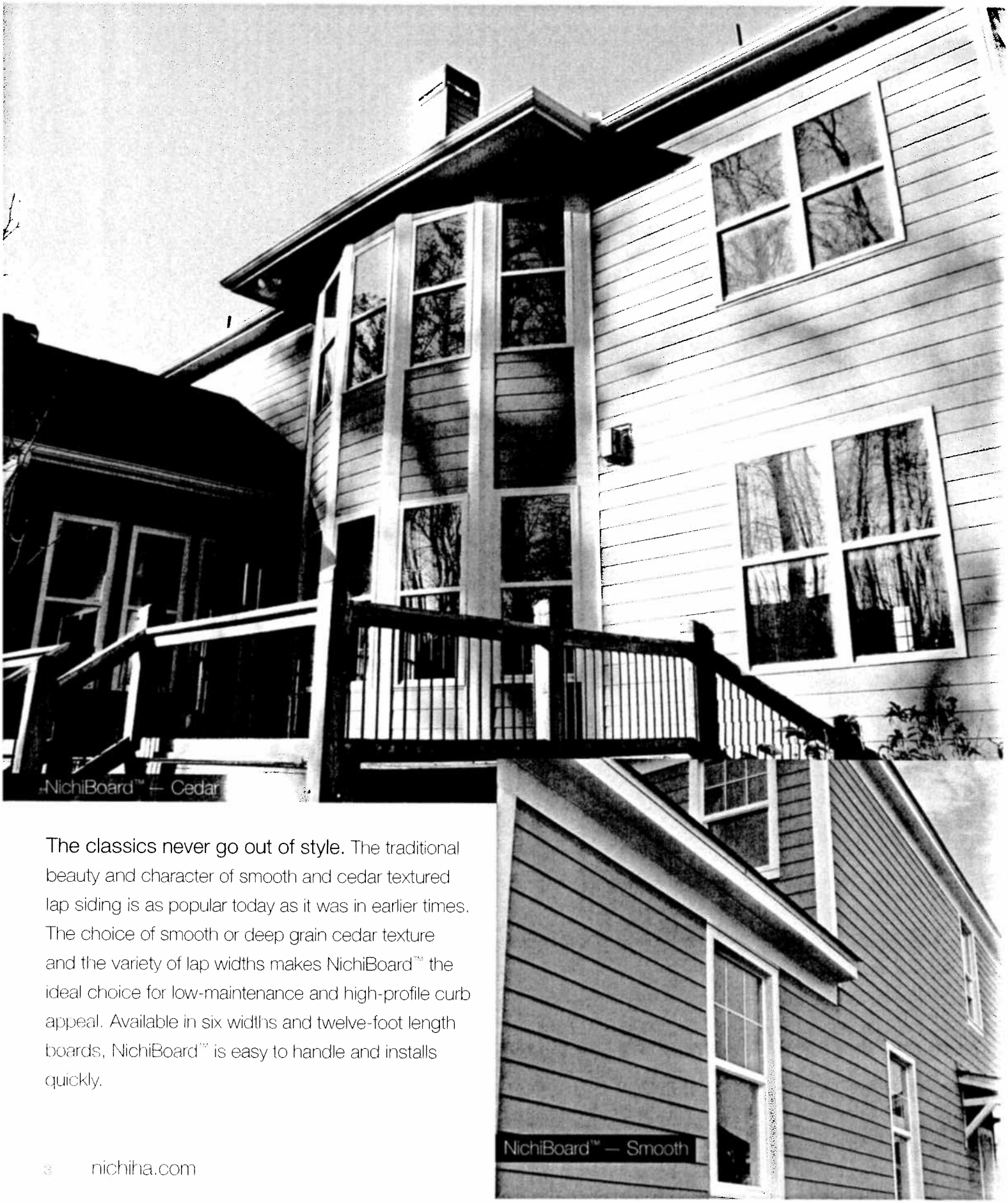
Founded in 1956, Nichiha Japan first began operations as a hardboard manufacturer, supplying dashboard and other components for the automobile industry. The company's immediate success was fueled by superior manufacturing technology and a constan drive for innovation.

That drive led to the eventual developme of fiber cement claddings; a category that would expand to include over 800 commercial and residential variations produced in 13 manufacturing facilities worldwide including a 300,000 square foot, state-of-the art manufacturing plan in Macon, GA.

Today, Nichiha is applying its brand of manufacturing excellence and innovation in every corner of the U.S. construction market and inspiring building professiona everywhere to take a closer look at Nichi

A PERFECT SOLUTION... ANYTIME, ANYWHERE

NichiBoard™

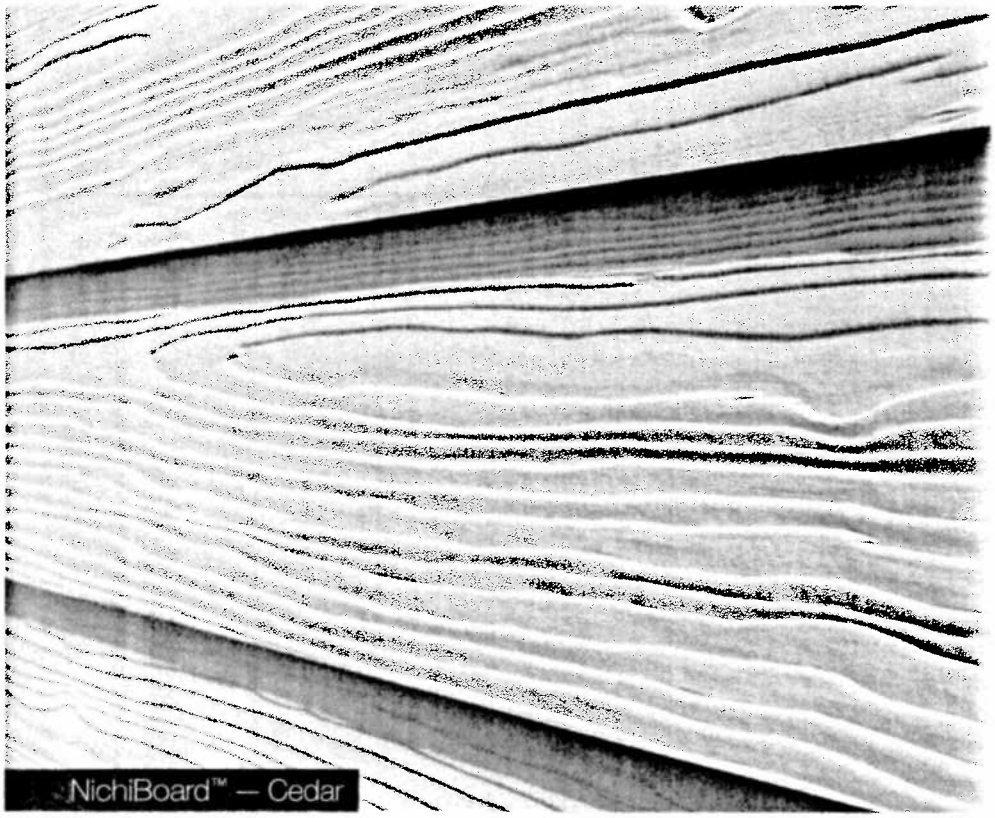


The classics never go out of style. The traditional beauty and character of smooth and cedar textured lap siding is as popular today as it was in earlier times. The choice of smooth or deep grain cedar texture and the variety of lap widths makes NichiBoard™ the ideal choice for low-maintenance and high-profile curb appeal. Available in six widths and twelve-foot length boards, NichiBoard™ is easy to handle and installs quickly.

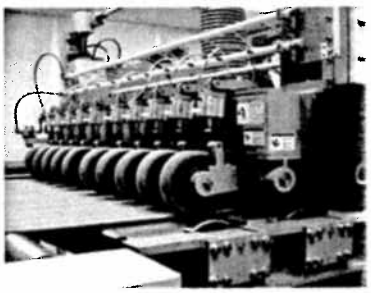
TECHNOLOGY

CEDAR

SMOOTH



NichiBoard™ — Cedar



Looking great from the curb is easy. We encourage people to take a much closer look. It's only on closer examination that you'll start to really understand what separates Nichiha from the pack. Up close is where our edges and deeper more realistic textures have their greatest impact. What enables us to accomplish this is Nichiha's proprietary state-of-the-art manufacturing process that uses over one million pounds of pressure. Our process creates a deeper pattern, denser shadow lines and a more realistic texture.

When you combine a superior manufacturing process with the highest level of material composition technology, you get better products. Nichiha has used their more than 35 years of experience of developing and working with fiber cement mixtures to create products that look great, are durable and use over 50% recycled content. All of this adds up to a lifetime of value.

NichiBoard™ Product Specifications

Profile	5-1/4"	6-1/4"	7-1/4"	8-1/4"	9-1/4"	12"
Width (in.)	5-1/4	6-1/4	7-1/4	8-1/4	9-1/4	12
Length (ft.)	12	12	12	12	12	12
Thickness (nom. in.)	5/16	5/16	5/16	5/16	5/16	5/16
Weight (lbs. per board)	12.1	14.5	16.8	19	21.4	27.8
Weight (lbs. per sq. ft.)	2.3	2.3	2.3	2.3	2.3	2.3
Coverage (sq. ft. per board)	5-1/4	6-1/4	7-1/4	8-1/4	9-1/4	12
Exposed Coverage (sq. ft. per board)	4	5	6	7	8	10-3/4
Packaging (pieces per pallet)	360	308	252	230	210	152

ATTRACTS COMPLIMENTS & DEFLECTS NATURE

Sierra Premium™ Shake Plus and Smooth

Sierra Premium™ Smooth

Designer: Robert M. Cain, Architect
Builder: Pinnacle Custom Building
Photographer: Paul Hultberg, Photographer

Better looking and guaranteed to stay that way. It's not hard to see why Sierra Premium™ Shake Plus is the #1 rated product* of its kind. Nichiha's 1/2" thick boards provide a more pronounced shadow line and are less likely to get damaged by the rigors of the jobsite or the effects of inclement weather. Built to withstand 150 M.P.H. sustainable winds, Sierra Premium™ boards are perfect for coastal areas and regions with consistently high winds. Sierra Premium™ also boasts a lifetime limited warranty, the best warranty in the business.

Sierra Premium™ Smooth Product Specifications

Profile	7"	8 3/4"
Height (in.)	7 (178mm)	8 3/4 [illegible]
Length (nom. ft. ~ actual mm)	10 (3030mm)	10 [illegible]
Thickness (nom. in. ~ actual mm)	1/2 (12mm)	1/2 [illegible]
Weight (lbs. per board)	18	[illegible]
Weight (lbs. per sq. ft.)	3.1	[illegible]
Coverage (sq. ft. per board)	5.8	[illegible]
Exposed Coverage (sq. ft. per board with 1-1/4" overlap)	4.8	[illegible]
Packaging (boards per pack ~ 24 sq. ft. per pack)	4	[illegible]

SIERRA PREMIUM™ SHAKE plus

PRIMED

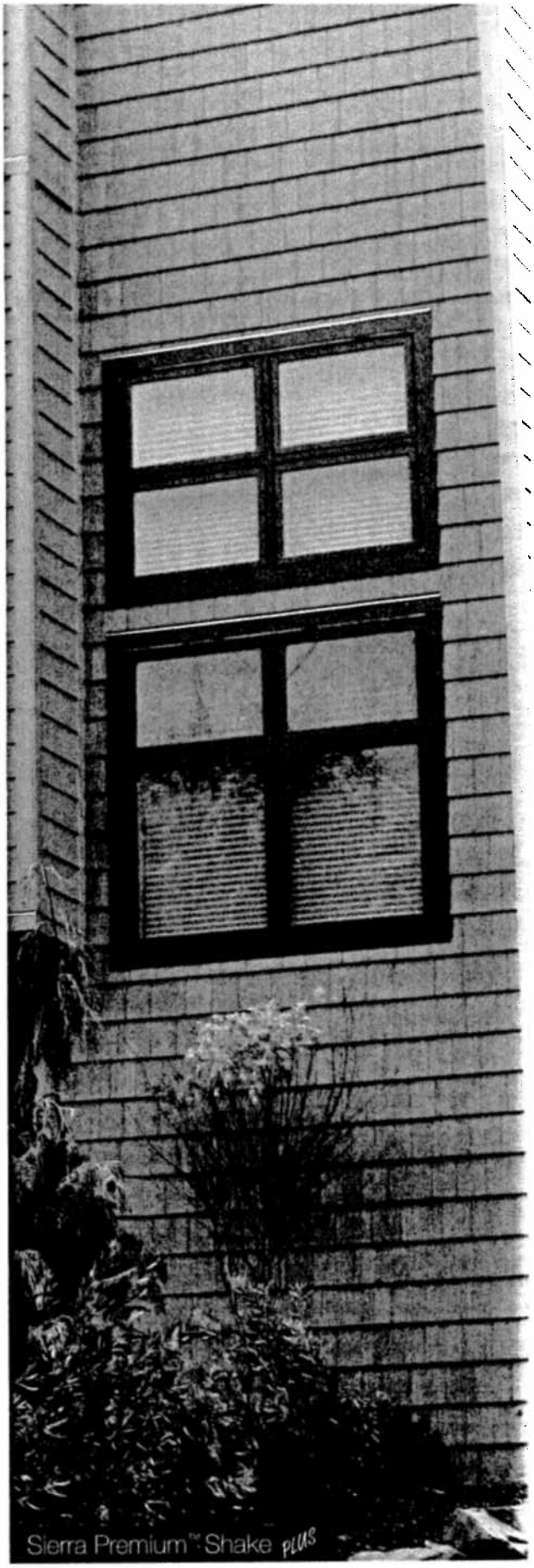
SIERRA PREMIUM™ SMOOTH

7" PROFILE

8-3/4" PROFILE

Sierra Premium™ Shake plus Product Specifications[2]

Profile	1/2"
Height (in.)	9
Length (nom. in. ~ actual mm)	9' 4" (2865mm)
Thickness (nom. in. ~ actual mm)	1/2 (12mm)
Weight (lbs. per board)	21.7
Weight (lbs. per sq. ft.)	3.1
Coverage (sq. ft. per board)	7
Exposed Coverage (sq. ft. board)	5.9
Packaging (boards per pallet)	150



[1] Rated #1 by a leading consumer magazine.
[2] See Nichiha warranties for detailed information on terms, conditions and limitations.
[3] Paint finish (Duckback® Products, Inc.) - 1-coat - 15-year limited warranty; or 2-coat - 25-year limited warranty.

BEAUTY WITHOUT COMPROMISE

NichiShake™, NichiStaggered™ and NichiStraight™

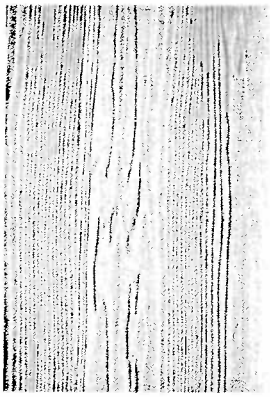
Everything you love about cedar. NichiShake™ delivers all the warmth and charm of traditional cedar shakes, without the tricky and timely installation process and the lifetime of ongoing maintenance. The deep grain and variable-sized individual shake boards make NichiShake™ almost impossible to distinguish from real cedar. Its total lack of upkeep issues make it impossible to resist.

NichiStaggered™ and NichiStraight™ - These cedar textured shake panels have the authentic look of individual shakes and offer a quicker installation. The panels are 5/16 inches thick, which is 25% thicker than other fiber cement shake panels. Both shake panels have all of the benefits of our NichiBoard™ siding: deep grain texture, high concentration of recycled content and a lifetime limited warranty*.

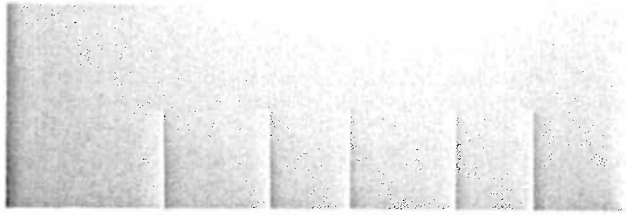
SMALL

MEDIUM

LARGE



NICHISTAGGERED™



NICHISTRAIGHT™

NichiShake™ Product Specifications

Profile	6-1/4"	8-1/4"	12"
Width (in.)	6-1/4	8-1/4	12
Height (in.)	18	18	18
Thickness (nom. in.)	5/16	5/16	5/16
Weight (lbs. per piece)	1.71	2.25	3.28
Weight (lbs. per sq. ft.)	2.2	2.2	2.2
Coverage (sq. ft. per piece)	.78	1.03	1.5
Exposed Coverage (sq. ft. per piece with 10" overlap)	.35	.46	.67
Packaging (pieces per bundle)	11	11	11

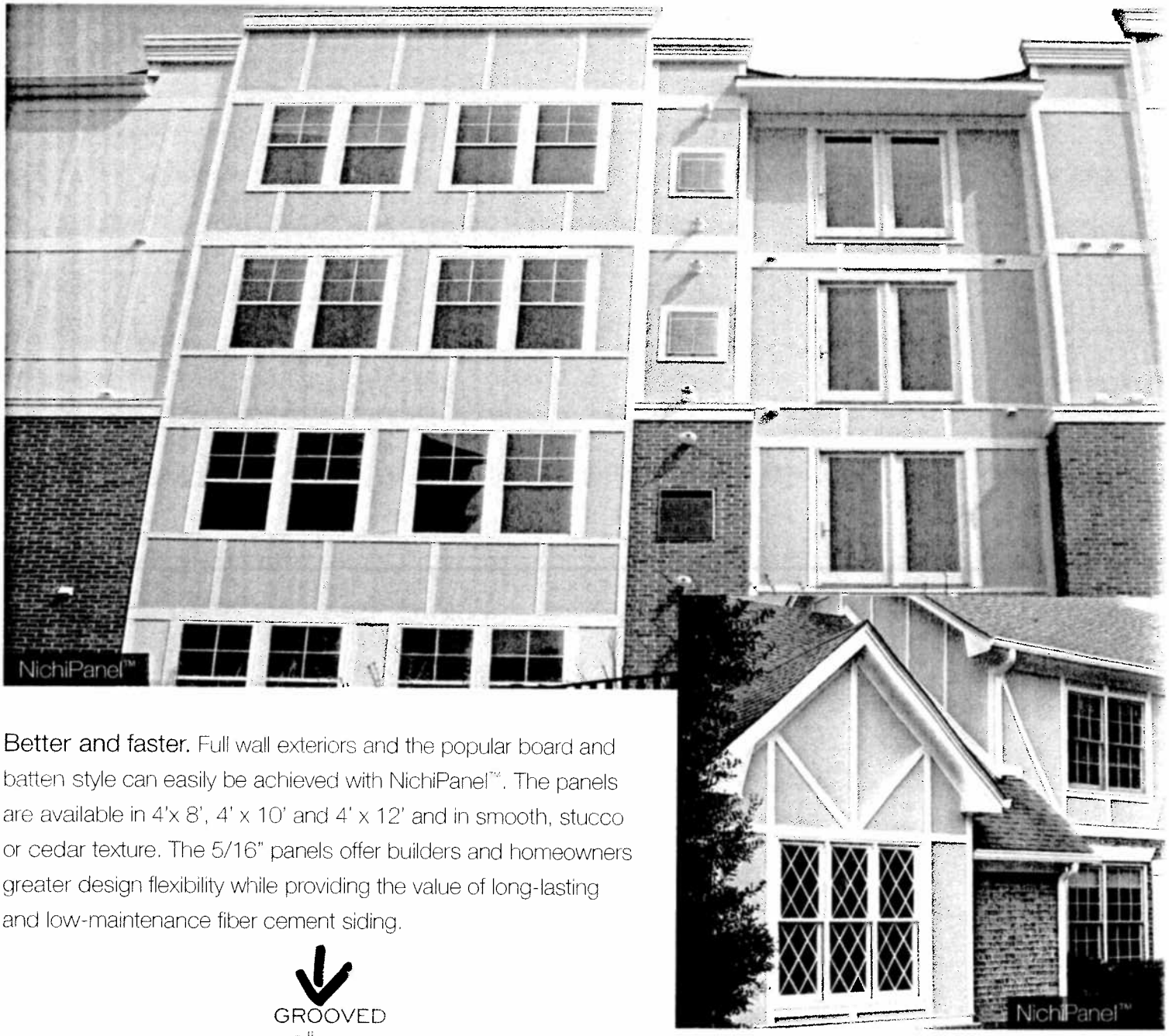
NichiStaggered™/NichiStraight™ Product Specifications

Profile	NichiStaggered™	NichiStraight™
Height (in.)	16	16
Length (ft.)	4	4
Thickness (nom. in.)	5/16	5/16
Weight (lbs. per piece)	12	12.5
Weight (lbs. per sq. ft.)	2.2	2.2
Packaging (pieces per pallet)	100	86
Pieces per square	50	43

* See Nichiha warranties for detailed information on terms, conditions and limitations.

CAPTURE THE LOOK FOR LESS

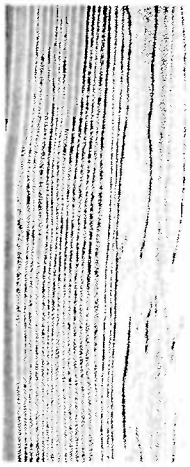
NichiPanel™



Better and faster. Full wall exteriors and the popular board and batten style can easily be achieved with NichiPanel™. The panels are available in 4'x 8', 4' x 10' and 4' x 12' and in smooth, stucco or cedar texture. The 5/16" panels offer builders and homeowners greater design flexibility while providing the value of long-lasting and low-maintenance fiber cement siding.

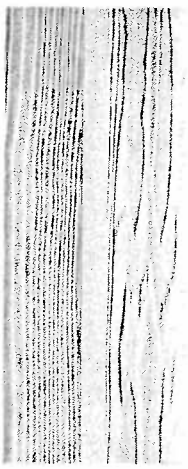
GROOVED 8" O.C.

CEDAR



SMOOTH

CEDAR

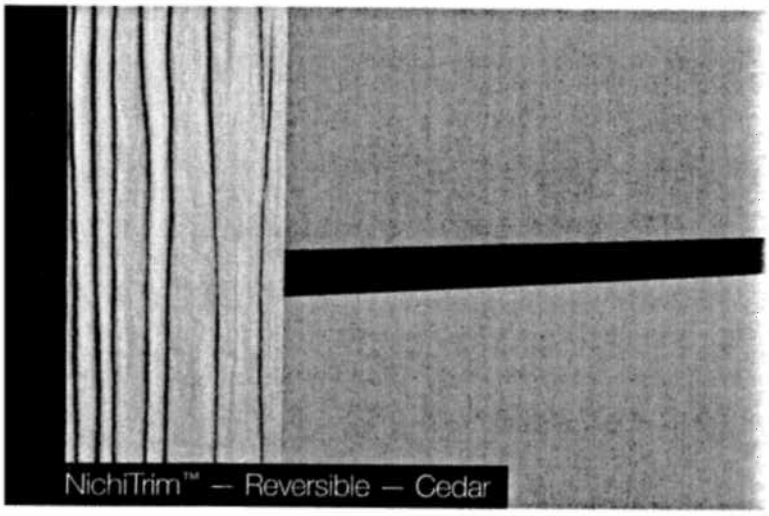


STUCCO

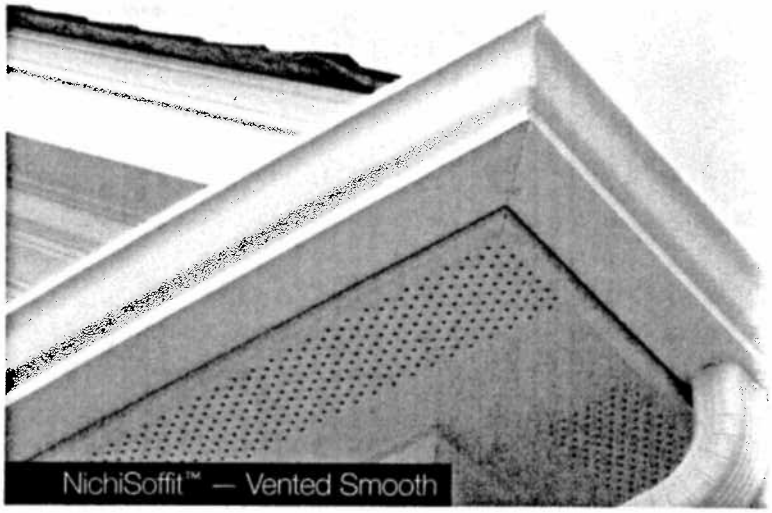
NichPanel™ Product Specifications			
Profile			
Height (ft.)	8	10	12
Length (ft.)	4	4	4
Thickness (nominal. in.)	5/16	5/16	5/16
Weight (lbs. per sq. ft.)	2.3	2.3	2.3
Weight (lbs. per panel)	74	92.5	111
Coverage (sq. ft. per panel)	32	40	48
Packaging (panels per pallet)	50	40	40

THE FINISHING TOUCHES

NichiTrim™ and NichiSoffit™



NichiTrim™ — Reversible — Cedar



NichiSoffit™ — Vented Smooth

Always perfect, and engineered to stay that way. Available smooth or with cedar texture, NichiTrim™ boards offer the low-maintenance façade home owners desire. NichiTrim™ boards come in 7/16", 3/4" and 1" thicknesses and are factory primed and sealed providing a beautiful and long-lasting appearance. NichiTrim™ extruded boards are always perfect on both sides; never warped or knot-holed, eliminating material waste and wasted time.

After installation, people tend to forget about NichiSoffit™...that's by design. As popular as they are, most people tend to forget about NichiSoffits altogether... and that's fine by us. They quietly provide a lifetime of good looks, durability and low-maintenance. Available smooth or in cedar texture and in vented and non-vented styles, NichiSoffit™ panels are factory primed and sealed assuring a long-lasting, attractive appearance.

NICHITRIM™

CEDAR*

SMOOTH*

*4/4" and 5/4" trim boards come reversible.

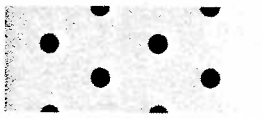
NICHISOFFIT™

NON-VENTED CEDAR

VENTED CEDAR

NON-VENTED SMOOTH

VENTED SMOOTH



NichiTrim™ Product Specifications

Profile	Actual	3-1/2"	5-1/2"	7-1/4"	7-1/2"	9-1/4"	11-1/4"	11-1/2"
Thickness (in.)	7/16" 3/4" 1"	• • •	• • •	 • •	•	 • •	 • •	•
Length (ft.)	7/16" 3/4" 1"	12 10 10	12 10 10	 10 10	12	 10 10	 10 10	12
Weight (lbs. per piece)	7/16" 3/4" 1"	11.3 13.7 18.1	17.8 21.6 28.5	 28.4 37.4	24.3	 36.2 47.6	 44.1 58.1	37.2
Weight (lbs. per sq. ft.)	7/16" 3/4" 1"	3.2 4.7 6.2	3.2 4.7 6.2	 4.7 6.2	3.2	 4.7 6.2	 4.7 6.2	3.2
Packaging (pieces per pallet)	7/16" 3/4" 1"	390 344 256	240 215 160	 168 124	180	 129 96	 100 74	120

NichiSoffit™ Product Specifications

Profile	Non-Vented				Vented		
Height (in.)	12	16	24	48	12	16	24
Length (ft.)	12	12	8	8	12	12	8
Thickness (in.)	1/4	1/4	1/4	1/4	1/4	1/4	1/4
Weight (lbs. per piece)	22.2	29.6	29.6	59.2	22.2	29.6	29.6
Weight (lbs. per sq. ft.)	1.8	1.8	1.8	1.8	1.8	1.8	1.8
Packaging (pieces per pallet)	180	135	120	60	180	135	120