BZA 16685

PRE-FILE NUMBERS		ZONING DISTRICT	FILE NUMBER	PERMIT NUMBER	
P.A.D.C. No.:	O.G. No.:				By:
H.P.A. No.:	S.L. No.:	Ward No.:	Receipt No.:	Date:	Receipt No.:

★ ★ ★ GOVERNMENT OF THE DISTRICT OF COLUMBIA

BLRA-33 (Rev. 10/91)

DEPARTMENT OF CONSUMER AND REGULATORY AFFAIRS
BUILDING AND LAND REGULATION ADMINISTRATION; PERMIT PROCESSING DIVISION (727-7050)

APPLICATION FOR CONSTRUCTION PERMITS ON PRIVATE PROPERTY

(PRINT IN INK OR TYPE; DO NOT WRITE IN SHADED AREAS OR ON PAGE 4)

CLEARANCE TO FILE By: Date:

ERASING, CROSSING OUT, WHITING OUT, OR OTHERWISE ALTERING ANY ENTERED INFORMATION WILL VOID THIS APPLICATION

(A) ALL APPLICANTS MUST COMPLETE ITEMS 1 THRU 27

1. Address of Proposed Work:	Suite No.:	2. Lot:	3. Square:	4. Application Date:
321 4TH ST. SE. Washington DC 20003		813	792	10-17-00

5. Owner of Building or Property:	6. Address: *(include Zip)*	7. Phone:
Sherri Fickel	321 4th ST. SE. Washington DC 20003	Work: Home: 202 546 1135

8. Agent for Owner: *(if applicable)*	9. Address: *(include Zip)*	10. Phone:
TODD Johnson - Long Fence	8545 Edgeworth Dr Capitol Heights MD 20743	Work: 301 350 2400 x545 Home:

11. Type of Proposed Work *(check all applicable boxes)*:

- ☐ New Building
- ☒ Addition
- ☐ Alteration and Repair
- ☐ Raze Building
- ☐ Retaining Wall
- ☐ Fence
- ☐ Shed
- ☐ Awning
- ☐ Garage
- ☐ Sign
- ☐ Other *(Specify)*

RECEIVED D.C. OFFICE OF ZONING 2001 APR 13 AM 11:48

12. Description of Proposed Work:

Build a sun Room with Brick fandation and a Deck above. fandation TO match EXISTING Home.

13. Existing Use(s) of Building or Property:	14. Ex. No. of Stories of Bldg.:	15. Ex. No. of Dwelling Units:	Official Use Only: Miscellaneous FEE $ By: Date:
SFD. - RESIDENCE	2	1	
16. Proposed Use(s) of Building or Property:	**17. Prop. No. of Stories of Bldg.:**	**18. Prop. No. of Dwelling Units:**	
SFD - RESIDENCE	2	1	

19. Starting Date of Work:	20. Completion Date of Work:	21. Method of Removing Construction Debris:	22. Does the proposed work involve **disturbing the earth** or razing a building?
11-1-00	5-1-01	☒ Pick-up Truck ☐ Dumpster ☐ Other *(specify)*:	☐ Yes, answer **q. 23** ☒ No, SKIP **q. 23-27**

23. Is the area of disturbed earth more than 50 sq. ft.?	24. Soil Erosion Control Methods:	25. Area of Offsite Drainage:	26. No. of Footings or Columns:	27. Size of Footings of Columns:
☐ Yes, answer **q. 24-25** ☒ No, SKIP **q. 24-25**	DEBRIS REMOVED DAILY	sq. ft.		sq. ft.

ALWAYS SIGN THE APPLICATION ON PAGE 3 (SECTION I).

Complete Section B if the proposed work is **new building, addition or alteration.** (Page 2)
Complete Section C if the proposed work is **razing a building.** (Page 2)
Complete Section D if the proposed work is a **retaining wall.** (Page 2)
Complete Section E if the proposed work is a **fence.** (Page 3)
Complete Section F if the proposed work is a **shed/garage.** (Page 3)
Complete Section G if the proposed work is an **awning.** (Page 3)
Complete Section H if the proposed work is a **sign.** (Page 3)

2-0307 wd-375

OFFICIAL USE ONLY

	R	P	H	A	
M					
E					☐ Yes ☐ No
F					PLANS
S					☐ No ☐ Sm. ☐ Lg.

BZA 16685

Case No.
Exhibit No.

Board of Zoning Adjustment
District of Columbia
CASE NO.16685
EXHIBIT NO.27

(B) NEW BUILDING, ADDITION, & ALTERATION (COMPLETE ITEMS 28 THRU 60)

28. Architect's Name:	29. Lic. No.:	30. Architect's Address: *(include Zip)*	31. Phone:
NA		NA	NA
32. Engineer's Name:	**33. Lic. No.:**	**34. Engineer's Address: *(include Zip)***	**35. Phone:**
NA		NA	NA
36. Building Contractor's Name:	**36A. Lic. No.:**	**37. Contractor's Address:**	**38. Phone:**
Long Fence	9615	8545 Edgeworth Dr Capitol Heights MD 20743	301 350 2400 x345

39. Type of Construction	40. Fire Suppression:	41. Booster Pump:	42. Total Lot Area:	43. Breakdown of Lot Area (= 100%):
☐ Masonry ☐ Steel ☒ Wood ☐ Other: ☒ Concrete	☐ Fully Sprinklered ☐ Standpipe System ☐ Partially Sprinklered ☒ None ☐ Other:	☐ New ☐ Existing ☒ None	1700 ± sq. ft.	a. Building: 54 % b. Paved Area: 0 % c. Greenery: 46 %

44. Present Gross Floor Area of Bldg.:	45. Proposed Gross Floor Area of Bldg:	46. Floors involved in this permit:	47. **Projection beyond building line?**
1463 ± sq. ft.	147 ± sq. ft.	☐ All ☒ Floors 1	☐ Yes, answer **q. 48-52** ☒ No, SKIP **q. 48-52**

48. Number and type of **projection:**	49. Distance of **projection:**	50. Width of **projection:**	51. Width of building frontage:	52. Signature of Owner **(projection only):**
Sun Room 14.0"	14'	10.5"	10.5 ft.	

53. Water or Sewer Excavation?	54. Driveway Construction?	55. Sheeting/Shoring Necessary?	56. Elevators involved?	57. No. and type of elev.:	58. Plans Certified by Engineer?
☐ Yes ☑ No	☐ Yes ☑ No	☐ Yes ☑ No	☐ Yes, answer **q. 57** ☑ No, SKIP **q. 57**		☐ Yes, cert. is attached ☑ No

59. Estimated Cost of Work:
(a) New/Add.: $ 29,444.00
(b) Alt/Rep.: $
Total: $ 29,444.00

60. Volume of New Bldg. or Addition: 1176 cubic ft.

OFFICIAL USE ONLY

After/Repair FEE	New Const. FEE	Filing Fee	TOTAL PERMIT FEE
$	$	$	$
By: Date:	By: Date:	By: Date:	By: Date:

(C) RAZING A BUILDING (COMPLETE ITEMS 61 THRU 83)

61. Raze Contractor's Name:	62. Contractor's Address: *(include Zip)*	63. Phone:

64. Insurance Company:	65. Policy or Certif. No.:	66. Expir. Date:	67. Raze Method:

68. Building Material:	69. Raze Entire Building?	70. Building Condemned?	70A. Building Vacant?	71. Public Space Vault?	72. Disconnect Water and/or Sewer?	73. Size of Water Connection:
	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☑ No	☐ Yes ☐ No	in.

74. Plumber's Name:	75. Lic. No.	76. Length:	77. Width:	78. Height:	79. Volume:	80. Party Wall?
		ft.	ft.	ft.	cu. ft.	☐ Yes ☐ No

81. Asbestos in the Building?	82. Raze Contractor Signature:	OFFICIAL USE ONLY
☐ No ☐ Yes, Location	83. Owner's Signature:	FEE $ By: Date:

(D) RETAINING WALL (COMPLETE ITEMS 84 THRU 93)

The retaining wall will not obstruct any accessible parking required by D.C. Zoning Regulations

84. Cost of Work:	85. Material:	86. Height:	87. Color:	88. Location:
$		ft.		☐ Entirely on Owner's Land ☐ Party Line with Adjacent Neighboring Land*

* If party wall, the owner of the adjoining property must agree to the erection of the retaining wall and this application.

89. Signature of Adjoining Owner:	90. Phone: Work Home	OFFICIAL USE ONLY
		FEE $ By: Date:
91. Address of Adjoining Owner:	**92. Lot:** / **93. Square:**	

(E) FENCE (COMPLETE ITEMS 94 THRU 102)

The fence will not obstruct any accessible parking required by D.C. Zoning Regulations

94. Material and type:	95. Height: ft.	96. Color:	97. Location: ☐ Entirely on Owner's Land ☐ Party Line with Adjacent Neighboring Land *

* If party fence, the owner of the adjoining property must agree to the erection of the fence and this application.

98. Signature of Adjoining Owner:	99. Phone: Work Home	
100. Address of Adjoining Owner:	101. Lot:	102. Square:

OFFICIAL USE ONLY		
FEE	By:	Date:
$		

(F) SHED OR GARAGE (COMPLETE ITEMS 103 THRU 113)

103. Number:	104. Length: ft.	105. Width: ft.	106. Area: sq. ft.	107. Height: ft.	108. Volume: cu. ft.	109. Estimated Cost of Work: $

110. Material of Roof:	111. Material of Sides:	112. Wall thickness:: ☐ External ( ) inches ☐ Party ( ) inches	113. Color:

OFFICIAL USE ONLY	
FEE	
$	
By:	Date:

(G) AWNING (COMPLETE ITEMS 114 THRU 123)

114. Number:	115. Color:	116. Type: ☐ Folding ☐ Fixed	117. Projections: Beyond bldg. line ____ in. Beyond pt. of attachm. ____ in.	118. Height of lowest part of awning: (a) ____ ft above sidewalk (b) ____ ft above parking (c) ____ ft above grade

119. Material of Frame:	120. Material of Covering:	121. Lettering on Awning? ☐ Yes ☐ No	122. Fixed posts? ☐ Yes ☐ No	123. Over sidewalk cafe? ☐ Yes ☐ No

OFFICIAL USE ONLY	
FEE	
$	
By:	Date:

(H) SIGN (COMPLETE ITEMS 124 THRU 144)

124. Number:	125. Electric Signs? ☐ Yes, answer q. 126-132 ☐ No, SKIP q. 126-132	126. Type: ☐ Incandes. ☐ Fluoresc. ☐ Neon	127. Power ____ VA	128. Electrical Contractor: Lic. No.:

129. Address of Electrical Contractor *(include Zip)*	130. Signature of Licensed Electrician:	131. Phone:	132. License No.:

133. Height relative to building and ground: (a) ____ ft ____ in above sidewalk (b) ____ ft ____ in above roof (c) ____ ft ____ in is bldg height (d) ____ ft ____ in above projection or window (e) ____ ft ____ in from roof to sign's bottom	134. Material of Sign:	135. Type of Sign:	136. Color:

137. Width: ft.	138. Length: ft.	139. Area of Sign: sq. ft.	140. Width of Business Frontage: ft.

141. C of O Number for Building:	142. Sign Contractor Lic. No.:	143. Sign Contractor's Address:	144. Phone:

OFFICIAL USE ONLY					
Sign FEE		Elect. FEE		Total FEE	
$		$		$	
By:	Date:	By:	Date:	BY:	Date:

(I) APPLICANT'S SIGNATURE:

A. **OWNER:** I hereby certify that I am the owner of the property; that the application and plans are complete and correct to the best of my knowledge; and that if a permit (or permits) is issued, the construction will conform to the D.C. Construction Codes, the Zoning Regulations, and other applicable laws and regulations of the District of Columbia.

Signature of Owner: X Kenneth [illegible] Address: 321 4th St., SE Date: 4/13/01

B. **AGENT:** I hereby certify that I have the authority of the owner to make this application. I declare that the application and plans are complete and correct to the best of my knowledge. The owner has assured me that if a permit (or permits) is issued, the construction will conform to the D.C. Construction Codes, the Zoning Regulations, and other applicable laws and regulations of the District of Columbia.

Signature of Agent: X [illegible] Address: 8545 Edgewood Dr Cap. Hts. MD Date: 4/13/01

(J) APPROVALS (DO NOT WRITE ON THIS PAGE; OFFICIAL USE ONLY):

A. PERMIT CONTROL

- ☐ 1. Fine Arts by: _____ Date: _____
- ☐ 2. Historic by: _____ Date: _____
- ☐ 3. PADC by: _____ Date: _____
- ☐ 4. Cap. Gateway by: _____ Date: _____
- ☐ 5. W.H./ Obs. Precinct by: _____ Date: _____
- ☐ 6. Flood Control by: _____ Date: _____
- ☐ 7. WMATA by: _____ Date: _____
- ☐ 8. Condem. by: _____ Date: _____
- ☐ 9. RLA by: _____ Date: _____
- ☐ 10. Rental Accom. by: _____ Date: _____
- ☐ 11. Chinatown Distr. by: _____ Date: _____
- ☐ 12. Utility Clearance by: _____ Date: _____
- ☐ 13. General Liability Ins. Policy Clearance by: _____ Date: _____

B. CLEARANCE TO FILE PLANS

- ☐ 1. Zoning by: _____ Date: _____
- ☐ 2. DPW — Permit and Records Division
  Access to Parking Street ☐ Street ☐ Alley
  Cleared by: _____ Date: _____
- ☐ 3. DPW - Consumer Engineer
  Cleared by: _____ Date: _____
- ☐ 4. ERA - Erosion Control
  Cleared by: _____ Date: _____

Restrictions of the Permit:

TO REPORT WASTE, FRAUD, OR ABUSE BY ANY D.C. GOVERNMENT OFFICIAL, CALL THE D.C. INSPECTOR GENERAL AT 1-800-521-1639

C. PLANS AND APPLICATION APPROVAL

- ☐ 1. Information Counter by: _____ Date: _____
- ☐ 2. Information Center by: _____ Date: _____
  - ☐ (a) ABC Board by: _____ Date: _____
  - ☐ (b) Noise Control by: _____ Date: _____
  - ☐ (c) Industrial Safety by: _____ Date: _____
  - ☐ (d) Vector Control by: _____ Date: _____
  - ☐ (e) D.C. Animal by: _____ Date: _____
  - ☐ (f) Police Dept. by: _____ Date: _____
- ☐ 3. Zoning by: _____ Date: _____
  Zoning Update by: _____ Date: _____
- ☐ 4. DPW - Permit and Records Division/Deposit #
  Sidewalk Deposit $_____ Driveway Deposit $_____
  by: _____ Date: _____
- ☐ 5. Water/Sewer Design Branch
  Consumer Eng. by: _____ Date: _____
- ☐ 6. Environmental Regulation Administration
  - ☐ Environmental Policy Review
    Control No.: _____
    by: _____ Date: _____
  - ☐ Erosion Control by: _____ Date: _____
  - ☐ Storm Water Mgmt. by: _____ Date: _____
    Plan No. _____
- ☐ 7. Mechanical Eng. Review by: _____ Date: _____
- ☐ 8. Plumbing Eng. Review by: _____ Date: _____
- ☐ 9. Electrical Eng. Review by: _____ Date: _____
- ☐ 10. Health Plan Review
  - ☐ (a) Food Plan Review by: _____ Date: _____
  - ☐ (b) Medical X-ray Plan Rev. by: _____ Date: _____
- ☐ 11. D.C. Fire Dept. (Fire Prevention Plan Review Section)
  by: _____ Date: _____
- ☐ 12. Elevator Plan Rev. Sec. by: _____ Date: _____
- ☐ 13. Plumbing Insp. Rev. by: _____ Date: _____
- ☐ 14. Construction Insp. Branch (Field Check)
  by: _____ Date: _____
- ☐ 15. Historic Pres. Div. by: _____ Date: _____
- ☐ 16. Structural Eng. by: _____ Date: _____
- ☐ 17. Permit and Certificate Issuance Counter
  By: _____ Date: _____
- ☐ 18. Q.C. By: _____ Date: _____

ZONING

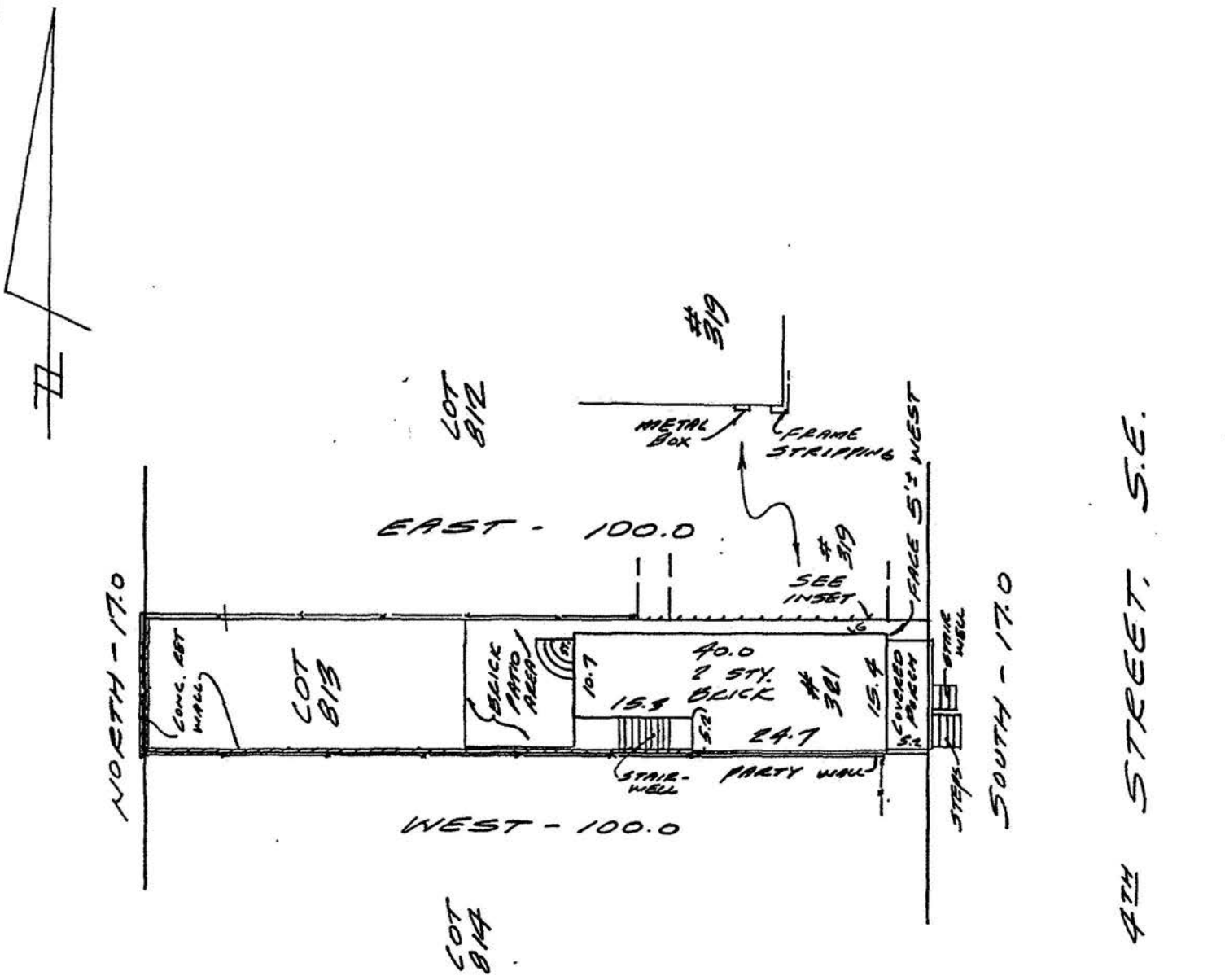
C of O Number _____ Date _____
Existing Use(s) _____

☐ New bldg.
☐ P.O.D.
☐ File in room 329

Job No.:	BZA Case No.:	PUD Order No.:

DPW — PUBLIC SPACE

Street Name: _____
Street Width: _____
Road Width: _____
Sidewalk Width: _____
Parking: _____
Restrictions: _____



STATE OF MARYLAND
EDWARD L. LOPEZ JR.
No. 522
REGISTERED
PROPERTY LINE SURVEYOR

Note: This property does not lie within the limits of a flood hazard area as delineated on the maps of the National Flood Insurance Program, unless otherwise shown.
NOTE: This survey prepared for title purposes only.

CAPITOL SURVEYS

NOTE: This drawing is not intended to establish property lines. It cannot be used for construction purposes. All information shown hereon taken from the land records of the county or city in which the property is located and field work performed.

HOUSE LOCATION

LOT -813 SQUARE -792

SHOWN A. & T. TRACINGS

DISTRICT OF COLUMBIA

Recorded in Liber _____ Folio _____ Scale 1" = 20'

I hereby certify that the position of all the existing improvements on the above described property have been established by accepted field practices, and that unless otherwise shown there are no visible encroachments.

Edward L. Lopez

EDWARD L. LOPEZ, JR.
MD Property Line Surveyor

Duplicate?

DEPARTMENT OF CONSUMER AND REGULATORY AFFAIRS
PERMIT SERVICE CENTER

BZA

(889D)

BUILDING PERMIT CONTROL BATCH SHEET

Date: 10/6/2000
Intake Time: 1018 ☐AM ☐PM

LOG NO. **00 -** 25824

Time At Engr.'s Counter: ☐AM ☐PM

Review Completion Due: ☐AM ☐PM

Address: 321 - 4th ST SE

Time Review Completed: ☐AM ☐PM

REQUIRED REVIEWS (Checked boxes only)	REVIEWER	TIME	REVIEW STATUS	JOB SCREENED ?
☐ PUBLIC SPACE		IN ☐AM ☐PM OUT ☐AM ☐PM	☐ Approved ☐HFC ☐ Ref. to DPW ☐ Conf. w/ Applicant	
X ZONING	AMR	IN 1020 ☐AM ☐PM OUT 1022 ☐AM ☐PM	☐ Approved ☐HFC ☒ Ref. to BZA ☐ Ref. to Zoning Administrator ☐ ☐ Conf. w/ Applicant	
☐ SOIL EROSION ☐ STORMWATER MGMT.		IN ☐AM ☐PM OUT ☐AM ☐PM	☐ Approved ☐HFC ☐Ref. to DOH ☐ Conf. w/ Applicant	
☐ AIR QUALITY ☐ EIS		IN ☐AM ☐PM OUT ☐AM ☐PM	☐ Approved ☐HFC ☐Ref. to DOH ☐ Conf. w/ Applicant	
☐ WATER AND SEWER		IN ☐AM ☐PM OUT ☐AM ☐PM	☐ Approved ☐HFC ☐ Ref. to WASA ☐ Conf. w/ Applicant ☐ WASA Deposit Required	
☐ MECHANICAL/PLUMBING		IN ☐AM ☐PM OUT ☐AM ☐PM	☐ Approved ☐HFC ☐ Conf. w/ Applicant	
☐ HEALTH (Food & Medical)		IN ☐AM ☐PM OUT ☐AM ☐PM	☐Approved ☐HFC ☐ Conf. w/ Applicant	
☐ ELECTRICAL		IN ☐AM ☐PM OUT ☐AM ☐PM	☐ Approved ☐HFC ☐ Conf. w/ Applicant	
☐ ELEVATOR		IN ☐AM ☐PM OUT ☐AM ☐PM	☐ Approved ☐HFC ☐ Conf. w/ Applicant	
☐ FIRE PROTECTION		IN ☐AM ☐PM OUT ☐AM ☐PM	☐ Approved ☐HFC ☐ Conf. w/ Applicant	
☐ STRUCTURAL		IN ☐AM ☐PM OUT ☐AM ☐PM	☐ Approved ☐HFC ☐ Conf. w/ Applicant	

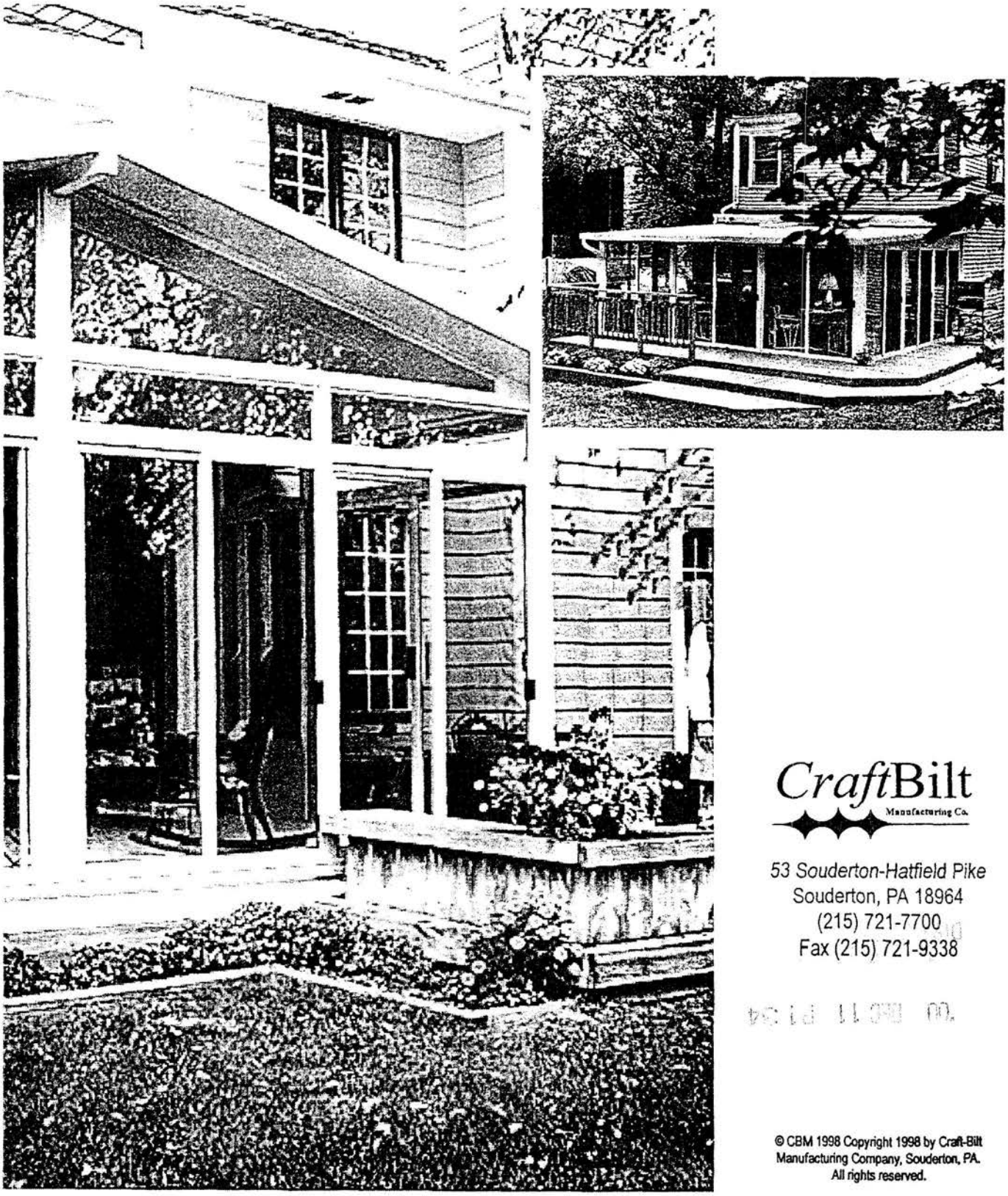
Remarks:

Duplicate





Building Permit Package



CraftBilt
Manufacturing Co.

53 Souderton-Hatfield Pike
Souderton, PA 18964
(215) 721-7700
Fax (215) 721-9338

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This "Building Permit Package" includes information and drawings most often required to obtain building permits for Betterliving® Patio Rooms.

This package may be copied in accordance with any local building department provisions, to obtain building permits. For further information, refer to the Betterliving Patio Room Engineering Manual.

In this package you will find the following information:

Introduction and Certification

Honeycomb Panel Conformance Specifications

A-Frame Room Drawings

Studio Room Drawings

Fire Test Results

Connection Details

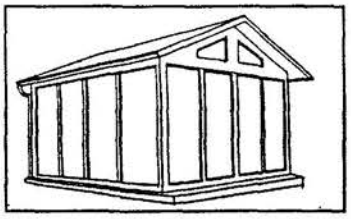
Please contact Craft-Bilt Manufacturing Co. for any additional information you may need.

© CBM 1998, Copyright 1998 by Craft-Bilt Manufacturing Company, Souderton, PA. All rights reserved. For information, contact Craft-Bilt Manufacturing Company, 53 Souderton-Hatfield Pike, Souderton, PA 18964, USA (215) 721-7700. All professional and reasonable efforts have been undertaken to assure the accuracy of the material in this manual. However, we cannot be responsible for typographical errors. This manuyal is provided as is, without any warranty of any kind, either express or implied, respecting the contents of this manual, including but not limited to implied warranties for the manual's quality, performance, merchantability, or fitness of any particular purpose. Neither Craft-Bilt Manufacturing Company not its dealers or distributors shall be liable for any loss or damage caused or alleged to have been caused directly or indirectly by this manual.

1-1 BACKGROUND

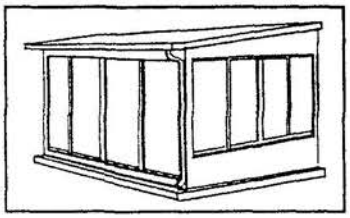
The patio rooms referenced in this package, known commercially as Betterliving® Patio Rooms, are manufactured and sold by Craft-Bilt Manufacturing Company of Souderton, PA. Craft-Bilt Manufacturing Company has manufactured a wide range of aluminum home-improvement products since 1946.

1-2 BETTERLIVING PATIO ROOM SYSTEMS



A-FRAME ROOM

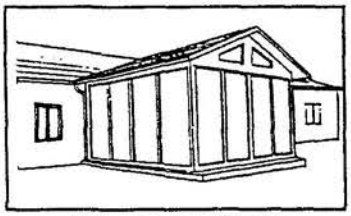
The gable or A-Frame roof construction features a structurally designed ridge beam of extruded aluminum alloy or glue laminated timber. The introduction of an independently supported ridge beam essentially eliminates all outward thrust at the eaves level.



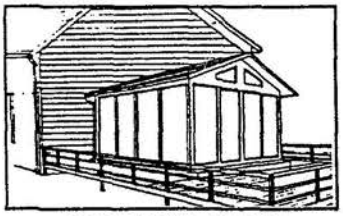
STUDIO ROOM

The mono-pitch or studio roof system features a pitched roof with a minimum slope of one inch per foot of projection. It is fastened to the existing structure by means of an extruded aluminum section.

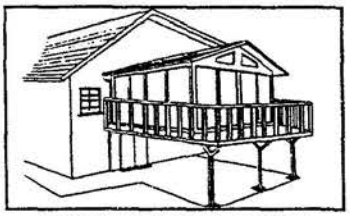
Betterliving Patio Rooms have been installed successfully in a variety of locations, as shown:



ROOM ON SLAB



ROOM ON DECK



ROOM ON BALCONY

1-3 STRUCTURAL PROPERTIES

Honeycomb and polystyrene panels were tested for load and deflection performance in accordance with the American Society for Testing and Materials (ASTM) method E72-80. Work was performed under the supervision of an independent testing and engineering laboratory. Span tables in this package show the allowable roof loads based on the testing performed.

1-4 FIRE RATINGS

Honeycomb and Polystyrene panels were tested for fire resistance by an independent testing laboratory. Based on the test results, the panels are classified as Type 5B Construction materials. Section 6 presents results of fire tests performed on both honeycomb and polystyrene panels.

1-5 CONNECTIONS

Fasteners required to connect structural components together in A-Frame rooms and Studio rooms are presented in Section 7. There is also information on room-house and room-deck attachments in Section 7.

1-6 WARRANTY

Properly installed productes are warranted by the manufacturer.

[redacted]

The following tables and figures have been reviewed and approved by a professional engineer.

Table #	Revision
21-1	703-1
21-2	703-1
62-1	603-1
70-1	603-1
73-1	507-1
73-2	507-1
75-1	501-1

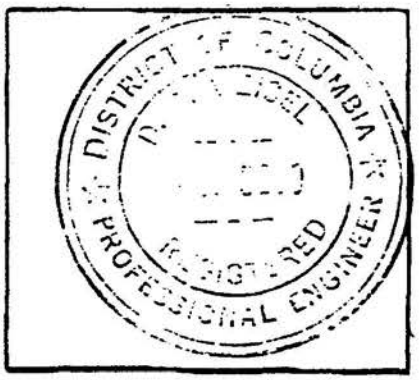
Figure #	Revision
40-1	710-1
40-2	710-1
50-1	710-1
50-2	710-1
73-1	603-1
73-2	603-1
75-1	603-1

Signature

Nov. 12, 1998

Date

Seal



NOTES FOR HONEYCOMB PANEL SPAN TABLES

1 a) • = Allowable loads for panel spans of 8', 10', 12', 14', 16' and 18', based upon ASTME-72-80 test results.

b) • = Allowable loads for panel spans of 9', 11', 13', 15' and 17', based upon interpolation of ASTME-72-80 test results.

c) 3" HC = 3" thick Honeycomb Panel

d) H = Thermally-broken H-stiffener

e) SKY = Skylight

f) CONFIG. = Configuration

g) PSF = Pounds per square foot

ROOF SPAN DESIGN TABLES (HONEYCOMB PANELS)[1] FOR LESSOR OF ULTIMATE LOAD/2.5 OR LOAD AT SPAN/120

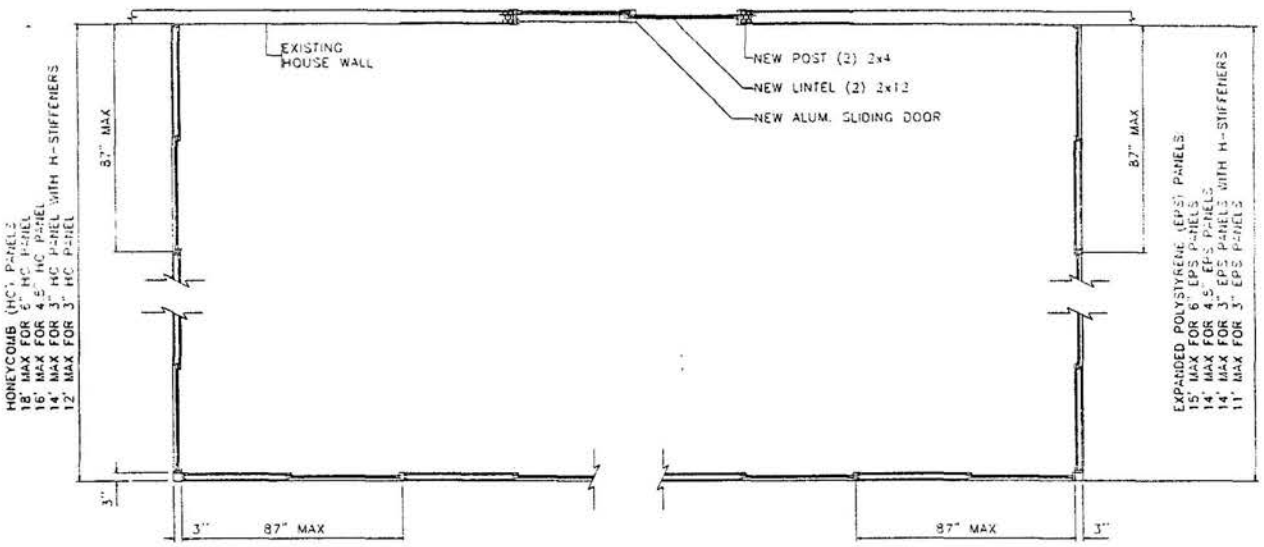
PANEL SPAN (ft)	PANEL CONFIG.	ALLOWABLE LIVE ROOF LOADS FOR HONEYCOMB (H/C) PANELS 20 (psf)	25 (psf)	30 (psf)	35 (psf)	40 (psf)	45 (psf)	50 (psf)	55 (psf)	60 (psf)
8	3" HC	•	•	•	•	•	•	•	•	•
8	3" HC + H	•	•	•	•	•	•	•	•	•
8	4.5" HC	•	•	•	•	•	•	•	•	•
8	4.5" HC + H	•	•	•	•	•	•	•	•	•
8	6" HC	•	•	•	•	•	•	•	•	•
8	6" HC + H	•	•	•	•	•	•	•	•	•
9	3" HC	•	•	•	•	•	•	•	•	
9	3" HC + H	•	•	•	•	•	•	•	•	•
9	4.5" HC	•	•	•	•	•	•	•	•	•
9	4.5" HC + H	•	•	•	•	•	•	•	•	•
9	6" HC	•	•	•	•	•	•	•	•	•
9	6" HC + H	•	•	•	•	•	•	•	•	•
10	3" HC	•	•	•	•	•	•	•		
10	3" HC + H + SKY	•	•	•						
10	3" HC + H	•	•	•	•	•	•	•	•	•
10	4.5" HC	•	•	•	•	•	•	•	•	•
10	4.5" HC + H	•	•	•	•	•	•	•	•	•
10	6" HC	•	•	•	•	•	•	•	•	•
10	6" HC + H	•	•	•	•	•	•	•	•	•
11	3" HC	•	•	•	•	•				
11	3" HC + H + SKY	•	•							
11	3" HC + H	•	•	•	•	•	•	•		
11	4.5" HC	•	•	•	•	•	•	•	•	
11	4.5" HC + H	•	•	•	•	•	•	•	•	•
11	6" HC	•	•	•	•	•	•	•	•	•
11	6" HC + H	•	•	•	•	•	•	•	•	•
12	3" HC	•	•	•						
12	3" HC + H + SKY	•								
12	3" HC + H	•	•	•	•	•				
12	4.5" HC	•	•	•	•	•	•	•		
12	4.5" HC + H	•	•	•	•	•	•	•	•	•
12	6" HC	•	•	•	•	•	•	•	•	•
12	6" HC + H	•	•	•	•	•	•	•	•	•

SEE NOTES ON PAGE 2.1.0

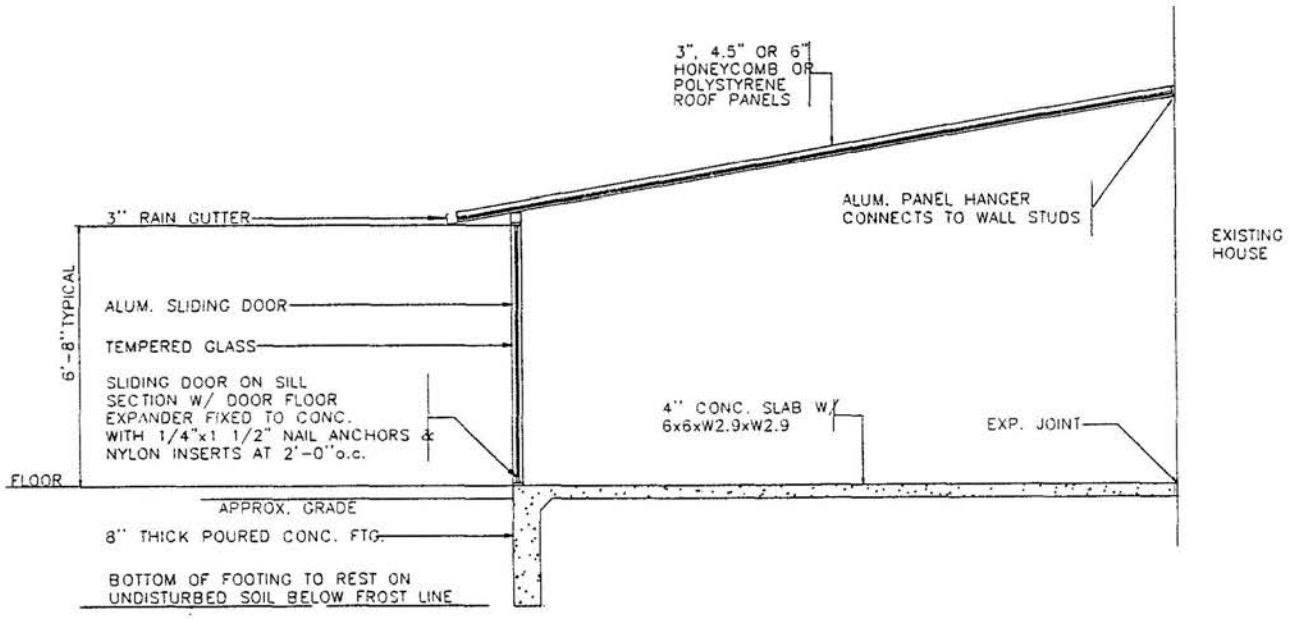
ROOF SPAN DESIGN TABLES (HONEYCOMB PANELS)[1] FOR LESSOR OF ULTIMATE LOAD/2.5 OR LOAD AT SPAN/120

PANEL SPAN (ft)	PANEL CONFIG.	ALLOWABLE LIVE ROOF LOADS FOR EXPANDED HONEYCOMB (H/C) PANELS								
		20 (psf)	25 (psf)	30 (psf)	35 (psf)	40 (psf)	45 (psf)	50 (psf)	55 (psf)	60 (psf)
13	3" HC	•	•							
13	3" HC + H	•	•	•						
13	4.5" HC	•	•	•	•	•	•			
13	4.5" HC + H	•	•	•	•	•	•	•	•	•
13	6" HC	•	•	•	•	•	•	•	•	•
13	6" HC + H	•	•	•	•	•	•	•	•	•
14	3" HC	•								
14	3" HC + H	•	•							
14	4.5" HC	•	•	•	•	•				
14	4.5" HC + H	•	•	•	•	•	•	•	•	•
14	6" HC	•	•	•	•	•	•	•	•	
14	6" HC + H	•	•	•	•	•	•	•	•	•
15	3" HC									
15	3" HC + H									
15	4.5" HC	•	•	•	•					
15	4.5" HC + H	•	•	•	•	•	•	•		
15	6" HC	•	•	•	•	•	•			
15	6" HC + H	•	•	•	•	•	•	•	•	•
16	3" HC									
16	3" HC + H									
16	4.5" HC	•	•	•						
16	4.5" HC + H	•	•	•	•	•				
16	6" HC	•	•	•	•	•				
16	6" HC + H	•	•	•	•	•	•	•	•	
17	3" HC									
17	3" HC + H									
17	4.5" HC	•								
17	4.5" HC + H	•	•	•	•					
17	6" HC	•	•	•	•					
17	6" HC + H	•	•	•	•	•	•	•		
18	3" HC									
18	3" HC + H									
18	4.5" HC									
18	4.5" HC + H	•	•	•						
18	6" HC	•	•	•	•					
18	6" HC + H	•	•	•	•	•	•			

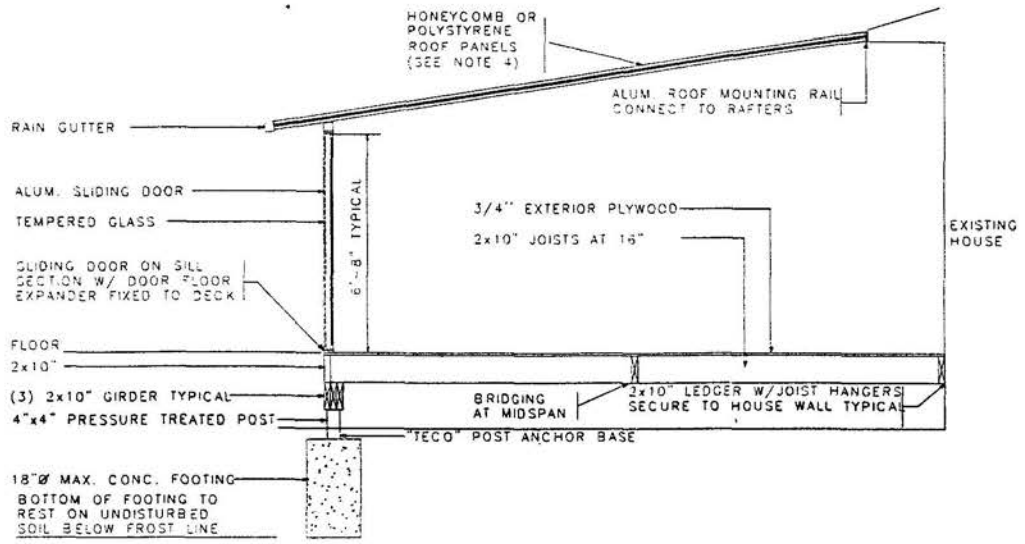
SEE NOTES ON PAGE 2.1.0



STUDIO ROOM FLOOR PLAN



STUDIO ROOM CROSS SECTION (CONCRETE SLAB)



STUDIO ROOM CROSS SECTION (WOODEN DECK)

NOTES FOR FIGURE 50-1 and 50-2

1) Structural members shall comprise 6063 T6 aluminum extrusions supplied by Craft-Bilt Manufacturing Company.
2) Roof panels shall consist of 3", 4.5" or 6" aluminum panels with either honeycomb or polystyrene cores.
3) Maximum spans over door shall be 87"
4) Maximum roof panel spans are based upon the lessor of the ulitmate load / 2.5 or load at span / 120.
5) All structures shall be installed according to Craft-Bilt Manufacturing Company recommendations.
6) **Loadings:**

ROOF:	
Snow load	30 PSF
Wind load	20 PSF
Dead load	2 PSF
DECK:	
Live load	60 PSF
Estimated dead load	10 PSF

7) **Timber Design Stresses:**

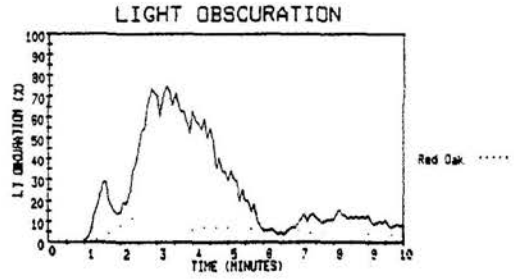
Species Southern Pine No. 2	
Bending stress Fb	1400 PSI (Repetitive)
Compression perpendicular to grain Fc	565 PSI
Shear parallel to grain Fv	90 PSI
Compression parellel to grain Fc	975 PSI
Modulus of elasticity E	1,600,000 PSI

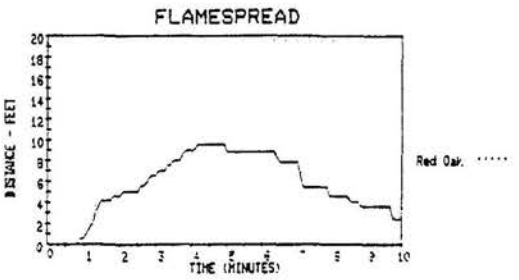
All timbers shall be pressure treated

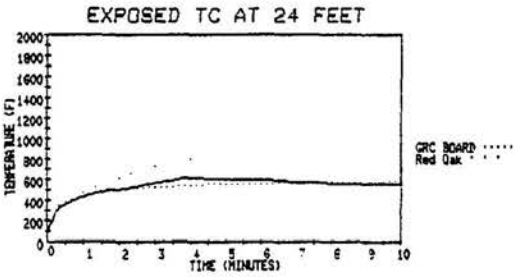
8) **Soil Bearing Capacity:**
Footing should rest on soil having a minimum bearing capacity of 2,000 PSF.
9) **Footings:**
Footings shall be located below the frost line. Footings shall be sized according to the applied loads and local soil bearing capacity. Concrete is to have a minimum compressive strengthh of 3,000 PSI at 28 days.

ASTM E84 Test Results

HONEYCOMB PANELS WITH VINYL CLEATS







TEST MATERIALS

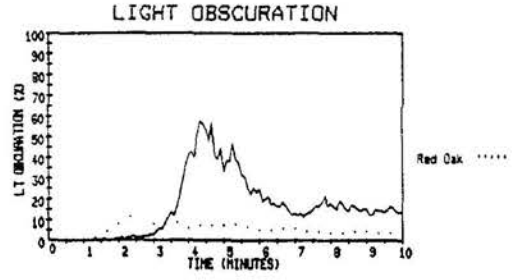
- Panel facing consisted 0.024" embossed aluminum
- Panel core consisted 99# 0.75" paper honeycomb
- Panel adhesive consisted moisture-curing urethane
- Panels joined with vinyl cleats

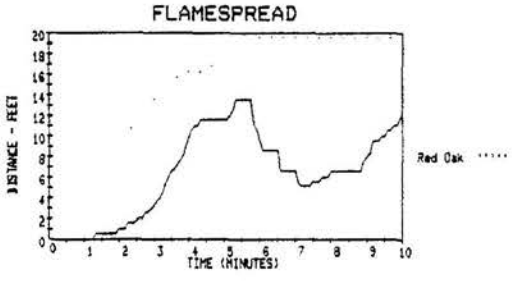
TEST RESULTS

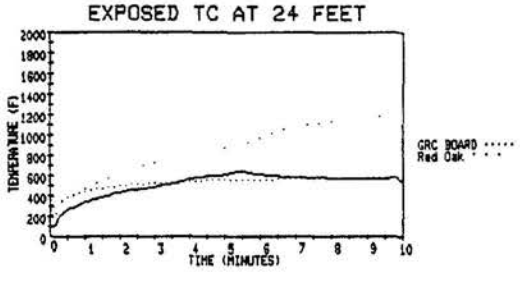
- Fire Tests performed by an independent fire testing laboratory yielded the following results:

	Flame Spread	Smoke Density
3" Honeycomb with vinyl cleats	40	335
Code Requirements	< 75	< 450

HONEYCOMB PANELS WITH AL H-STIFFENERS







TEST MATERIALS

- Panel facing consisted 0.024" embossed aluminum
- Panel core consisted 99# 0.75" paper honeycomb
- Panel adhesive consisted moisture-curing urethane
- Panels joined with H-Stiffeners

TEST RESULTS

- Fire Tests performed by an independent fire testing laboratory yielded the following results:

	Flame Spread	Smoke Density
3" Honeycomb with H-Stiffeners	45	230
Code Requirements	< 75	< 450

MANUFACTURER'S PERFORMANCE DATA

Performance Data - TEK Self Drilling Fasteners

PULLOUT VALUES (average lbs. ultimate)								
Fastener		Steel Gauge						
Dia.	Pt.	26	24	22	20	18	16	14
#6	2	120	183	248	296	471	679	847
#8	2	119	193	265	298	491	703	959
#10	2	131	214	272	368	547	784	1033

SHEET GAUGES								
Gauge No.	18	20	21	22	23	24	25	26
Alum. Decimal Equiv.	0.040"	0.032"	0.028"	0.025"	0.023"	0.020"	0.018"	0.018"
Steel Decimal Equiv.	0.048"	0.036"	0.034"	0.030"	0.027"	0.024"	0.021"	0.018"

FASTENER VALUES			
Fastener (dia-tpi) 120	Tensile (lbs. min.) 248	Shear (ave. lbs. ult.) 471	Torque (min. in. lbs.) 847
6 to 20	1285	750	25
8 to 18	1545	1000	42
10 to 16	1936	1400	61

SHEAR VALUES (average lbs. ultimate)						
Fastener		Steel Gauge (lapped)				
Dia.	Pt.	26/26	24/24	22/22	20/20	18/18
#6	2	278	466	526	758	845
#8	2	294	496	560	740	1060
#10	2	312	478	589	830	1206

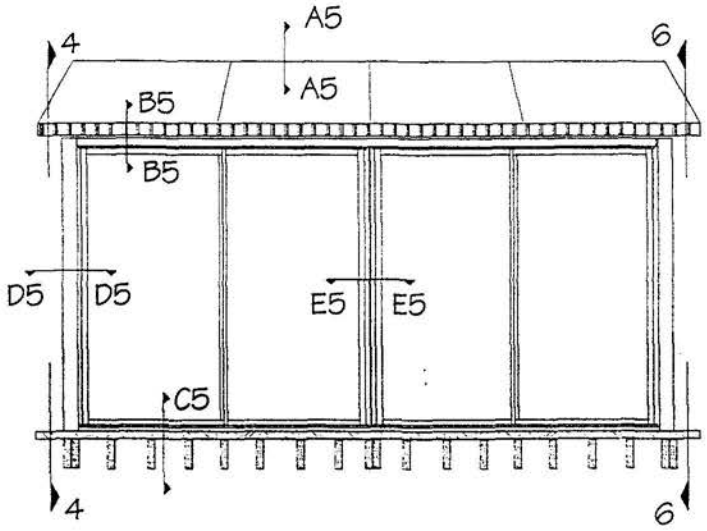
The values listed above, provided by the fastener manufacturer, are ultimate averages achieved under laboratory conditions.

Installation Guidelines

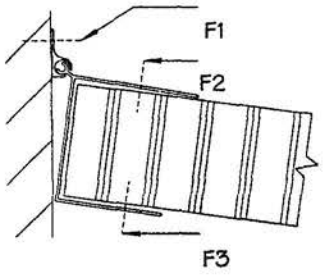
1) Spacing between fasteners shall always exceed 0.5 inches.
2) Clearance between fasteners and edge of sheet or shape shall always exceed 0.5 inches.
3) Use a standard screwgun with a depth sensitive nosepiece to install Teks. For optimal fastener performance, the screwgun should be a minimum of 4 amps and have a RPM range of 0-2000.
4) Adjust the screwgun nosepiece to properly seat the fastener.
5) Set new magnetic sockets correctly before use. Remove chip buildup as needed.
6) The fastener is fully seated when the head is flush with the work surface.
7) Overdriving may result in torsional failure of the fastener or stripout of the substrate.
8) The fastener must penetrate beyond the metal structure a minimum of 3 pitches of thread.

NOTES

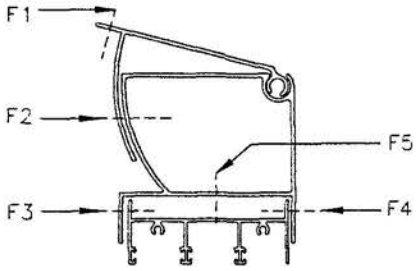
1) For calculation purposes (Table 72-1 through 76-1), assume:
   - Allowable pull out strength of 8-18 T2 in 0.024' aluminum sheet = 70 lb.
   - Silicone bonding transfers 25% of connection load.
   - Allowable shear strength of 8-18 T2 in 0.024" aluminum sheet = 170 lb.
   - Allowable bearing strength of 8-18 T2 in 0.065" aluminum sheet = 125 lb.



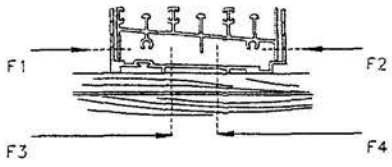
STUDIO ROOM FRONT WALL SECTION (5-5)



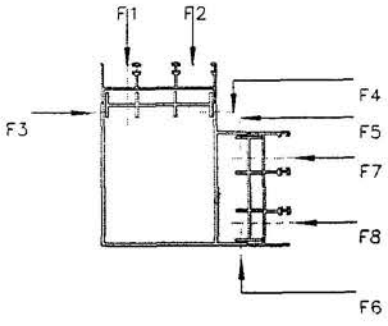
SECTION A-5



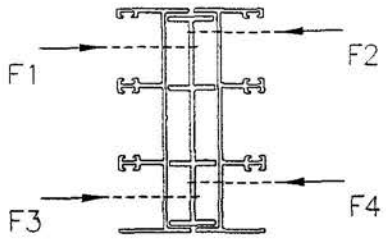
SECTION B-5



SECTION C-5



SECTION D-5



SECTION E-5

em75-1-55.dwg em75-1-A5.dwg em75-1-B5.dwg
em75-1-C5.dwg em75-1-D5.dwg em75-1-E5.dwg
permitpkg.p65 REV 9811

TABLE 75-1 STUDIO ROOM FRONT WALL CONNECTION 7.5.1t

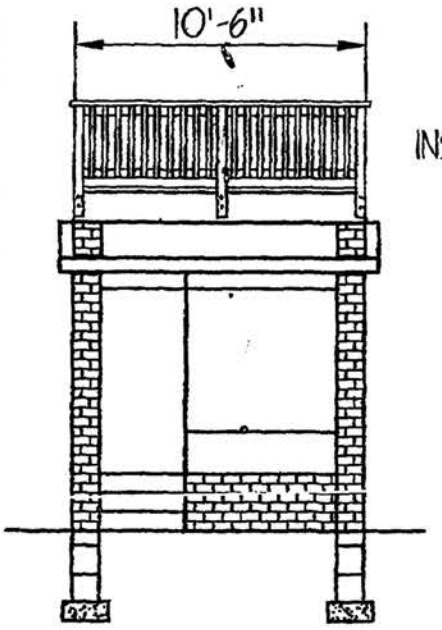
FASTENER SPECIFICATIONS FOR STUDIO ROOM FRONT WALL

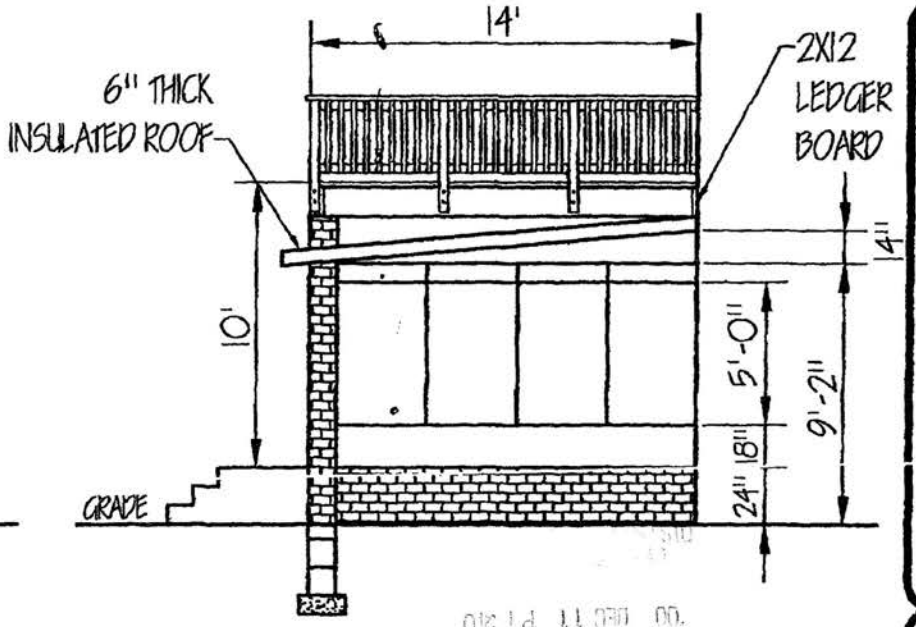
FASTENERS						SPAN	MAXIMUM SPACING BETWEEN FASTENERS (In)				
SECTION	FASTENER SET	DESIGNATION	SILICONE SEAL	CONNECT FROM	CONNECT TO	PANEL (ft)	UPLIFT 10 psf	UPLIFT 20psf	UPLIFT 30 psf	UPLIFT 40 psf	UPLIFT 50 psf
A-5	F1	# 14 x 2"-3" (Hex)	Yes	Hanger Support	Timber Wall	8'-18'	16"-24"	16"-24"	16"-20"	12"-16"	12"-16"
		1/4"x2 1/2" Lag Screw with Lag Shield	Yes	Hanger Support	Masonry Wall						
	F2	# 8 x 1/2" (Tek)		Wall Hanger	Roof Panel	8'	8"	8"	8"	8"	8"
	F3	# 8 x 1/2" (Tek)		Wall Hanger	Roof Panel	10'	8"	8"	8"	8"	8"
						12'	8"	8"	8"	8"	7"
						14'	8"	8"	8"	8"	6"
						16'	8"	8"	8"	7"	6"
						18'	8"	8"	8"	6"	5"
B-5	F1	# 8 x 1/2" (Tek)		Header Arm	Roof Panel	8'	8"	8"	7"	6"	4"
						10'	8"	8"	6"	5"	4"
						12'	8"	8"	5"	4"	3"
						14'	8"	7"	5"	4"	3"
						16'	8"	6"	4"	3"	2"
						18'	8"	6"	4"	3"	2"
	F2	# 8 x 1/2" (Tek)		Header Arm	Header Support	8'	30"	30"	18"	15"	12"
	F3	# 8 x 1/2" (Tek)		Header Support	Door Header	10'	30"	24"	17"	13"	10"
	F4	# 8 x 1/2" (Tek)		Header Support	Door Header	12'	30"	18"	14"	11"	9"
						14'	30"	18"	13"	9"	8"
						16'	30"	17"	11"	8"	7"
						18'	30"	15"	10"	8"	6"
	F5	# 8 x 3/4" (Tek)		Door Header	Header Support	8'-18'	24"	24"	24"	24"	24"
C-5	F1	# 8 x 1/2" (Tek)		D/F-Channel	Door Sill	8'-18'	12"	12"	12"	12"	12"
	F2	# 8 x 1/2" (Tek)		D/F-Channel	Door Sill						
	F3	#14 x 2"-3" (Hex)	Yes	D/F-Channel	Wooden Deck	8'-18'	32"-48" +3/column	32"-48" +3/column	32"-48" +3/column	32"-48" +3/column	32"-48" +3/column
	F4	#14 x 2"-3" (Hex)	Yes	D/F-Channel	Wooden Deck						
	F3	1/4"x1 1/2" Nail Anchor	Yes	D/F-Channel	Concrete Slab						
	F4	1/4"x1 1/2" Nail Anchor	Yes	D/F-Channel	Concrete Slab						
D-5	F1	# 8 x 3/4" (Tek)		Door Jamb	Mullion	8'-18'	24"	24"	20"	16"	16"
	F2	# 8 x 3/4" (Tek)		Door Jamb	Mullion						
	F3	# 8 x 1/2" (Tek)		Corner Column	Mullion						
	F4	# 8 x 1/2" (Tek)		Corner Column	Mullion						
	F5	# 8 x 1/2" (Tek)		Corner Column	Mullion						
	F6	# 8 x 1/2" (Tek)		Corner Column	Mullion						
	F7	# 8 x 3/4" (Tek)		Door Jamb	Mullion						
	F8	# 8 x 3/4" (Tek)		Door Jamb	Mullion						
E-5	F1	# 8 x 3/4" (Tek)		Door Jamb	Mullion	8'-18'	24"	24"	20"	16"	16"
	F2	# 8 x 3/4" (Tek)		Door Jamb	Mullion						
	F3	# 8 x 3/4" (Tek)		Door Jamb	Mullion						
	F4	# 8 x 3/4" (Tek)		Door Jamb	Mullion						

1) See Figure 75.1 and 75.1
2) See Table 70.1

Betterliving PATIO ROOMS

BETTERLIVING PATIO ROOMS - FICKEL & KRADITOR RESIDENCE





LONG FENCE

DISTRICT OF COLUMBIA GOVERNMENT
OFFICE OF THE SURVEYOR

Washington, D.C., 9-14, 2000

Plat for Building Permit of: SQUARE 792 LOT 812

Scale: 1 inch = 20 feet Recorded in Book A&T Page TRACING

Receipt No. 452

Furnished to: FICKEL + K. RADITER

Surveyor, D.C.

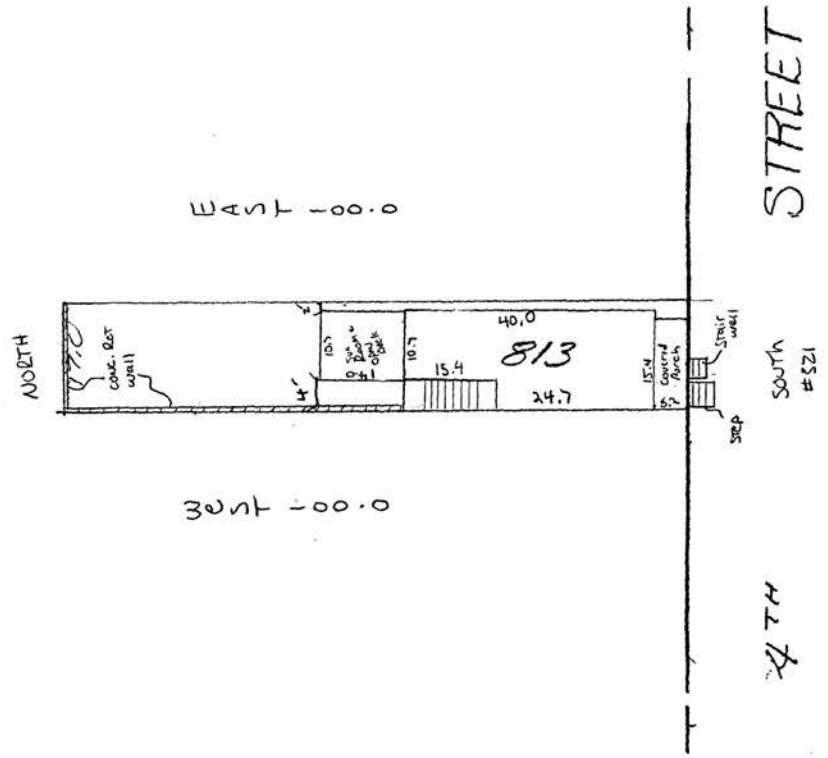
By: DA VMA

I hereby certify that all existing improvements shown hereon, are completely dimensioned, and are correctly platted; that all proposed buildings or construction, or parts thereof, including covered porches, are correctly dimensioned and platted and agree with plans accompanying the application; that the foundation plans as shown hereon is drawn, and dimensioned accurately to the same scale as the property lines shown on this plat;and that by reason of the proposed improvements to be erected as shown hereon the size of any adjoining lot or premises is not decreased to an area less than is required by the Zoning Regulations for light and ventilation; and it is further certified and agreed that accessible parking area where required by the Zoning Regulations will be reserved in accordance with the Zoning Regulations, and that this area has been correctly drawn and dimensioned hereon. It is further agreed that the elevation of the accessible parking area with respect to the Highway Department approved curb and alley grade will not result in a rate of grade along centerline of driveway at any point on private property in excess of 20% for single-family dwellings or flats, or in excess of 12% at any point for other buildings. (The policy of the Highway Department permits a maximum driveway grade of 12% across the public parking and the private restricted property.)

Date: 11-6-00

(Signature of owner or his authorized agent)

NOTE: Data shown for Assessment and Taxation Lots or Parcels are in accordance with the records of the Department of Finance and Revenue, Assessment Administration, and do not necessarily agree with deed description.



Xoan Mac
Zoning Review Branch
Zoning Division
11/22/00

INFORMATION SUBMITTED:

3.1.1 See NER-236 which states that when the expanded polystyrene insulation is tested in accordance with ASTM E84 the flame spread is less than 25 and the smoke developed rating is less than 450).

3.1.2 Southwest Research Institute. SwRI Project No. 01-6739-073a. November 21. 1994.

The CBM sandwich panel (honeycomb core) with intersecting seam joined with vinyl cleats and end spliced with H-stiffeners was tested in accordance with ASTM E84. The flame spread of the panel was 40 and the smoke developed rating was 335.

3.1.3 Omega Point Laboratories. Reports 15623-100725. 15623-100726. 15623-100727. 15623-100728. dated November 12. 1996.

The CBM sandwich panel (polystyrene core) was tested in accordance with ASTM E84. Below is a table which describes the "worst-case" configuration of the assembly and the flame spread and smoke developed rating that these assemblies achieved:

ASSEMBLY TESTED	FLAME SPREAD	SMOKE DEVELOPED
6" HC with center seam joined using 6" thermally broken aluminum extrusion and joined at ends using 6" thermally broken aluminum extrusions.	35	145
6" HC with center seam joined using vinyl cleat and joined at ends using 6" thermally broken aluminum extrusions.	35	275
6" EPS with center seam joined with 6" thermally broken aluminum extrusions and joined at the ends using 6" thermally broken aluminum extrusions.	45	385
6" EPS joined at the ends using 6" thermally broken aluminum extrusions.	5	15

3.2 STRUCTURAL CAPABILITIES

Code Section 1710.3.1 Test procedure: This section requires that assemblies or components which are not capable of being tested in accordance with a referenced standard listed in Chapter 35. shall be evaluated by a test method which superimposes design loads for 24 hours. The test assembly will be considered successful if the assembly supports the super-imposed load without failure and recovers 75% of the maximum deflection within 24 hours after the removal of the load. The allowable superimposed design load shall be taken as the lesser of the load at the deflection not to exceed those prescribed in Code Section 1604.5; the failure load divided by 2.5; or the maximum load applied divided by 2.5.

INFORMATION SUBMITTED:

Ambric Engineering Inc., Ambric Report Number 95-05-01-S2, May 1. 1995. signed by Donald Meisel. P.E.

Ambric Engineering Inc.. *Betterliving Patio Room Engineering Manual, Providing Engineering Design Loads*. prepared by Donald Meisel. P.E.

The following testing was completed on both the honeycomb and the polystyrene core CBM panels:

- Transverse Load Testing: Transverse load testing was completed on 3". 4.5" and 6" honeycomb panels. and 3". 4.5" and 6" polystyrene core panels. The test consisted of the panels being placed onto rollers that allowed rotation at one end and rotation and translation on the other end. Tables 1 through 6 were derived from these based on either the average ultimate load divided by 2.5 or the maximum deflection of l/120 (deflection recovery greater than 75% of the maximum deflection within 24 hours after the removal of the test load) whichever is less.

Additional transverse load testing was performed to demonstrate the consistency of load carrying capabilities of different specified aluminum skins. (Ambric Engineering test report dated October. 21. 1996).

Ambric Engineering test report dated July 25. 1997. demonstrated that the 6 inch thick panels would recover at least 75% of initial deflection after 24 hours.

Table 1
Allowable Uniform Loads For 3" Thick Simple-Span Honeycomb Panels

Span	Design Load
8'-0"	66.4 psf
10'-0"	51.0 psf
12'-0"	30.4 psf
14'-0"	20.9 psf

Table 2
Allowable Uniform Loads For 3" Thick Simple-Span Honeycomb Panels with 3"x3" H-stiffeners (See Figure 1)

Span	Design Load
10'-0"	66.0 psf
12'-0"	40.0 psf
14'-0"	27.0 psf

Table 3
Allowable Uniform Loads For 4.5" and 6" Thick Simple-Span Honeycomb Panels

Span	Thickness	Design Load
10'-0"	4.5"	67.0 psf
12'-0"	4.5"	53.8 psf
14'-0"	4.5"	42.4 psf
16'-0"	4.5"	31.0 psf
12'-0"	6"	76.0 psf
14'-0"	6"	56.0 psf
16'-0"	6"	43.0 psf
18'-0"	6"	35.0 psf

Table 3a
Allowable Uniform Loads For 4.5" and 6" Thick Simple-Span Honeycomb Panels with Thermally-Broken H-Stiffeners

Span	Thickness	Design Load
14'-0"	4.5"	60.0 psf
18'-0"	4.5"	30.0 psf
14'-0"	6"	75.0 psf
18'-0"	6"	46.0 psf

Table 4
Allowable Uniform Loads For 3" Thick Simple-Span Polystyrene Core Panels

Span	Design Load
8'-0"	66.4 psf
10'-0"	37.3 psf
12'-0"	29.0 psf
14'-0"	18.7 psf

Table 5
Allowable Uniform Loads For 3" Thick Simple-Span Polystyrene Panels with 2"x3" H-stiffeners (See Figure 2)

Span	Design Load
10'-0"	50.0 psf
12'-0"	38.0 psf
14'-0"	25.0 psf

Table 6
Allowable Uniform Loads For 4.5" and 6" Thick Simple-Span Polystyrene Panels

Span	Thickness	Design Load
10'-0"	4.5"	59.0 psf
12'-0"	4.5"	39.0 psf
14'-0"	4.5"	31.6 psf
16'-0"	4.5"	20.2 psf
12'-0"	6"	49.9 psf
14'-0"	6"	40.3 psf
16'-0"	6"	28.4 psf
18'-0"	6"	26.9 psf

Table 6a
Allowable Uniform Loads For 4.5" and 6" Thick Simple-Span Polystyrene Panels with Thermally-Broken H-Stiffeners

Span	Thickness	Design Load
12'-0"	4.5"	59.0 psf
16'-0"	4.5"	30.0 psf
14'-0"	6"	66.0 psf
18'-0"	6"	37.0 psf

-Racking Load Testing (ASTM E72) was completed for 3 honeycomb and polystyrene core panels.

The testing was completed on 8'-0" by 8'-0" panels that we fastened to an aluminum U-channel extrusion (see Figure 3) the bottom and an aluminum H-channel extrusion (See Figu 1) at the top using #8x1/2" screws placed 8" on center. The U channel was attached to the base of the racking frame while th H-channel was attached to a 4" by 4" wooden member at the to of the racking frame. Failure of the panels occurre progressively as the aluminum facing material began to yield the fastener connections and in the bowing in the aluminu extrusions.

Table 7
Allowable Lateral Load

Span	Core	Average Deflection; in	Design Load; lb	Failure Mode
8'-0"	HC	0.866	987	Connectic
8'-0"	EPS	1.307	1,387	Connectic

Table 8
24 hour load test

Span	Core	Thickness; in.	Avg. Deflection at 24 hours; in.	Avg. Load at 24 hours psf	Average Recovery Percentag
12'-0"	HC	3"	2.42"	62.40	93.91%
12'-0"	EPS	3"	2.45"	59.80	94.76%

- Axial Compression Load Test (ASTM E72) was completed 3" honeycomb and polystyrene core panels. The testing w completed on 8'-0" by 8'-0" panels that were assembled so that the bottom edges of the panel were held at least 1/2"- above the base of the sill. Four compressometers were attach to the face of the assembly, one near each corner of the panel measure the compression or shortening of the panel. T deflectometers, one at each edge of the panel, were attached measure the lateral deflection of the assembly. Loads w applied in increments to generate the load-compression and l deflection curves until failure was noted.

Table 9
Allowable Axial Compression Loads For 3" Thick Panels

Description of Panel	Maximum Axial Load	Axial Load/foot	Desig Load
8'-0", 3" Thick Honeycomb Panel	9,933 lbs	1,242 plf	497 p
8'-0", 3" Thick Expanded Polystyrene Panel	9,933 lbs	1,242 plf	497 p

3.3 THERMAL BARRIER PERFORMANCE

Code Section 2603.8 Alternative approval: Foam plas not required to comply with the requirements listed in Se 2603.4 (thermal barrier requirements) through 2603.7 foam plastic material has been tested in accordance wit 1715, FM 4880, or UL Subject 1040.

NFORMATION SUBMITTED:

outhwest Research Institute, SwRI Project No. 01-6740-202 ated February 1995.

The CBM panel consisted of 3" polystyrene core and a U and II channel. The panels were able to resist the fire exposure and passed the criteria set forth in UL 1715.

3.4 LABELING

Code Section 1705.2 Inspection of fabricators: Fabricators of structural assemblies are required to maintain a third-party quality control agency to conduct in-plant inspections.

INFORMATION SUBMITTED:

3.4.1 See BOCA Evaluation Services, Inc., Research Report #94-65.

3.4.2 Craft-Bilt Manufacturing Co., Quality Control Manual dated May 22, 1995.

The quality control manual includes a description of the inspections done for production, product performance, random selection process, labeling certificate, and appropriate forms for the quality control program. The manual also includes a description of the manufacturing facilities, process and inspection flow chart.

INSTRUCTIONS TO THE CODE OFFICIAL

The CBM sandwich panels have been evaluated for compliance with the 1996 editions of the *BOCA National Codes*. This report is limited to the applications and products as stated herein. This evaluation is based solely on information provided to BOCA Evaluation Services, Inc., by Craft-Bilt Manufacturing and has not been independently verified. BOCA Evaluation Services, Inc., intends that this report be used by the code official to determine that the CBM sandwich panels comply with the code requirements specifically addressed in Section 3.0 of this report, provided that this product is installed in accordance with the following limitations:

Limitations

4.1 This report is subject to annual certification. Reports that are not certified shall not be used or referred to. In order to determine the status of certification of this report, contact BOCA Evaluation Services, Inc., or consult the latest edition of the *National Product Evaluation Listing* published periodically in the BOCA magazine.

4.2 The roof pitch of the panel shall be limited to a 4:12 pitch.

4.3 The CBM roof and wall sandwich panels are limited to use in buildings of Type 5B construction and Use Group R-3.

4.4 The evaluation of penetrations into the CBM sandwich panels is beyond the scope of this report.

4.5 The CBM panels have not been evaluated as a component of a fireresistance rated assembly, therefore the panels are limited to applications where the fire separation distance is greater than 5 feet.

4.6 The CBM panels were not evaluated as a component of a classified roof assembly.

4.7 The CBM panels are limited to use where the design loads do not exceed those given in Tables 1 through 9 included in Section 3.2 of this report. Interpolation between spans shall not be permitted.

4.8 The CBM panels incorporating polystyrene as the core material shall be limited to a maximum thickness of 6".

5.0 INFORMATION REQUIRED ON CONSTRUCTION DOCUMENTS

To aid in the use of this report, the following represents the minimum level of information to be reflected on the construction documents in order to determine compliance with this research report. Additional sections of the applicable codes and standards may apply based on the resulting design and configuration.

5.1 The language "See BOCA Evaluation Services, Inc., Research Report No. 94-68."

5.2 Span thickness and core type of the CBM panel.

5.3 Minimum design loads.

6.0 IDENTIFICATION

All CBM sandwich panels manufactured in accordance with this report shall be identified by a certificate bearing the manufacturer's name and model number, the label of the Quality Control Agency, Ambric Engineering, and the identifying language "See BOCA Evaluation Services, Inc., Research Report No. 94-68." In addition, numbers stamped on the side of the panel cores provide direct traceability to manufacturing production records.

Reference to this report is limited to the identification as described herein.

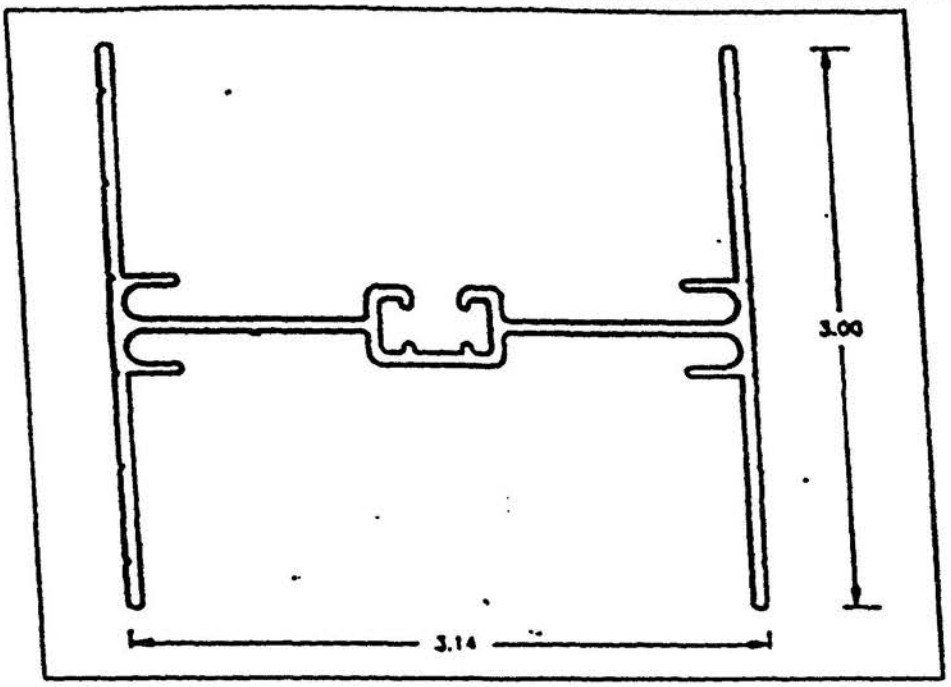


Figure 1*
3 x 3 H Stiffeners

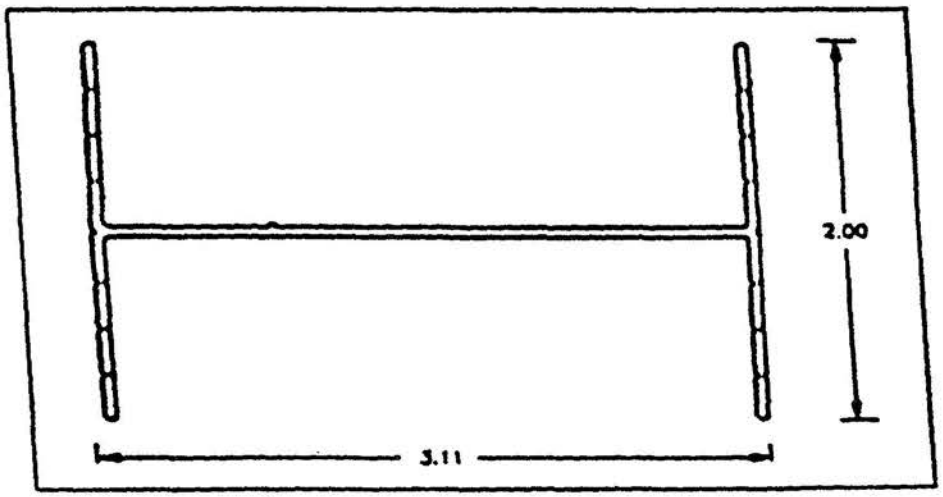


Figure 2*
2 x 3 H Stiffeners

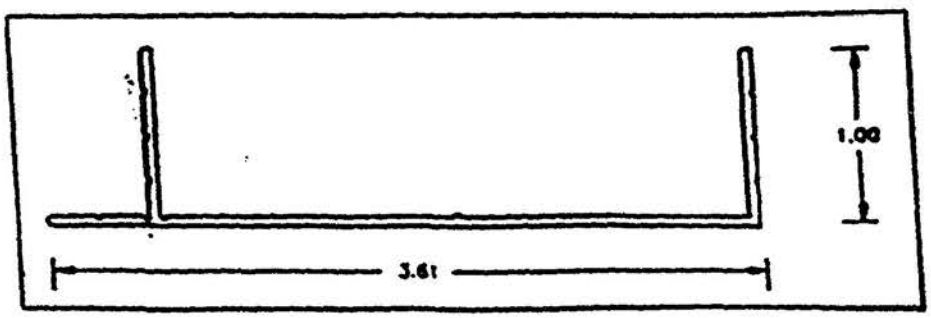
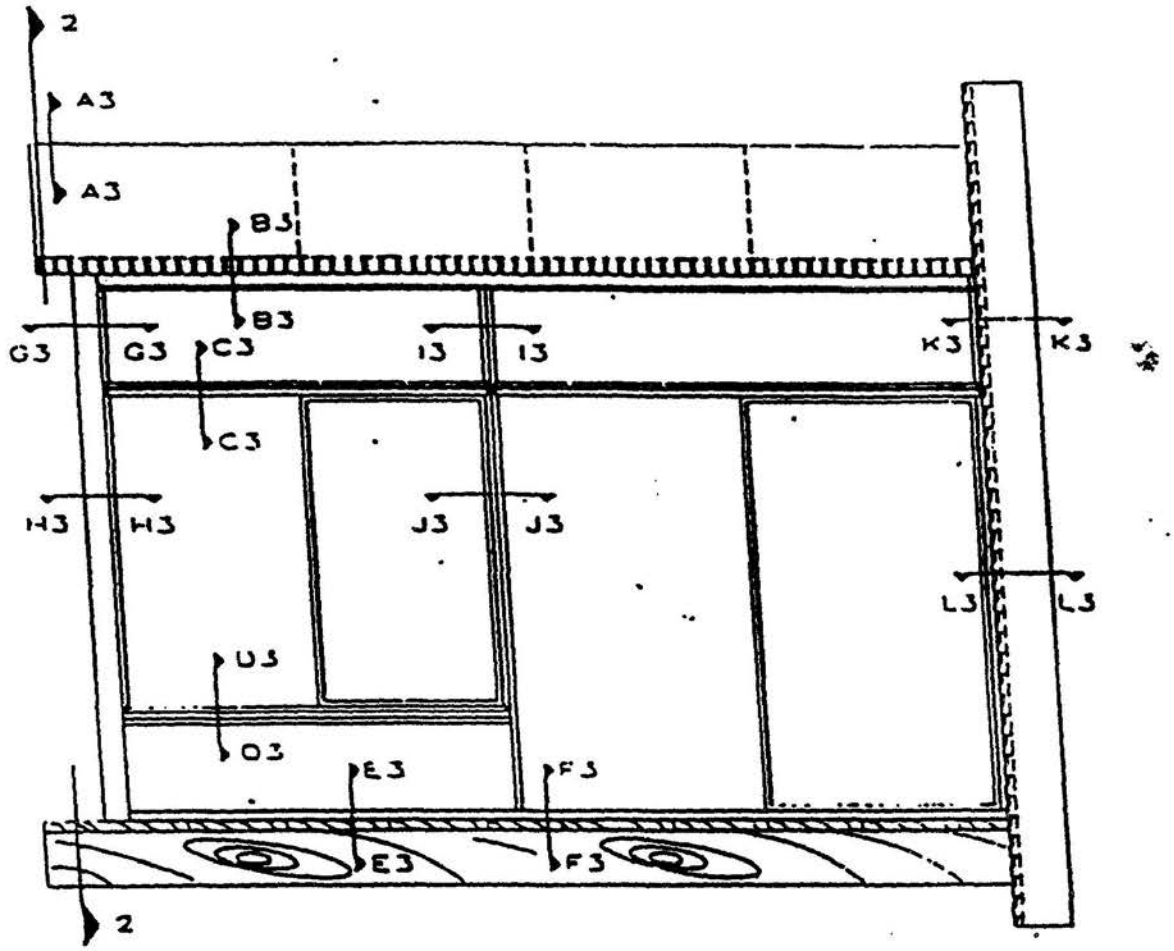
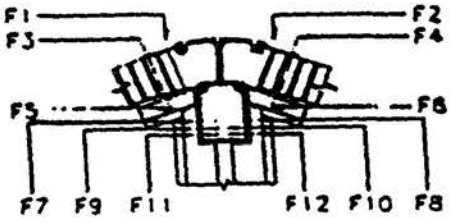


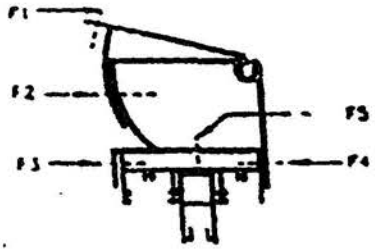
Figure 3*
U - Channel



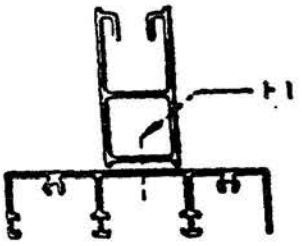
A FRAME ROOM SIDE WALL SECTION (3-3)



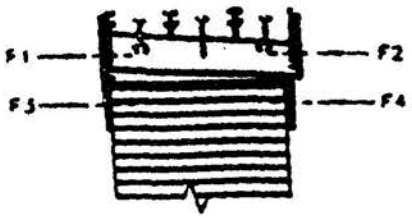
SECTION A-3



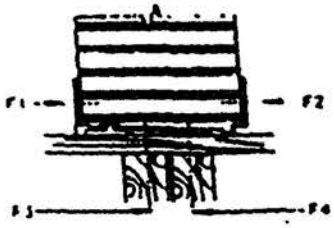
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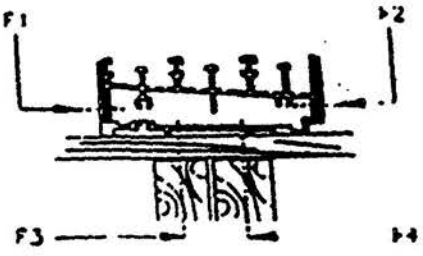
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SECTION D-3

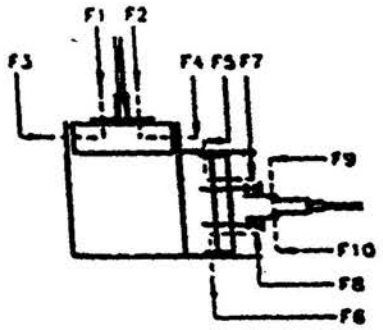


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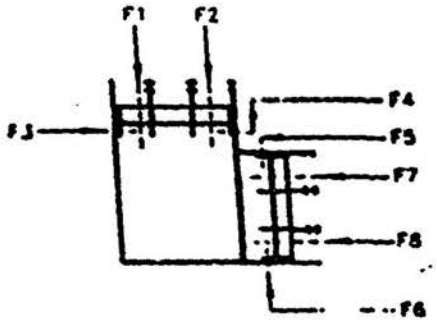


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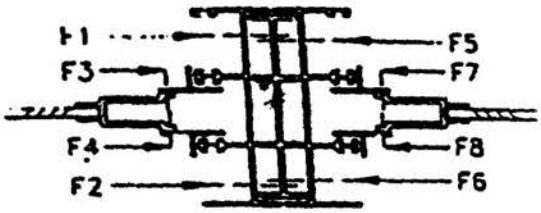
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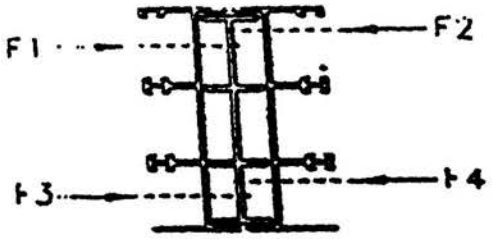
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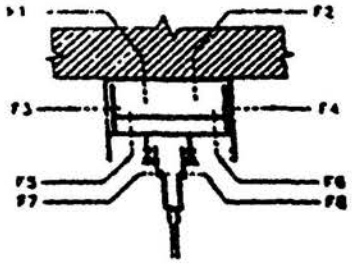
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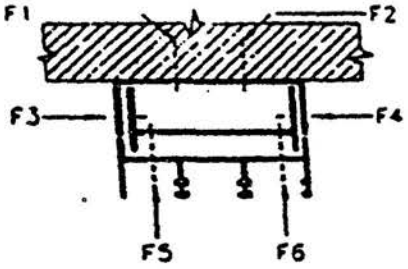
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SECTION J-3



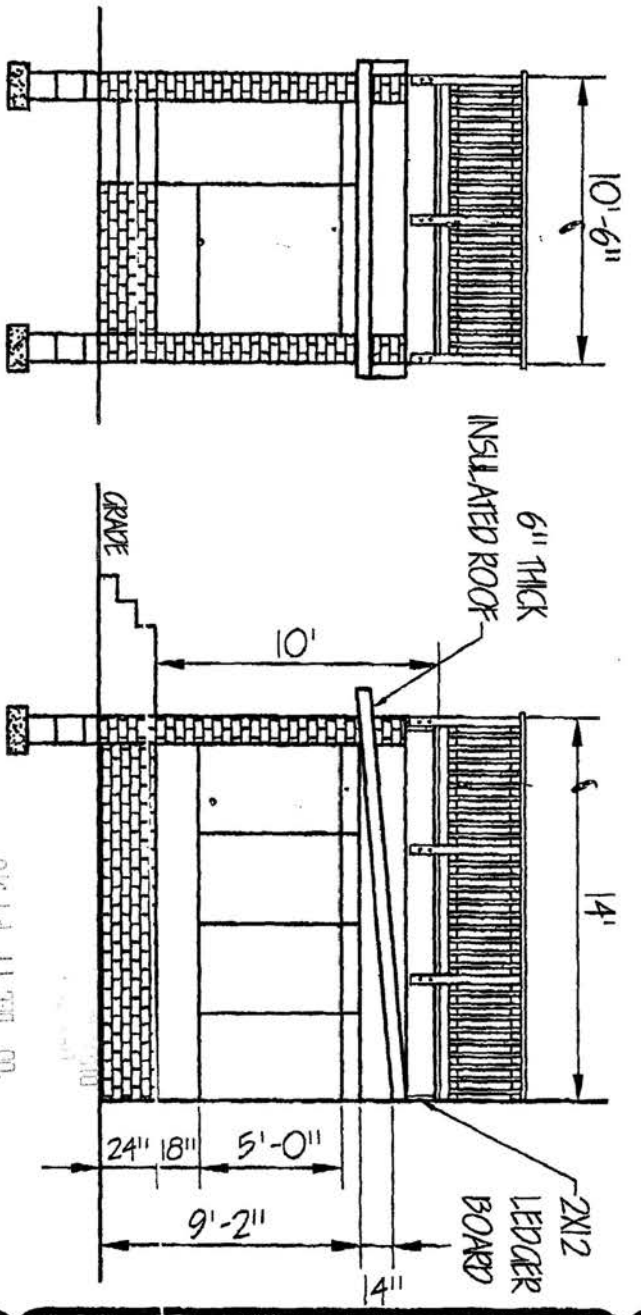
SECTION K-3



SECTION L-3

Figure 5*

*THESE DRAWINGS ARE FOR ILLUSTRATION PURPOSES ONLY. THEY ARE NOT INTENDED FOR USE AS CONSTRUCTI DOCUMENTS FOR THE PURPOSE OF DESIGN, FABRICATION OR ERECTION.



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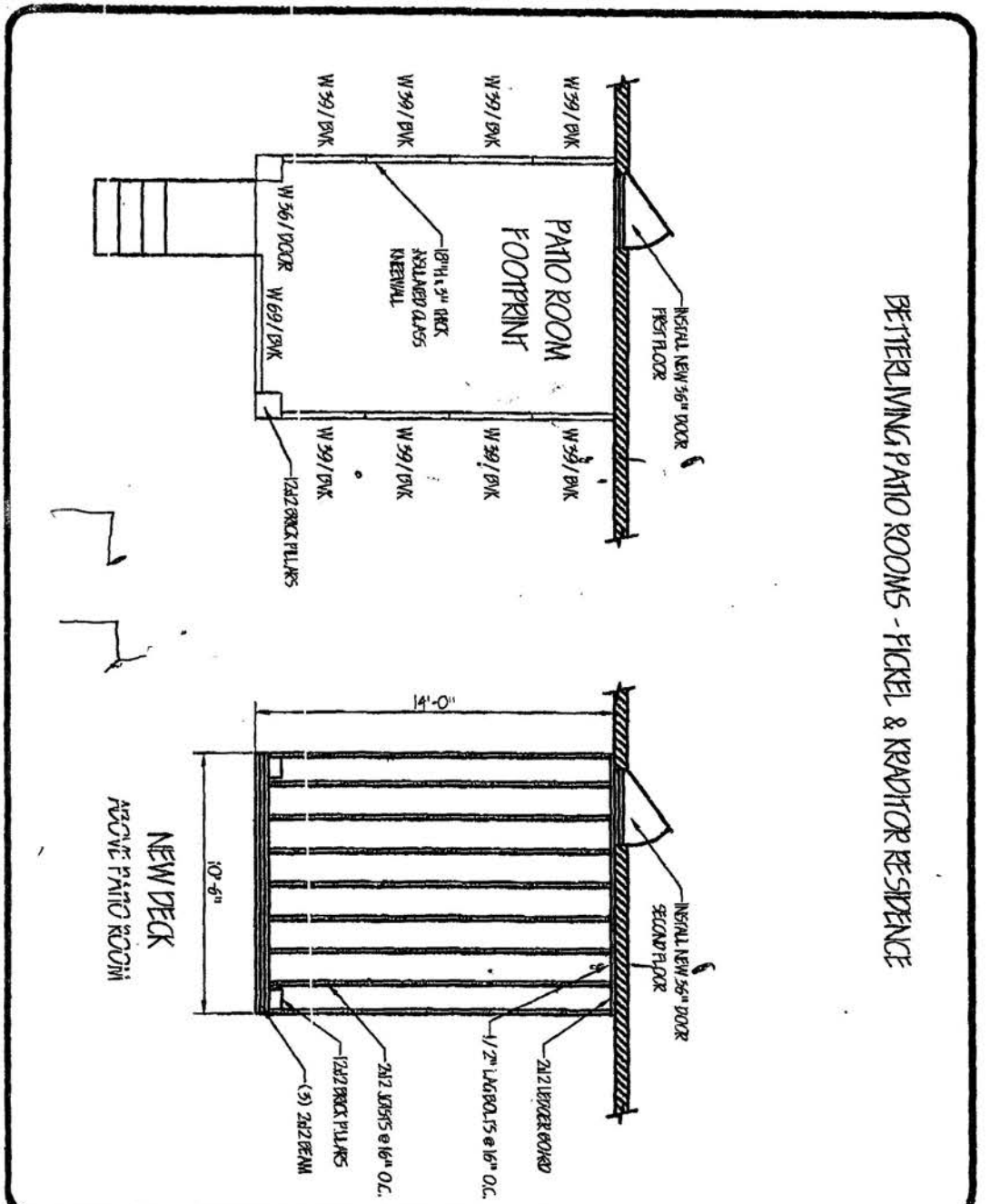
KRADITOR RESIDENCE
321 401 STREET S.E.
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PHONE: H (202) 546-1109
PHONE: W (202) 690-65 16

LONG® FENCE

PROJECT: BETTER-LIVING PATIO ROOMS
DATE: 9/22/2000
SALESMAN: JOE MIELCAREK

DRAWN BY: DANIELLE A. LENNARD
SCALE: 3/16"=1'
SHEET No. 2 OF 2

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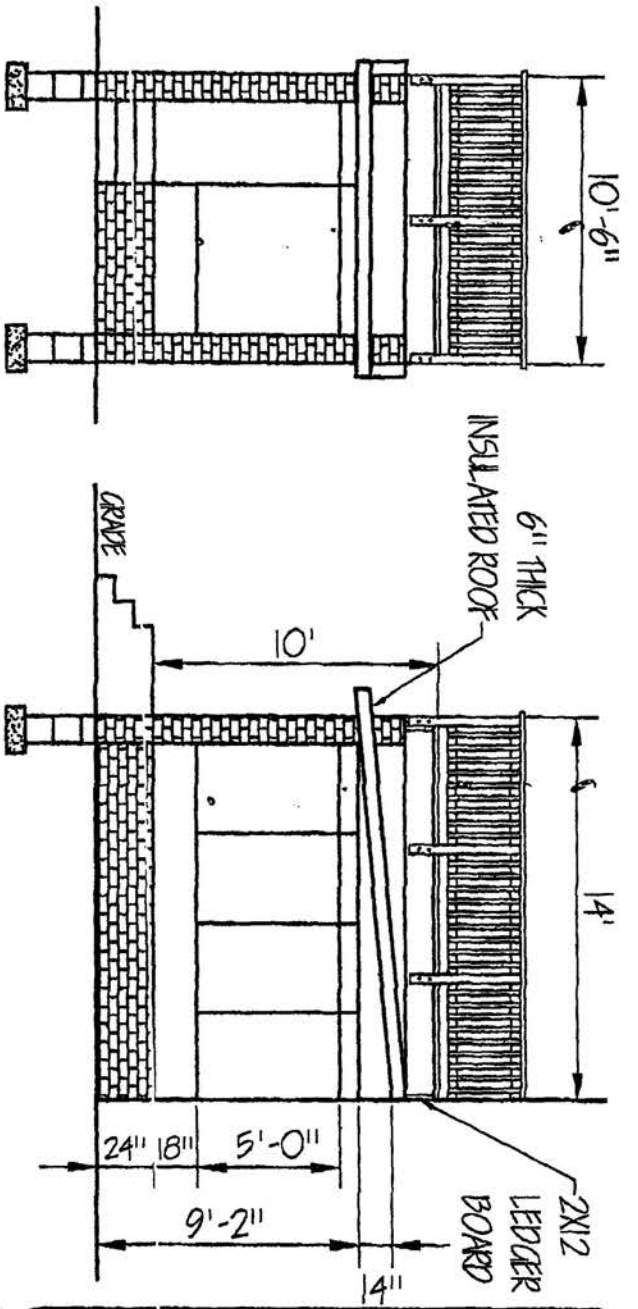


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SHEET No. 1 OF 2



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PHONE: W (202) 6[illegible]

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DATE: 9/22/2000
SALESMAN: JOE MIDDLECOFF

DRAWN BY: DANIELLE A. LEONARD
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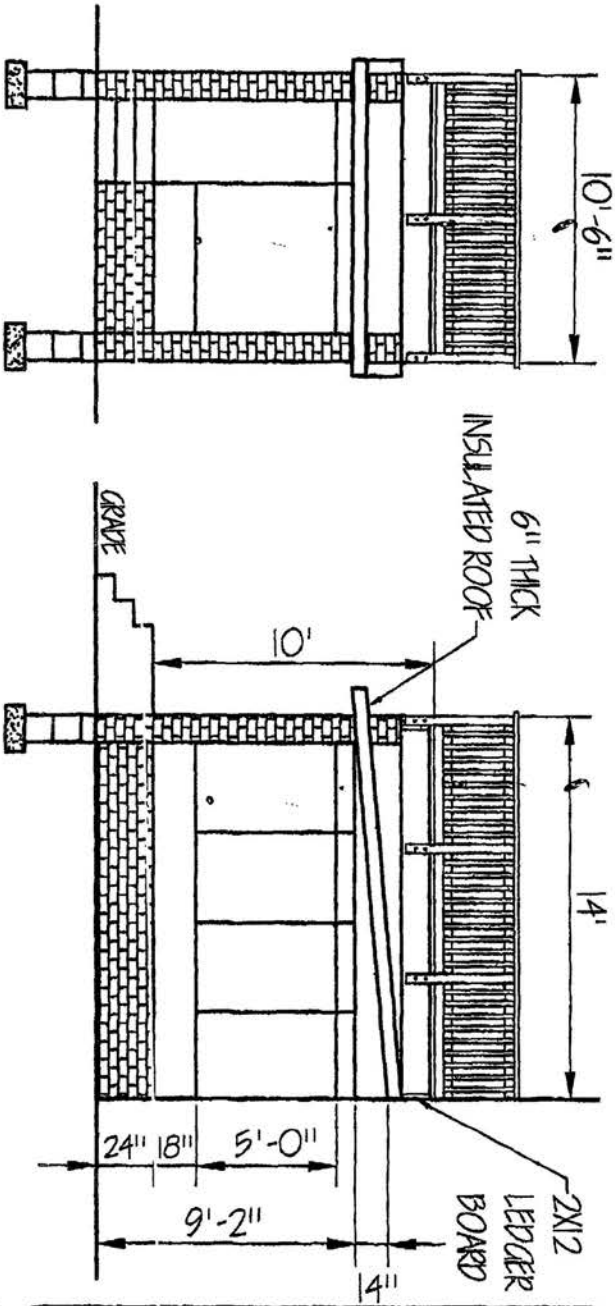
NEW DECK
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PROJECT: [illegible]
DATE: 9/22/2000
DRAWING #: [illegible]

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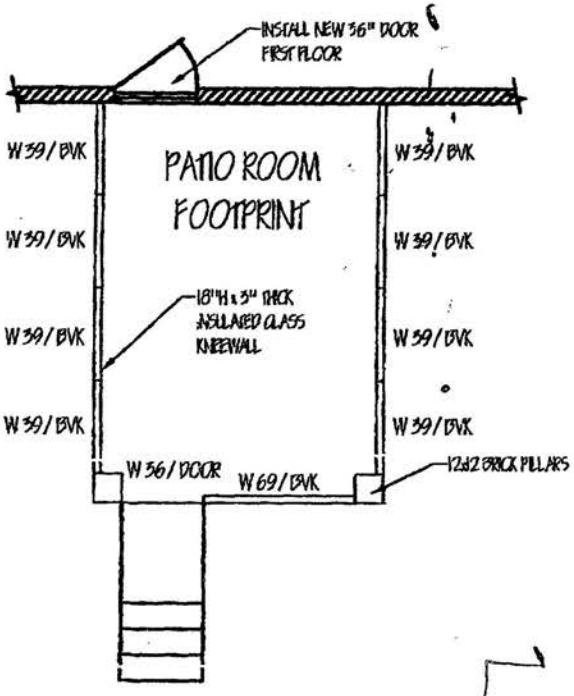
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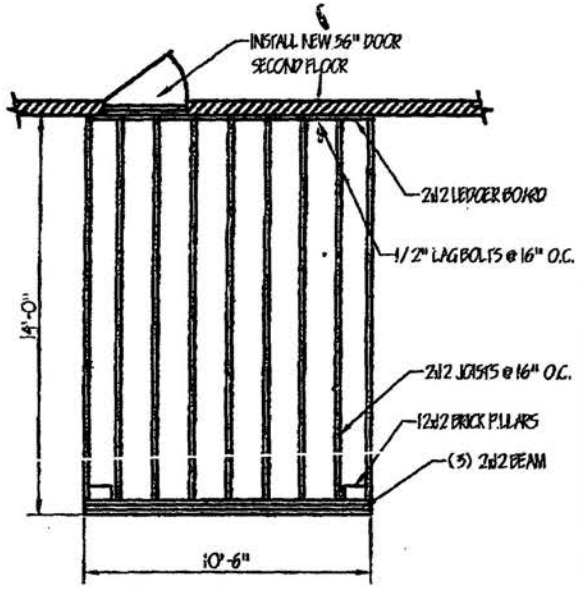
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SHEET No. 2 OF 2

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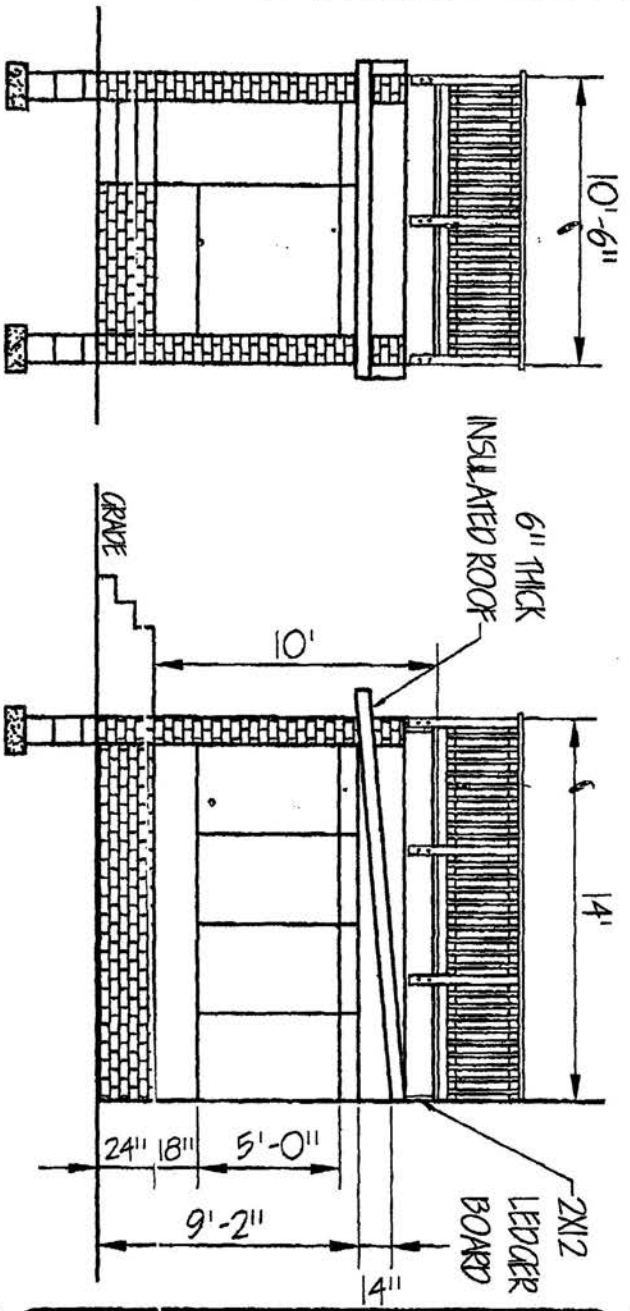


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DWG. 9/28/2000
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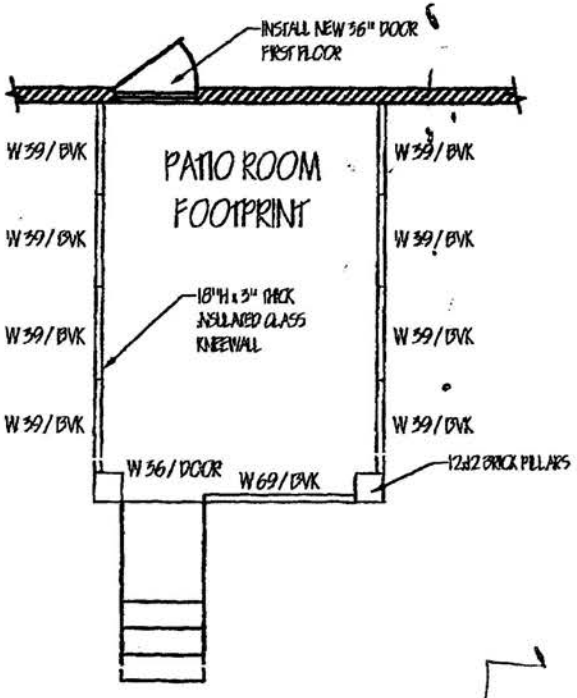
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321 4TH STREET S.E.
WASHINGTON, DC 20003
PHONE: H (202) 546-1125
PHONE: W (202) 660-05 16

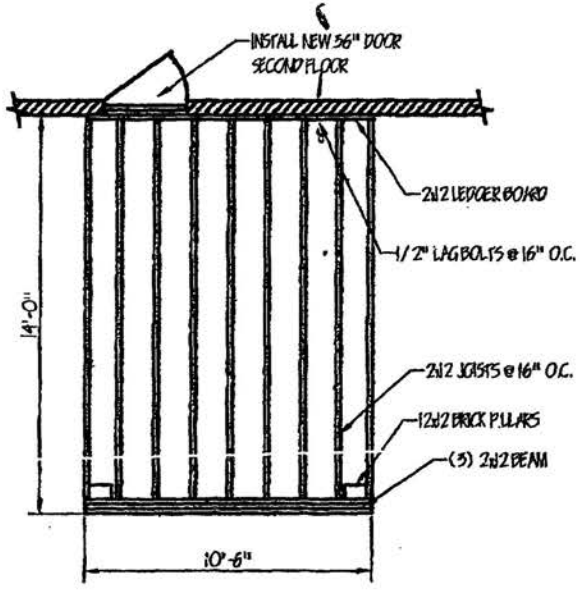
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PROJECT: BETTER-LIVING PATIO ROOMS
DATE: 9/22/2000
SALESMAN: JOE MIDDLEBROOK

DRAWN BY: DANIELLE A. LEONARD
SCALE: 3/16"=1'
SHEET No. 2 OF 2

BETTERLIVING PATIO ROOMS - FICKEL & KRADITOR RESIDENCE



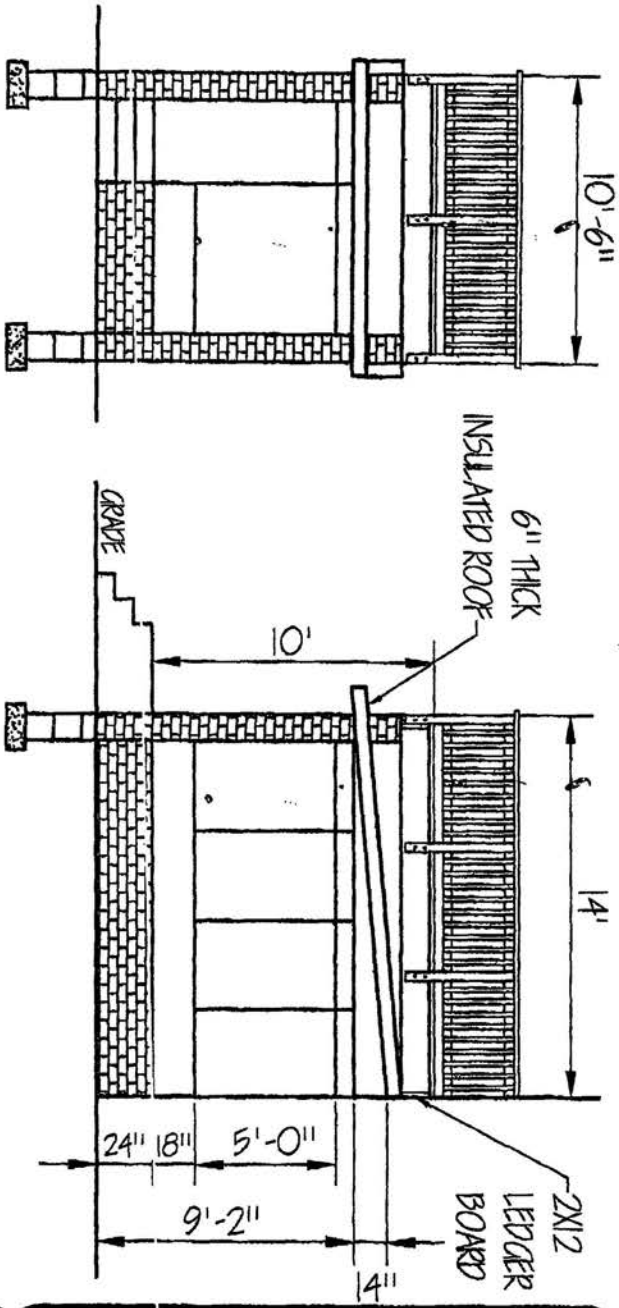


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PHONE: 9/22/2000
SALESMAN: JOE WEISBERGER

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WASHINGTON, MO 63090
PHONE: H (202) 946-1199
PHONE: W (202) 660-69 16

LONG® FENCE

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DATE: 9/22/2000
SALESMAN: JOE MCCLOSKEY

DRAWN BY: DANIELLE A. LENHARD
SCALE: 3/16"=1'
SHEET No. 2 OF 2

BETTERLIVING PATIO ROOMS - FICKEL & KRADITOR RESIDENCE

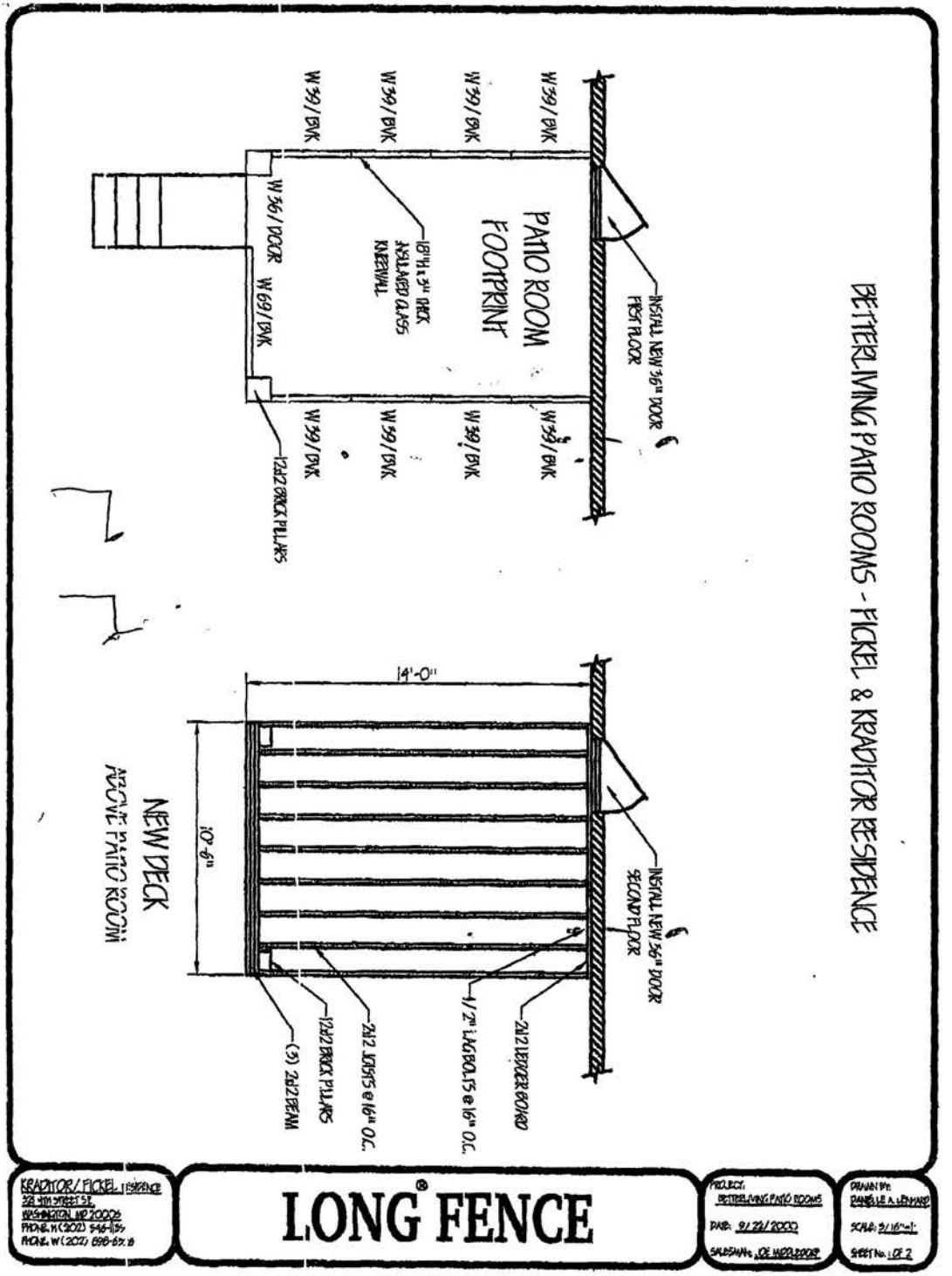
NEW DECK
ABOVE PATIO ROOM

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PROJECT: BETTERLIVING PATIO ROOMS
DWG. 9/28/2000
SALESMAN: JOE WEBSTER

DRAWN BY: DANIEL A. LEONARD
SCALE: 3/16"=1'
SHEET NO.: 1 OF 1

KRADITOR/FICKEL RESIDENCE
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PHONE: W (000) 000-0000


BETTERLIVING PATIO ROOMS - FICKEL & KRADITOR RESIDENCE
PATIO ROOM FOOTPRINT
W 59 / DVK
W 36 / DOOR
W 69 / DVK
18"H x 3" BRICK ASSUMED GLASS KNEEWALL
12x12 BRICK PILLARS
INSTALL NEW 36" DOOR FIRST FLOOR
NEW DECK ABOVE PATIO ROOM
14'-0"
10'-6"
INSTALL NEW 36" DOOR SECOND FLOOR
2x12 LEDGER BOARD
1/2" LAGBOLTS @ 16" O.C.
2x12 JOISTS @ 16" O.C.
12x12 BRICK PILLARS
(3) 2x12 BEAM
KRADITOR / FICKEL RESIDENCE
328 4TH STREET S.E.
WASHINGTON, MD 20003
PHONE: W (202) 546-1159
PHONE: W (202) 698-6578
LONG FENCE
PROJECT: BETTERLIVING PATIO ROOMS
DATE: 9/22/2000
SALESMAN: JOE WOODDOOR
DRAWN BY: DANIEL E. A. LEONARD
SCALE: 3/16"=1'
SHEET No.: 1 OF 2