

PERMIT
 CITY OF NAPOLEON, OHIO - BUILDING DEPARTMENT
 255 West Riverview Avenue, Napoleon, Ohio 43545 - (419) 592-4010

Permit No. <u>3803</u> Issued <u>02/26/96</u>	FEES	BASE	PLUS	TOTAL
Job Location <u>1 Pontious Place</u>	<input checked="" type="checkbox"/> Building	\$ <u>9.00</u>	\$ <u>48.00</u>	\$ <u>57.00</u>
Lot _____	<input type="checkbox"/> Electrical	\$ _____	\$ _____	\$ _____
Issued by <u>Brent N. Damman</u>	<input type="checkbox"/> Plumbing	\$ _____	\$ _____	\$ _____
Owner <u>Jack Myers</u> <u>599-5804</u>	<input type="checkbox"/> Mechanical	\$ _____	\$ _____	\$ _____
Address <u>1 Pontious Place</u>	<input type="checkbox"/> Demolition	\$ _____	\$ _____	\$ _____
Agent <u>Sash & Storm, Inc.</u> <u>225-3308</u>	<input type="checkbox"/> Zoning	\$ _____	\$ _____	\$ _____
Address <u>2121 Elida Road</u> <u>Lima, OH 45805</u>	<input type="checkbox"/> Sign	\$ _____	\$ _____	\$ _____
Use Type - Residential <u>X</u>	<input type="checkbox"/> Water Tap	\$ _____	\$ _____	\$ _____
Other - Describe _____	<input type="checkbox"/> Sew. Insp.	\$ _____	\$ _____	\$ _____
No. Dwelling Units _____	<input type="checkbox"/> Sewer Tap	\$ _____	\$ _____	\$ _____
New _____ Replacement _____	<input type="checkbox"/> Temp. Water	\$ _____	\$ _____	\$ _____
Add'n. <u>X</u> Alter _____ Remodel _____	<input type="checkbox"/> Temp. Elec.	\$ _____	\$ _____	\$ _____
Mixed Occupancy _____	TOTAL FEES.....\$ <u>57.00</u>			
Change of Occupancy _____	LESS FEES PAID.....\$ <u>57.00</u>			
Estimated Cost \$ <u>9682.00</u>	BALANCE DUE.....\$ <u>-0-</u>			

ZONING INFORMATION

district	lot dimensions	area	front yd	side yd	rear yd
max hgt	no pkg spaces	no ldg spaces	max cover	petition or appeal req'd	date appr

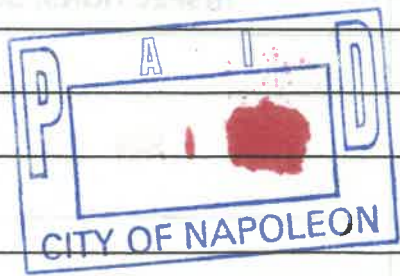
WORK INFORMATION

Size: Length 17 Width 12 Stories 1 Ground Floor Area 204
 Height _____ Building Volume (for Demo. Permit) _____

Electrical: _____
 Plumbing: _____
 Mechanical: _____

Additional Information: Patio Enclosure

Date _____ Applicant Signature _____



APPLICATION FOR

Residential, Building, Electrical, Plumbing, Mechanical, and Demolition Permit
 FROM - The City of Napoleon, Ohio, Building Department
 255 West Riverview Avenue; P.O. Box 151; Napoleon, Ohio 43545 - Telephone (419) 592-4010

ENTRY NO. _____
 PERMIT NO. 3805 ISSUED 2-26-96
 JOB LOCATION 1 Pontious Place
 LOT _____
 (Subdivision or Legal Description)
 ISSUED BY BAD
 (Building Official)

OWNER Jack Myers PHONE 599-5804
 ADDRESS 1 Pontious Place
 AGENT Sash + Storm, Inc. PHONE 225-3308
 ADDRESS 2121 Elida Rd. Lima, OH 45805

USE: Residential Commercial Industrial
 Other _____
 WORK: New Addition Replacement Remodel

ESTIMATED COST = \$ 9682-

	<u>Base</u>	<u>Plus</u>	<u>Total</u>
<input type="checkbox"/> Building	\$ <u>9-</u>	\$ <u>48.00</u>	\$ <u>57.00</u>
<input type="checkbox"/> Electrical	\$ _____	\$ _____	\$ _____
<input type="checkbox"/> Plumbing	\$ _____	\$ _____	\$ _____
<input type="checkbox"/> Mechanical	\$ _____	\$ _____	\$ _____
<input type="checkbox"/> Demolition	\$ _____	\$ _____	\$ _____
<input type="checkbox"/> Zoning	\$ _____	\$ _____	\$ _____
<input type="checkbox"/> Sign	\$ _____	\$ _____	\$ _____
<input type="checkbox"/> Water Tap	\$ _____	\$ _____	\$ _____
<input type="checkbox"/> Sewer Tap	\$ _____	\$ _____	\$ _____
<input type="checkbox"/> Temp Water	\$ _____	\$ _____	\$ _____
<input type="checkbox"/> Temp Elec.	\$ _____	\$ _____	\$ _____

Additional Structure _____ Hours _____
 Plan Review: Electric _____ Hours _____

TOTAL FEES \$ 57.00
 Less Fees Paid \$ _____
 BALANCE DUE \$ 57.00

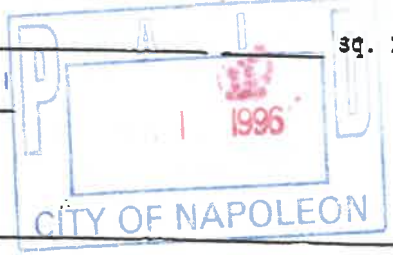
ZONING INFORMATION

District	Lot Dimensions	Area	Front Yard	Side Yard	Rear Yard

Max Height	No. Pkg. Spaces	No. Ldg. Spaces	Max Cover	Petition or Appeal Required-Date

WORK INFORMATION

Building: Ground Floor Area 204 sq. ft. Basement Floor Area _____ sq. ft.
 Garage Floor Area _____ sq. ft. 2nd Floor Area _____ sq. ft. Other _____ sq. ft.
 Size: Length 17 Width 12 Stories 1 Height 7.5'
 Building Volume (for Demolition Permit) _____ cubic feet
 Description of Work: patio enclosure



ELECTRICAL: Contractor _____ Phone _____
Address _____ ESTIMATED COST = \$ _____

Type of Work: () New () Service Change () Rewiring () Add'l Wiring TEMPORARY ELEC. REQUIRED - () Yes () No
Size of Service _____ Underground _____ Overhead _____ Number of New Circuits _____

Description of Work: _____

PLUMBING: Contractor _____ Phone _____
Address _____ ESTIMATED COST = \$ _____

WATER TAP REQUIRED - () Yes () No Size _____ Type of Pipe _____ Water Dist. Pipe _____
SANITARY SEWER TAP REQUIRED - () Yes () No Size _____ Type of Pipe _____ Dr. Waste Vt. Pipe _____
STREET SEWER TAP REQUIRED - () Yes () No Type of Pipe _____ STREET TO BE OPENED - () Yes () No
Main Building Drain Size = _____ Main Vent Pipe Size = _____

LIST NUMBER OF PLUMBING FIXTURES BELOW:
Water Closets = _____ Bathtubs = _____ Showers = _____ Lavatories = _____ Kitchen Sinks = _____ Disposal = _____
Clothes Washer = _____ Floor Drains = _____ Dishwasher = _____ Other _____ Total = _____

Description of Work: _____

MECHANICAL: Contractor _____ Phone _____
Address _____ ESTIMATED COST = \$ _____

HEATING SYSTEM - () Forced Air () Gravity () Hot Water () Steam () Unit Heaters () Radiant () Baseboard
TYPE OF FUEL - () Electric () Natural Gas () Propane () Wood () Coal () Solar () Geothermal Other _____
NUMBER OF HEAT ZONES = _____ HOT WATER - () One (1) Pipe () Two (2) Pipes () Series Loop
ELECTRIC HEAT - Number of Circuits _____ Number of Furnaces _____ Number of Hot Air Runs _____
Number of Hot Water Radiators _____ Total Heat Loss _____ Rated Capacity of Furnace/Boiler _____
LOCATION OF HEATING UNITS - () Crawl Space () Floor Level () Attic () Suspended () Roof () Outside

Description of Work: _____

DRAWINGS REQUIRED: All applications must be accompanied by two (2) complete sets of Drawings including Site Plans, Foundation Plans, Floor Plans, Structural Framing Plans, Exterior Elevations, Section and Details, Stair Details, Electrical Layout, Plumbing Isometric, Heating Layout, etc. All Plans shall be drawn to scale, show all existing structure on the Site Plans, and show electric panel and furnace locations.

READ AND SIGN BELOW: The undersigned hereby makes application for a Permit for all work described herein and agrees to complete the work in strict accordance with all applicable provisions of the current edition of the C.A.B.O. Building Code, the Napoleon Building and Zoning Codes, the Napoleon Engineering Department Rules and Regulations, Standard Specifications and other pertinent sections of the Napoleon Code of Ordinances.

Signature of Applicant Marie A. Bluge Date 2-22-96

74'

37'

24'

DRIVEWAY

17'x12' ENCLOSURE

10'

23'

5'

13'

117 yd RS

#1 PORTIONS PI

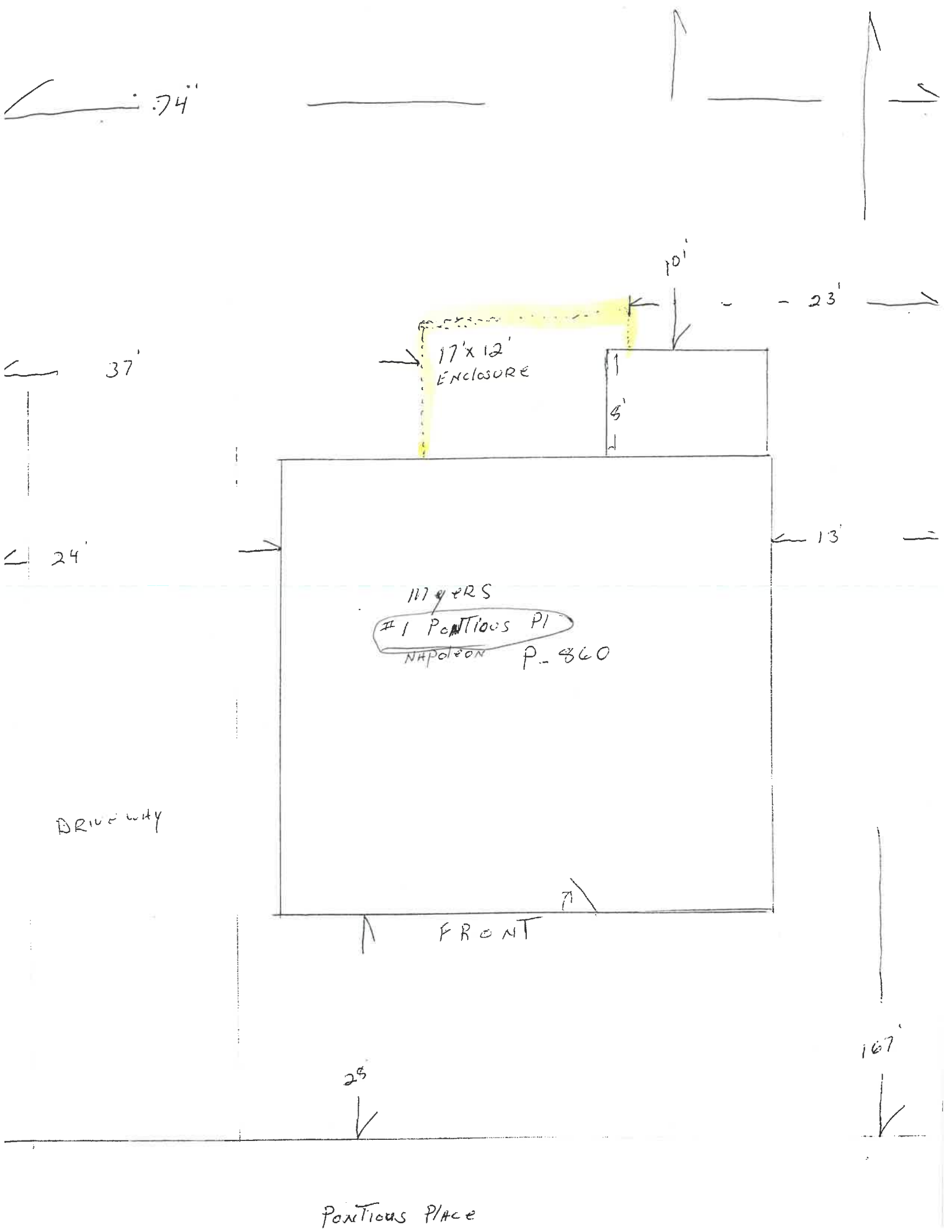
NAPOLEON P-360

FRONT

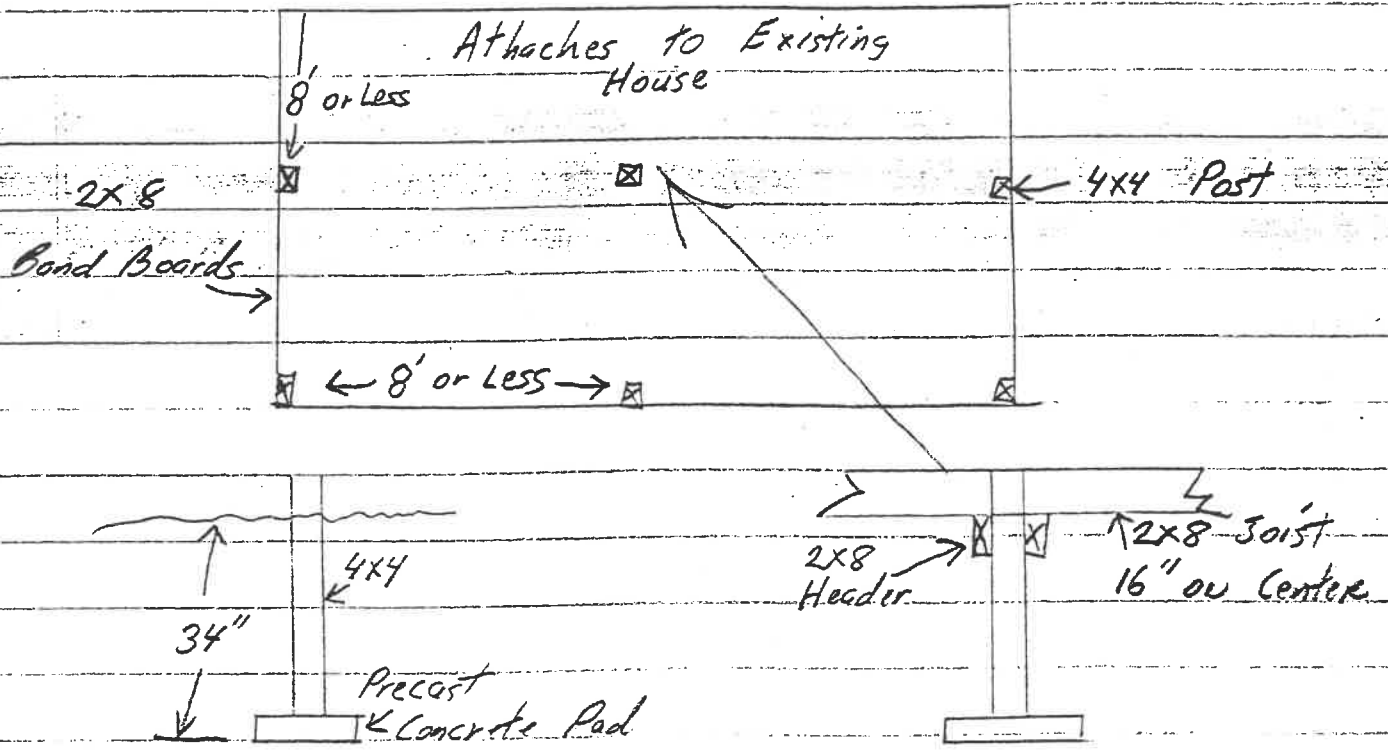
25'

167'

PORTIONS PLACE



Not to Scale



4x4 Post 34" Below Grade Sitting on
Precast Concrete Pads

2x8 Joist 16" on Center

2x8 Headers and Bond Boards

3/4" T&G Structure Wood Sub Floor

ALL Lumber Treated with a .40 Saturation Level
EXCEPT THE SUB FLOOR

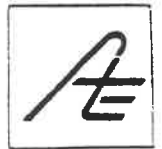
AMBRIC ENGINEERING, INC.

3502 SCOTTS LANE, PHILADELPHIA, PA 19129 ■ PHONE 215 438-2689
FAX 215 438-7110

- Consulting Engineers
- Surveyors
- Inspectors

CERTIFICATION BY PROFESSIONAL ENGINEER

Betterliving Patio Rooms
PanelCraft Honeycomb Building Panels



To Whom It May Concern:

The engineering tests and design data included in this brochure have been reviewed and approved by a professional engineer registered in the State of OHIO

The structural tests and design data described herein were performed in our laboratories under the direct supervision of professional engineers. Affixed is the official engineering stamp and authorized signature:

4-27-94

Please contact us if you have any questions about the engineering data contained in this brochure.

AMBRIC ENGINEERING, INC.

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April 27, 1994



Ambric Engineering performed a series of structural tests and evaluations on two types of composite panels manufactured by a Philadelphia based company called Craft-Bilt. The first type of panel had a polystyrene core with aluminum sheeting adhered to each of the core faces. The second type of panel had a honey-comb core with aluminum sheeting again, on each of the faces. All tests were performed in strict accordance with the relevant A.S.T.M. procedures and were conducted under the direct supervision of a Professional Engineer. The results of these tests are enclosed and comprise:

- Conformance Specifications for Honeycomb Roof Panels
- Conformance Specifications for Polystyrene Roof Panels
- Conformance Specifications for Honeycomb Wall Panels
- Attachment Details

Our client proposes to market the panel systems in various states throughout the USA. Conformance specifications and attachment details will require Professional Engineering Seals for each state involved. Please study and review the enclosed documents so that Engineering approval will be granted in each state where the product will be sold.

Yours sincerely,

Donald D. Meisel
President

CONFORMANCE SPECIFICATIONS

(HONEYCOMB WALL ASSEMBLIES)

TRANSVERSE LOAD (WALL LOADING DATA) : TEST TO A.S.T.M. E72-80 ON 3" THICK PANELS; UNIFORM LOADING USING AIR-BAG.

WALL SPAN (FT.)	6	6
TYPE OF WALL ASSEMBLY	SOLID (NO OPENINGS) (PSF)	FRAMED (DOORS/WINDOWS) (PSF)
MAXIMUM WALL LOAD	100	100
WALL LOAD AT DEFLECTION = (SPAN/180)	100+	86
WALL LOAD USED IN 24 HR LOAD/DEFN. TEST	80	80
ALLOWABLE WALL LOAD *	40	40

* FOUNDED ON THE LESSER OF a) THE MAXIMUM WALL LOAD WITH A SAFETY FACTOR OF 2.5 OR b) THE WALL LOAD AT DEFLECTION = (SPAN/180) OR c) THE WALL LOAD USED IN THE 24 HOUR LOAD / DEFLECTION RECOVERY TEST.

24 HOUR LOAD / DEFLECTION RECOVERY (WALL LOADING DATA) : TEST TO B.O.C.A. NATIONAL BUILDING CODE (1988 SUPPLEMENT), SECTION 1305.0 ON 3" THICK ASSEMBLIES; UNIFORM LOADING USING AIR BAG.

WALL SPAN (FT.)	6	6
	IMMED. RECOV.	RECOV. AFTER 24HR
SOLID WALL ASSEMBLY (12'7"x7'1"x3")	84.82%	92.55%
FRAMED WALL ASSEMBLY (12'5"x6'6"x3")	87.24%	92.76%

AXIAL COMPRESSIVE LOAD (WALL LOADING DATA) : TEST TO A.S.T.M. E72-80 ON 3" THICK PANELS.

TYPE OF WALL ASSEMBLY	SOLID (NO OPENINGS) (LBS) (LBS/FT)		FRAMED (DOORS/WINDOWS) (LBS) (LBS/FT)	
ULTIMATE AXIAL COMPRESSIVE LOAD	29400	2336	45445	3660
ALLOWABLE AXIAL WALL LOAD ***	11760	935	18178	1464

** FOUNDED ON THE ULTIMATE AXIAL COMPRESSIVE LOAD WITH A FACTOR OF SAFETY OF 2.5

RACKING LOAD (WALL RACKING LOAD DATA) : TEST TO A.S.T.M. E72-80 ON 3" PANELS

TYPE OF WALL ASSEMBLY	SOLID (NO OPENINGS) (LBS) (LBS/FT)		FRAMED (DOORS/WINDOWS) (LBS) (LBS/FT)	
ULTIMATE RACKING LOAD * *	2130	170	2360	190
ALLOWABLE AXIAL WALL **	852	68	944	76

* * NO CLEAR POINT OF FAILURE, RATHER, PROGRESSIVE DETERIORATION AT PANEL CORNERS AND EDGES DUE TO INDIVIDUAL ROTATION OF PANELS WITH RESPECT TO THEIR CENTERS.

** FOUNDED ON THE ULTIMATE RACKING LOAD WITH A FACTOR OF SAFETY OF 2.5

APR 27 1994

CONFORMANCE SPECIFICATIONS

(HONEYCOMB ROOF PANELS)

GENERAL : CONSTRUCTION DETAILS AND CONFORMANCE SPECIFICATIONS THAT WERE SUBMITTED IN BUILDING OFFICIALS AND CODE ADMINISTRATORS RESEARCH REPORT 85-46 (REVISED TO 82-66) TO BUILDING OFFICIALS AND CODE ADMINISTRATORS INTERNATIONAL INC., 4051 WEST FLOSSMOOR ROAD, COUNTRY CLUB HILLS, ILLINOIS, 60477-5795.

PHYSICAL PROPERTIES OF HONEYCOMB PANELING AND ATTACHING EXTRUSIONS :

FACING - A.S.T.M. 3004 H154 ALLUMINUM ALLOY; SIZE 0.024"x37.1875"; YIELD STRENGTH 33,400 P.S.I.;
ULTIMATE STRENGTH 34,600 P.S.I.; ELONGATION 1% TO 3.1%.

CORE - 99LB. KRAFT PAPER; 3/4" CELL SIZE; 11% RESIN IMPREGNATION; DENSITY 1.86 LBS/CU FT.;
CRUSHING STRENGTH 85 P.S.I.; STRONG PLANE SHEAR 42 P.S.I.; WEAK PLANE SHEAR 23 P.S.I.

FACING AND CORE ADHESIVE - A CONTACT ADHESIVE COMPOSED OF SYNTHETIC RUBBER RESINS AND SOLVENTS THAT MEETS THE DURABILITY AND STRENGTH CRITERIA OF A.S.T.M. C-297, A.S.T.M. D-1780 (MODIFIED), A.S.T.M. D-2918 (MODIFIED).

ATTACHING EXTRUSIONS - A.S.T.M. 5063 T-5 ALLUMINUM ALLOY TENSILE 22,000 P.S.I.; ELONGATION 8%.

TRANSVERSE LOAD (ROOF LOADING DATA) : TEST TO A.S.T.M. E72-80 ON 3" THICK PANELS; TWO POINT LOADING AT QUARTER SPAN

ROOF SPAN (FT.)	10		12		14	
ROOF PANELS WITH NO H-STIFFENERS	LBS	PSF	LBS	PSF	LBS	PSF
ULTIMATE ROOF LOAD	4013.7	147.2	3907.2	119.4	3544.2	92.8
ROOF PANELS WITH H-STIFFENERS	LBS	PSF	LBS	PSF	LBS	PSF
ULTIMATE ROOF LOAD	-	-	2910.0	88.9	3003.3	78.7

APR 27 1994

CONFORMANCE SPECIFICATIONS

(POLYSTYRENE ROOF PANELS)

GENERAL : CONSTRUCTION DETAILS AND CONFORMANCE SPECIFICATIONS THAT WERE SUBMITTED IN BUILDING OFFICIALS AND CODE ADMINISTRATORS RESEARCH REPORT 85-46 (REVISED TO 82-66) TO BUILDING OFFICIALS AND CODE ADMINISTRATORS INTERNATIONAL, INC., INC., 4051 WEST FLOSSMOOR ROAD, COUNTRY CLUB HILLS, ILLINOIS, 60477-5795.

PHYSICAL PROPERTIES OF POLYSTYRENE PANELING AND ATTACHING EXTRUSIONS :

FACING - A.S.T.M. 3004 H154 ALLUMINUM ALLOY; SIZE 0.024"x37.1875"; YIELD STRENGTH 33,400 P.S.I.;
 ULTIMATE STRENGTH 34,600 P.S.I.; ELONGATION 1% TO 3.1%.

CORE - ICA-LITE BRAND EXPANDED POLYSTYRENE; RIGID CLOSED CELL; SIZE 2 15/16"x35 3/8"; FT.;
 COMPRESSIVE STRENGTH (10% DEFORMATION) 15-21 P.S.I.; FLEXURAL STRENGTH 40-50 P.S.I.; TENSILE STRENGTH 18-22 P.S.I.;
 SHEAR STRENGTH 26-32 P.S.I.; SHEAR MODULUS 460-500 P.S.I.; ELASTIC MODULUS 320-360 P.S.I.

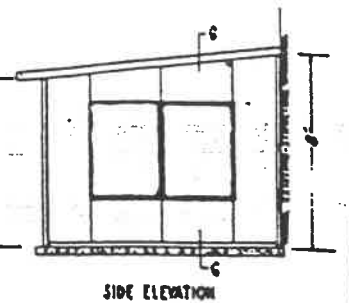
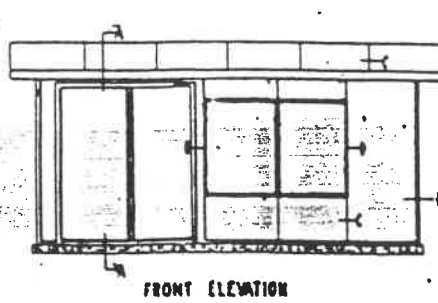
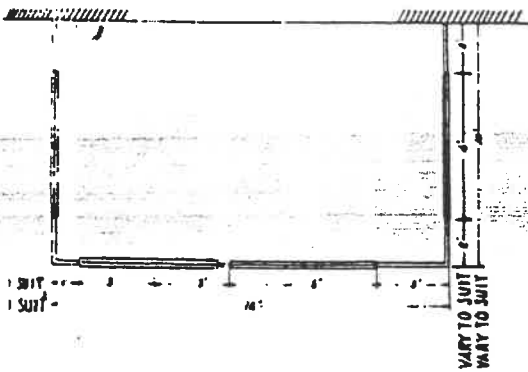
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ATTACHING EXTRUSIONS - A.S.T.M. 5063 T-5 ALLUMINUM ALLOY TENSILE 22,000 P.S.I.; ELONGATION 8%.

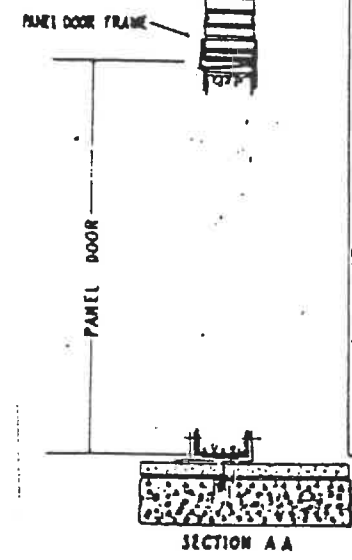
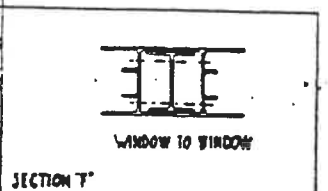
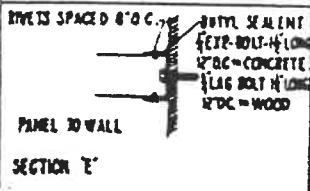
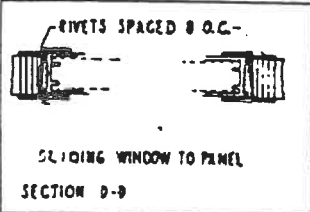
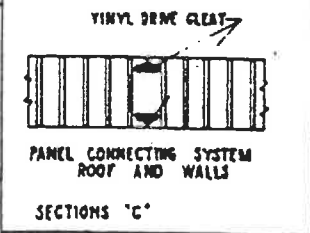
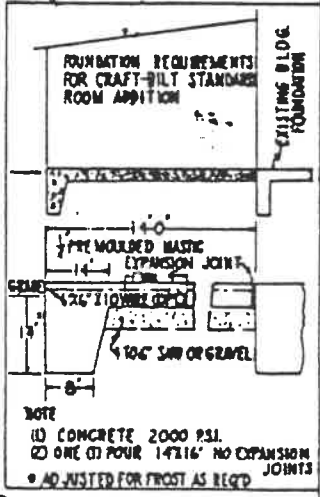
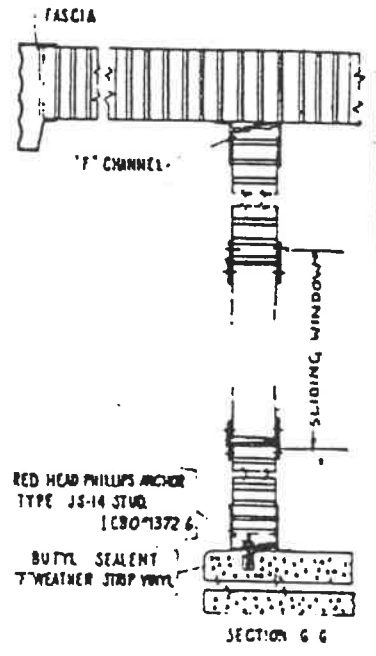
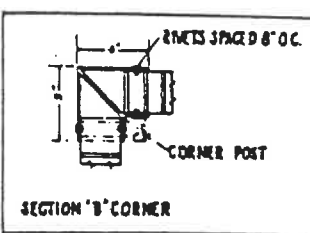
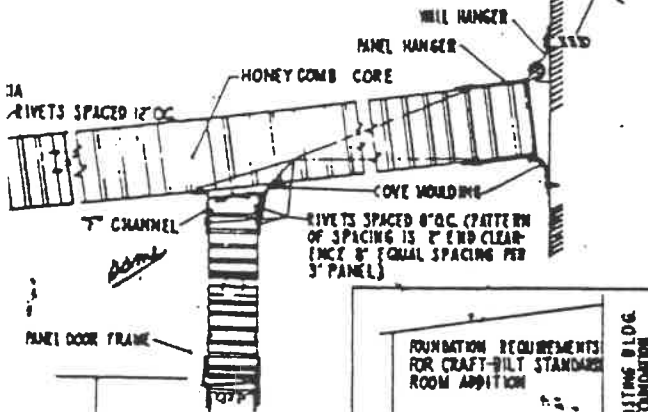
TRANSVERSE LOAD (ROOF LOADING DATA) : TEST TO A.S.T.M. E72-80 ON 3" THICK PANELS; TWO POINT LOADING AT QUARTER SPAN

ROOF SPAN (FT.)	10		12		14	
ROOF PANELS WITH H-STIFFENERS	LBS	PSF	LBS	PSF	LBS	PSF
ULTIMATE ROOF LOAD	4158.0	152.5	3389.1	103.6	2123.3	55.6

APR 9 7 1994



2" RED HEAD PHILLIPS ANCHOR
TYPE JS-14 STUD TO CONCRETE (CBO 1372.6)
LAG BOLT 2" LONG TO EXISTING STUDS
IN WOOD CONSTRUCTION



APR 27 1994

Handwritten signature

74"

37'

24'

DRIVEWAY

17'x12' ENCLOSURE

10'

23'

5'

13'

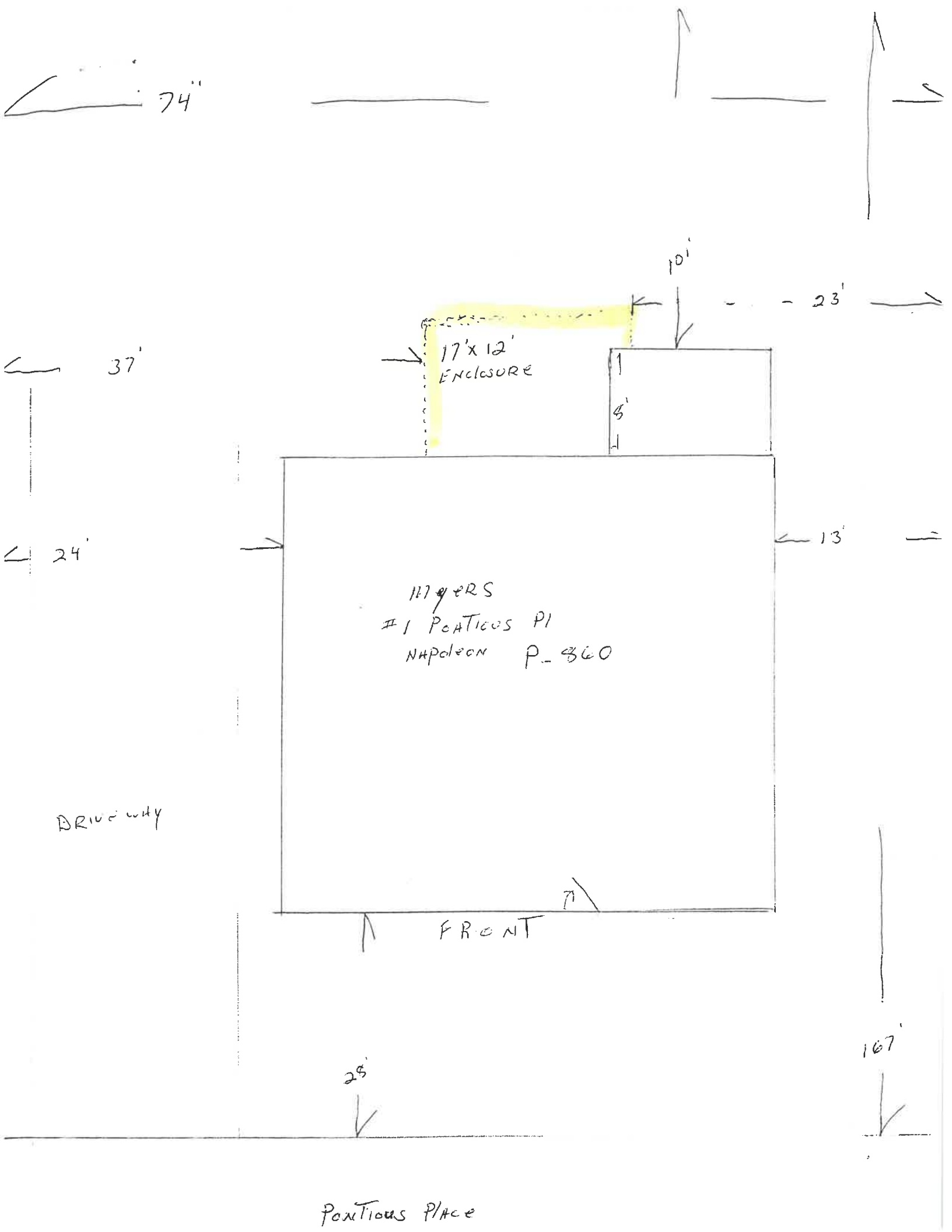
1179ERS
#1 PORTICOS P1
NAPoleon P-360

FRONT

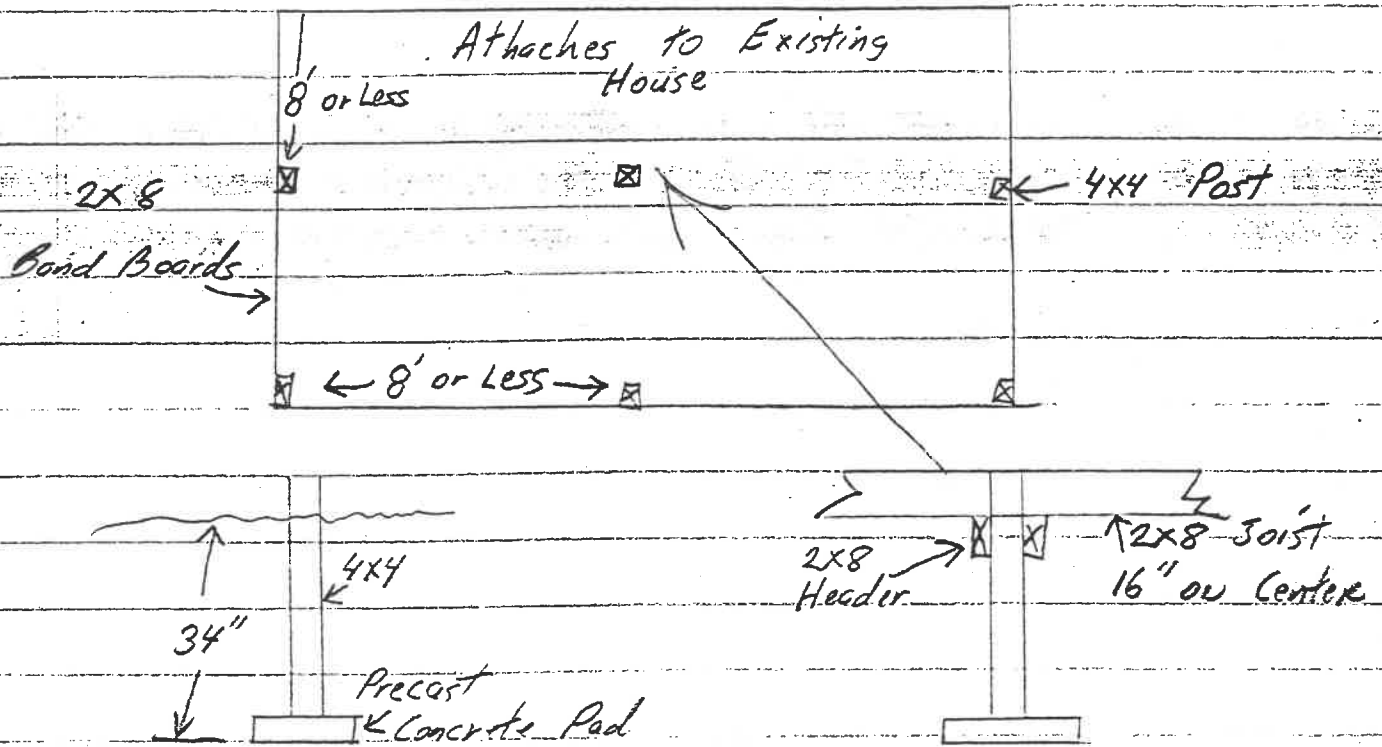
25'

167'

PORTICOS PLACE



Not to Scale



4x4 Post 34" Below Grade Sitting on
Precast Concrete Pads

2x8 Joist 16" on Center

2x8 Headers and Band Boards

3/4" T & G Structure Wood Sub Floor

ALL Lumber Treated with a .40 Saturation Level
EXCEPT THE Sub Floor

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- Consulting Engineers
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CERTIFICATION BY PROFESSIONAL ENGINEER

Betterliving Patio Rooms
PanelCraft Honeycomb Building Panels



To Whom It May Concern:

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The structural tests and design data described herein were performed in our laboratories under the direct supervision of professional engineers. Affixed is the official engineering stamp and authorized signature:

4-27-94

A handwritten signature in cursive script, appearing to read 'M. W. [unclear]'.

Please contact us if you have any questions about the engineering data contained in this brochure.

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- Conformance Specifications for Polystyrene Roof Panels
- Conformance Specifications for Honeycomb Wall Panels
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Yours sincerely,

A handwritten signature in cursive script, appearing to read 'Donald D. Meisel'.

Donald D. Meisel
President

CONFORMANCE SPECIFICATIONS

(HONEYCOMB WALL ASSEMBLIES)

TRANSVERSE LOAD (WALL LOADING DATA) : TEST TO A.S.T.M. E72-80 ON 3" THICK PANELS; UNIFORM LOADING USING AIR-BAG.

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TYPE OF WALL ASSEMBLY	SOLID (NO OPENINGS) (PSF)	FRAMED (DOORS/WINDOWS) (PSF)
MAXIMUM WALL LOAD	100	100
WALL LOAD AT DEFLECTION = (SPAN/180)	100+	86
WALL LOAD USED IN 24 HR LOAD/DEFN. TEST	80	80
ALLOWABLE WALL LOAD *	40	40

* FOUNDED ON THE LESSER OF a) THE MAXIMUM WALL LOAD WITH A SAFETY FACTOR OF 2.5 OR b) THE WALL LOAD AT DEFLECTION = (SPAN/180) OR c) THE WALL LOAD USED IN THE 24 HOUR LOAD / DEFLECTION RECOVERY TEST.

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	IMMED. RECOV.	RECOV. AFTER 24HR
SOLID WALL ASSEMBLY (12'7"x7'1"x3")	84.82%	92.55%
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AXIAL COMPRESSIVE LOAD (WALL LOADING DATA) : TEST TO A.S.T.M. E72-80 ON 3" THICK PANELS.

TYPE OF WALL ASSEMBLY	SOLID (NO OPENINGS) (LBS)	(LBS/FT)	FRAMED (DOORS/WINDOWS) (LBS)	(LBS/FT)
ULTIMATE AXIAL COMPRESSIVE LOAD	29400	2336	45445	3660
ALLOWABLE AXIAL WALL LOAD ***	11760	935	18178	1464

** FOUNDED ON THE ULTIMATE AXIAL COMPRESSIVE LOAD WITH A FACTOR OF SAFETY OF 2.5

RACKING LOAD (WALL RACKING LOAD DATA) : TEST TO A.S.T.M. E72-90 ON 3" PANELS

TYPE OF WALL ASSEMBLY	SOLID (NO OPENINGS) (LBS)	(LBS/FT)	FRAMED (DOORS/WINDOWS) (LBS)	(LBS/FT)
ULTIMATE RACKING LOAD * *	2130	170	2360	190
ALLOWABLE AXIAL WALL **	852	68	944	76

* * NO CLEAR POINT OF FAILURE, RATHER, PROGRESSIVE DETERIORATION AT PANEL CORNERS AND EDGES DUE TO INDIVIDUAL ROTATION OF PANELS WITH RESPECT TO THEIR CENTERS.

** FOUNDED ON THE ULTIMATE RACKING LOAD WITH A FACTOR OF SAFETY OF 2.5

APR 27 1994

CONFORMANCE SPECIFICATIONS

(HONEYCOMB ROOF PANELS)

GENERAL : CONSTRUCTION DETAILS AND CONFORMANCE SPECIFICATIONS THAT WERE SUBMITTED IN BUILDING OFFICIALS AND CODE ADMINISTRATORS RESEARCH REPORT 85-46 (REVISED TO 82-66) TO BUILDING OFFICIALS AND CODE ADMINISTRATORS INTERNATIONAL INC., 4051 WEST FLOSSMOOR ROAD, COUNTRY CLUB HILLS, ILLINOIS, 60477-5795.

PHYSICAL PROPERTIES OF HONEYCOMB PANELING AND ATTACHING EXTRUSIONS :

FACING - A.S.T.M. 3004 H154 ALLUMINUM ALLOY; SIZE 0.024"x37.1875"; YIELD STRENGTH 33,400 P.S.I.;
 ULTIMATE STRENGTH 34,600 P.S.I.; ELONGATION 1% TO 3.1%.
 CORE - 99LB. KRAFT PAPER; 3/4" CELL SIZE; 11% RESIN IMPREGNATION; DENSITY 1.86 LBS/CU FT.;
 CRUSHING STRENGTH 85 P.S.I.; STRONG PLANE SHEAR 42 P.S.I.; WEAK PLANE SHEAR 23 P.S.I.
 FACING AND CORE ADHESIVE - A CONTACT ADHESIVE COMPOSED OF SYNTHETIC RUBBER RESINS AND SOLVENTS THAT MEETS THE
 DURABILITY AND STRENGTH CRITERIA OF A.S.T.M. C-297, A.S.T.M. D-1780 (MODIFIED), A.S.T.M. D-2918 (MODIFIED).
 ATTACHING EXTRUSIONS - A.S.T.M. 5063 T-5 ALLUMINUM ALLOY TENSILE 22,000 P.S.I.; ELONGATION 8%.

TRANSVERSE LOAD (ROOF LOADING DATA) : TEST TO A.S.T.M. E72-80 ON 3" THICK PANELS; TWO POINT LOADING AT QUARTER SPAN

ROOF SPAN (FT.)	10		12		14	
ROOF PANELS WITH NO H-STIFFENERS	LBS	PSF	LBS	PSF	LBS	PSF
ULTIMATE ROOF LOAD	4013.7	147.2	3907.2	119.4	3544.2	92.8
ROOF PANELS WITH H-STIFFENERS	LBS	PSF	LBS	PSF	LBS	PSF
ULTIMATE ROOF LOAD	-	-	2910.0	88.9	3003.3	78.7

APR 27 1994

CONFORMANCE SPECIFICATIONS

(POLYSTYRENE ROOF PANELS)

GENERAL : CONSTRUCTION DETAILS AND CONFORMANCE SPECIFICATIONS THAT WERE SUBMITTED IN BUILDING OFFICIALS AND CODE ADMINISTRATORS RESEARCH REPORT 85-46 (REVISED TO 82-66) TO BUILDING OFFICIALS AND CODE ADMINISTRATORS INTERNATIONAL, INC., INC., 4051 WEST FLOSSMOOR ROAD, COUNTRY CLUB HILLS, ILLINOIS, 60477-5795.

PHYSICAL PROPERTIES OF POLYSTYRENE PANELING AND ATTACHING EXTRUSIONS :

FACING - A.S.T.M. 3004 H154 ALLUMINUM ALLOY; SIZE 0.024"x37.1875"; YIELD STRENGTH 33,400 P.S.I.;
 ULTIMATE STRENGTH 34,600 P.S.I.; ELONGATION 1% TO 3.1%.

CORE - ICA-LITE BRAND EXPANDED POLYSTYRENE; RIGID CLOSED CELL; SIZE 2 15/16"x35 3/8"; FT.;
 COMPRESSIVE STRENGTH (10% DEFORMATION) 15-21 P.S.I.; FLEXURAL STRENGTH 40-50 P.S.I.; TENSILE STRENGTH 18-22 P.S.I.;
 SHEAR STRENGTH 26-32 P.S.I.; SHEAR MODULUS 460-500 P.S.I.; ELASTIC MODULUS 320-360 P.S.I.

FACING AND CORE ADHESIVE - A CONTACT ADHESIVE COMPOSED OF SYNTHETIC RUBBER RESINS AND SOLVENTS THAT MEETS THE DURABILITY AND STRENGTH CRITERIA OF A.S.T.M. C-297, A.S.T.M. D-1780 (MODIFIED), A.S.T.M. D-2918 (MODIFIED).

ATTACHING EXTRUSIONS - A.S.T.M. 5063 T-5 ALLUMINUM ALLOY TENSILE 22,000 P.S.I.; ELONGATION 8%.

TRANSVERSE LOAD (ROOF LOADING DATA) : TEST TO A.S.T.M. E72-80 ON 3" THICK PANELS; TWO POINT LOADING AT QUARTER SPAN

ROOF SPAN (FT.)	10		12		14	
ROOF PANELS WITH H-STIFFENERS	LBS	PSF	LBS	PSF	LBS	PSF
ULTIMATE ROOF LOAD	4158.0	152.5	3389.1	103.6	2123.3	55.6

APR 27 1994

