



ARCHITECTS

434 Cumberland Avenue
Portland, ME 04101-2325

Phone: 207-774-4441
Fax: 207-774-4016

FACSIMILE TRANSMITTAL SHEET

TO: Mike Nugent	FROM: Richard P. Curtis
COMPANY: Code Enforcement	DATE: 4/13/2005
FAX NUMBER: 207-874-8716	TOTAL NO. OF PAGES INCLUDING COVER: 3
PHONE NUMBER: 207-874-8703	PROJECT NAME: Renovations to the Oak Leaf Inn
RE: Bathroom exhaust ductwork	PROJECT NUMBER: 04433

URGENT FOR REVIEW PLEASE COMMENT PLEASE REPLY PLEASE RECYCLE

NOTES/COMMENTS:

Mike,

As you may be aware, Pine State Plumbing & Heating is doing the mechanical work at the Oak Leaf Inn on a design-build basis. Attached is a sketch from Pine State illustrating their proposal for installation of ductwork for the bathroom exhaust system.

Each of the bathroom stacks will have a vertical duct extending to a rooftop mounted exhaust fan. The ductwork within each dormitory room suite will be completely contained within the one hour fire rated enclosure walls of the suite, and Pine State is proposing to install a fire damper and breakaway joints at each floor level, which forms the one hour fire separation between floors. We believe that this installation should not require a shaft enclosure around the ductwork within each of the dormitory room suites, since the fire separation at each floor will be maintained.

Your thoughts would be appreciated.

If you have any questions about the installation, or need any additional information, please contact Craig Herrick at Pine State – 207-321-2261.

374/14

Copy to: Rex Bell, Benchmark, file

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052061



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PHONE NUMBER: (207) 874-8703	PROJECT NAME: Renovations to the Oak Leaf Inn
RE: Bathroom exhaust	PROJECT NUMBER: 04433

- URGENT
 FOR REVIEW
 PLEASE COMMENT
 PLEASE REPLY
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NOTES/COMMENTS:

Attached you will find a diagram of the bathroom ductwork and fire damper installation for you review. We have included more information on the fire dampers, which have a 1-1/2 hour fire rating and have a UL listing BG 475749. These dampers were recently used successfully at Logan Place for exhaust ductwork

If you have any further questions, or need any additional information, please feel free to contact us.

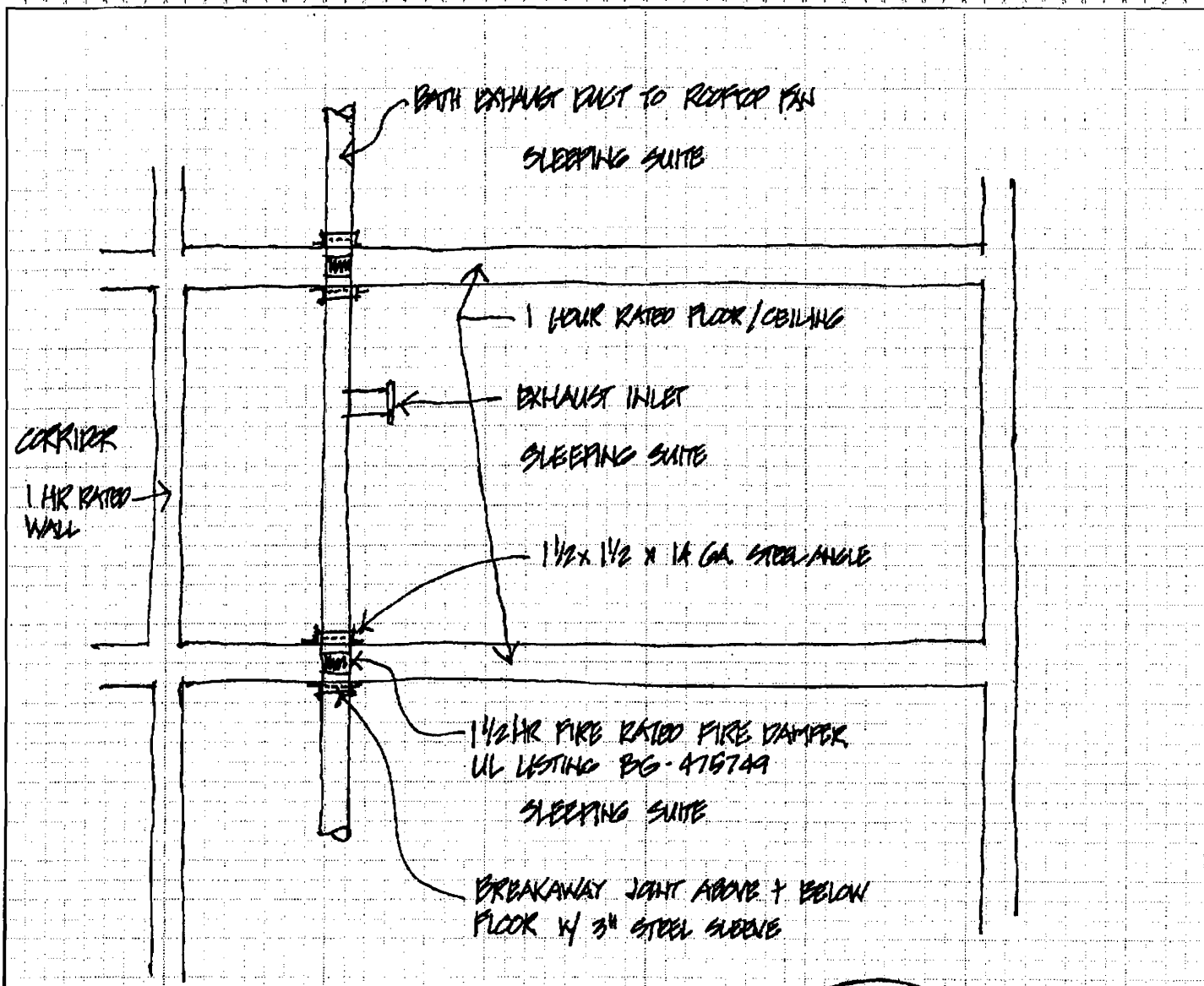
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Bell, Benchmark

Curtis Walter Stewart

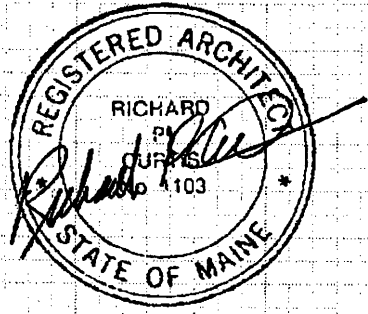
Architects

434 Cumberland Ave. P.O. Box 6555
Portland, ME 04101-2325 Laconia, NH 03247-6555
(207) 774-4441 (603) 524-3000
CWSArch.com

JOB oak leaf inn
SHEET NO. _____ OF _____
CALCULATED BY _____ DATE _____
CHECKED BY RPC DATE 04/15/05
SCALE N/A

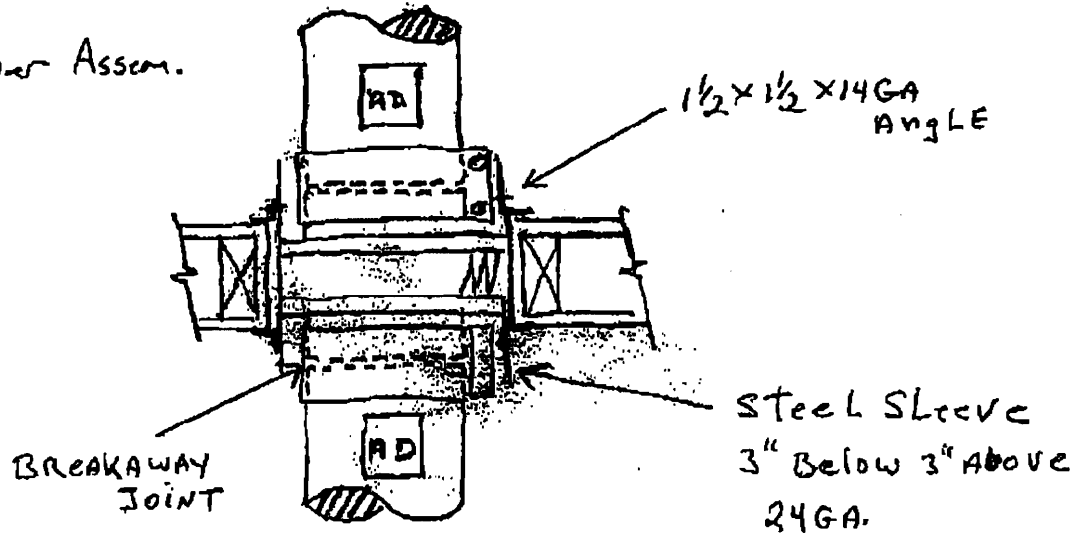


BATH EXHAUST SYSTEM DIAGRAM
NOT TO SCALE



Oak Leaf Inn

Fire Damper Assem.



DUCT-TO-SLEEVE CONNECTIONS

UL allows two different types of duct-to-sleeve connections: Breakaway and rigid. UL defines a rigid connection as any connection that has not been tested and qualified as a breakaway connection. There are several qualified breakaway connections as defined in UL Standard 555. Damper manufacturers are required to list all breakaway connections.

MINIMUM SLEEVE THICKNESS FOR FIRE DAMPERS			
Type of Duct to Sleeve Connection	Duct	Duct Dimension	Sleeve Gage
Rigid	Round	24" maximum diameter	
	Rectangular	36" maximum width or 24" maximum height	16 (.060")
Rigid	Round	over 24" diameter	
	Rectangular	over 36" width or over 24" height	14 (.075")
→ Breakaway	Round or Rectangular	12" wide and under	26 (.018")
		13" - 30" wide	24 (.024")
		31" - 54" wide	22 (.030")
		55" - 84" wide	20 (.036")
		85" wide and over	18 (.048")

Fire Damper - UL Listing BG-475749
1/2 hr. Rating

static fire dampers 1 1/2 hour

ATTN: Jim
type C

U/L RATED - 1-1/2 HR. FOR USE
IN INSTALLATIONS RATED 2 HRS,
OR LESS

STANDARD PROFILE (4-1/4"), 22Ga.

1 PIECE, ROLLFORMED FRAME

TYPE C DAMPER,
BLADES AND FRAME
OUT OF AIR STREAM
100% FREE AREA.

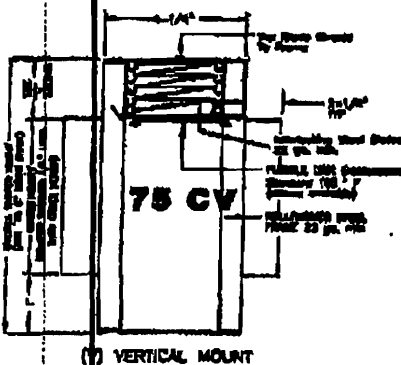
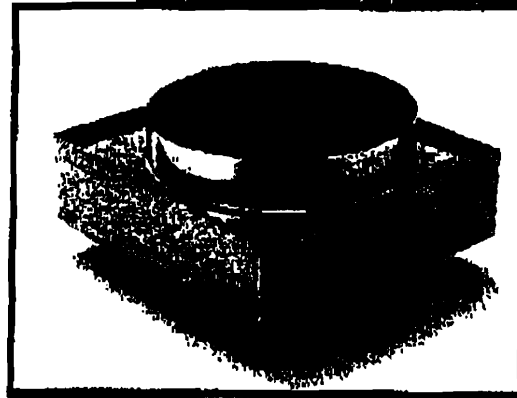
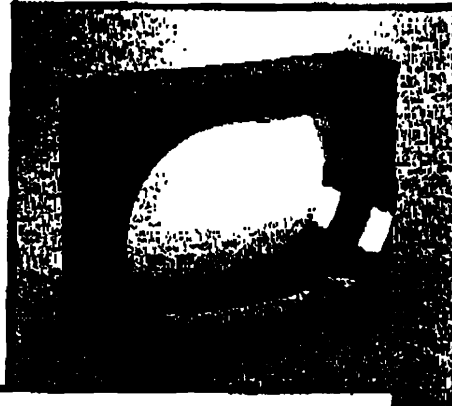
AVAILABLE FOR VERTICAL OR
HORIZONTAL INSTALLATIONS

AVAILABLE WITH ROUND, OVAL,
OR RECTANGULAR COLLAR

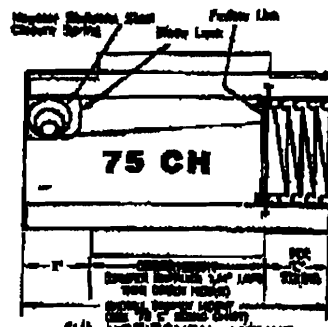
STANDARD FUSIBLE LINK - 185°
(or w/ OPTIONAL 212°)

AVAILABLE IN STAINLESS STEEL

AVAILABLE IN SINGLE-SECTION
SIZES to 60" x 60",
DUCT SIZES from 4" Ø, to 52" Ø,
OVAL, RECT. COLLARS from 4" x 4" to 58" x 52"

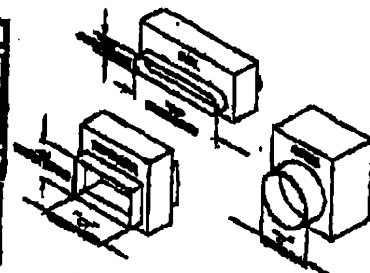


(V) VERTICAL MOUNT



(H) HORIZONTAL MOUNT

HORIZONTAL MOUNTING MODEL INCLUDES
REINFORCING BRACE, FIBERGLASS SPRING AND BLADE LINKS

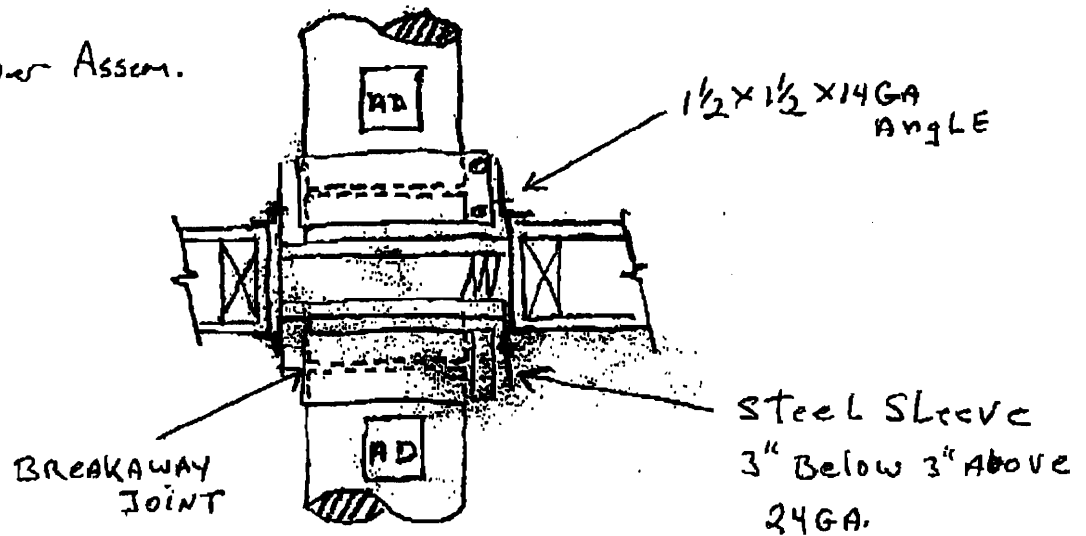


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Oak Leaf Inn

Fire Damper Assen.



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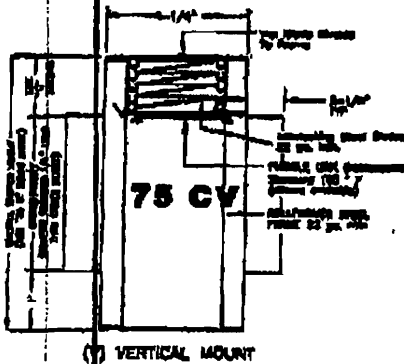
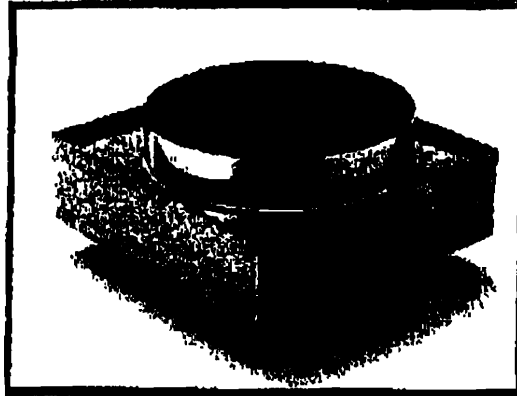
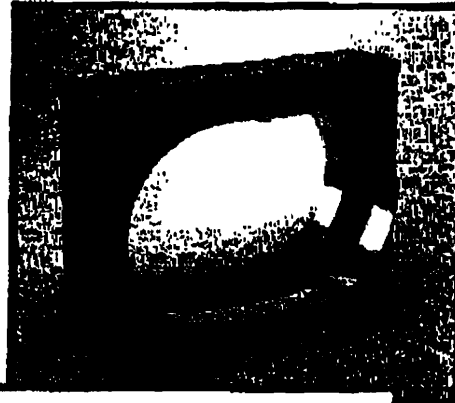
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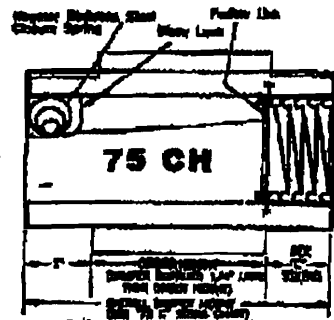
STANDARD FUSIBLE LINK - 165°
(or w/ OPTIONAL 212°)

AVAILABLE IN STAINLESS STEEL

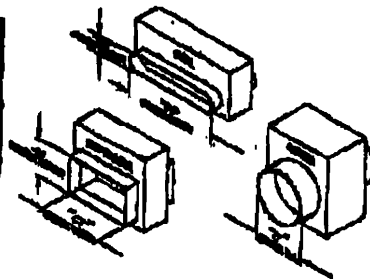
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HORIZONTAL MOUNTING MODEL INCLUDES
BRASS LUGS, HORIZONTAL SPRING AND BLADE LUGS



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CORRECTION: the correct UL listing number is R14128 – 1-1/2 hour rated.

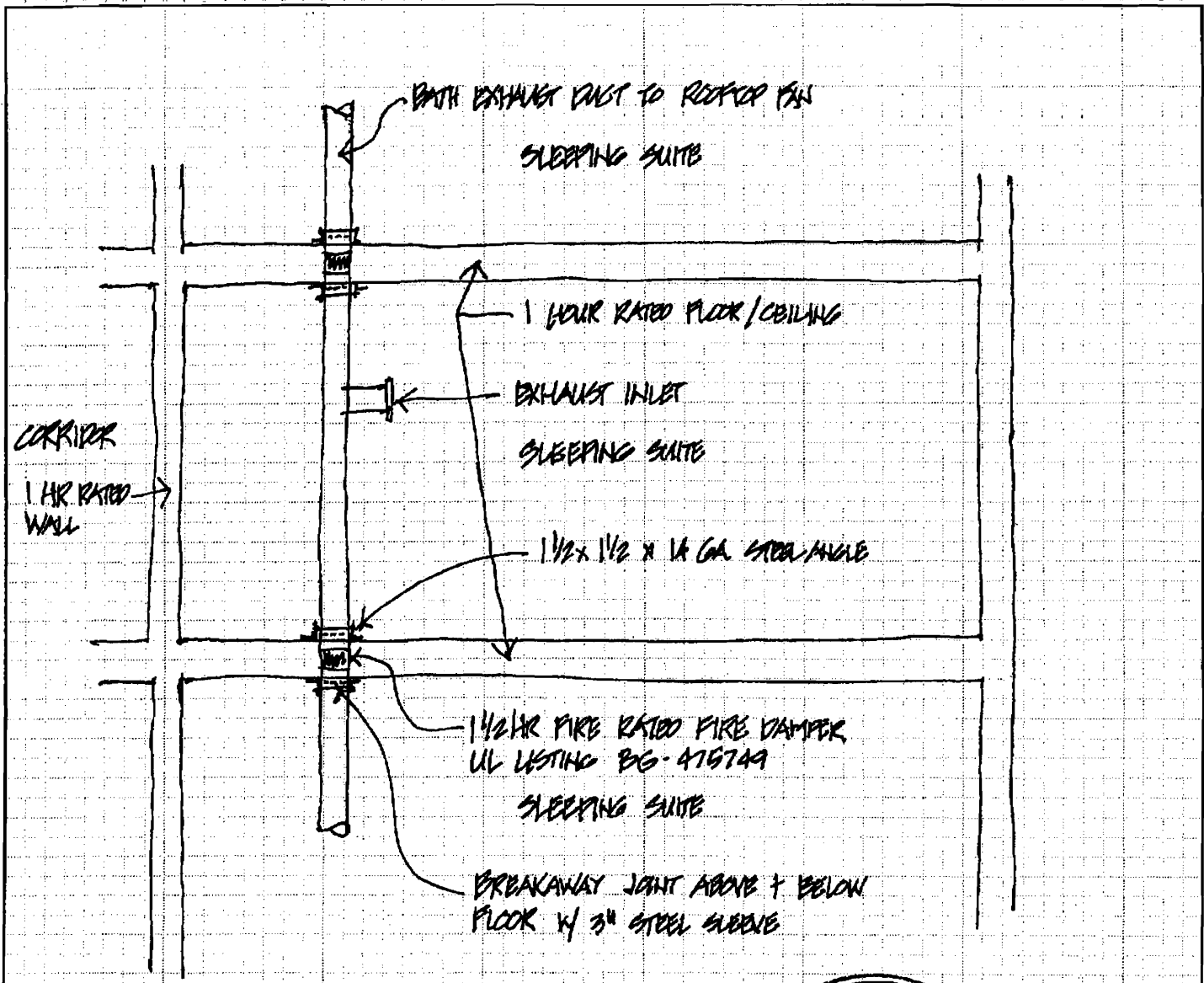
We apologize for the error – the manufacturer sent us the wrong number.

Copy to: Rex Bell, Benchmark

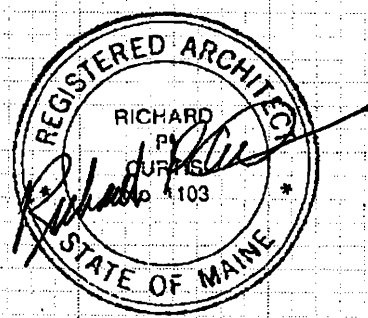
Curtis Walter Stewart Architects

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BATH EXHAUST SYSTEM DIAGRAM
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