

CS-11-132
cm1739-001

CHANGE ORDER FORM

CAP701

Change Order Number: 1	Change Order Date: 10/31/2011
Architect's Project Number:	
Contract for:	Contract Date: 6/15/2011

To:
 American Beach Property Owner Assoc
 c/o NCBOCC
 96135 Nassau Place, Suite 1
 Yulee, FL 32097

From:
 AC General, Inc.
 401 Agmac Avenue
 Jacksonville, FL 32254

Our Project Code: **1145**

Project:

Original Contract Sum:	\$169,000.00
Previous Change Orders:	\$0.00
Contract Sum:	\$169,000.00
Value of this Change Order:	\$11,736.26
New Contract Sum:	\$180,736.26

DISTRIBUTE TO:

<input checked="" type="checkbox"/> Owner	<input checked="" type="checkbox"/> Contractor	<input type="checkbox"/> Other
<input checked="" type="checkbox"/> Architect	<input type="checkbox"/> Field	<input type="checkbox"/> Construction Manager

The Contract Completion date will change by:
additional 5 days

The expected completion date will be: 1/13/2012

The Contract is Changed as Follows:

Adding 1" rigid insulation with screws-\$7667.41
 Extra Framing material unforeseen conditions- \$656.65
 Demo labor- 3menX8hrsX\$15= \$360.00
 Cleanup labor- 3menX8hrsX\$15= \$360.00
 Framing labor- 3menX8hrsX\$15= \$360.00
 Carpentry labor- 3menX8hrsX\$25= \$600.00
 Trash Box- \$100.00
 Subtotal \$10104.06
 OHP@15% \$ 1515.00
 Bond@1% \$ 117.20
 TOTAL \$11,736.26

Architect

Zona & Associates, P.A.
 107 East Bay Street
 Jacksonville, FL 32202

Signature

Date

Contractor

AC General, Inc.
 401 Agmac Avenue
 Jacksonville, FL 32254

Signature

Date

Owner

American Beach Property Owners Asso
 NCBOCC
 96135 Nassau Place, Suite 1

Signature

Date

American Beach Historical Park Evans rendezvous Building

Change Number 1 add5 days

Un for seen coundtion

Adding 1 inch of rigid insulation with screws	7667.41
Extra framing due to unforeseen Material only	656.65
Demo labo 3 men 8 hrs each 15hrx8=120x3=360	360
clean up 3 men 8 hrs each 15x8 =120x3=360	360
frameing 3men 8 hrs each 15x8 =120x3 =360	360
carp 3 men 8 hrs each 25.00x8=200x3=600	600
Trash box	100
	10104.06
<u>OHP@ 15%</u>	1515.6
Total	11620.06
Bond !%	116.2
Grand total	11736.26

Tillman Building Services, Inc.

108 Halsema Road, N.

Jacksonville, FL 32220

Fl. Cert. General Contractor CGC1512791

Fl. Cert. Roofing Contractor CCC1327969

Fl. Cert. Underground Utility Contractor CUC1224721

tebo@tillmanroofing.com

Voice: 904.845.8280

Fax: 904.527.1463

Florida's SAFEST Roofing Contractor!!

QUOTATION

Quote Number: 659

Quote Date: Sep 30, 2011

Page: 1

Quoted To:

A C General Inc.
401 Agmac Ave.
JACKSONVILLE, FL 32254

Job Site:

American Beach Decking CO

www.tillmanroofing.com

Customer ID	Good Thru	Customer PO	Sales Rep
ACGeneral	10/30/11		

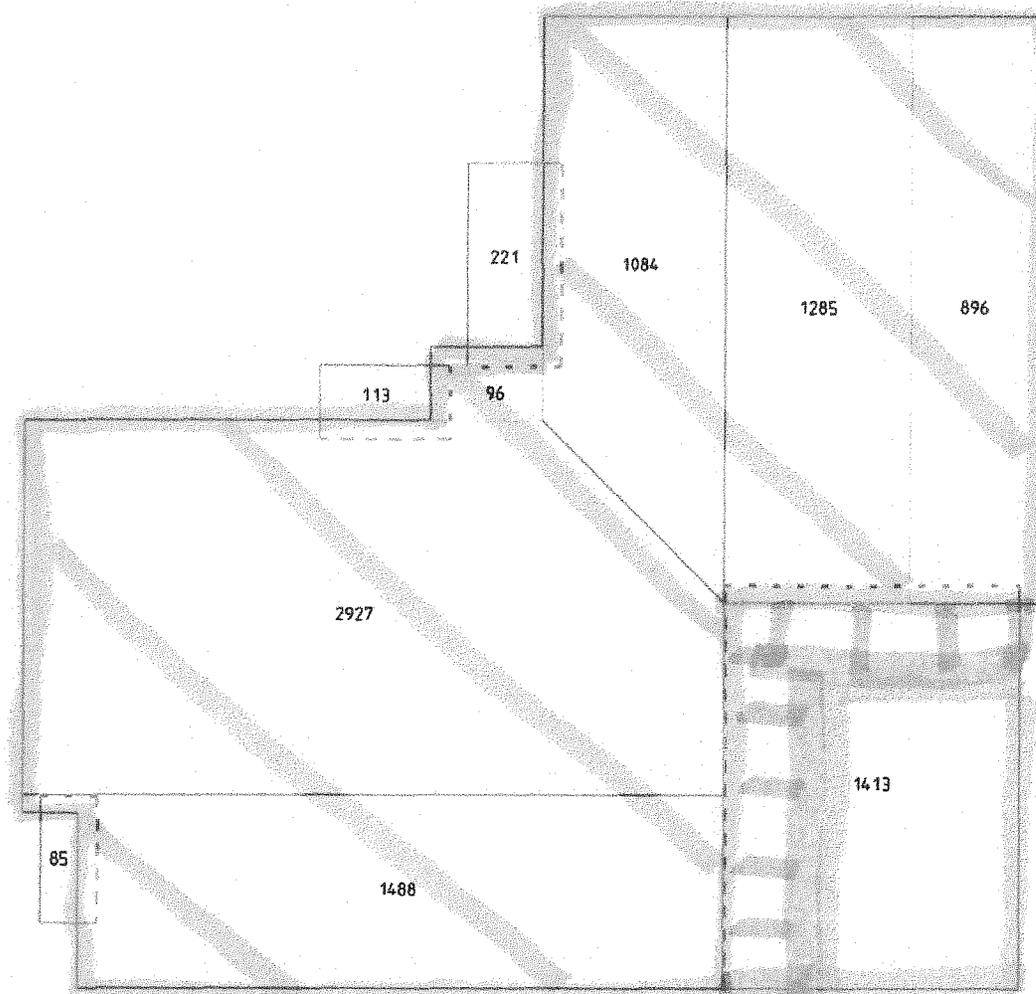
Quantity	Item	Description	Unit Price	Amount
1.00	Commercial	Adding 1" rigid insulation w/ 3" HD PLUS screws, 3" HD PLUS insulation plates, tapered ISO to transition, material delivery, labor to install. ***Material \$5956.00 + \$1711.41 ***Code calls for FM90 insulation attachment, 16/field, 24/perimeter, 36/corners. ***Highlighted areas of work	7,667.41	7,667.41

We Support The Justice Coalition!!!!

Thank you for the chance to bid your work!

Subtotal	7,667.41
Sales Tax	
TOTAL	7,667.41

Area Measurements



MECHANICALLY ATTACHED
1" ISO INSULATION
TAPERED INSULATION

Adhere TPO
DIRECT TO
DECKING

WASTE FACTOR CALCULATIONS: 96.04 Sq

5%	10%	15%	17%	20%	22%	25%
100.84	105.64	110.44	112.36	115.25	117.17	120.05





ISO 95+™ GL Flat and Tapered

DESCRIPTION:

Firestone ISO 95+ GL flat and tapered roof insulation consists of a closed-cell polyiso foam core laminated to a black glass reinforced mat facer on both major surfaces. Flat and tapered ISO 95+ GL provide outstanding thermal performance on commercial roofing applications, while providing positive roof top drainage to help eliminate ponding water when tapered ISO 95+ GL is used.

All Firestone polyiso insulations use EPA accepted blowing agents and qualify under the Federal Procurement Regulation for Recycled Material. Flat and tapered ISO 95+ GL with IsoGard™ Foam Technology incorporates a HCFC-free blowing agent that does not contribute to the depletion of the ozone (ODP-free).

METHOD OF APPLICATION:

Insulation shall be neatly fitted to all roof penetrations, projections and nailers. No more insulation shall be installed than can be covered with membrane and completed before the end of each day's work or before the onset of inclement weather.

ISO 95+ GL FLAT AND TAPERED MUST BE INSTALLED

USING: Fasteners and plates, hot asphalt or Firestone approved insulation adhesives.

For ballasted systems, the top layer of Firestone insulation may not be mechanically attached.

ISO 95+ GL Flute Span Over Metal Decks				
Thickness	1.0"	1.25"	1.5"-3.8"	4.0"
Span	2.625"	3.675"	4.375"	4.5"

SPECIFICATION COMPLIANCE:

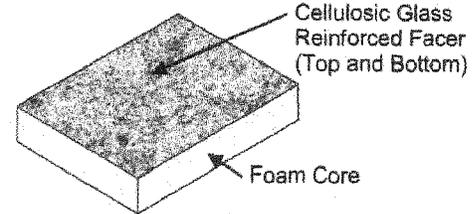
ASTM C1289, Type II, Class 1
UL Classified
FM Class 1 Approved
Manufactured in an ISO 9002 Registered Facility
CAN/ULC-S704, Type 1, Class 3



CCMC 13274-L



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PRODUCT DATA

Typical Thickness		LTTR* R-Value
(inches)	(mm)	
1.00	25.4	6.0
1.25	31.7	7.5
1.50	38.1	9.0
1.75	44.5	10.5
2.00	50.8	12.1
2.30	58.4	14.0
2.50	63.5	15.3
2.80	71.1	17.2
3.00	76.2	18.5
3.25	82.6	20.1
3.50	88.9	21.7
3.75	95.3	23.4
4.00	101.6	25.0

*Long Term Thermal Resistance (LTTR) values provide a 15-year time-weighted average in accordance with CAN/ULC-S770.

POLYISO TYPICAL PROPERTIES

Physical Property	ASTM Test	English Values	Metric Values
Compressive Strength*	D 1621	20 psi, typical	138 kPa, typical
Density	D 1622	2 pcf	32 kg/m ³
Dimensional Stability	D 2126	<2%	<2%
Moisture Vapor Transmission	E 96	<1.0 Perm	<57.5 ng/(Pa*s*m ²)
Water Absorption	C 209	<1% by Volume	<1% by Volume
Service Temperature		-100° to 250° F	-73° to 121° C

*25 psi (172 kPa) available upon request.

AVAILABLE SIZES:

Flat Boards: 4' x 4' (1.22 m x 1.22 m)
4' x 8' (1.22 m x 2.44 m)
Thickness ranging 1.0" (25.4 mm) to 4.0" (101.6 mm)

Tapered Boards: 4' x 4' (1.22 m x 1.22 m)
4' x 8' (1.22 m X 2.44 m) (special order)
Thickness ranging 0.5" (12.7 mm) to 4.0" (101.6 mm)
Slopes ranging 1/16" per foot (.5%) to 1/2" per foot (4%)
See chart on page 2.

STORAGE AND PRECAUTIONS:

- Keep insulation dry at all times.
- Elevate insulation above the deck or ground.
- Cover insulation with waterproof tarps.
- Combustible. Refer to MSDS for more information.
- Do not install over wet, damp or uneven substrates.

MANUFACTURING LOCATIONS:

Aurora, CO Florence, KY Corsicana, TX
Bristol, CT Jacksonville, FL Salt Lake, UT
DeForest, WI Youngwood, PA

Firestone Building Products Company
250 W. 96th Street, Indianapolis, IN 46260
Sales: (800) 428-4442 • Technical (800) 428-4511
www.firestonebpc.com

TECHNICAL INFORMATION SHEET

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3/15/2011

LEED INFORMATION:

Firestone ISO 95+ GL flat and tapered can help contribute to overall L.E.E.D. certification due to its thermal efficiency (R-Value), recycled content, and zero ozone depletion. ISO 95+ GL flat and tapered can help achieve valuable credits in the following categories:

- Energy and Atmosphere
 - Benefits of commissioning building energy systems include lower energy use and lower operating costs.
 - Firestone ISO 95+ GL contains the highest R-Value per inch to help assist in the following credits:
 - EA Pre-requisite 2: Minimum Energy Performance
 - EA Credit 1: Optimize Energy Performance (1-19 points)
- Material & Resources
 - Benefits include the reduction of waste, as well the preservation of landfill space and raw materials.
 - Firestone ISO 95+ GL contains recycled content, can be re-used, and is manufactured strategically across the United States.
 - MR Credit 2: Construction Waste Management (1-2 points)
 - MR Credit 3: Material Re-Use (1-2 points)
 - MR Credit 4: Recycled Content (1-2 points)
 - MR Credit 5: Regional Material (1-2 points)

RECYCLE CONTENT OF ISO 95+ GL

Typical Thickness (inches)	Thickness, (millimeters)	% Post Consumer	% Post Industrial	TOTAL RECYCLE CONTENT
1.00	25.40	37%	15%	52%
1.25	31.75	33%	15%	48%
1.50	38.10	29%	15%	44%
1.75	44.45	26%	15%	41%
2.00	50.80	24%	15%	39%
2.30	58.42	21%	15%	36%
2.50	63.50	20%	15%	35%
2.80	71.12	18%	15%	33%
3.00	76.20	17%	15%	32%
3.25	82.55	16%	15%	31%
3.50	88.90	15%	15%	30%
3.75	95.25	14%	15%	29%
4.00	101.60	14%	15%	29%

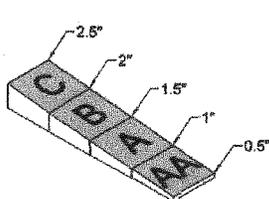
LEED Reference Guide information can be obtained on line at <http://www.usgbc.org>.

"LEED is trademark of the U.S. Green Building Council."

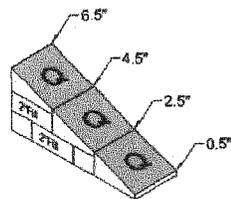
TAPERED ISO 95+ GL (Common Panel Types)

Panel Code	Min-Max Thickness		Slope		Pieces Per Bundle (4'x4')
AA	0.5" - 1.0"	12.7 mm - 25.4 mm	1/8"/ft.	1%	64
A	1.0" - 1.5"	25.4 mm - 38.1 mm	1/8"/ft.	1%	38
B	1.5" - 2.0"	38.1 mm - 50.8 mm	1/8"/ft.	1%	26
C	2.0" - 2.5"	50.8 mm - 63.5 mm	1/8"/ft.	1%	20
G	1.0" - 2.0"	25.4 mm - 50.8 mm	1/4"/ft.	2%	32
H	2.0" - 3.0"	50.8 mm - 76.2 mm	1/4"/ft.	2%	18
I	3.0" - 4.0"	76.2 mm - 100.6 mm	1/4"/ft.	2%	12
X	0.5" - 1.5"	12.7 mm - 38.1 mm	1/4"/ft.	2%	48
Y	1.5" - 2.5"	38.1 mm - 63.5 mm	1/4"/ft.	2%	24
Z	2.5" - 3.5"	63.5 mm - 88.9 mm	1/4"/ft.	2%	16
Q	0.5" - 2.5"	12.7 mm - 63.5 mm	1/2"/ft.	4%	32

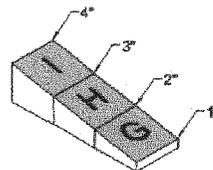
Contact Firestone's Estimating Services Department for a project quotation or for layout guidance. For site assistance or contractor support, contact Firestone's Tapered Project Management Team by calling: 1-800-428-4442 or by emailing: estimatingervicesdept@firestonebp.com



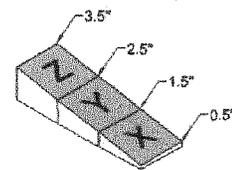
1/8"/ft. Tapered Section



1/2"/ft. Tapered Section



1/4"/ft. Tapered Section



1/4"/ft. Tapered Section

TECHNICAL INFORMATION SHEET

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Contact Firestone's Estimating Services Department for a project quotation or for layout guidance. For site assistance or contractor support, contact Firestone's Tapered Project Management Team by calling: 1-800-428-4442 or by emailing: estimatingervicesdept@firestoneabp.com

Firestone
BUILDING PRODUCTS
HD Plus Fastener

Firestone Item Number:

<u>Red</u>	<u>White</u>
2" W56RAC4282	2" W56RAC4292
3" W56RAC4283	3" W56RAC4293
4" W56RAC4284	4" W56RAC4294
5" W56RAC4285	5" W56RAC4295
6" W56RAC4286	6" W56RAC4296
7" W56RAC4287	7" W56RAC4297
8" W56RAC4288	8" W56RAC4298
	10" W56RAC4291

DESCRIPTION:

Firestone HD Plus Fasteners are specifically designed to be used in B.I.T.S., M.A.S., Reinforced MAX, and UltraPly™ TPO mechanically attached systems to attach Firestone metal, polymer batten strips or HD Plus Seam Plates where additional pullout strength is required. The HD Plus Fastener is designed for use into steel decks only.

METHOD OF APPLICATION:

Using the #3 Phillips tip provided, engage the fastener into the deck, taking care not to over or under drive the fastener. Threads must engage the decking material per Firestone Technical Specifications, and penetrate the deck a minimum of one inch.

Contact your Firestone Technical Coordinator at 1-800-428-4511 for specific application information.

The HD Plus fastener is intended to drill into 22 gauge steel decks. Thicker gauge decks should not be attempted unless the deck is pre-drilled with an 11/32" (8.6 mm) diameter drill bit. In the event that a pre-punched hole in the batten strip does not line up with the top flute of the deck, do not attempt to install a HD Plus fastener through the batten without pre-drilling. It is suggested that if alignment is a problem, that the batten strip simply be cut and realigned with the top flute of the deck, then continue attaching through the pre-punched holes.

PRECAUTIONARY DATA:

Eye protection must be worn during the installation of the fasteners.

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PRODUCT DATA

<u>Property</u>	<u>Minimum Performance</u>
Material:	AE 1022, heat treated steel
Thread Size:	0.330" (8.4 mm) major diameter
Threads/Inch:	2-1/2 min.
Thread Design:	Buttress thread
Fastener Tip:	Drill point design
Head Type:	Pan head, Phillips #3
Head Diameter:	0.660" (13.9 mm) min.
Pullout in New 22 ga. (0.76 mm) Steel Deck:	
Grade C (Grade 33):	640 lb (290.3 kg) min.
Grade E (Grade 80):	740 lb (335.7 kg) min.
Corrosion Coating:	Red epoxy applied by Electrocoating

<u>Screw Length</u>	<u>Thread Length</u>	<u>Pieces/Plastic Pail</u>
2** (51.0 mm)	Full	1,000
3" (76.20 mm)	Full	1,000
4" (101.6 mm)	3" (76.2 mm)	500
5" (127.0 mm)	4" (101.6 mm)	500
6" (152.4 mm)	4" (101.6 mm)	500
7" (177.8 mm)	4" (101.6 mm)	250
8" (203.2 mm)	4" (101.6 mm)	250

**2" are special order only.*

Determine required screw length as follows:

Steel Decks: Select fastener length to penetrate through deck a minimum of 1" (25.4 mm).

LEED INFORMATION:

Post Consumer Recycled Content: 0%
Post Industrial Recycled Content: 30%
Manufacturing Location: West Chicago, IL



Firestone Building Products Company
250 W. 96th Street, Indianapolis, IN 46260
Sales: (800) 428-4442 • Technical (800) 428-4511
www.firestonebpc.com



Insulation Fastening Plate

Firestone Item Number: **W56RAC4190**

DESCRIPTION:

Firestone Insulation Fastening Plates are specially designed to be used with Firestone All-Purpose, Heavy-Duty, Concrete Drive and Stainless Steel Fasteners in roofing applications for attaching insulation as required by Firestone Specifications.

METHOD OF APPLICATION:

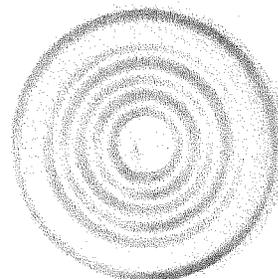
Position insulation plates over insulation as specified by Firestone Specifications. Attach plates to roof deck using the appropriate Firestone fastener. Install plates ribbed side up with the "Firestone" identification visible.

Contact your Firestone Technical Coordinator at 1-800-428-4511 for specific application information

PRECAUTIONS:

- Do not overdrive or underdrive fastener.
- Plates are designed to anchor roof insulation only.
- Avoid field seams directly over insulation plates.
- **Cannot be used with Firestone HD Plus Fasteners.**

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PRODUCT DATA

<u>Property</u>	<u>Minimum Performance</u>
Material:	Galvalume® AZ50
Material Thickness:	0.017" (0.43 mm) - 0.023" (0.58 mm)
Corrosion Resistance:	Meets FM No. 4470 criteria
Pull-Through Resistance:	400 lb (181.4 kg) (min.) from center hole
Diameter:	3" (76 mm)

Galvalume® is a registered trademark of BIEC International, Inc.

STORAGE:

Store in unopened original containers protected from the weather.

PACKAGING:

Pail: 1000 plates
 Weight: 42 lb (19 kg)/pail
 Pallet: 35 pails

LEED INFORMATION:

Plate with "Firestone T" Identification
 Post Consumer Recycled Content: 8%
 Post Industrial Recycled Content: 17%
 Manufacturing Location: Cleveland, OH



APPROVED

Firestone Building Products Company
 250 W. 96th Street, Indianapolis, IN 46260
 Sales: (800) 428-4442 • Technical (800) 428-4511
www.firestonebppo.com

Firestone
BUILDING PRODUCTS

Insulation Attachment Patterns

The diagrams below show the required patterns for proper placement of approved fasteners and plates for insulation on Standard Firestone 55 mph Roofing Systems.

The most common fastener density and pattern requirements are shown on this technical information sheet. Certain specifications may call for increased densities of fasteners in the perimeters and corners of roofs. For non-standard fastener densities, contact your Technical Coordinator at 800-428-4511 or visit the Firestone Technical Database at www.firestonebpc.com.

Minimum Number of Fasteners and Plates:

For Mechanically Fastened Systems

Insulation	Thickness	4' x 4' Boards	
		4' x 4' Boards	4' x 8' Boards
All Approved	All Approved	4	5

For Mechanically Fastened Systems with an Air/Vapour Barrier

Insulation	Thickness	4' x 4' Boards	
		4' x 4' Boards	4' x 8' Boards
Firestone ISO 95+	0.5"-1.4"	8	16
	1.5"-1.9"	6	12
	2" or Greater	4	8

Minimum Number of Fasteners and Plates:

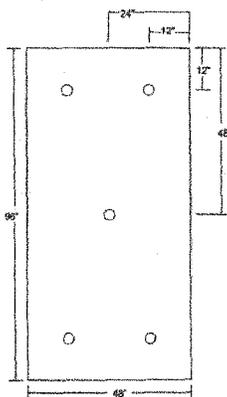
For Non-Mechanically Fastened Systems

Insulation	Thickness	4' x 4' Boards	
		4' x 4' Boards	4' x 8' Boards
Firestone ISO 95+, ISOGARD HD, and Resista	0.5"-1.4"	8	16
	1.5"-1.9"	6	12
	2" or Greater	4	8
<i>(all of the above insulations require the minimum fastener densities listed)</i>			
Firestone HailGard	Min. 1.5"	8	16
Firestone FiberTop	0.5"-1"	8	16

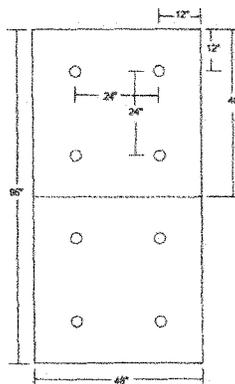
DensDeck® 1/4", 1/2", and 5/8"

EPDM, TPO	0.25"	8	16
	0.50"	6	12
	0.625"	4	8
Asphalt Systems	0.25"-0.625"	6	12
DensDeck Prime® 1/4", 1/2", and 5/8"			
EPDM, TPO	0.25"	6	12
	0.50"	5	10
	0.625"	4	8
Asphalt Systems	0.25"-0.625"	4	8

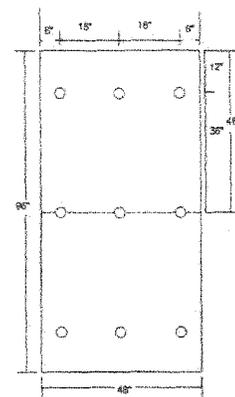
The following Attachment diagrams represent a 4' x 8' insulation board. Please refer to the above mentioned attachment patterns for a specific board attachment rate. For further information relating to attachment patterns or system specifications please refer to the Firestone Technical Database at www.firestonebpc.com.



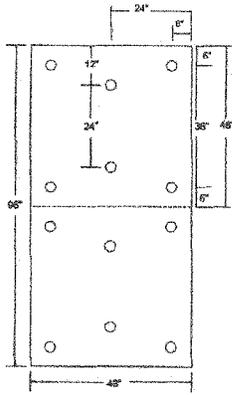
5 fasteners



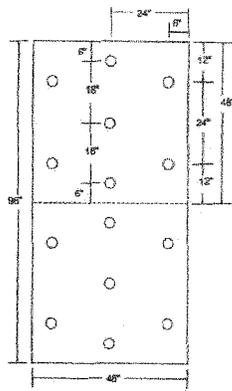
8 fasteners



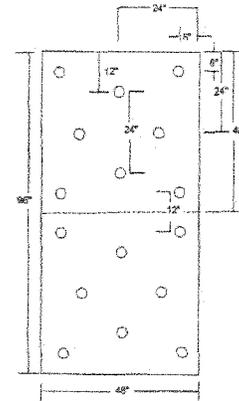
9 fasteners



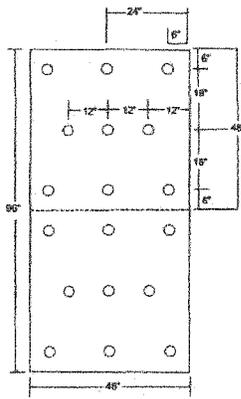
12 fasteners



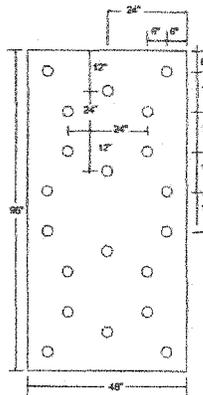
14 fasteners



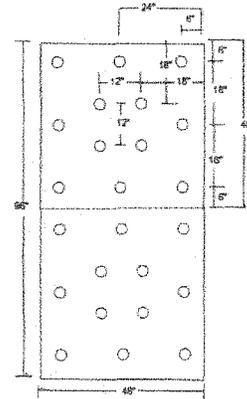
16 fasteners



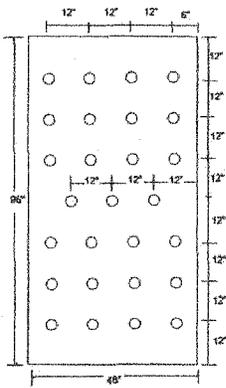
18 fasteners



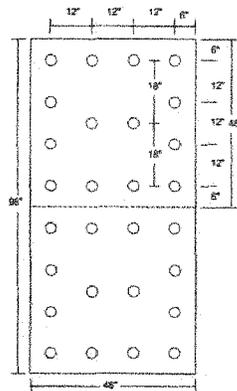
20 fasteners



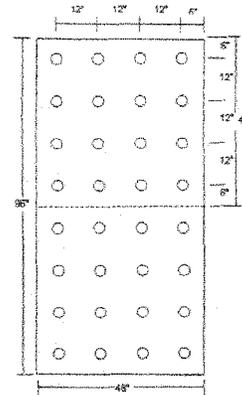
24 fasteners



27 fasteners

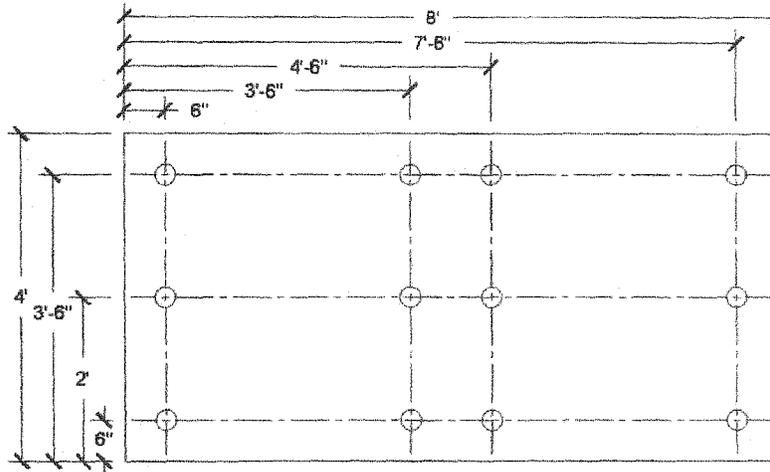


28 fasteners



32 fasteners

FM Global fastening pattern for 1-90 attachment of ISOgard™HD Cover Board

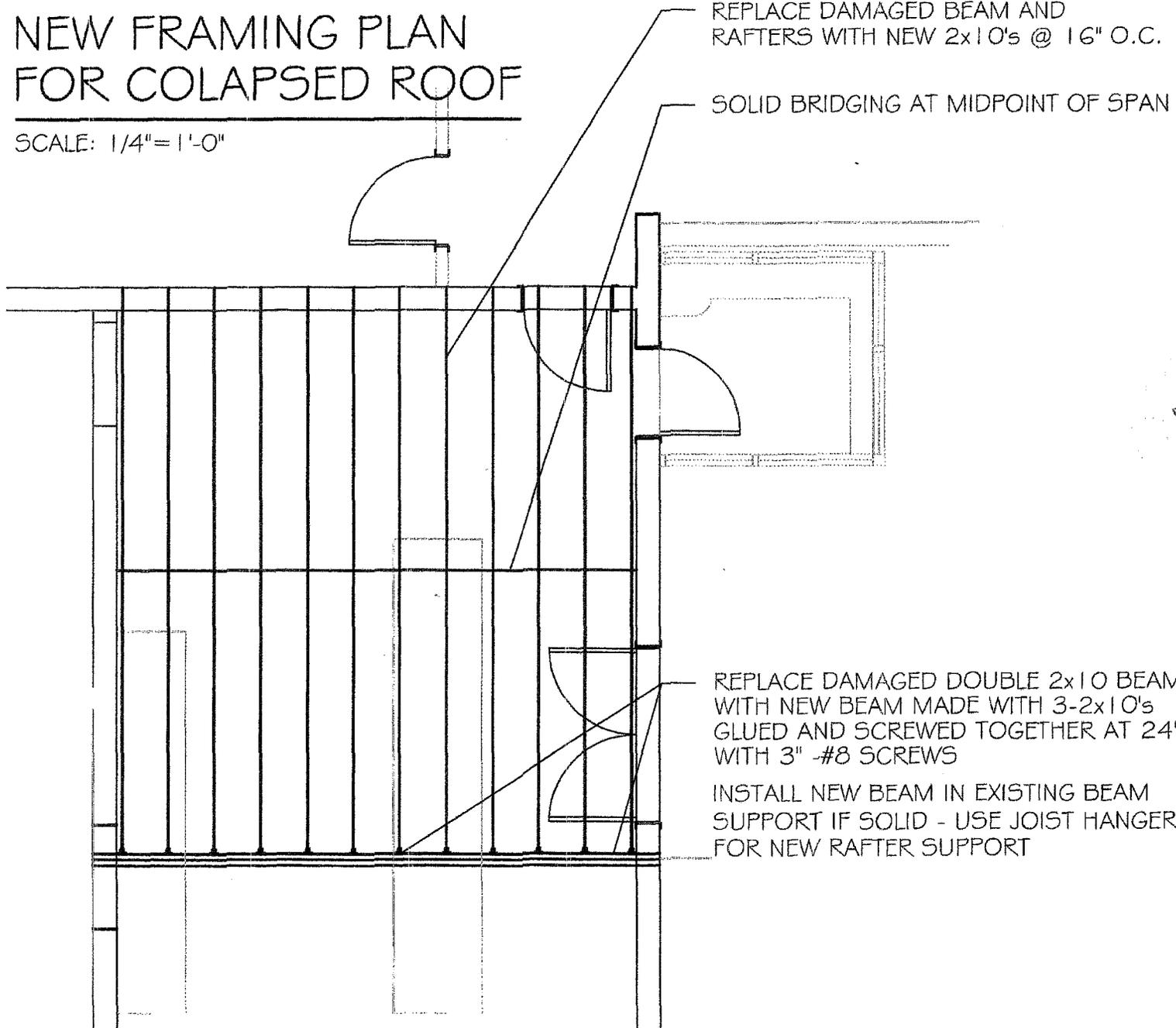


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Firestone Building Products Company, LLC
 250 W 96th Street, Indianapolis, IN 46260
 Sales: (800) 428-4442 • Technical (800) 428-4511
www.firestonebpc.com

NEW FRAMING PLAN FOR COLAPSED ROOF

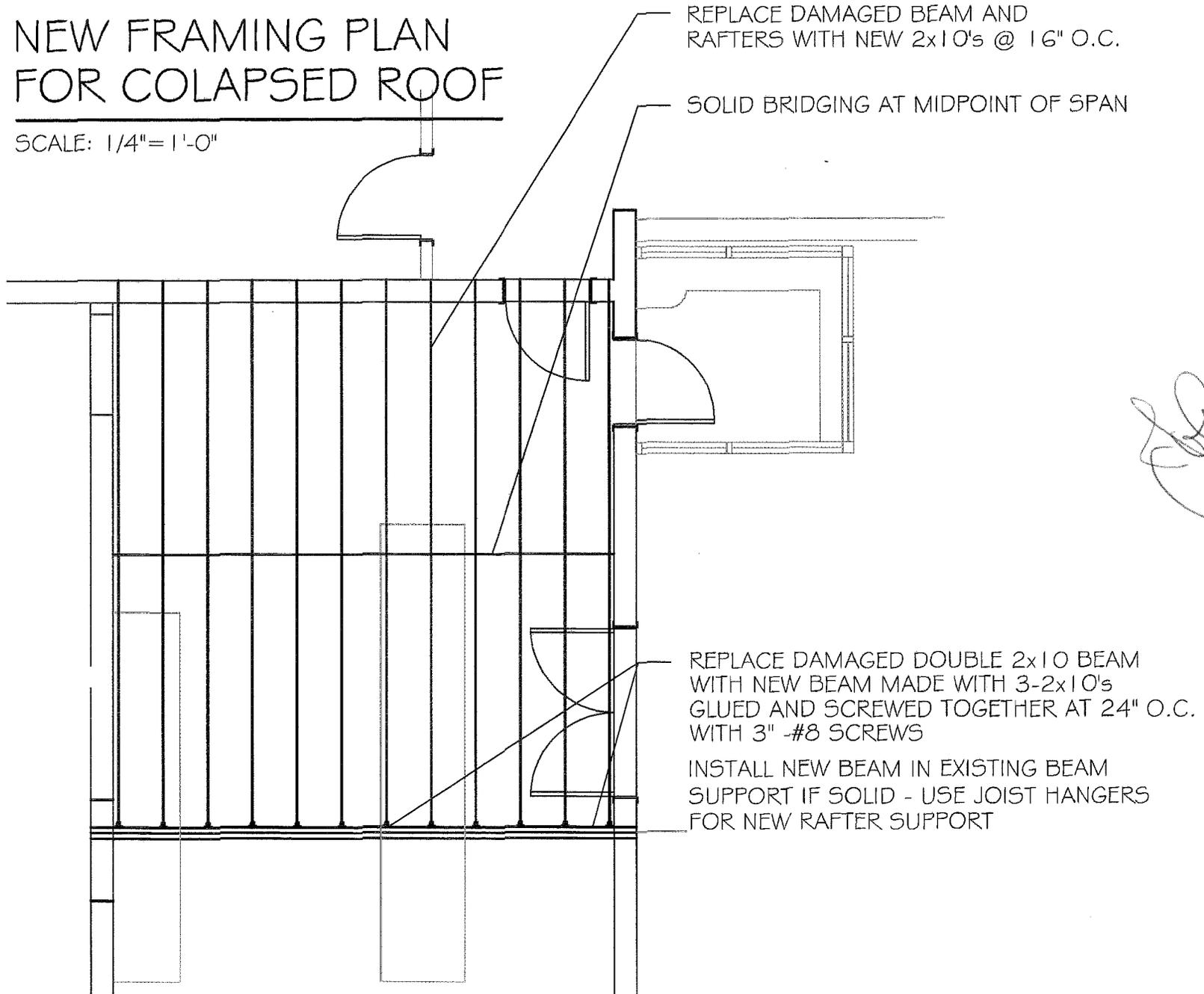
SCALE: 1/4" = 1'-0"



John Brown
10/19/11

NEW FRAMING PLAN FOR COLAPSED ROOF

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

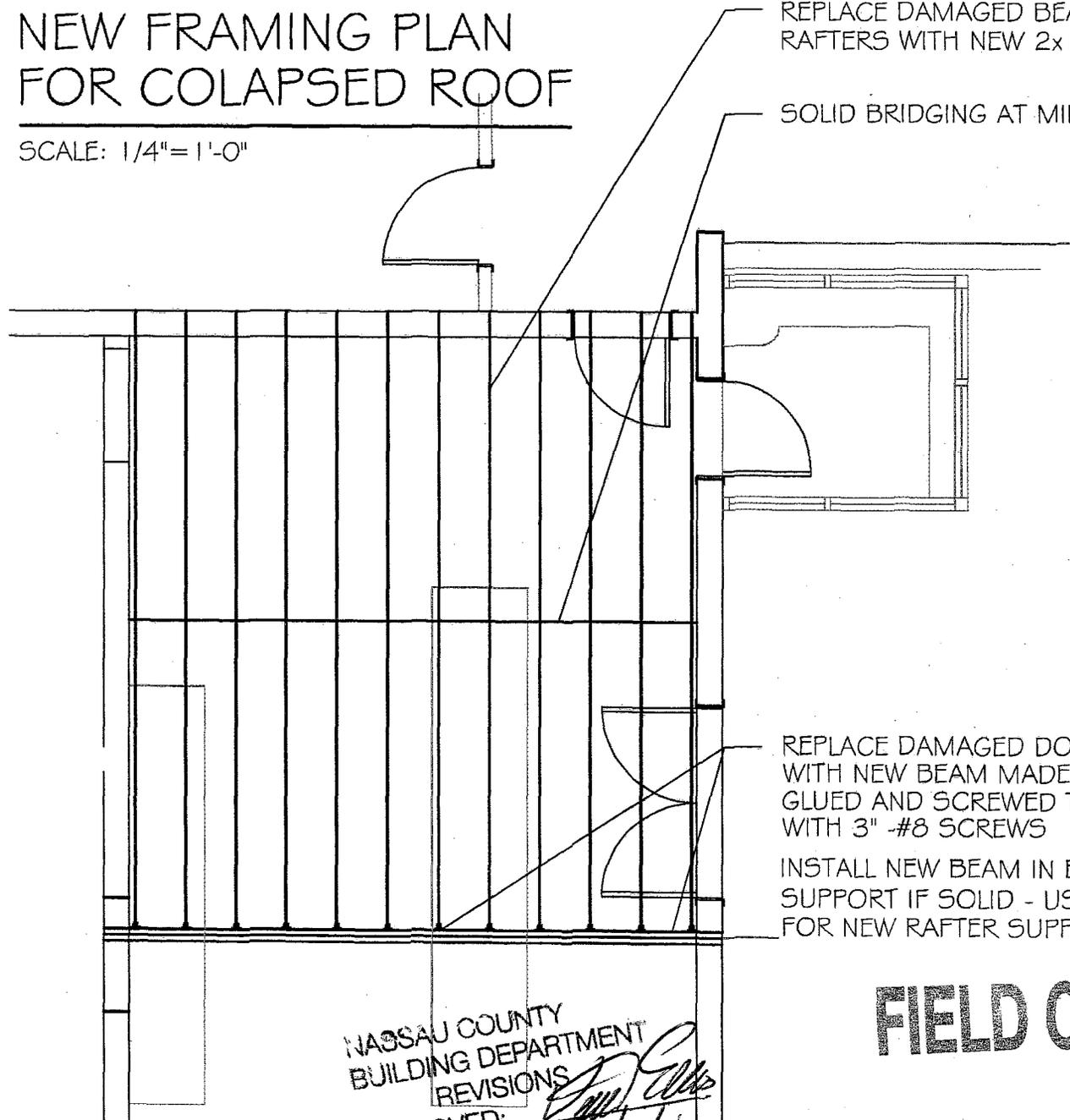


John P. ...
10/11/11

B11-25086

NEW FRAMING PLAN FOR COLAPSED ROOF

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



REPLACE DAMAGED BEAM AND
RAFTERS WITH NEW 2x10's @ 16" O.C.

SOLID BRIDGING AT MIDPOINT OF SPAN

REPLACE DAMAGED DOUBLE 2x10 BEAM
WITH NEW BEAM MADE WITH 3-2x10's
GLUED AND SCREWED TOGETHER AT 24" O.C.
WITH 3" #8 SCREWS

INSTALL NEW BEAM IN EXISTING BEAM
SUPPORT IF SOLID - USE JOIST HANGERS
FOR NEW RAFTER SUPPORT

John Brown
10/14/11

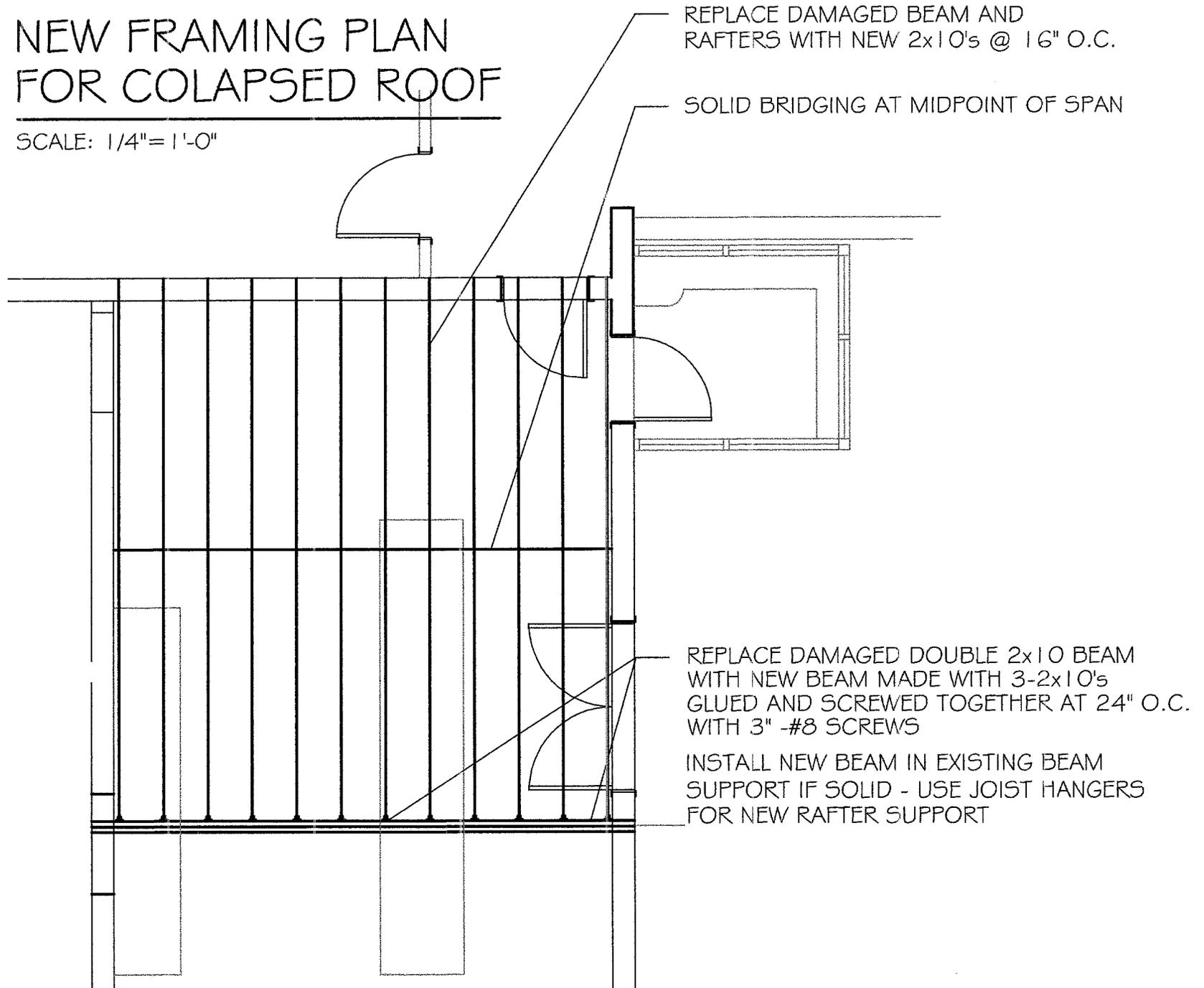
NASSAU COUNTY
BUILDING DEPARTMENT
REVISIONS

APPROVED: *[Signature]*
DATE: 10/16/11

FIELD COPY

NEW FRAMING PLAN FOR COLAPSED ROOF

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



NEW FRAMING PLAN FOR COLAPSED ROOF

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

REPLACE DAMAGED BEAM AND
RAFTERS WITH NEW 2x10's @ 16" O.C.

SOLID BRIDGING AT MIDPOINT OF SPAN

356-4648

18'-0"

Andy
Can you
pick up this
Mat for me
This is a C.O.
Thank you
Richard

[Signature]
10/19/11

AC General Inc
783-4200 P
781 0806 F

REPLACE DAMAGED DOUBLE 2x10 BEAM
WITH NEW BEAM MADE WITH 3-2x10's
GLUED AND SCREWED TOGETHER AT 24" O.C.
WITH 3" #8 SCREWS

INSTALL NEW BEAM IN EXISTING BEAM
SUPPORT IF SOLID - USE JOIST HANGERS
FOR NEW RAFTER SUPPORT

11 = H. 2.5 Clips + nail.
1. 16 - 2x8 PT.
SUNDRY / GLOBE.

3 = 28'-0" 2x10 Southern yellow pine
2 = 12'-0" 2x10 And 5 LB
12 sheet 1/2" ply wood.
12 S.S. JOIST Hanger For 2x10 12 P.S.S.

