

City of Portland, Maine - Building or Use Permit Application 389 Congress Street, 04101, Tel: (207) 874-8703, FAX: 874-8716

Location of Construction: 1249 Washington Avenue 04103
 Owner: Andrezej Wdowick
 Phone: 797-9951
 Business Name: [Blank]
 Contractor Name: Jesse Stanley American Profiles
 Address: 20 Elaine St. Manchester, NH 03102
 Phone: 1-800-639-7902
 603-623-5515
 Past Use: 1-Family
 Proposed Use: Same
 COST OF WORK: \$ 17,500
 PERMIT FEE: \$ 110.00
 FIRE DEPT. Approved Denied
 INSPECTION: Use Group: Type: [Blank]
 Signature: [Blank]
 Signature: [Blank]
 PEDESTRIAN ACTIVITIES DISTRICT (P.A.D.)
 Action: Approved Approved with Conditions Denied
 Permit Taken By: [Blank] Date Applied For: May 27, 1999
 Permit No: 99 056 9
 Permit Issued: [Blank]
 Zone: CBL: [Blank]
 Zoning Approval: [Blank]
 Special Zone or Reviews:
 Shoreland
 Wetland
 Flood Zone
 Subdivision
 Site Plan maj Minor mm D
 Zoning Appeal
 Variance
 Miscellaneous
 Conditional Use
 Interpretation
 Approved
 Denied
 Historic Preservation
 Not in District or Landmark
 Does Not Require Review
 Requires Review
 Action:
 Approved
 Approved with Conditions
 Denied
 Date: [Blank]

CEO DISTRICT 2

Proposed Project Description:
 Build 12 x 13 pre-fab alum. skin room
 Signature: [Blank] Date: [Blank]
 Signature: [Blank] Date: [Blank]

PERMIT ISSUED WITH REQUIREMENTS

CERTIFICATION

I hereby certify that I am the owner of record of the named property, or that the proposed work is authorized by the owner of record and that I have been authorized by the owner to make this application as his authorized agent and I agree to conform to all applicable laws of this jurisdiction. In addition, if a permit for work described in the application is issued, I certify that the code official's authorized representative shall have the authority to enter all areas covered by such permit at any reasonable hour to enforce the provisions of the code(s) applicable to such permit

SIGNATURE OF APPLICANT: [Blank] ADDRESS: [Blank] PHONE: [Blank]
 DATE: May 27, 1999

RESPONSIBLE PERSON IN CHARGE OF WORK, TITLE: [Blank] PHONE: [Blank]

White-Permit Desk Green-Assessor's Canary-D.P.W. Pink-Public File Ivory Card-Inspector

BUILDING PERMIT REPORT

DATE: 5 June 99 ADDRESS: 1249 Washington Ave. CBL: 408-A-028
 REASON FOR PERMIT: 12x18 pre-fab alum-sun room
 BUILDING OWNER: A. Wdowiak
 PERMIT APPLICANT: _____ Contractor Jesse Tahley American Profiles
 USE GROUP R-3 BOCA 1996 CONSTRUCTION TYPE _____

CONDITION(S) OF APPROVAL

This permit is being issued with the understanding that the following conditions are met:

Approved with the following conditions: *1, *13, *27, *29, *32, *33

- *1. This permit does not excuse the applicant from meeting applicable State and Federal rules and laws.
2. Before concrete for foundation is placed, approvals from the Development Review Coordinator and Inspection Services must be obtained. (A 24 hour notice is required prior to inspection)
3. Foundation drain shall be placed around the perimeter of a foundation that consists of gravel or crushed stone containing not more than 10 percent material that passes through a No. 4 sieve. The drain shall extend a minimum of 12 inches beyond the outside edge of the footing. The thickness shall be such that the bottom of the drain is not higher than the bottom of the base under the floor, and that the top of the drain is not less than 6 inches above the top of the footing. The top of the drain shall be covered with an approved filter membrane material. Where a drain tile or perforated pipe is used, the invert of the pipe or tile shall not be higher than the floor elevation. The top of joints or top of perforations shall be protected with an approved filter membrane material. The pipe or tile shall be placed on not less than 2" of gravel or crushed stone, and shall be covered with not less than 6" of the same material. Section 1813.5.2
4. Foundations anchors shall be a minimum of 1/2" in diameter, 7" into the foundation wall, minimum of 12" from corners of foundation and a maximum 6' o.c. between bolts. (Section 2305.17)
5. Waterproofing and damp proofing shall be done in accordance with Section 1813.0 of the building code.
6. Precaution must be taken to protect concrete from freezing. Section 1908.0
7. It is strongly recommended that a registered land surveyor check all foundation forms before concrete is placed. This is done to verify that the proper setbacks are maintained.
- *8. Private garages located beneath habitable rooms in occupancies in Use Group R-1, R-2, R-3 or I-1 shall be separated from adjacent interior spaces by fire partitions and floor/ceiling assembly which are constructed with not less than 1-hour fire resisting rating. Private garages attached side-by-side to rooms in the above occupancies shall be completely separated from the interior spaces and the attic area by means of 1/2 inch gypsum board or the equivalent applied to the garage means of 1/2 inch gypsum board or the equivalent applied to the garage side. (Chapter 4, Section 407.0 of the BOCA/1996)
9. All chimneys and vents shall be installed and maintained as per Chapter 12 of the City's Mechanical Code. (The BOCA National Mechanical Code/1993). Chapter 12 & NFPA 211
10. Sound transmission control in residential building shall be done in accordance with Chapter 12, Section 1214.0 of the City's Building Code.
- *11. Guardrails & Handrails: A guardrail system is a system of building components located near the open sides of elevated walking surfaces for the purpose of minimizing the possibility of an accidental fall from the walking surface to the lower level. Minimum height all Use Groups 42", except Use Group R which is 36". In occupancies in Use Group A, B, H-4, I-1, I-2, M and R and public garages and open parking structures, open guards shall have balusters or be of solid material such that a sphere with a diameter of 4" cannot pass through any opening. Guards shall not have an ornamental pattern that would provide a ladder effect. (Handrails shall be a minimum of 3e4" but not more than 38". Use Group R-3 shall not be less than 30", but not more than 38".) Handrail grip size shall have a circular cross section with an outside diameter of at least 1 1/4" and not greater than 2". (Sections 1021 & 1022.0) - Handrails shall be on both sides of stairway. (Section 1014.7)
12. Headroom in habitable space is a minimum of 7'6". (Section 1204.0)
- *13. Stair construction in Use Group R-3 & R-4 is a minimum of 10" tread and 7 1/4" maximum rise. All other Use Group minimum 11" tread, 7" maximum rise. (Section 1014.0)
14. The minimum headroom in all parts of a stairway shall not be less than 80 inches. (6'8") 1014.4
15. Every sleeping room below the fourth story in buildings of Use Groups R and I-1 shall have at least one operable window or exterior door approved for emergency egress or rescue. The units must be operable from the inside without the use of special knowledge or separate tools. Where windows are provided as means of egress or rescue they shall have a sill height not more than 44 inches (1118mm) above the floor. All egress or rescue windows from sleeping rooms shall have a minimum net clear opening height dimension of 24 inches (610mm). The minimum net clear opening width dimension shall be 20 inches (508mm), and a minimum net clear opening of 5.7 sq. ft. (Section 1018.6)
16. Each apartment shall have access to two (2) separate, remote and approved means of egress. A single exit is acceptable when it exits directly from the apartment to the building exterior with no communications to other apartment units. (Section 1010.1)
17. All vertical openings shall be enclosed with construction having a fire rating of at least one (1) hour, including fire doors with self closer's. (Over 3 stories in height requirements for fire rating is two (2) hours.) (Section 710.0)

THIS IS NOT A PERMIT/CONSTRUCTION CANNOT COMMENCE UNTIL THE

PERMIT IS ISSUED

Building or Use Permit Pre-Application

Additions/Alterations/Accessory Structures

To Detached Single Family Dwelling

In the interest of processing your application in the quickest possible manner, please complete the information below for a Building or Use Permit.

NOTE* If you or the property owner owes real estate or personal property taxes or user charges on any property within the

City, payment arrangements must be made before permits of any kind are accepted.

Location/Address of Construction: 1249 Washington Ave 04103

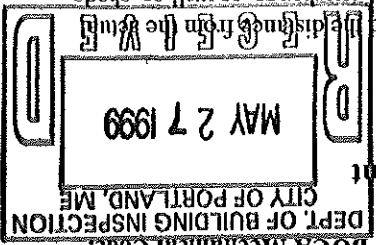
Tax Assessor's Chart, Block & Lot Number Chart# <u>408</u> Block# <u>A</u> Lot# <u>028</u>		Owner: <u>Andrzej Wdowiak</u>	Telephone#: <u>797-9951</u>
Owner's Address: <u>1249 Washington Ave</u>		Lessee/Buyer's Name (If Applicable)	Cost Of Work: <u>\$17,800</u>
Proposed Project Description: (Please be as specific as possible) <u>build 12x18' pre Fab Alum. sun room</u>		Fee <u>\$110</u>	

Contractor's Name, Address & Telephone Jesse Stahley Recd By: WB 603-623-5518 APCO INC
American Profiles 20 blair st Manchester NH 603-639-7902

- All construction must be conducted in compliance with the 1996 B.O.C.A. Building Code as amended by Section 6-Art II.
- All plumbing must be conducted in compliance with the State of Maine Plumbing Code.
- All Electrical Installation must comply with the 1996 National Electrical Code as amended by Section 6-Art III.
- HVAC (Heating, Ventilation and Air Conditioning) installation must comply with the 1993 BOCA Mechanical Code.

You must include the following with you application:

- 1) A Copy of Your Deed or Purchase and Sale Agreement
- 2) A Copy of your Construction Contract, if available
- 3) A Plot Plan (Sample Attached)



If there is expansion to the structure, a complete plot plan (Site Plan) must include:
 • The shape and dimension of the lot, all existing buildings (if any), the proposed structure and the proposed setbacks.
 • Property lines. Structures include decks porches, a bow windows cantilever sections and roof overhangs, as well as, sheds, pools, garages and any other accessory structures.
 • Scale and required zoning district setbacks.

4) Building Plans (Sample Attached)

- A complete set of construction drawings showing all of the following elements of construction:
- Cross Sections w/ Framing details (including porches, decks w/ railings, and accessory structures)
 - Floor Plans & Elevations
 - Window and door schedules
 - Foundation plans with required drainage and dampproofing
 - Electrical and plumbing layout. Mechanical drawings for any specialized equipment such as furnaces, chimneys, gas equipment, HVAC equipment (air handling) or other types of work that may require special review must be included.

Certification

I hereby certify that I am the Owner of record of the named property, or that the proposed work is authorized by the owner of record and that I have been authorized by the owner to make this application as his/her authorized agent. I agree to conform to all applicable laws of this jurisdiction. In addition, if a permit for work described in this application is issued, I certify that the Code Official's authorized representative shall have the authority to enter all areas covered by this permit at any reasonable hour to enforce the provisions of the codes applicable to this permit.

Signature of applicant: [Signature] Date: 5-27-99

Building Permit Fee: \$25.00 for the 1st \$1000. cost plus \$5.00 per \$1,000.00 construction cost thereafter.
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AFFIDAVIT

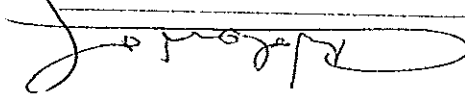
I, the undersigned, the owner of the property at 1249 WASHINGTON ST.

hereby verify that I have authorized Lee Stephens/American Profiles to apply to the

Building Department of the City of Portland, Maine, State

to act as agent obtaining building permit and, or any zoning requirements needed to obtain

permits.

Signature of Owner X 

Address of Owner 1249 WASHINGTON ST. PORTLAND ME 04103

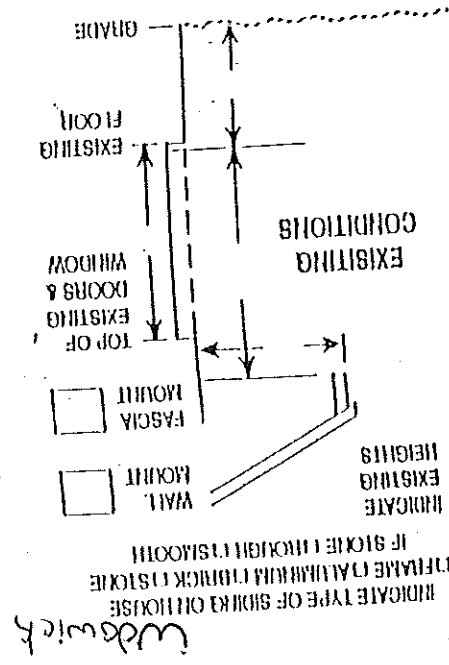
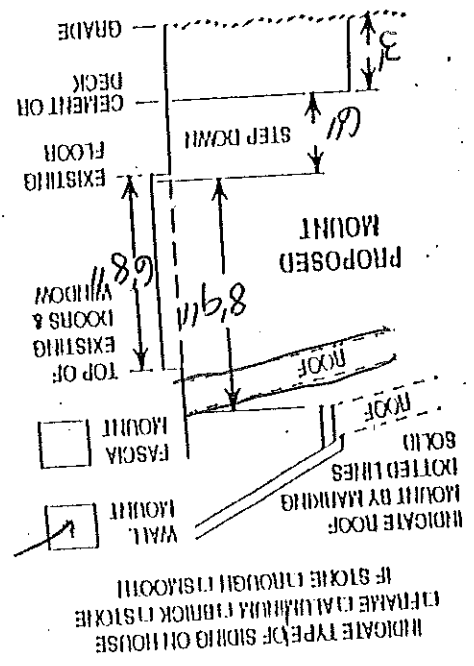
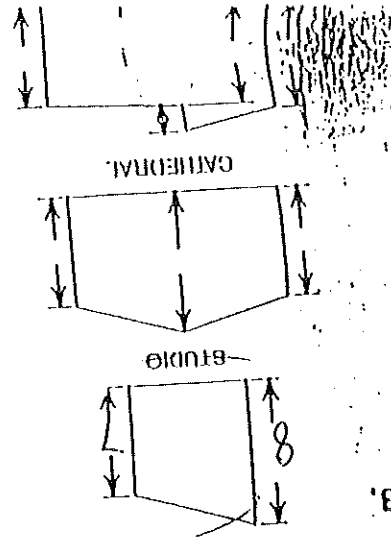
Date 5/19/99

9-0313

Note: Homeowner will tear down EXISTING DECK.

INSTALLERS: Be sure that the left side
wall extends just past basement window
and the wood lattice on the left side of the
floor sep needs to be hung so that the m.
can remove it to slide mat in/out of
the basement window

pat



8. SURVEY CHECKLIST

- Mortgage survey
- Existing footings
- Necessary photos for access into rear yard

EXISTING CONDITIONS:

- Overhead lines
- 1/2" Spicket
- Dryer Vent
- A/C
- Septic Lines
- Phone
- Cable
- BBQ
- Spline lines
- Free
- Lights
- Slab
- Crawl
- Basement

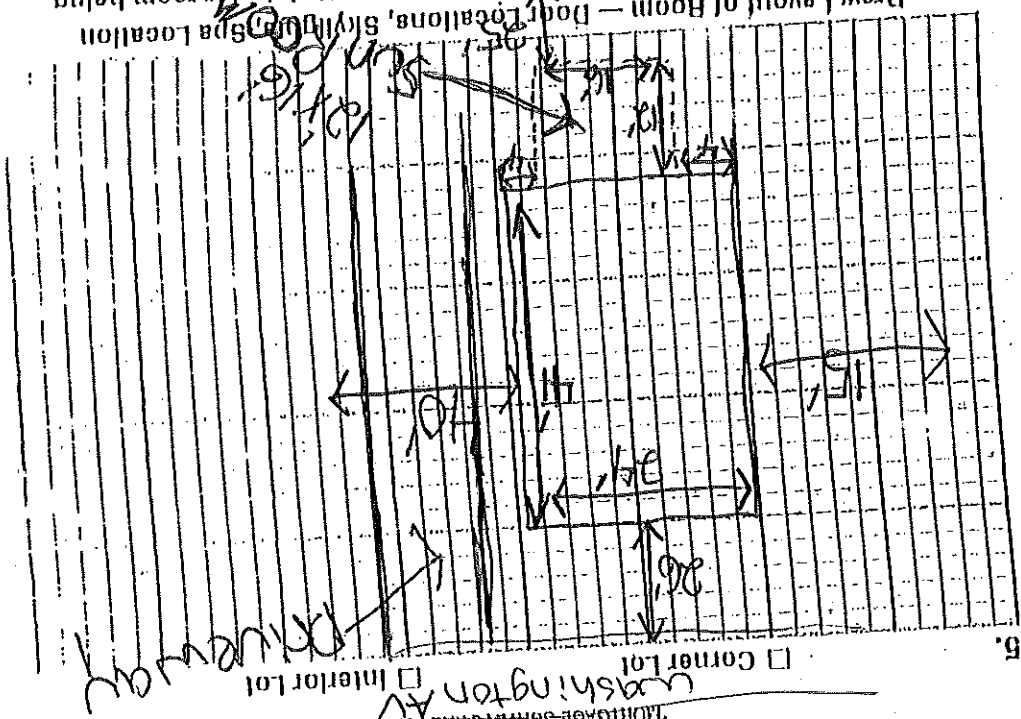
What condition is existing roof on home?

8' rear reg. 15' x 10' show

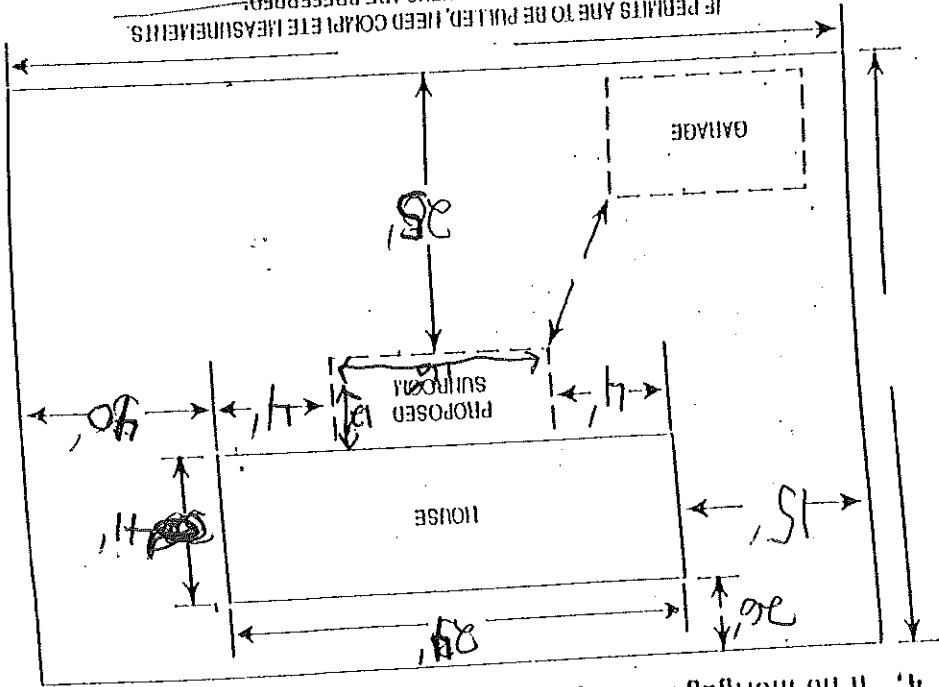
8' rear reg. 15' x 10' show

Photo of electric panel and meter
 Steps by: Homeowner Tony V's
 251 rear reg.

- Draw Layout of Room - Foot Locations, Skyline, Spa Location
- Locate breakthrough and size
- Dimension existing slab, sidewalks and steps
- Identify interior room being enclosed
- Locate existing pool



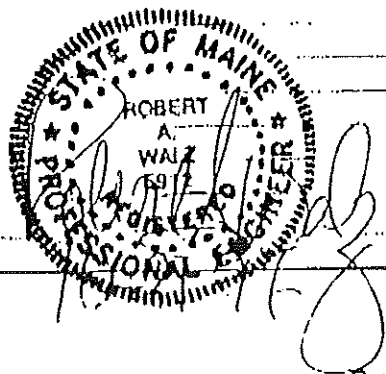
IF PERMITS ARE TO BE PULLED, NEED COMPLETE MEASUREMENTS. MORTGAGE SURVEYS ARE PREFERRED.



4. If no mortgage survey

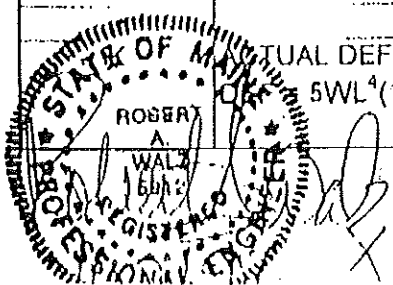
ROOF SPAN CALCULATIONS

RIOUX			
SPAN (feet)	12.00		
LIVE LOAD (psf)	50.00		
DEAD LOAD (psf)	2.00		
TOTAL LOAD (psf)	52.00		
		One Pound	Two Pound
Foam Dimension - C (inches)	4.25	Foam	Foam
Foam Density (pcf)	2.00		
E _c (psi)	480	200	480
F _v (psi)	35	20	35
G _c (psi)	620	300	620
T1 (inches)	0.032		
T2 (inches)	0.032		
H (inches)	4.31		
A1 (inches) ²	0.384		
A2 (inches) ²	0.384		
E (psi)	10,100,000		
Aluminum Working Stress (psi)	11,818		
Y (inches)	2.16		
I (inches) ⁴	3.52		
S (inches) ³	1.63		
Bending Stress (psi)	6,882		
Shear Stress (psi)	6.07		
Skin Buckling (psi)	7,215		
Allowable Deflection (inches)	1.20		
Actual Deflection (inches)	1.03		

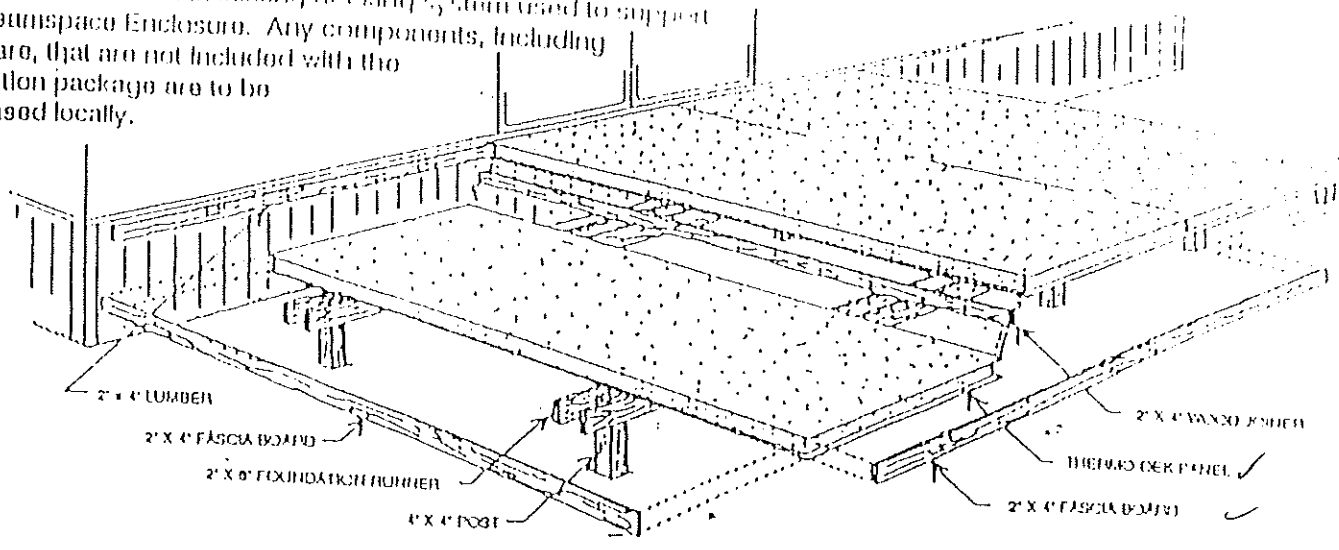


ROOF SPAN CALCULATIONS

A	RIOUX SPAN (feet)	12.00		
B	LOADING CONDITIONS			
	LIVE LOAD (psf)	50.00		
	DEAD LOAD (psf)	2.00		
	TOTAL LOAD (psf)	52.00		
C	MATERIAL SPECIFICATIONS			
	FOAM CORE THICKNESS (inches)	4.25		
	FOAM CORE DENSITY (pcf)	2.00		
	E_c (psi)	480		
	F_v (psi)	35		
	G_c (psi)	620		
	ALUMINUM THICKNESS (inches)	0.032		
	E (psi)	10,100,000		
D	SECTION PROPERTIES			
	C (inches)	4.25		
	T_1 (inches)	0.032		
	T_2 (inches)	0.032		
	H (inches)	4.31		
	A_1 (inches) ²	0.384		
	A_2 (inches) ²	0.384		
E	ALUMINUM WORKING STRESS (psi)	11,818		
F	Y (inches)	2.16		
	I (inches) ⁴	3.52		
	S (inches) ³	1.63		
G	BENDING STRESS (psi)			
	$F_b = 1.5WL^2/S$	6,882	IS LESS THAN	11,818
		Bending Stress is Acceptable		
H	SHEAR STRESS (psi)			
	$F_v = WL/(H+C)12$	6.07	IS LESS THAN	35
		Shear Stress is Acceptable		
I	SKIN BUCKLING STRESS (psi)			
	$C_{cr} = 0.5(\text{cube root})(E)(E_c)(G_c)$	7,215	IS GREATER THAN	6,882
		Skin Buckling Stress is Acceptable		
J	ALLOWABLE DEFLECTION (inches)			
	DEFLECTION = $L/120$	1.20		
	MUTUAL DEFLECTION (inches)			
	$5WL^4/(1728)/384EI + WL^2/4(H+C)G_c$	1.03	IS LESS THAN	1.20
		Deflection is Acceptable		



the Dreamspace Enclosure. Any components, including hardware, that are not included with the installation package are to be purchased locally.



The Thermo-dek panels are normally 4' wide and may be up to 16' long. Thermo-dek panels consist of two 3/8" Oriented Strand Boards (OSB) laminated to the top and the bottom of 3 5/8" thick polystyrene core. The OSB boards extend 13/16" beyond the polystyrene core around the entire perimeter. This recessing creates a 1 5/8" opening which is used to secure and join the panels.

The foundation for the Thermo-dek is made from pressure treated 4"x4" posts with 2"x6" stringers attached to both sides of the posts parallel to the home. 2"x4" lumber is used to join the Thermo-dek panels together, secure the panels to the home and to fill the front opening of the panels. 2"x4" lumber is used to fill the openings on the exposed sides of the Thermo-dek panels. The result is a warm, structurally sound floor for the Dreamspace Enclosure.

The following instructions will make the installation of the Thermo-dek an easy job.

STEP 1 - ATTACHMENT TO THE HOME

Determine the desired location of the Thermo-dek on the home. Create a level reference line along the home for the Thermo-dek 3/8" below the desired location. The top skin of the OSB panel will make up the 3/8" undersizing (See Fig. A). Carpeting or other floor coverings that are planned to be placed over the Thermo-dek will also affect the actual height of the Thermo-dek in respect to the reference line.

Beginning 1 5/8" in from either end of the Thermo-dek, secure 2"x4" lumber to the house wall using the reference line as the top guide for the lumber. The lumber should be attached 1 5/8" in from both ends of the Thermo-dek to accommodate the insert lumber that will be added later (See Fig. B). Be sure when attaching the lumber to the home that it is attached to the structure of the home.

The Thermo-dek is intended for indoor use only, therefore, the Dreamspace Enclosure should be placed at the outside edges of the Thermo-dek panels to shield the panels from the weather. The lumber that is placed into the outside edges of the panels is used so that the Dreamspace Enclosure will have a structural member on which to attach the Thermo-dek system. The exposed edges must be covered with capping.

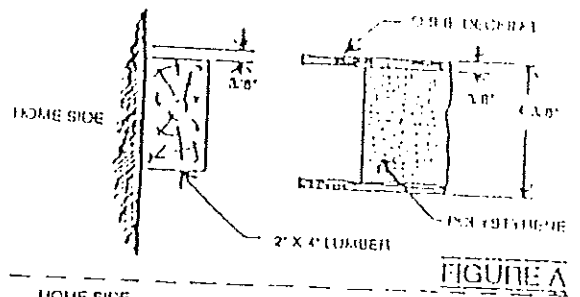


FIGURE A

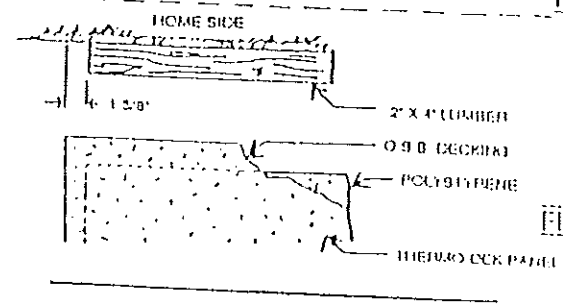


FIGURE B



SHINGLES OVER 50# FELT WHICH EXTENDS 12" BEYOND INSIDE FACE OF EXTERIOR WALL

MIN. 24" SNOW & ICE SHIELD

36" METAL FLASHING

EXISTING ROOF (WHERE APPLICABLE)

TEMP. FLOOR PANEL (12" MAX. OVERHANG) SIZE PER FIG. PLAN

(2) 1 1/2" SCREWS PER PANEL SECTION INTO STRONGBACKS

1 1/2" SCREWS INTO EACH STRONGBACK

(2) 2 X 4 P.T. STRONGBACK FULL DECK LENGTH W/ (2) 1/4" X 8" THRU BOLTS OR (4) 1/4" X 3" LAG SCREWS (2 EACH SIDE OF POST) (SEE PLAN FOR SPACING)

4 X 4 P.T. POST (SEE PLAN FOR SPACING)

CONCRETE

MIN. 8" DIA. CONC. PIER BASE

8" (FROST DEPTH)

1" STAINLESS STEEL BRASS BRUSH BRASS

CONCRETE

METAL FLASHINGS (SEE DETAIL AT LEFT)

8'-0"

EXISTING HOUSE

36"

2 X 4 LAGGED TO 2 X LEDGER (SEE PLAN FOR SIZE) FASTENED TO EXIST. BLDG. PER MANUF. SPECS (BASED ON EXIST. CONDITIONS)

WOOD FRAME 1 1/2" X 4" LAG SCREWS @ 16" O/C STAGGERED.

BRICK - CUT NAILS @ 24" O/C W/ 1/4" X 3 1/2" SPAN ANCHOR @ 24" O/C STAGGERED INTO MORTAR JOINTS

NOTE: WHERE NO PIERS ARE SHOWN NEAR EXISTING HOUSE (AS SHOWN) LEDGER ATTACHMENT TO EXIST. WALLS SHALL BE THRU-WALL BOLTED TO FRAME OF STRUCTURE.

SECTION 'A'

FLOOR PANEL 1 1/2" SCREWS @ 6" O/C

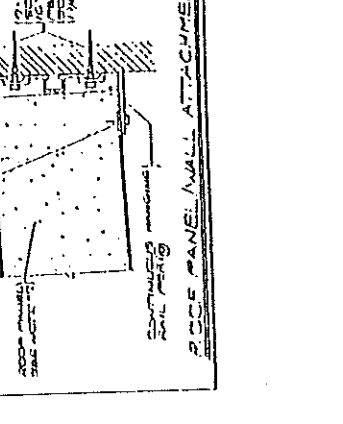
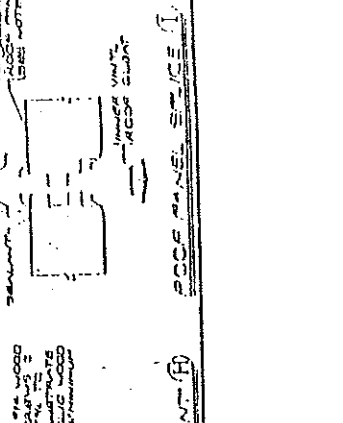
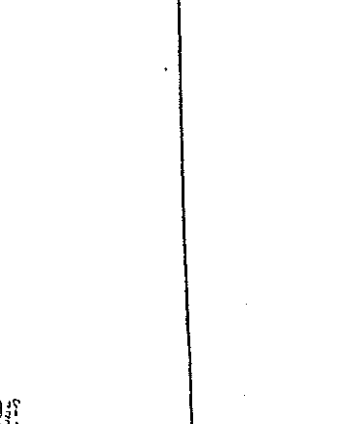
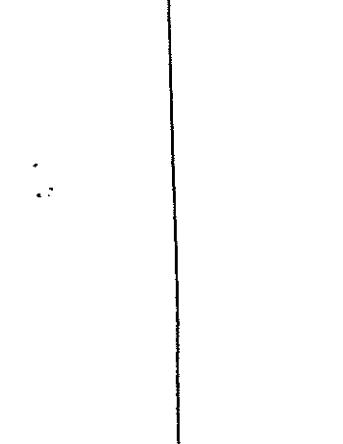
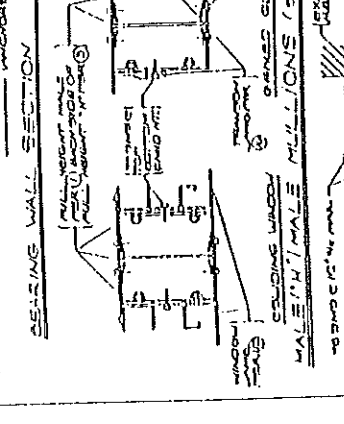
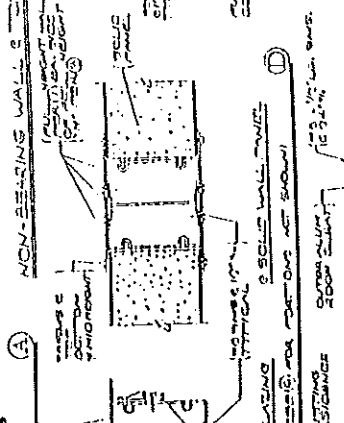
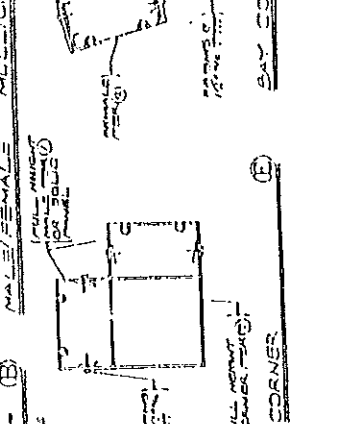
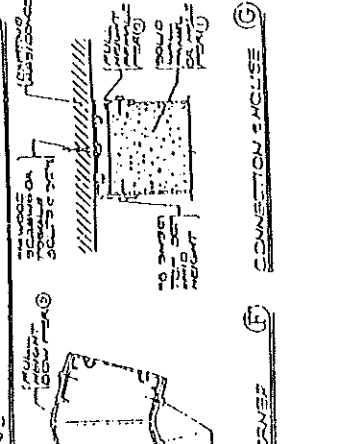
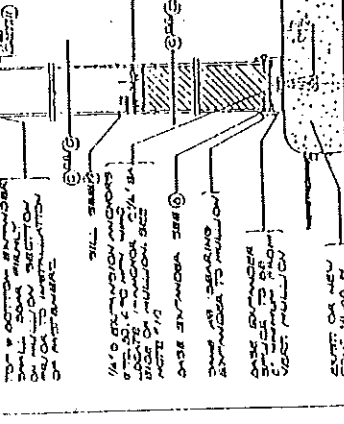
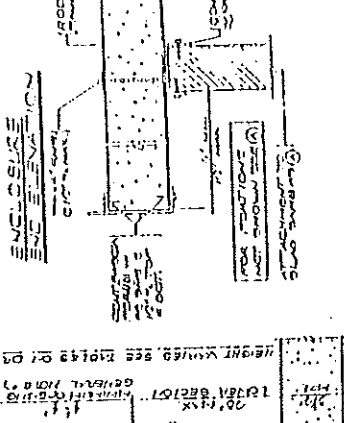
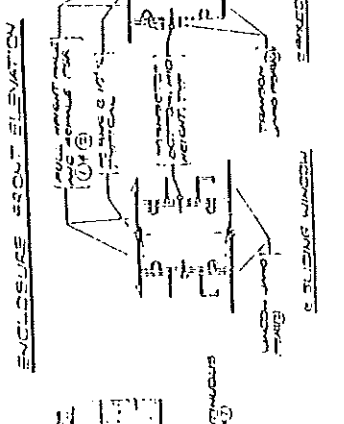
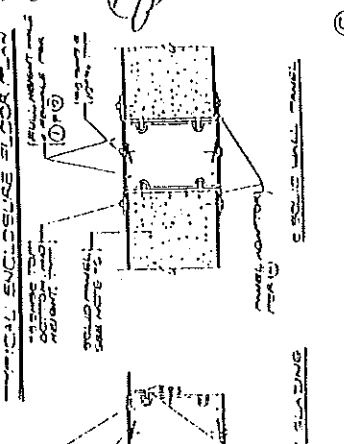
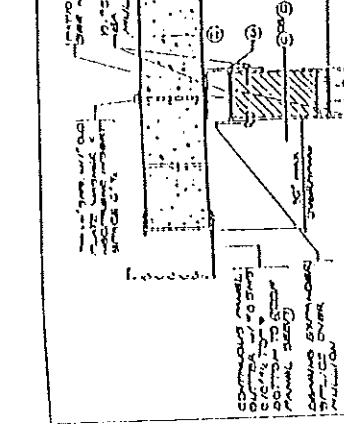
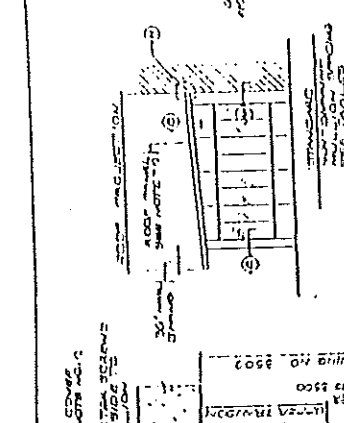
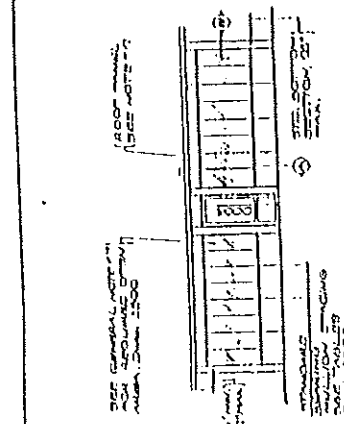
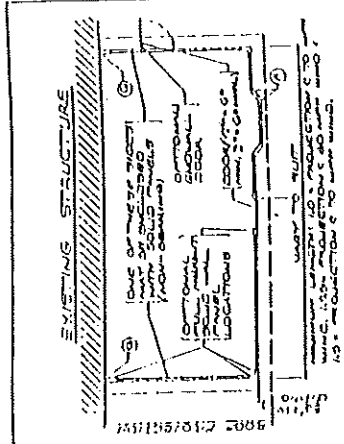
2 X JOIST

PANEL SPLICE DETAIL

NOTE: ALL STRUCTURAL LINERS TO BE PRESSURE TREATED

CLIENT/PROJ.	PH. ()	DATE	REVISIONS

DRAWN BY: DAVID CENTORBI	CK'D BY:
MEASURED BY:	DATE:
	SCALE: NONE



ENCLOSURE SHEET # 0513119
 Terno Inc.
 800-888-0800 • 402-215-7225 FAX 402-215-7224
 2501
 11/11/11

GENERAL NOTES & SPECIFICATIONS

- 1. THIS TYPE COVER & ENCLOSURE SYSTEM IS LIMITED TO RESIDENTIAL USE. SINGLE UNITS AND 2 OR 3 NET TO BE USED AS A SINGLE COVER, OR AS MULTIPLE UNITS.
- 2. THIS ENCLOSURE SYSTEM IS TO BE INSTALLED UNDER THE FRONT COVER AND PANEL SNOW OR DRIVING RAIN. (SEE ALSO THE FRONT COVER DRAWING NO. 3501.)
- 3. SECTION LEGEND: SEE TABLE FOR SECTION LEGEND.
- 4. ENCLOSURES: FRONT RIVERS WHERE SHOWN SHALL BE 500% ALUMINUM RIVERS WITH THE LONG CORNER SHOWER PANELS AT MINIMUM SHALL BE 30% GALV. STEEL. SHALL BE 20 GA. OR 18 GA. ALUMINUM.
- 5. THE STRUCTURAL COMPONENTS OF THIS ENCLOSURE SYSTEM (EXCEPT SNOW PANELS AND ALUMINUM RIVERS) SHALL BE IDENTIFIED BY THE SECTION LEGEND.
- 6. THIS SNOW PANEL SHALL BE FABRICATED BY A COMPANY WITH A SUBSTANTIALLY PROVEN RECORD OF THE QUALITY OF ITS PRODUCTS. ALL STRUCTURAL STUDIES TO WATER PENETRATION SHALL BE FULLY DETAILED.
- 7. PANEL BRACKETS TO BE REINFORCED TO BE LEFT OPEN FOR SECTION 5110. THE OTHER END OF THE COVER FOR THE SNOW PANEL SHALL BE A MINIMUM OF 1/2" REBAR. SHALL BE REBAR WITH A MINIMUM OF 3% REBAR. SHALL BE REBAR WITH A MINIMUM OF 3% REBAR. SHALL BE REBAR WITH A MINIMUM OF 3% REBAR.
- 8. SNOW PANELS: SHALL BE IDENTIFIED AS IDENTIFIED BY THE SECTION LEGEND. SHALL BE IDENTIFIED BY THE SECTION LEGEND. SHALL BE IDENTIFIED BY THE SECTION LEGEND.
- 9. SNOW PANEL COVER & ENCLOSURE SYSTEM SHALL HAVE AN APPEARANCE AND FINISH WHICH SHALL BE THE SAME AS THE FRONT COVER. SHALL BE IDENTIFIED BY THE SECTION LEGEND. SHALL BE IDENTIFIED BY THE SECTION LEGEND.
- 10. THE REBARING SYSTEM MULTIFUNCTION HAVE BEEN DESIGNED FOR LONG SERVICE LIFE. SHALL BE IDENTIFIED BY THE SECTION LEGEND.
- 11. ALL ALUMINUM IN CONTACT WITH STEEL SHALL BE ANODIZED. SHALL BE IDENTIFIED BY THE SECTION LEGEND.
- 12. ENCLOSURE RIVERS SHALL BE 50% GALV. STEEL. SHALL BE IDENTIFIED BY THE SECTION LEGEND. SHALL BE IDENTIFIED BY THE SECTION LEGEND. SHALL BE IDENTIFIED BY THE SECTION LEGEND.
- 13. SNOW PANELS SHALL HAVE A MINIMUM TENSILE STRENGTH OF 300,000 PSI. SHALL BE IDENTIFIED BY THE SECTION LEGEND. SHALL BE IDENTIFIED BY THE SECTION LEGEND.
- 14. SNOW PANELS SHALL BE IDENTIFIED BY THE SECTION LEGEND. SHALL BE IDENTIFIED BY THE SECTION LEGEND.
- 15. SNOW PANELS SHALL BE IDENTIFIED BY THE SECTION LEGEND. SHALL BE IDENTIFIED BY THE SECTION LEGEND.

