

PERMIT NO. 06-0297

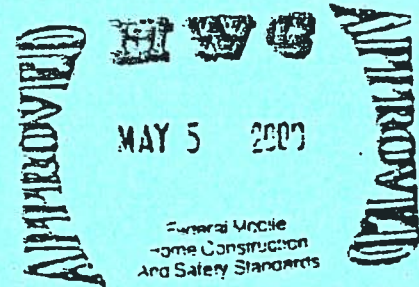
**MULTI - WIDE
SETUP MANUAL
CUST: Elliott**



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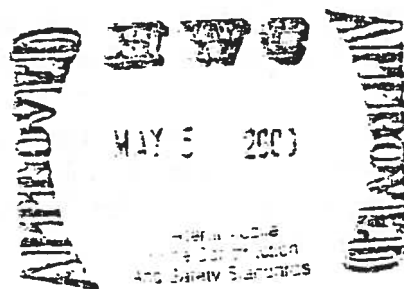
SU-M-1

TABLE OF CONTENTS

Note to the Installer.....	2
Attachments to the Home	2
Zone Maps Note	2
Zone Maps	3-4
Site Preparation	5
Lot Drainage	5
Soil Bearing Capacity	5
Thermal Design Information	5
Ventilation under Home	5
Pier and Footing Material	5
Pier Spacing	6
Typical I-Beam Blocking	6-9
Pier Height of 32 Inches or Less	10
Pier Height of 40 Inches Maximum.....	10
Pier Height of 72 Inches Maximum.....	10
Footings	11
Special Blocking and Leveling - Exterior Walls	11
Use of 2- 4"x8"x16" Pre-Cast Footing in Lieu of one 16"x16"x4" Pre-Cast Footing	11
ABS Pads.....	11
Column Blocking Requirements	12-13
Column Anchoring Requirements	13
Anchoring Installation Requirements (Near & Far Beam).....	14
Frame Tie-down.....	14-15
Sidewall and I-beam Anchor Spacing	16-17
Near Beam Anchoring System	18-19
Shearwall Labels Location.....	20
Near Beam Tie-Down Placement.....	20
Near Beam Shearwall Anchoring	21
Near Beam Marriage Wall Anchoring.....	22
Far Beam Anchoring System.....	22-23
Far Beam Typical Tie-Down Placement.....	24
Far Beam Shearwall Anchoring.....	25-26
Far Beam Marriage Wall Anchoring.....	27
Longitudinal I-Beam Anchorage	28-29
Setting and leveling The Home	30
Settling of Homes	31



Centerline Leveling and Blocking	31
Maintaining Anchoring System	31
Offset Units (Shed Roof)	32
Roof and Floor Fastening / Strapping	32
Roof Close-up	32
Tag Unit Connection	33
Electrical Requirements	34
Dryer Vent / Water Inlet Freezing Protection	35
Duct System / Crossover	35-36
Gas System	36
Gas Crossover	37
Plumbing System	37
Water System / Crossover	37-38
Cooling System Added to Home with Factory Heat	38
Field Installed Ceiling Fan	38
Field Installed Lighting	38
Fireplace Installation	39
Exterior Close-up	39
Interior Close-up	39
Interior Door Adjustment	39
Bottom Board Repair	40
Field Installed Washer and Dryer Boxes	40
Storm Protection for Windows	41-42
Roof Slope over 20° Requirements	43-45
Recess Entry / Box Bay Blocking	46
Testing Requirements	47-48



"ATTENTION"

The instructions in this manual are designed to aid experienced setup personnel with the installation procedures of homes constructed by Homes of Merit, Inc. It is not intended for the use of instructing inexperienced and/or unqualified personnel. Many states require licensing of setup personnel. Check with your local governmental agencies for requirements in your area. **Prior to the beginning any setup procedures, check the addendum pages for any changes that may have occurred to this manual.*

Special Note for homes installed in the State of Florida

Federal law requires the home producer to provide a method of installing the home. One such method is outlined in the set-up manual provided with your home. Florida State law requires the home to comply with The Department of Highway Safety and Motor Vehicles Rule 15C. This state rule mandates that all homes located within the state of Florida comply with the requirements of this document. Anytime the 15C document exceeds the requirements of this manual, the 15C guidelines are to be followed in order to comply with State of Florida Laws.

The published set-up instructions outline one method of installing a home. Any changes to the set-up instructions must be evaluated by qualified individuals.

Agencies should be familiar with the requirement of the state law and can advise you on any of the state required changes to the published set-up instructions or if any licensing requirements exist in your area.

ATTACHMENTS TO THE HOME:

Prior to the installation of any attachments to the home such as decks, carports, additions, etc., check the levelness of the floor and correct (if necessary.) All attachments must be freestanding, and in no way apply any load to the walls, roof systems, or foundation system.

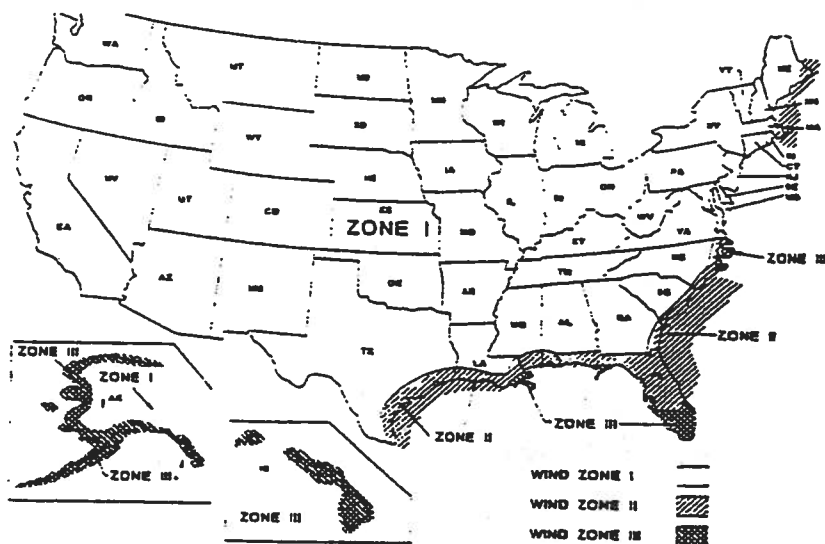
**All floor leveling conditions and/or problems arising from, or associated with, the addition or the installation procedure(s) will be the responsibility of the Homeowner.*

ZONE MAPS:

The following three Wind Zone Maps outline the different requirements for structural roof design, heating and cooling, and structural wind design. Determine the location of the home on each of the maps and compare the areas with what is shown on the Data Plate.

**The zone for which the home was designed will affect the installation requirements.*





WIND ZONE DESIGN MAP

WIND ZONE I: All areas of the United States and its Territories that are not identified on the above map as being located in either Wind Zone II or Wind Zone III.

WIND ZONE II: The following areas are deemed to be within WIND ZONE II (100 mph) of the above Basic Wind Zone Map:

FLORIDA:
all counties except:
Broward Lee
Charlotte Marion
Collier Manatee
Dade Monroe
Franklin Palm Beach
Gulf Pinellas
Hendry Sarasota

MAINE:
Hancock
Washington

TEXAS:
Aransas Kleberg
Brazoria Matagorda
Calhoun Nueces
Campan Orange
Chambers Refugio
Goliad San Patricio
Jefferson Willacy
Kenedy

ALABAMA:
Baldwin
Mobile

GEORGIA:
Bryan
Camden
Chatham
Glynn
Liberty
McIntosh

VIRGINIA:
The cities of:
Chesapeake
Norfolk
Portsmouth
Princess Anne
Virginia Beach

MASSACHUSETTS:
Barnstable
Bristol
Dukes
Nantucket
Plymouth

MISSISSIPPI:
George
Hancock
Harrison
Jackson
Pearl River
Stone

NORTH CAROLINA:
Beaufort Pender
Brunswick Perquimans
Caldwell Tyrrell
Chowan Washington
Columbus
Craven
Currituck
Jones
New Hanover
Onslow
Pamlico
Pasquotank

SOUTH CAROLINA:
Beaufort Georgetown
Berkeley Horry
Charleston Jasper
Colleton Williamsburg
Dorchester

LOUISIANA:
Acadia Livingston
Allen Pointe Coupee
Assumption St. Helena
Assumption St. James
Calcasieu St. John the Baptist
Cameron St. Landry
Davis St. Martin
East Baton Rouge
West Baton Rouge
East Feliciana West Feliciana
Evangeline St. Tammany
Iberia Tangipahoa
Iberville Vermillion
Jefferson Washington
Lafayette

WIND ZONE III: The following areas are deemed to be within WIND ZONE III (110 mph) of the above Basic Wind Zone Map:

FLORIDA:
Broward Lee
Charlotte Martin
Collier Manatee
Dade Monroe
Franklin Palm Beach
Gulf Pinellas
Hendry Sarasota

HAWAII:
The entire State

LOUISIANA:
Jefferson St. Bernard
LaFourche St. Charles
Orleans St. Mary
Plaquemine Terrebonne

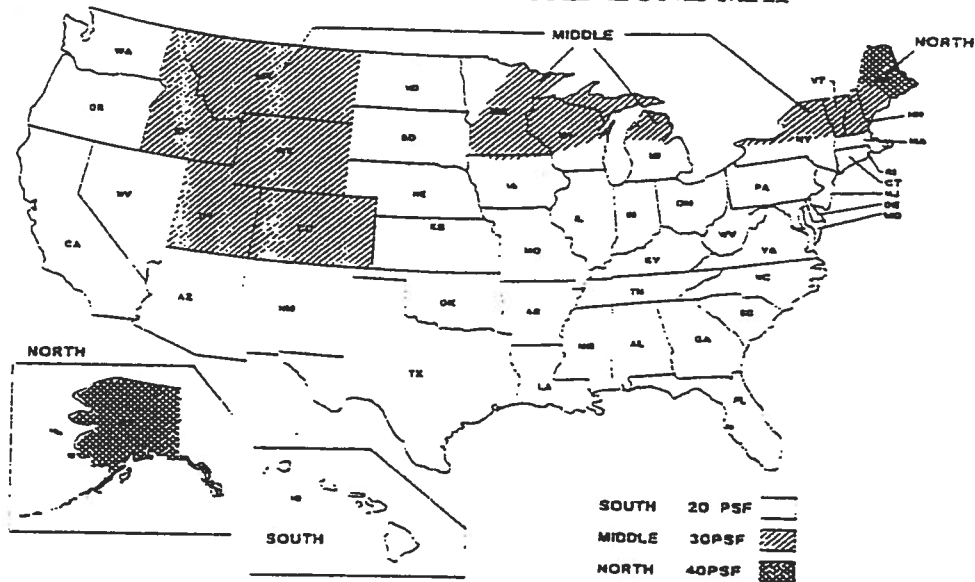
NORTH CAROLINA:
Carteret
Dare
Hyde

ALASKA:
The coastal regions of ALASKA as determined by the 90 mph isochal of the ANS/ASCE 7-88 map.

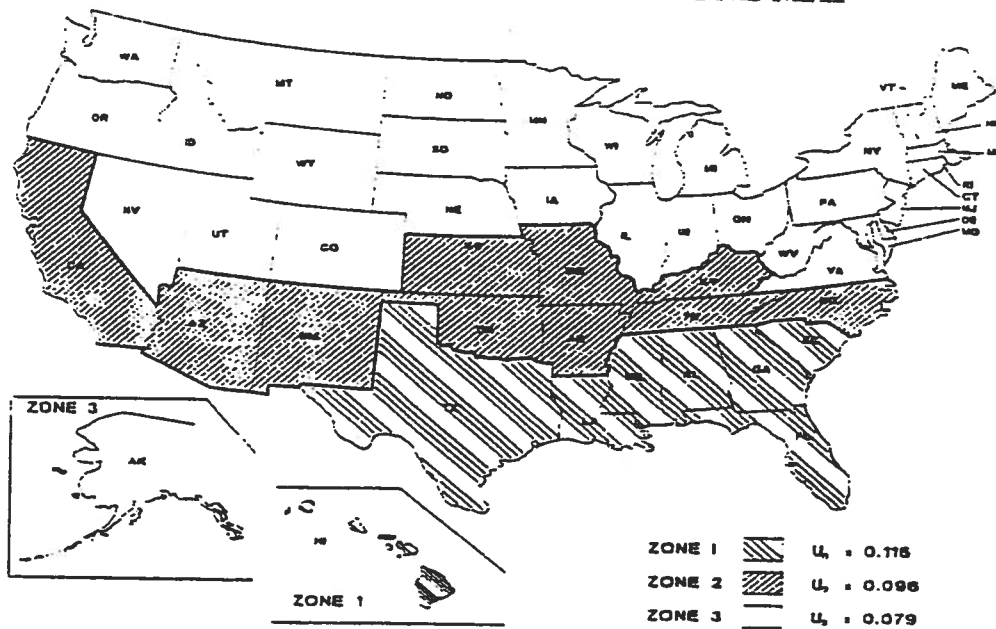
U.S. TERRITORIES:
American Samoa Puerto Rico
Guam U.S. Virgin Islands
Northern Mariana Islands
Trust Territory of the Pacific Islands



DESIGN ROOF LOAD ZONE MAP



HEATING & COOLING DESIGN ZONE MAP



SITE PREPARATION

Prior to the arrival of the home, the following items must be considered.

THERMAL DESIGN INFORMATION:

The Thermal Zone Map on page 4 divides the United States into three climatic zones. The home has been built for one or more of these zones. To determine the climatic zone for which the home was designed, refer to the Data Plate (typically located in the closet of the Master bedroom.)

**If the home was built for one particular zone, do not ship the home to a location outside of the designated geographic area.*

LOT DRAINAGE:

Clean the area under the home. It should be free of any vegetation or organic material. The grading needs to be done so water will drain away from the home and will not pool or collect.

Any water that flows under the home could result in erosion under the pad blocks and destroy the integrity of the pier system.

If the home is to be installed in an area where the ground tends to stay moist, cover the area under the home with a 4mil polyethyl sheet (or equivalent material.)

SOIL BEARING CAPACITY:

The I-Beam Blocking Tables on pages 8 and 9 reflects various Soil Bearing Capacities. If the actual Soil Bearing Capacity of the site is unknown, contact your Local Code Agency for recommended soil bearing capacity.

**Failure to comply with the correct soil bearing conditions could result in excessive settling of the home. *Contact your local Code Official to confirm the allowable soil bearing pressures in your area.*

VENTILATION UNDER HOME:

The area under the home must be properly ventilated to avoid the accumulation of moisture. It is recommended that a minimum of one square foot of clear ventilation space be provided for each 150 square foot of floor space.

The required ventilation space should be evenly spaced along the skirting. Provide an access panel, in the event it becomes necessary to gain entry under the home. The access door should be a minimum of 4 square feet with the smaller dimension of no less than 18". Check with local building officials for any other special requirements.

PIER AND FOOTING MATERIAL:

The piers are to be constructed of 8" x 8" x 16" open or closed cell blocks with a solid concrete pad acting as the footing. The thickness of the footings may vary with local requirements. It is required that the thickness of the footing be no thinner than 1/4 of the maximum dimension of the footing and no less than 4" (unless otherwise noted.) In no case should the length to width ratio of the footer exceed 2-1. All footings shall have concrete with a minimum compression strength (fc') of 2500 PSI. All piers must be centered on the footings with the long dimension of the pier parallel with the long dimension of the footing.

**See pages 10 and 11 for pier details.*

The area under the piers or footings must be free of any questionable soil or organic soil. Footing must be installed below frost line in areas where freezing and thawing occurs. Frost line depth established by local jurisdiction.



SITE PREPARATION

Prior to the arrival of the home, the following items must be considered.

THERMAL DESIGN INFORMATION:

The Thermal Zone Map on page 4 divides the United States into three climatic zones. The home has been built for one or more of these zones. To determine the climatic zone for which the home was designed, refer to the Data Plate (typically located in the closet of the Master bedroom.)

**If the home was built for one particular zone, do not ship the home to a location outside of the designated geographic area.*

LOT DRAINAGE:

Clean the area under each pier (footing). It should be free of any vegetation or organic material. The grading needs to be done so water will drain *away* from the home and will not pool or collect.

Any water that flows under the home could result in erosion under the pad blocks and destroy the integrity of the pier system.

If the home is to be installed in an area where the ground tends to stay moist, the entire area under the home should be free of any vegetation or organic material. Cover the area under the home with a 4mil polyethyl sheet (or equivalent material.)

SOIL BEARING CAPACITY:

The I-Beam Blocking Tables on pages 8 and 9 reflects various Soil Bearing Capacities. If the actual Soil Bearing Capacity of the site is unknown, contact your Local Code Agency for recommended soil bearing capacity.

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VENTILATION UNDER HOME:

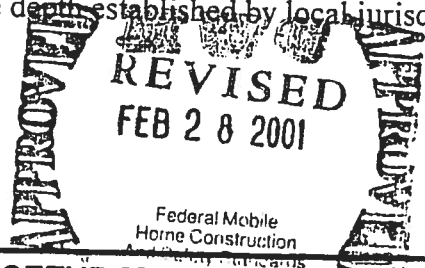
The area under the home must be properly ventilated to avoid the accumulation of moisture. It is recommended that a minimum of one square foot of clear ventilation space be provided for each 150 square foot of floor space. The required ventilation space should be evenly spaced along the skirting. Provide an access panel, in the event it becomes necessary to gain entry under the home. The access door should be a minimum of 4 square feet with the smaller dimension of no less than 18". Check with local building officials for any other special requirements.

PIER AND FOOTING MATERIAL:

The piers are to be constructed of 8" x 8" x 16" open or closed cell blocks with a solid concrete pad acting as the footing. The thickness of the footings may vary with local requirements. It is required that the thickness of the footing be no thinner than 1/4 of the maximum dimension of the footing and no less than 4" (unless otherwise noted.) In no case should the length to width ratio of the footer exceed 2-1. All footings shall have concrete with a minimum compression strength (fc') of 2500 PSI. All piers must be centered on the footings with the long dimension of the pier parallel with the long dimension of the footing.

**See pages 10 and 11 for pier details.*

The area under the piers or footings must be free of any questionable soil or organic soil. Footing must be installed below frost line in areas where freezing and thawing occurs. Frost line depth established by local jurisdiction.



PIER SPACING:

The Roof Load Maps on page 4 show three different Roof Load Zones. **The home has been designed for the South Zone only. The placement of the home in any other area is not permitted.*

Less-stable soils require larger pad sizes to maintain stability.

To determine the spacing the piers are to be set at, see tables on pages 8 and 9. The tables are based on given Soil Bearing Capacities.

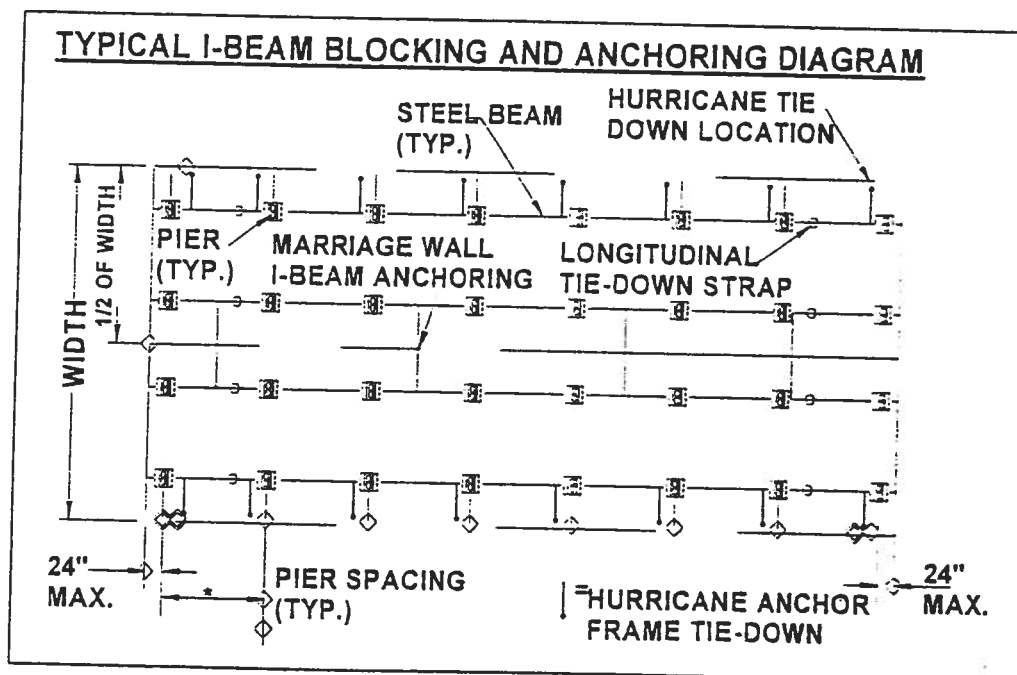
Once the maximum pier spacing is determined, place the piers along the length of the home starting a maximum of 24 inches from the front or rear and ending a maximum of 24 inches from the opposite end. The blocks are to be

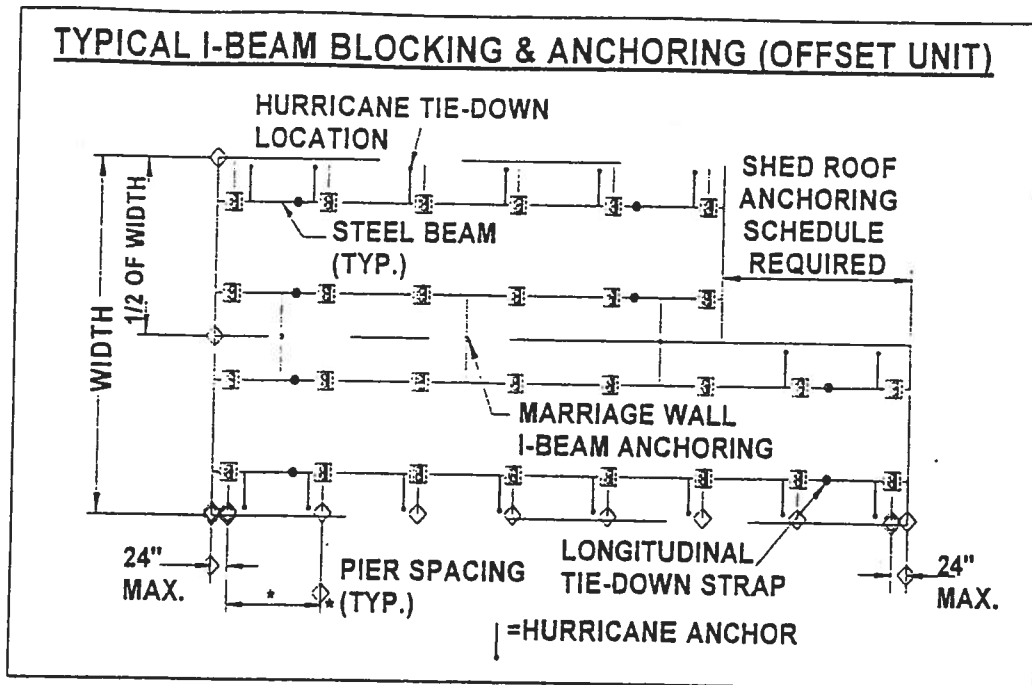
spaced along the two main I-Beam rails that run the length of the home. Perimeter blocks are required under sidewall rim joists at each end of recessed entries, floor projections, and fireplaces. Other areas prone to high local floor loads such as freezers, closets, washers, dryers, waterbeds, etc. will, also, need such blocking.

TYPICAL I-BEAM BLOCKING:

The diagram below shows a typical I-Beam Blocking and Anchoring plan for a doublewide home.

**It is to be used only as a reference for general location. *All blocking dimensions are to be determined from the Pier Spacing Tables on pages 8 and 9.*

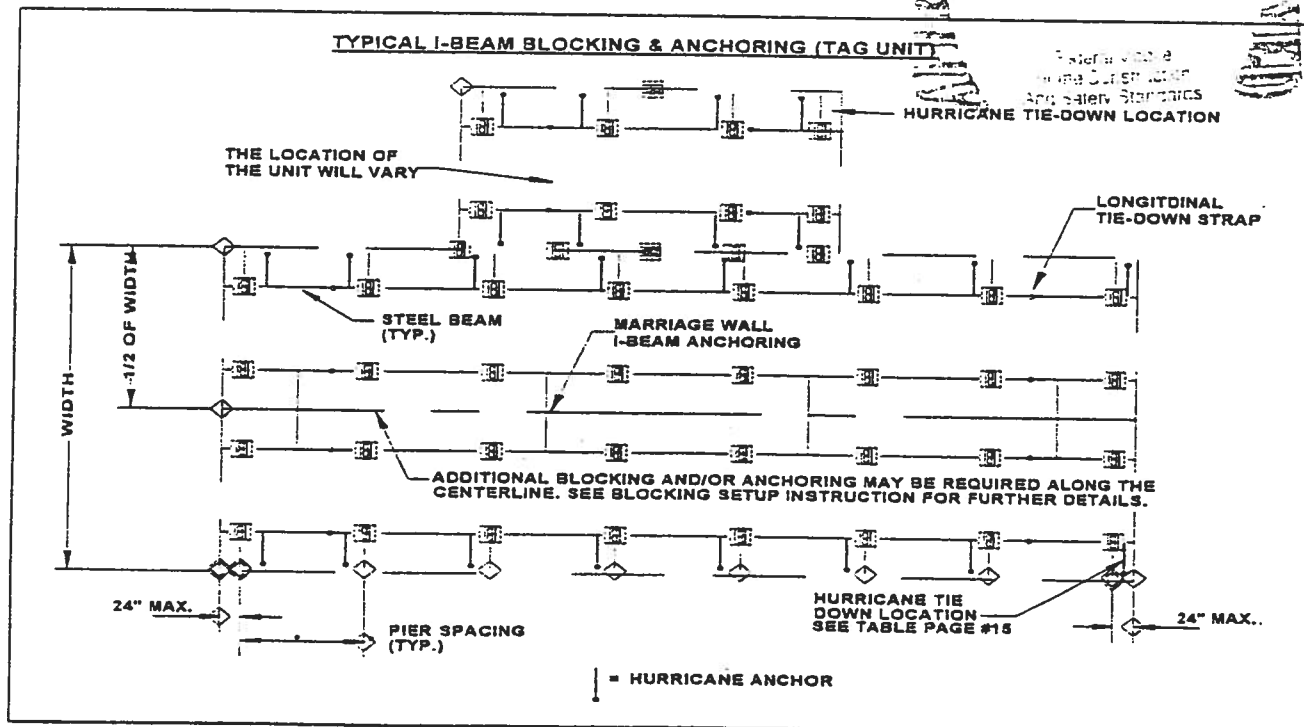


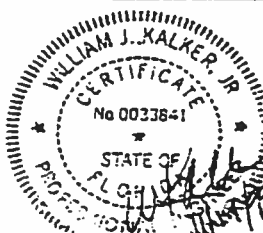



TAG UNIT HOMES:

Tag unit homes are set in the same manner as doublewide homes. Once the two larger units are set and leveled, the tag unit may be attached. The tag unit is to be attached to the floor and roof ; per details on page 33.

Blocking along the marriage line of the tag unit is done in the same as the marriage wall blocking in doublewide homes. See the diagram below for typical blocking of tag unit homes;

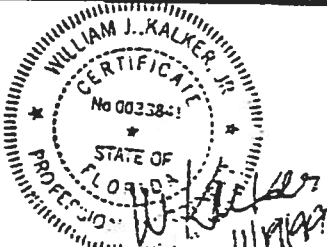



ZONE SOUTH	MAIN I-BEAM BLOCKING								
	MAX. 140" FLOOR WITH MAX. 12" O.H. (MINIMUM FOOTING AREA IN SQUARE INCHES)								
	PIER SPACING	4'-0"	5'-0"	6'-0"	7'-0"	8'-0"	9'-0"	10'-0"	
	ALLOWABLE SOIL BEARING PRESSURE IN PSF	1000	399	487	575	663	750	838	926
		1500	257	313	370	426	483	539	595
		2000	190	231	273	314	355	397	438
		2500	150	183	216	248	282	315	347
3000		125	152	178	206	233	260	288	
				Homes of Merit P.O. Box 1606 Bartow Air Base Bartow, Florida 33831		Revisions			
		Zone I		Zone II (100 MPH) Zone III (110 MPH)					
		Scale: N/A		Drawn:		Description: ANC			
		Date: 09/29/99		App'd:		Print #: ANC - 36			
						iDet: 1973			

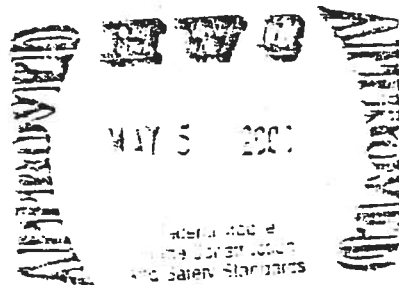
ZONE SOUTH		MAIN I-BEAM BLOCKING									
		MAX. 160" FLOOR WITH MAX. 12" O.H. (MINIMUM FOOTING AREA IN SQUARE INCHES)									
		PIER SPACING	4'-0"	5'-0"	6'-0"	7'-0"	8'-0"	9'-0"	10'-0"		
		ALLOWABLE SOIL BEARING PRESSURE IN PSF	1000	443	541	639	738	836	935	1034	
			1500	284	348	411	474	538	602	665	
			2000	210	256	304	350	396	444	490	
			2500	166	204	240	277	314	351	388	
			3000	138	168	199	229	260	290	321	
		Homes of Merit		P.O. Box 1606		Bartow Air Base		Bartow, Florida 33831		Revisions	
		Zone I		Zone II (100 MPH)		Zone III (110 MPH)					
Scale: N/A		Drawn:		Description: ANC		160" FL I-BEAM BLOCKING		Date: 1993			
Date: 09/29/99		App'd:		Print:		ANC - 37					

REF. CALC # 223 DEC 29 1999



ZONE SOUTH		MAIN I-BEAM BLOCKING								
		MAX. 184" FLOOR WITH MAX. 12" O.H. (MINIMUM FOOTING AREA IN SQUARE INCHES)								
		PIER SPACING	4'-0"	5'-0"	6'-0"	7'-0"	8'-0"	9'-0"	10'-0"	
		ALLOWABLE SOIL BEARING PRESSURE IN PSF	1000	494	605	716	827	939	1050	1162
1500	318		389	460	532	604	675	747		
2000	234		287	339	392	445	497	550		
2500	186		228	269	311	353	394	436		
3000	154		188	223	257	292	326	361		
						Homes of Merit P.O. Box 1806 Bartow Air Base Bartow, Florida 33831			<u>Revisions</u>	
						Zone I Zone II (100 MPH) Zone III (110 MPH)				
						Scale: N/A Drawn: Description: ANC 184" FL I-BEAM BLOCKING				
Date: 09/29/99 App'd: Print #: ANC-40 Det: 1917										

REF. CALC # 1 DEC 23 1999

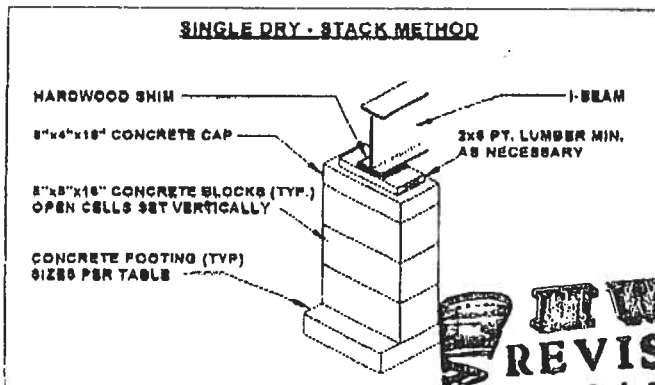


"ATTENTION"

The tables, charts, and other details in this manual must be used and followed to ensure proper installation of the home.

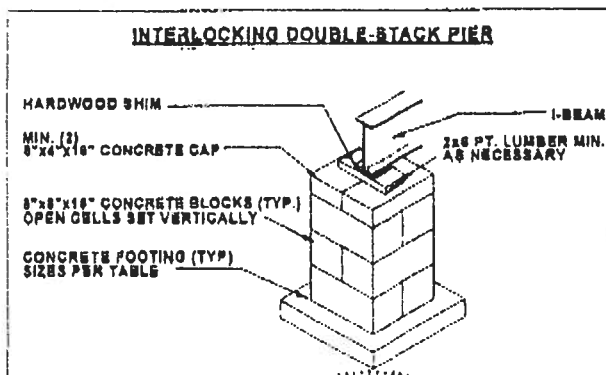
PIER HEIGHT OF 36 INCHES OR LESS:

A single stack of 8" x 8" x 16" open or closed cell concrete block must be used in a dry stack form so as not to exceed a maximum height of 36" from grade.



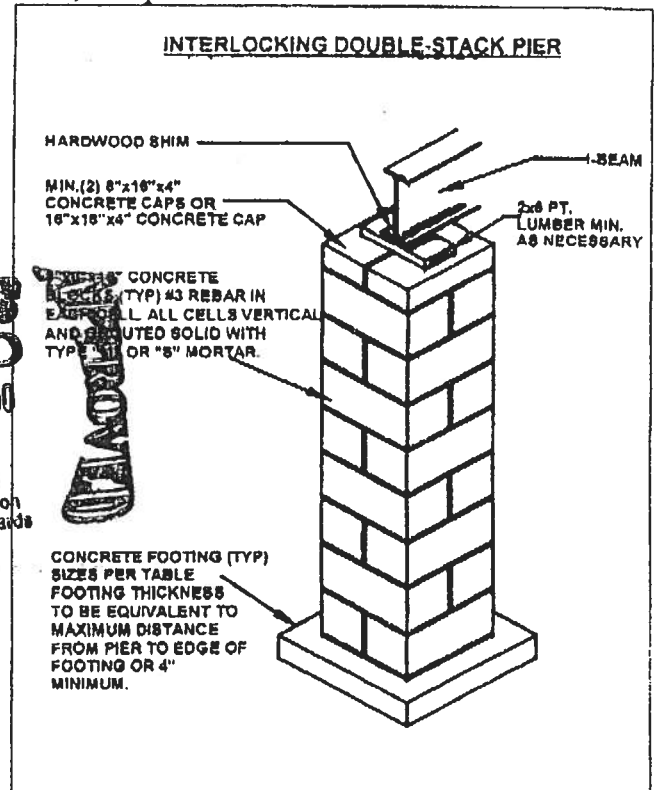
PIER HEIGHT OF 60 INCHES MAXIMUM:

In areas requiring a pier height greater than 36" and max. 60" from finish grade use a double stack of 8" x 8" x 16" open or closed cell concrete block.



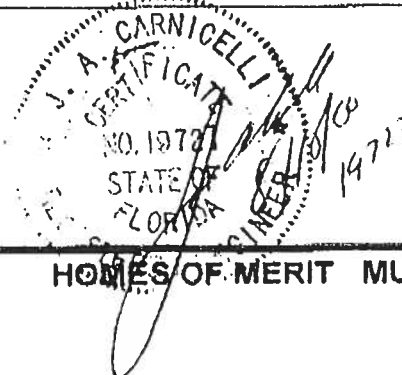
PIER HEIGHT OVER 60 INCHES AND MAXIMUM 80 INCHES:

In areas requiring a pier height greater than 60" and max. 80" from finish grade use a double stack of 8" x 8" x 16" open cell concrete block set with mortar, reinforced with steel reinforcing bar, and poured solid with concrete.



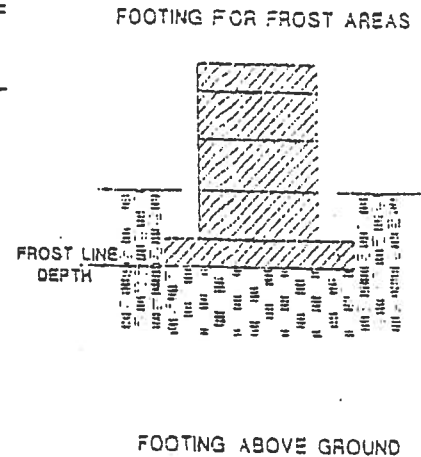
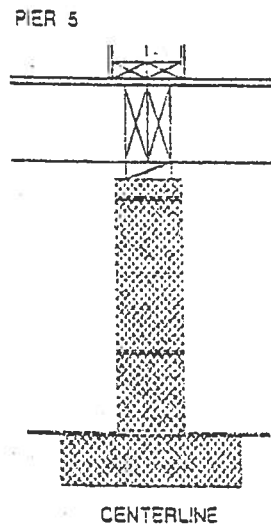
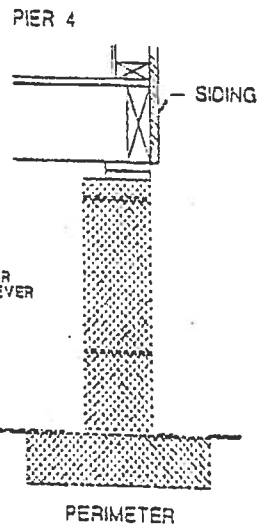
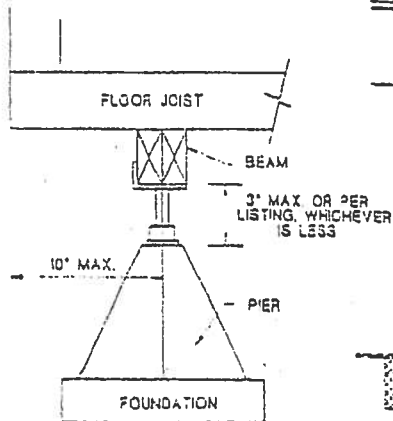
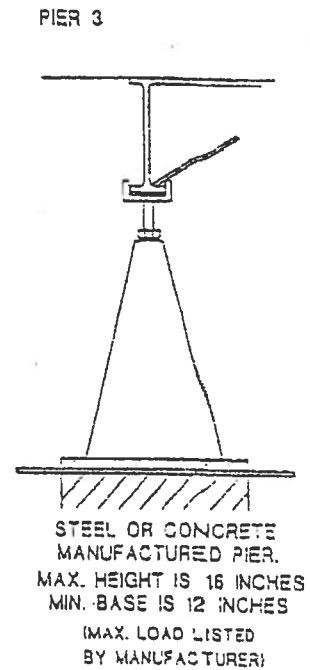
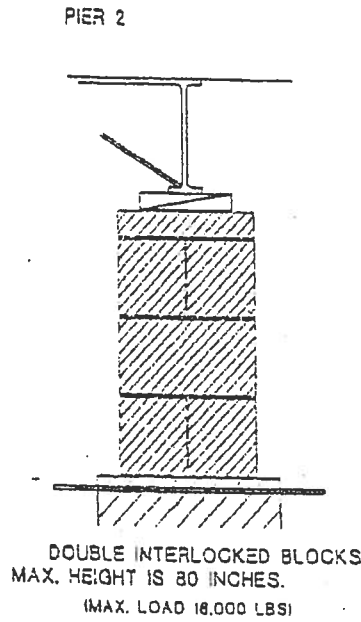
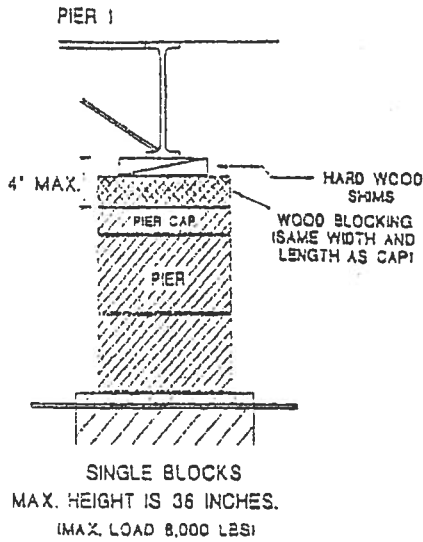
SPECIAL BLOCKING AND LEVELING EXTERIOR WALLS:

The home will have special blocking requirements at all recess entries, exterior door openings, walk-in bay windows, bed bays, etc. All such blocking requires leveling and adjustment, and is considered part of the normal setup procedure. See the following diagrams for the locations and blocking requirements. See table on page 11 for required footing at sidewall openings. **Any opening in sidewall greater than 48" requires perimeter blocking.*



HOMES OF MERIT

TYPICAL FOOTING AND PIER INSTALLATION

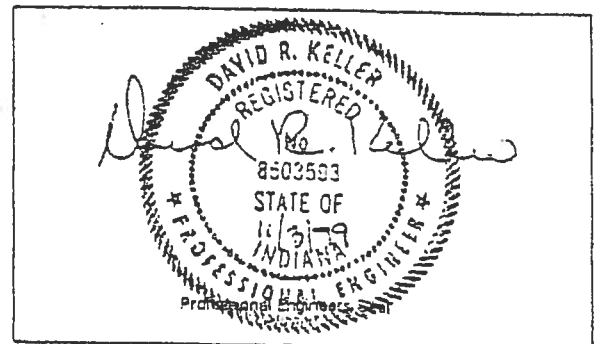
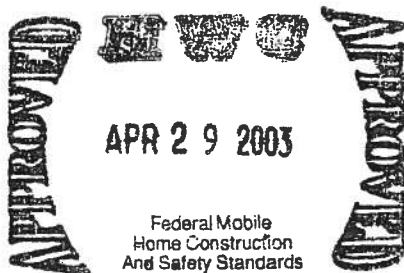


STEEL OR CONCRETE MANUFACTURED PIERS.

1. A BEAM OF (2) SPF #3 2X8X24" IS TO BE PLACED ON THE ADJUSTING SCREW AND SHALL BARE ON (2) FLOOR JOISTS.
2. PIERS ARE TO BE LOCATED NOT MORE THAN 48" ON CENTER AND 10" FROM THE EDGE OF THE FLOOR.
3. FOOTING SHALL BE SIZED FOR A PIER CAPACITY OF 2500 POUNDS.

SELECT MANUFACTURED PIER HEIGHTS SO THAT THEIR ADJUSTABLE RISERS DO NOT EXTEND MORE THAN 3 INCHES WHEN AT THEIR MAXIMUM HEIGHT.

ALL CONCRETE BLOCKS SHALL BE ASTM C.90.GRADE N MIN.

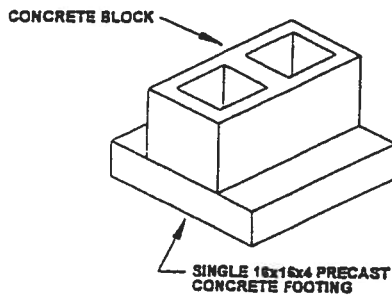


NOTE

Two 4"x8"x16" solid pre-cast footings may be used as an equal replacement for a single 16"x16"x4" pre-cast footing. All other requirements of the installation remain in effect. This detail pertains only to the use of Two 4"x8"x16" solid pre-cast footings in lieu of a single 16"x16"x4" pre-cast footing.

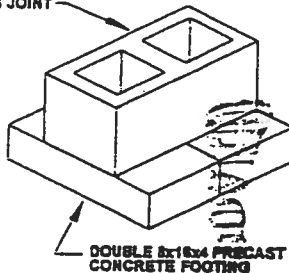
ABS pads may be used to replace Pre-cast Concrete Footings provided they are listed for use with Manufactured Homes and meet all design load requirements as specified in this manual and must comply with any local or state approval requirements.

SINGLE 16x16x4 FOOTING (256sq or 1.778sf)



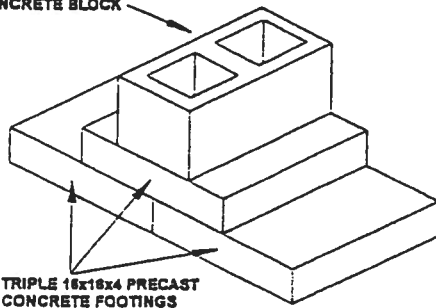
DOUBLE 8x16x4 FOOTING (256sq or 1.778sf)

PLACE CONCRETE BLOCKS PERPENDICULAR TO FOOTING JOINT

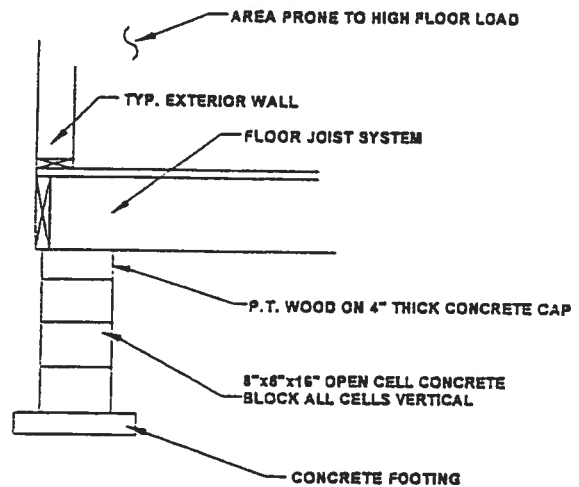


TRIPLE 16x16x4 FOOTING (512sq or 3.556sf)

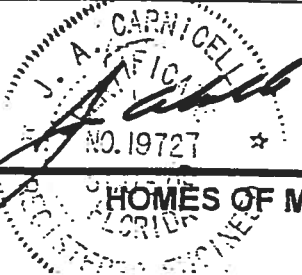
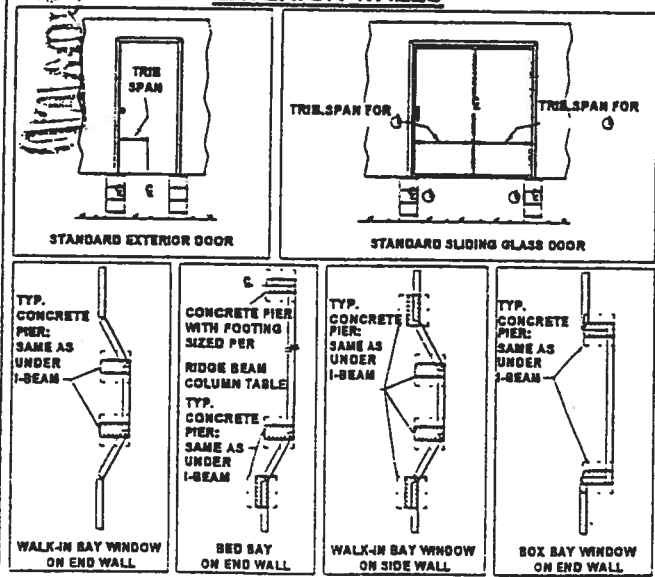
CONCRETE BLOCK



TYPICAL BLOCKING DETAIL IN AREA OF HIGHER FLOOR LOAD

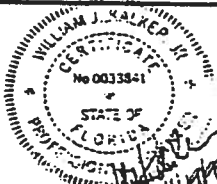



SPECIAL BLOCKING AND LEVELING EXTERIOR WALLS



COLUMN BLOCKING:

All openings along the center line of the home four foot (4'-0") or greater will be required to be supported at the floor. The table below will provide the numerous footing sizes required for the various floor widths and soil bearing conditions. Spans of 4'-0" or less will not require ground anchors. However, spans greater than 4'-0" must be anchored.

ZONE SOUTH															
MARRIAGE WALL/COLUMN BLOCKING 140" FLOOR															
REQUIRED FOOTING AREA IN SQUARE INCHES **															
TRIB. SPAN *	4'	6'	8'	10'	12'	14'	16'	18'	20'	22'	24'	26'	28'	30'	
ALLOWABLE SOIL BEARING PRESSURE IN PSF	1000	160	216	273	329	384	440	496	553	608	664	720	776	832	888
	1500	103	140	175	212	247	283	319	355	392	427	463	499	535	572
	2000	78	103	129	156	183	209	235	262	288	315	342	368	394	421
	2500	61	82	103	123	144	165	186	208	229	249	270	291	312	334
	3000	50	68	85	102	119	137	155	172	189	206	224	242	258	276
* TRIB SPAN: ONE HALF THE TOTAL OPEN SPAN BETWEEN COLUMNS IN MARRIAGE WALLS.															
** REQUIRED FOOTING AREA IS FOR ONE HALF OF DOUBLE WIDE ONLY. IF COLUMNS ALIGN ON BOTH HALVES, REQUIRED TRIB. SPANS MUST BE ADDED TOGETHER.															
		 Homes of Merit P.O. Box 1608 Bartow Air Base Bartow, Florida 33831		Revisions											
				11/10/99											
Zone I		Zone II (100 MPH)		Zone III (110 MPH)											
Scale: N/A		Drawn:		Description: COL											
Date: 01/28/00		Approved:		140" BLOCKING FLOOR											
				Printed: ANC - 35 Dec: 01											

ZONE SOUTH																	
MARRIAGE WALL/COLUMN BLOCKING 160' FLOOR																	
REQUIRED FOOTING AREA IN SQUARE INCHES **																	
TRIB. SPAN *	4'	6'	8'	10'	12'	14'	16'	18'	20'	22'	24'	26'	28'	30'			
ALLOWABLE SOIL BEARING PRESSURE IN PSF	1000	178	241	305	368	433	497	561	625	688	753	817	881	945	1009		
	1500	114	155	196	237	278	320	361	402	443	484	525	566	608	649		
	2000	84	114	145	175	205	235	266	296	327	357	387	417	448	478		
	2500	66	90	114	139	163	187	211	235	259	283	307	331	355	379		
	3000	55	75	95	114	135	155	174	194	214	234	254	274	293	314		
* TRIB SPAN: ONE HALF THE TOTAL OPEN SPAN BETWEEN COLUMNS IN MARRIAGE WALLS.																	
** REQUIRED FOOTING AREA IS FOR ONE HALF OF DOUBLE WIDE ONLY. IF COLUMNS ALIGN ON BOTH HALVES, REQUIRED TRIB. SPANS MUST BE ADDED TOGETHER.																	
<div>11/10/99</div>		<div>WILLIAM J. WALKER, JR. CERTIFICATE No 003384-1 STATE OF FLORIDA 11/10/99</div>					<div>Homes of Merit P.O. Box 1808 Bartow Air Base Bartow, Florida 33831</div>			<div>Revisions</div> <table><tr><td>11/10/99</td><td></td></tr><tr><td></td><td></td></tr></table>				11/10/99			
11/10/99																	
Zone I		Zone II (100 MPH)					Zone III (110 MPH)										
Scale: N/A		Drawn:					Description: ANC			160" BLOCKING FLOOR							
Date: 01/28/00		Approved:					Printed:			ANC - 36							
										Rev: 1913							

REF. CALO # 2 & 3 DEC 28 1994

ZONE SOUTH

REF. CALC # 1 DEC 28 1999

MARRIAGE WALL/COLUMN BLOCKING 184" FLOOR

REQUIRED FOOTING AREA IN SQUARE INCHES **

TRIB. * SPAN	4'	6'	8'	10'	12'	14'	16'	18'	20'	22'	24'	26'	28'	30'
ALLOWABLE SOIL BEARING PRESSURE IN PSF	1000	198	269	343	417	490	554	637	712	785	858	932	1006	1079
	1500	126	173	221	268	315	363	410	457	505	552	598	647	694
	2000	93	128	163	197	232	268	303	337	372	407	442	476	511
	2500	73	102	129	157	184	212	239	257	294	322	349	378	405
	3000	52	84	107	130	153	175	198	221	244	266	289	313	336

- * TRIB SPAN: ONE HALF THE TOTAL OPEN SPAN BETWEEN COLUMNS IN MARRIAGE WALLS.
- ** REQUIRED FOOTING AREA IS FOR ONE HALF OF DOUBLE WIDE ONLY, IF COLUMNS ALIGN ON BOTH HALVES, REQUIRED TRIB. SPANS MUST BE ADDED TOGETHER.



Homes of Merit
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Barlow, Florida 32831

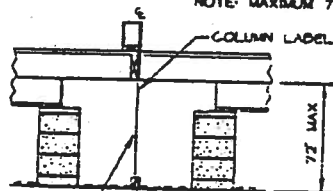
Revisions

Zone I	Zone II (100 MPH)	Zone III (110 MPH)
Scale: N/A	Drawn: [Signature]	Description: ANC
Date: 04/26/99	App'd: [Signature]	184" BLOCKING - 1002
		Point: ANC-37 Det: 191

COLUMN ANCHORING REQUIREMENTS MAXIMUM COLUMN TRIBUTARY SPAN GROUND ANCHOR 3150# DESIGN LOAD

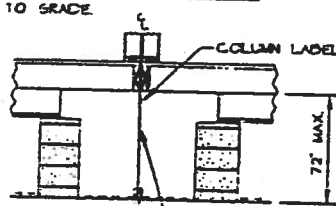
CASE	SPAN ON	ZONE	140'	60	184'
CASE 1	SPAN ON 1/2 OF HOME	I 15 PSF	720	720	5475
		II 100 MPH	2842	2487	2102
		III 110 MPH	2250	1907	1712
CASE 2	SPAN ON BOTH HALVES OF HOME	I 15 PSF	THE SUM OF THE SPANS FOR BOTH HALVES CANNOT EXCEED THE CASE 1 SPANS NOTED ABOVE.		
		II 100 MPH			
		III 110 MPH			

NOTE: MAXIMUM 72" FROM JOIST TO GRADE



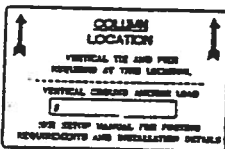
SINGLE COLUMN ANCHOR
SPAN ON HALF 1 SEE
SLING STRAP DETAIL
DRAWING 1 ANC-DT-11

COLUMN LOCATED ON ONE HALF
CASE 1

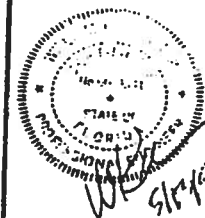


DOUBLE STRAP
TWO COLUMN ANCHOR
ON ONE ANCHOR SEE
STRAP DETAIL DRAWING
1 ANC-DT-11

COLUMN LOCATED ON BOTH HALVES
AND ALIGNED WITH EACH OTHER
CASE 2



NOTE: ALL ANCHORING REQUIREMENTS BASED ON 3150#
ANCHOR DESIGN LOAD CAPACITY



Homes of Merit
P.O. Box 1608
Barlow Air Base
Barlow, Florida 32831

Zone I Zone II (100 MPH)
Zone III (110 MPH)

Revisions

04/27/99	Drawn: [Signature]	Description: ANC
05/14/99	App'd: [Signature]	COLUMN ANCHORING REQUIREMENTS
		Point: ANC-DT-5 Det: 137

REF. CALC. NO. 1 APRIL 26, 1999



SIDEWALL OPENING TRIB SPAN (FEET)	SOUTH ZONE FOOTING AT SIDEWALL OPENING MAX. 12" OVERHANG														
	REQUIRED FOOTING AREA IN SQUARE INCHES														
	MAX. 12" OVERHANG 140" FLOOR WIDTH PSF SOIL BEARING					MAX. 12" OVERHANG 160" FLOOR WIDTH PSF SOIL BEARING					MAX. 12" OVERHANG 184" FLOOR WIDTH PSF SOIL BEARING				
	1000	1500	2000	2500	3000	1000	1500	2000	2500	3000	1000	1500	2000	2500	3000
	4'	179	115	86	67	56	196	126	93	73	62	215	139	103	81
6'	245	158	116	92	76	269	173	128	102	84	298	192	142	112	93
8'	311	200	148	117	97	343	221	163	129	107	382	246	181	143	118
10'	376	243	178	141	117	417	268	197	157	130	465	298	220	174	144
12'	442	284	210	166	137	490	315	232	184	153	548	352	259	206	170
14'	507	326	241	191	158	564	363	268	212	175	632	406	299	237	196
16'	573	369	272	215	178	637	410	303	239	198	714	459	338	268	222
18'	638	411	303	240	198	712	457	337	267	221	797	513	378	299	248
20'	704	453	334	264	219	785	505	372	294	244	881	566	417	331	274

REF. CALC # 1-3 DEC 23 1999

407 5 200

Home Construction And Safety Standards

CERTIFICATE
No 0013841
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

HOMES OF MERIT
P.O. Box 1808
Barlow Air Base
Barlow, Florida 33830

Zone I Zone II (100 MPH)
Zone III (110 MPH)

Revisions

Scale: N/A Drawn:
Date: 0/04/99 App'd:
Description: ANCHORING AT SIDEWALL
OPENING 12" DIA
Print: ANCH - 14 Date: 9/91

ANCHOR INSTALLATION REQUIREMENTS

The anchoring system for the home is designed as a NEAR BEAM or as a FAR BEAM application. Many times the design limitations will require the home to be installed using the only FAR BEAM method. Anytime the FAR BEAM method is required on a home located in Florida, an aftermarket hurricane strap to main I-Beam attachment device must be purchased.

These devices are readily available at local manufactured home supply outlets.

It is important to check the vertical and main I-Beam diagonal tie down spacing requirements on the enclosed tables to assure proper spacing and code compliance.

Please note: The installation requirements will vary between the NEAR BEAM and FAR BEAM set-up. Please take care to assure that the proper instructions are being followed.

FRAME TIE DOWN:

The map on page 3 show three areas designated as Wind Zone I, Wind Zone II, and Wind Zone III. Determine the location of the home and use, for reference, the appropriate columns within the tables.

The Foundation System and the Hurricane Anchoring System work together to resist the sliding and overturning of loads often experienced during high winds. There are many types of anchoring systems available on the market. Ground type anchors are the most commonly used method to secure the homes. Consult with the home dealer or a licensed setup company for their recommendations. See page 15 for a detail of a typical installation.

The anchors and strapping materials are not provided; however, they may be purchased from a variety of companies. The Vertical Tie-Down



shown in the Sidewall Tie-Down detail on pages 20 and 24 is not required for homes in Wind Zone I.

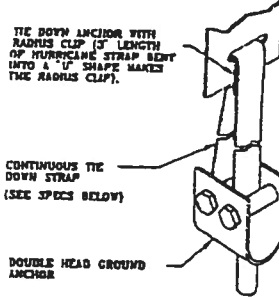
Homes of Merit, Inc. requires that all homes must be anchored. Failure to comply would endanger the safety and security of the occupants and could result in excessive wind

damage to the home. The Tie-Downs outlined in the following tables page 16 and 17 are the minimum number required to maintain the stability of the home during the designated wind conditions. These tables assume that the Tie-Downs are spaced no more than 2'-0" from each end wall and at given strap angles.

ATTENTION

All Tie-Down Straps and connecting hardware must be certified by a professional engineer or a recognized testing laboratory to adequately support a 3150 pound allowable load minimum (ultimate load 4725 pound minimum) and/or comply with ASTM D3953-91. All Ground Anchors must be certified by a professional engineer or a recognized testing laboratory to adequately support a 3150 pound allowable load minimum (ultimate load 4725 pound minimum) when loaded parallel with the anchor shaft and at a 45° angle from the anchor shaft.

TYPICAL CONNECTIONS FOR MAXIMUM PIER HEIGHT OF 40" & 72"



TIE DOWN ANCHOR WITH RADIUS CLIP (3" LENGTH OF HURRICANE STRAP BENT INTO A "U" SHAPE MAKES THE RADIUS CLIP).

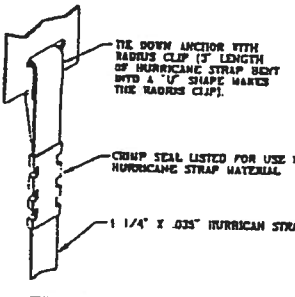
CONTINUOUS TIE DOWN STRAP (SEE SPECS BELOW)

DOUBLE HEAD GROUND ANCHOR

SLING STRAP METHOD MAY BE USED FOR DESIGN LOADS UP TO 10000

SLING STRAP DETAIL *

- USE THIS METHOD ON SHEARWALL ANCHORS AND VERTICAL ANCHORS ON WIND WALL OPENING STUDS.



TIE DOWN ANCHOR WITH RADIUS CLIP (3" LENGTH OF HURRICANE STRAP BENT INTO A "U" SHAPE MAKES THE RADIUS CLIP).

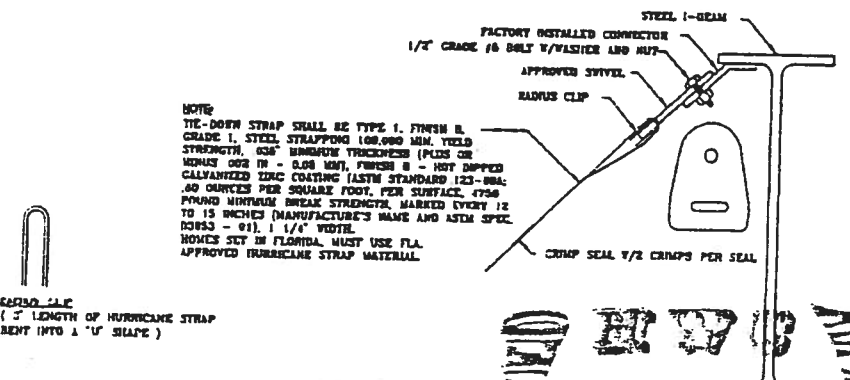
CRIMP SEAL LISTED FOR USE WITH HURRICANE STRAP MATERIAL

1 1/4" x .035" HURRICANE STRAP

CRIMP METHOD IS TO BE USED ONLY WHEN REQUIRED DESIGN LOADS IS 10000 OR LESS.

CRIMP DETAIL **

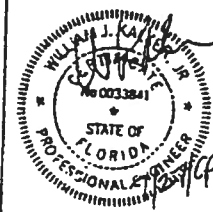
- USE THIS METHOD ON SIDEWALL VERTICAL TIE-DOWNS AND/OR CLEER SP-10 ANCHORS.



NOTE: TIE-DOWN STRAP SHALL BE TYPE 1, FRESH B, GRADE 1, STEEL STRAPPING (100,000 MIN. YIELD STRENGTH), .035" MINIMUM THICKNESS (PLUS OR MINUS .002 IN - 0.08 IN), FINISH B - HOT DIPPED GALVANIZED ZINC COATING (ASTM STANDARD 123-88A: .60 OUNCES PER SQUARE FOOT, PER SURFACE, 4750 POUNDS MINIMUM BREAK STRENGTH, MARKED EVERY 12 TO 15 INCHES (MANUFACTURER'S NAME AND ASTM SPEC. D3953 - 91), 1 1/4" WIDTH. HOMES SET IN FLORIDA, MUST USE F.L.A. APPROVED HURRICANE STRAP MATERIAL.

CRIMP SEAL 1/2 CRIMPS PER SEAL

HURRICANE STRAP CONNECTION DETAILS FOR BOTH NEAR AND FAR BEAM DESIGN METHODS.



APPROVED

REVISED

AUG 16 1999

Federal Mobile Home Construction And Safety Standards

Homes of Merit

P.O. Box 1006
Barlow Air Base
Barlow, Florida 33831

Revisions	
5/13/99	
7/13/99	

Scale	Drawn
N/A	
Date	App'd
0/02/97	
Description: ANC	
TIE DOWN DETAILS FOR WIDE	
Print: 4	Det: 1378
ANC - DT - 13	



Vertical Sidewall and Diagonal Main I-Beam Anchor Spacing For:

Near Beam and Far Beam

- * represents Near Beam Spacing
** represents Far Beam Spacing

Note:

- 1) In Florida The Maximum Vertical and Diagonal Main I-Beam Tie-Down can not exceed 5'-4" regardless of the spacing indicated on the table.
- 2) Shearwall Vertical Anchor locations do not require a Diagonal Main I-Beam connection.

DOUBLE WIDE SIDEWALL HURRICANE ANCHOR SPACING							
I-BEAM SPACED AT 15' V2'				WITH ROOF SLOPE LESS THAN 20°			
WALL HEIGHT 90°				PIER HEIGHT 24' TO 40'			
FLOOR WIDTH	SIDEWALL OVERHANG	ZONE I 15 PSII		ZONE II 100 MPH		ZONE III 110 MPH	
		ANCHOR *		ANCHOR *		ANCHOR *	
		SPACING	ANGLE	SPACING	ANGLE	SPACING	ANGLE
140'	0'	14'	0	8.25'	0	6.25'	0
150'	0'	16'	0	9.75'	0	7.0'	0
154'	0'	16'	0	10.25'	0	8.0'	0

DOUBLE WIDE SIDEWALL HURRICANE ANCHOR SPACING							
I-BEAM SPACED AT 15' V2'				WITH ROOF SLOPE LESS THAN 20°			
WALL HEIGHT 90°				PIER HEIGHT 40' TO 72'			
FLOOR WIDTH	SIDEWALL OVERHANG	ZONE I 15 PSII		ZONE II 100 MPH		ZONE III 110 MPH	
		ANCHOR *		ANCHOR **		ANCHOR **	
		SPACING	ANGLE	SPACING	ANGLE	SPACING	ANGLE
140'	0'	7.5'	0	8.25'	20°	6.25'	20°
150'	0'	10'	0	9.75'	20°	7.0'	20°
154'	0'	16'	0	10.25'	20°	8.0'	20°

- * NEAR BEAM METHOD
- ** FAR BEAM METHOD

SEE OTHER DRAWINGS FOR MARRIAGE WALL FRAME TIEDOWN SPACINGS.

PIER HEIGHT = DISTANCE FROM GROUND TO TOP OF STEEL BEAM

NOTE:

1. GROUND ANCHORS TO BE APPROVED FOR 3150# DESIGN LOAD AT 45° AND 350# AT VERTICAL.
2. FOR WIND ZONE II 100 MPH AND WIND ZONE III 110 MPH VERTICAL TIE IS REQUIRED AT EACH DIAGONAL FRAME TIE.
3. FOR OFFSET UNITS, PORCHES, SHED ROOF ETC. SEE SINGLE WIDE GROUND ANCHOR SPACING FOR WALL HEIGHT AND FLOOR WIDTH CONDITIONS.
4. FOR CONNECTION REQUIREMENTS SEE DRAWING ANC-DT-1

REF. CALC. NO. 1 APRIL 26, 1999

APPROVED

MAY 5 2000

Federal Wildlife
Recreation
State Standards

CERTIFICATE
No. 0003341
STATE OF
FLORIDA
Professional Engineer
W. J. RACKER, JR.
5/13/99

Homes of Merit
P.O. Box 1804
Bartow Air Base
Bartow, Florida 33831

Zone I	Zone II (100 MPH)	Zone III (110 MPH)
Revisions		
07/20/96		
04/28/99		
Scale	N/A	Revised
Date	03/24/98	Approved
Description	ANCHOR ROOF SLOPE < 20° DOUBLE WIDE "0"	
Drawn By	ANC-DT-2	Check By



EXPOSURE "D"

1. GROUND ANCHORS TO BE APPROVED FOR 3150# DESIGN LOAD AT 45° AND 4000# AT VERTICAL.
2. FOR WIND ZONE II (100 MPH) AND WIND ZONE III (110 MPH) VERTICAL TIE IS REQUIRED AT EACH DIAGONAL FRAME TIE.
3. FOR OFFSET UNITS, PORCHES, SHED ROOF ETC. SEE SINGLE WIDE GROUND ANCHOR SPACING FOR WALL HEIGHT AND FLOOR WIND CONDITIONS.
4. FOR CONNECTION REQUIREMENTS SEE DRAWING ANC-DT-3
5. WHEN GROUND ANCHOR EXCEEDING 3150 # DESIGN LOAD CANNOT BE PURCHASED LOCALLY, THE DOWN SYSTEM MUST BE DESIGNED BY OTHERS.

REF. CALC. NO. 1 APRIL 26, 1999


Flowers of Liberty
P.O. Box 1000
Bartlett Air Base
Bartlett, Florida 32831

Zone I	Zone II (100 MPH)	Zone III (110 MPH)
Revisions		
Scale: N/A	Drawing:	
Date: 04/27/79	App'd:	
Description:	ANC	
ROOF FLORE TO C DOUBLE		
WIDE TO EXPOSURE D		
Drawn by:	UNC-DT-3 Unitless	

SINGLE WIDE HURRICANE ANCHOR SPACING (FT)							
1-INCH SPACED AT " 1/2"				SHED ROOF			
WALL HEIGHT 108"				WITH ROOF SLOPE LESS THAN 20°			
AND MAX. 24" KING POST				PIER HEIGHT 24" TO 40"			
FLOOR WIDTH	SIDEWALL OVERHANG	ZONE I (15 PSF)		ZONE II (100 MPH)		ZONE III (100 MPH)	
		ANCHOR	ANCHOR	ANCHOR	ANCHOR	ANCHOR	ANCHOR
		SPACING	ANGLE	SPACING	ANGLE	SPACING	ANGLE
140"	12"	7.75'	0	7.25'	20°	6'	20°
160"	12"	9'	0	7'	20°	6'	20°
184"	12"	10'	0	7'	20°	5.75'	20°

1. GROUND ANCHORS TO BE APPROVED FOR 3500 DESIGN LOAD AT 45° AND 3500 AT VERTICAL
2. FOR WIND ZONE II 100 WPH AND WIND ZONE III 110 WPH VERTICAL TIE IS REQUIRED AT EACH DIAGONAL FRAME TIE
3. FOR OFFSET UNITS, PORCHES, SHED ROOF ETC. SEE SINGLE WIDE GROUND ANCHOR SPACING FOR WALL HEIGHT AND FLOOR WIDTH CONDITIONS.
4. FOR CONNECTION REQUIREMENTS SEE DRAWING ANG-S-1

REF. CALC. NO. 1 APRIL 26, 1999

<div style="text-align: center;">  <p>STATE OF FLORIDA PROFESSIONAL ENGINEER No. 00011441 J. PALANP</p> </div>	
<div style="text-align: center;"> <p>Office of North P.O. Box 1608 Sarasota, Florida 33571</p> </div>	
<div style="text-align: center;"> <p>Zone 1 Zone 2 (100 MPH) Zone 3 (110 MPH)</p> </div>	
<p>Revisions</p>	
02/21/76	
04/26/77	
03/14/77	
<p>Scale Drawn</p> <p>N/A [Signature]</p>	<p>Date App'd</p> <p>03/24/76 [Signature]</p>
<p>Description: AKC</p> <p>ROOF SLOPE 00</p> <p>SINGLE WIDE 00</p>	
<p>Printed AKC - ST - 3</p>	<p>Sheet 1 of 1</p>



NEAR BEAM ANCHORING SYSTEMS

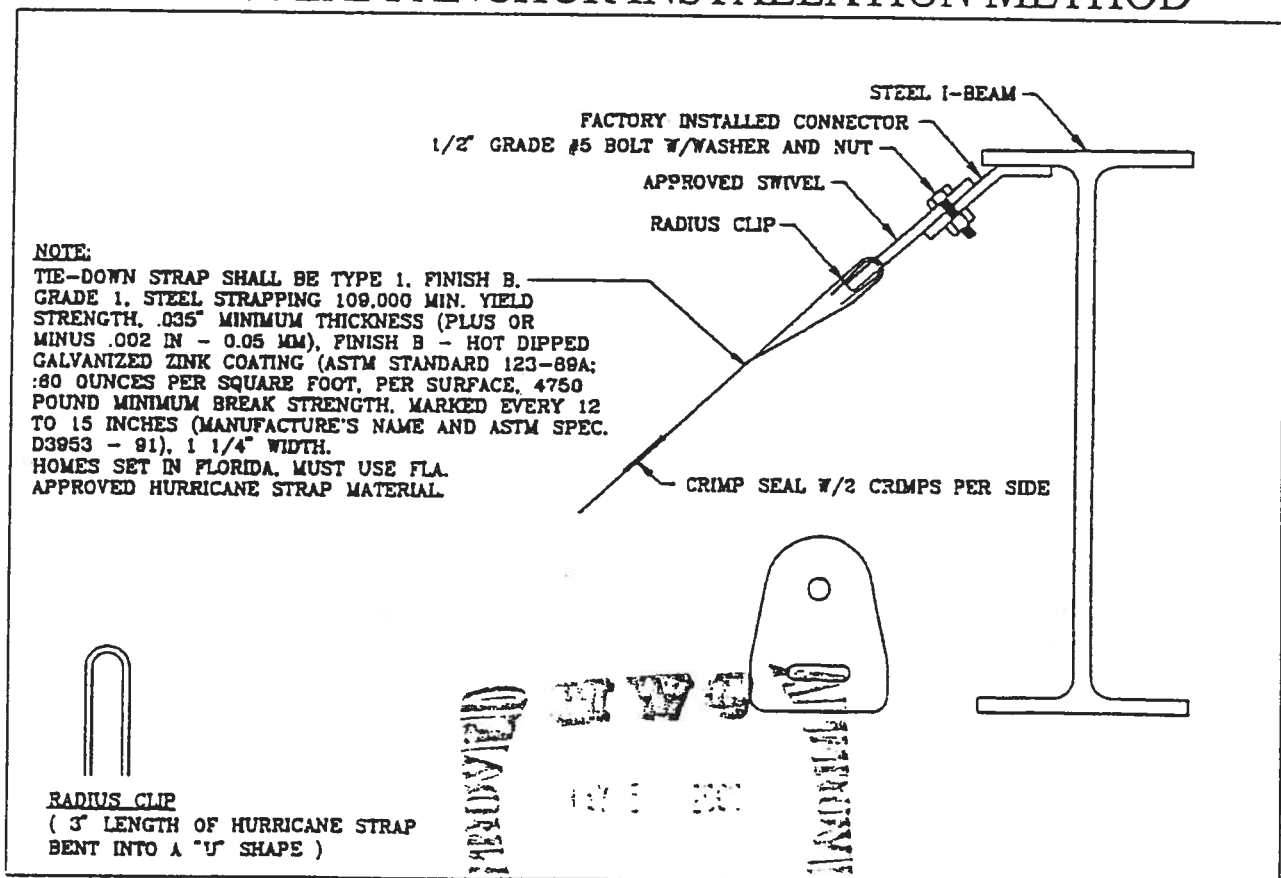
The instructions on the following page are for NEAR BEAM ANCHOR Design.

Please take special care to understand the requirement for proper installation on the following systems:

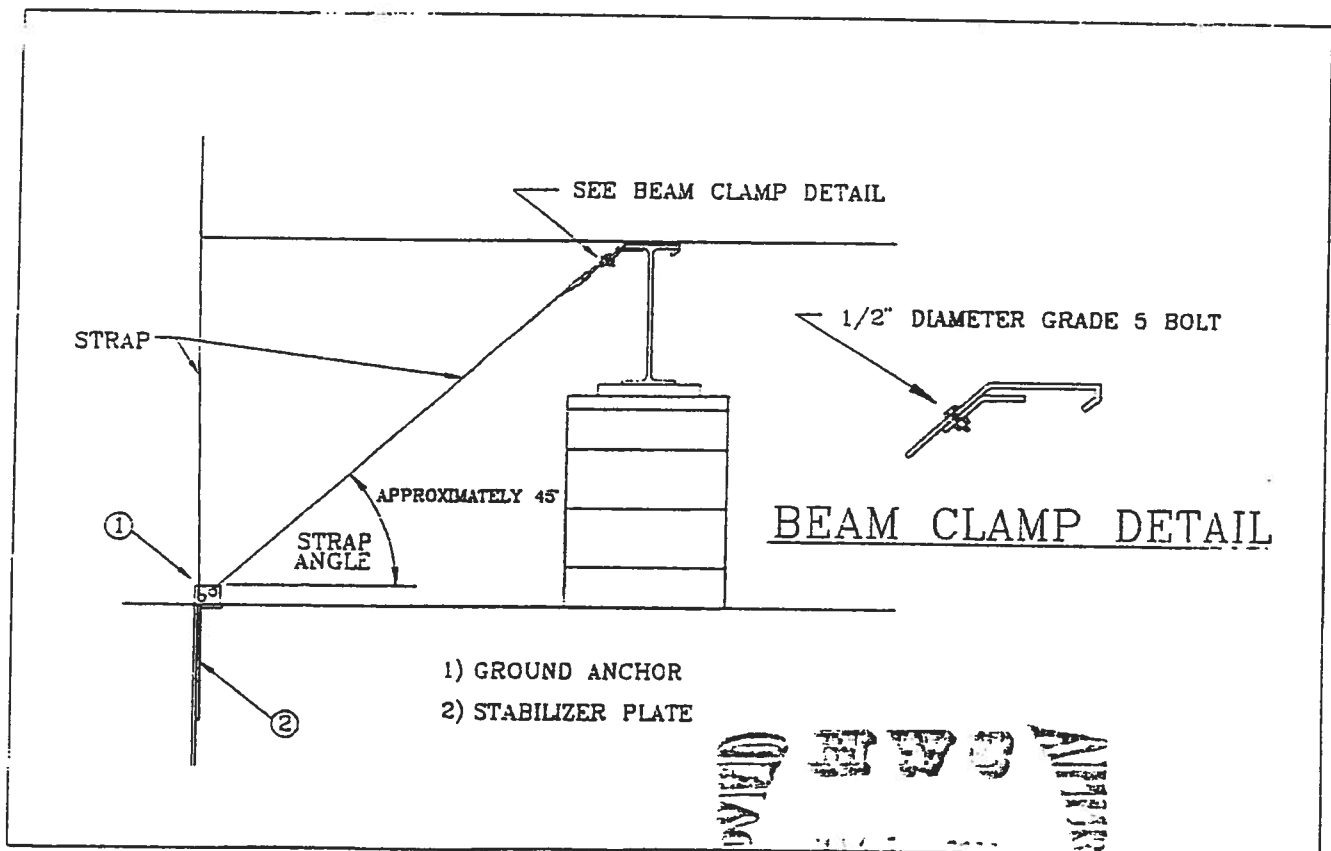
- ◆ VERTICAL SIDEWALL ANCHORAGE
- ◆ DIAGONAL MAIN I-BEAM ANCHORAGE
- ◆ SHEARWALL ANCHORAGE AND SUPPORT BLOCKING
- ◆ LONGITUDIAL FRAME ANCHORAGE

If you are unsure of any of the requirements of this manual, please contact Homes of Merit, Inc. for clarification.

NEAR BEAM ANCHOR INSTALLATION METHOD

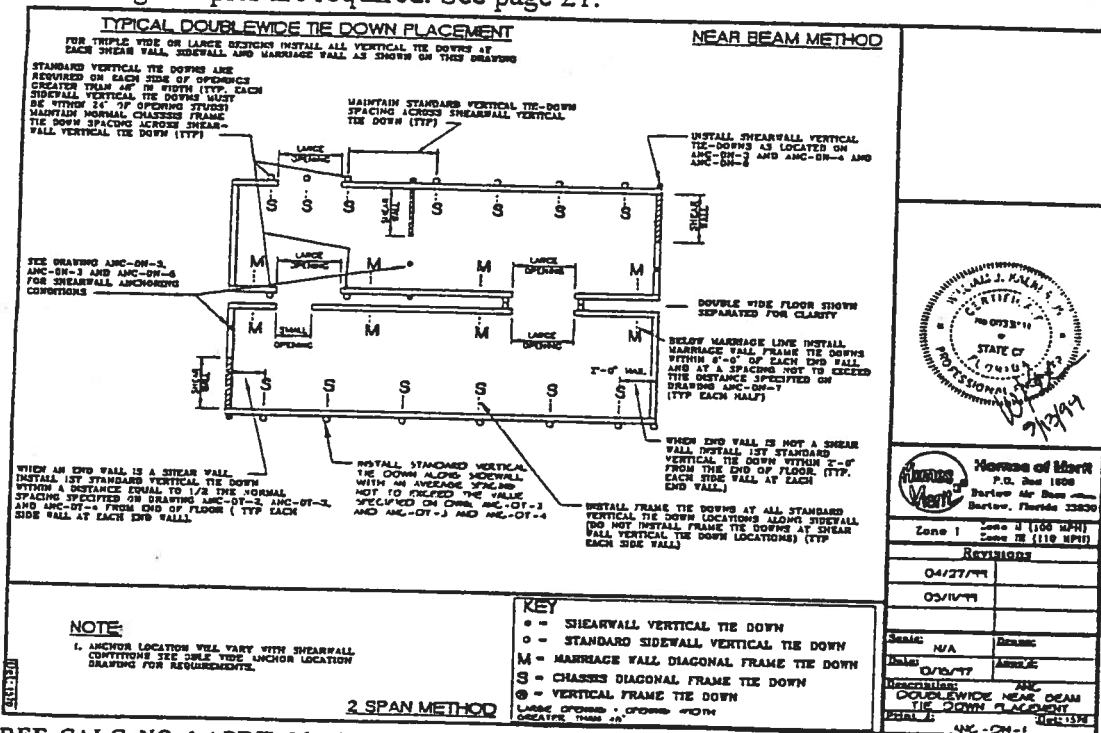


NEAR BEAM ALTERNATE ANCHOR INSTALLATION METHOD

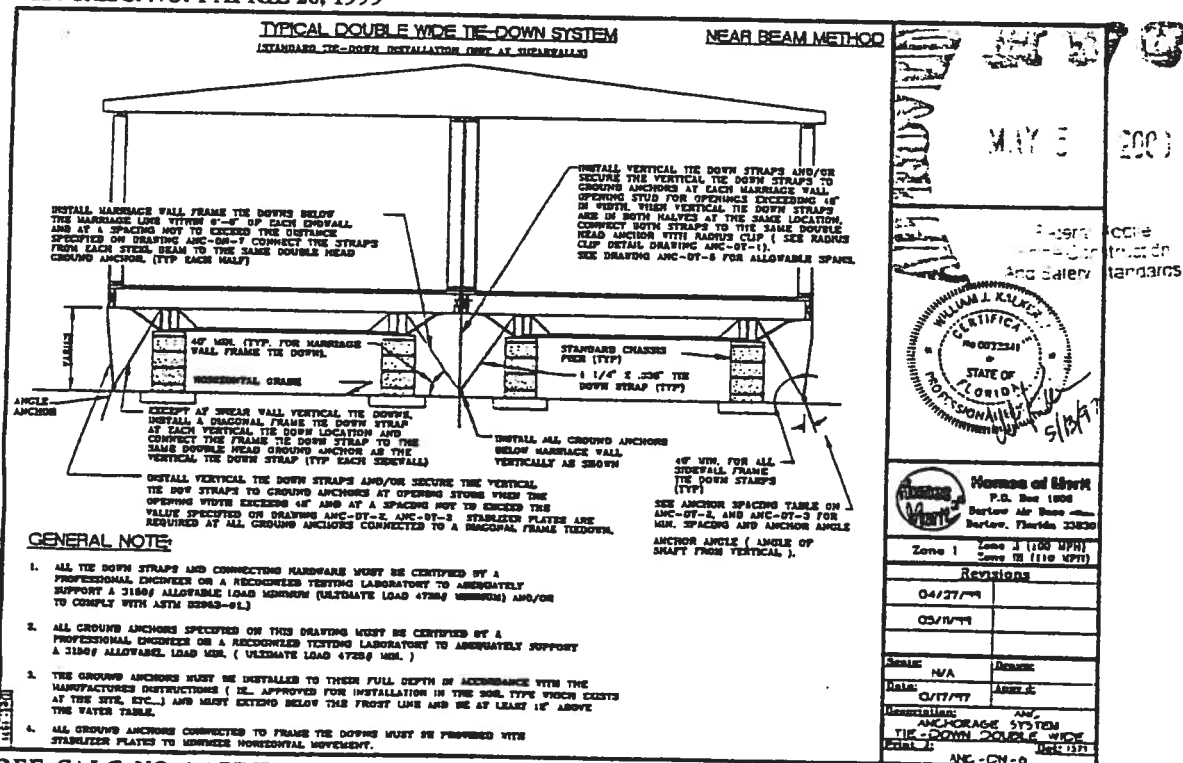


SHEARWALL LOCATION LABELS:

The yellow Shearwall Location Labels are placed along the sidewalls near the floor line. Typically, these labels are attached to the steel members that extend below the floor line. This label indicates where the Shearwalls were placed during the construction of the home. Wherever this label is placed, attach a vertical ground anchor to the steel member that extends below the floor line. In addition to the anchor, a concrete footing and pier are required. See page 21.

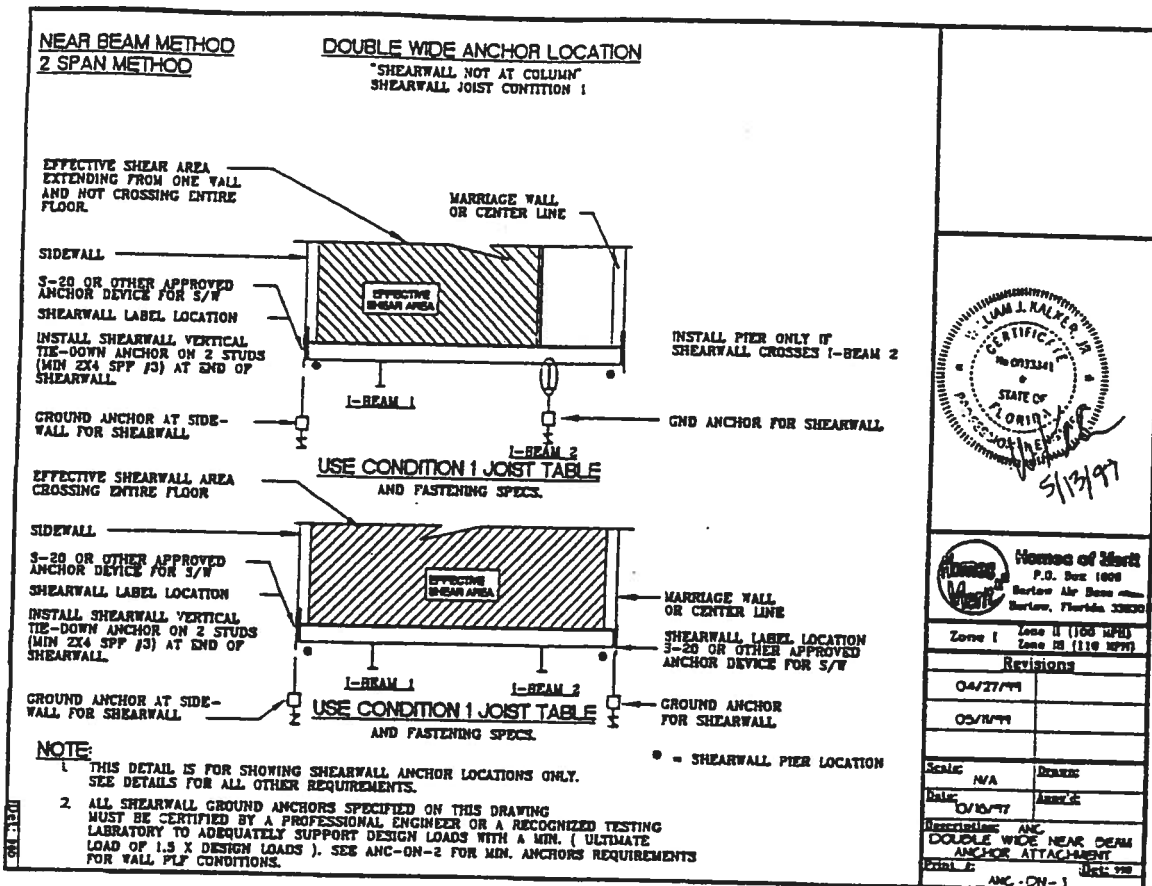


REF. CALC. NO. 1 APRIL 26, 1999

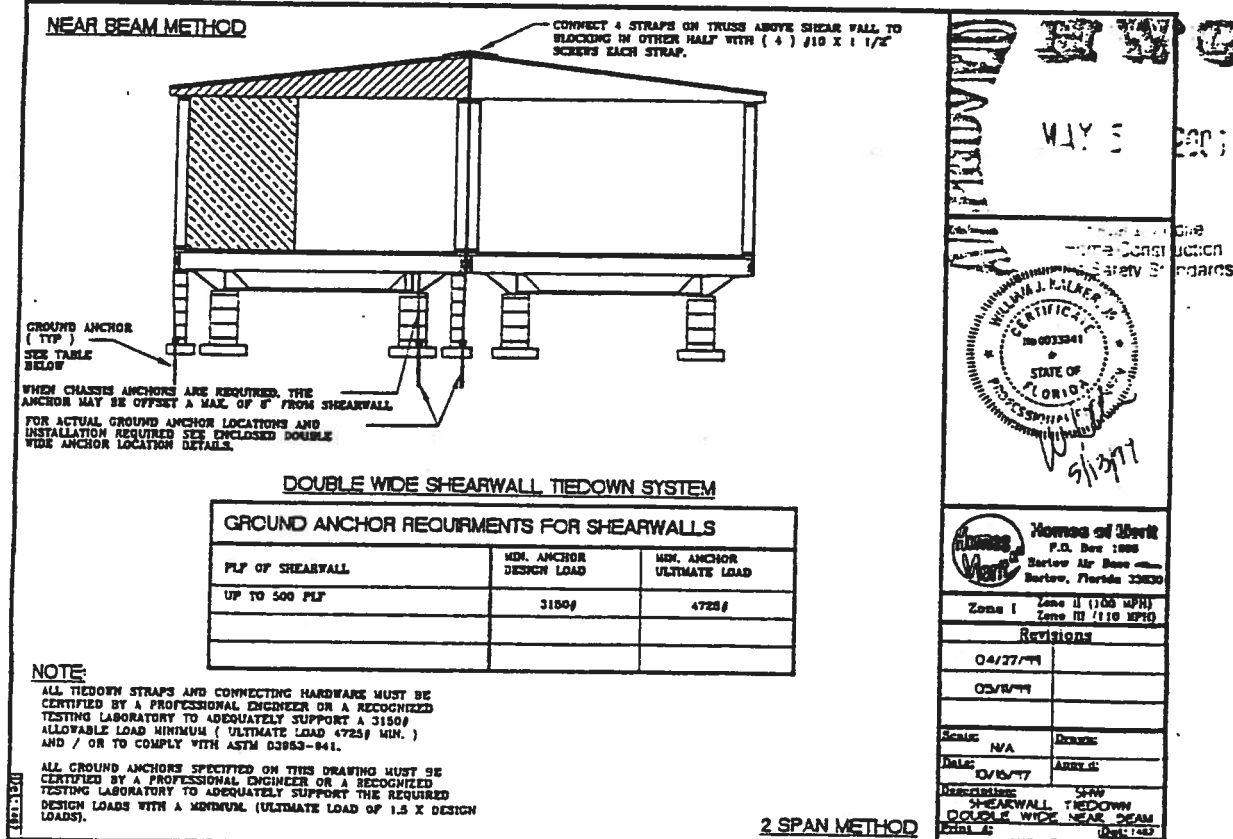


REF. CALC. NO. 1 APRIL 26, 1999





REF. CALC. NO. 1 APRIL 26, 1999



REF. CALC. NO. 1 APRIL 26, 1999



MAXIMUM DISTANCE BETWEEN * MARRIAGE WALL FRAME TIE-DOWN STRAPS
MAXIMUM 40" JOIST TO GRADE

WIND ZONE		95 1/2" I-BEAM SPACING		
		FLOOR WIDTH		
		40"	60"	84"
I (15 PSF)	84" SIDEWALL	NOT REQUIRED		
	90" SIDEWALL	NOT REQUIRED		
II (100 MPH)	84" SIDEWALL	6'	10'	15'
	90" SIDEWALL	10'	15'	20'
III (110 MPH)	84" SIDEWALL	14'	14'	22'
	90" SIDEWALL	14'	14'	24'

MAXIMUM DISTANCE BETWEEN * MARRIAGE WALL FRAME TIE-DOWN STRAPS
MAXIMUM 40" JOIST TO GRADE

EXPOSURE 'D'		95 1/2" I-BEAM SPACING		
		FLOOR WIDTH		
		40"	60"	84"
EXP 'D'	84" SIDEWALL	13.5'		
III (110 MPH)	90" SIDEWALL	13.5'		

INSTALL PIERS WITH 16" DIAMETER PERPENDICULAR TO CHASSIS STEEL BEAMS

NEAR BEAM

MIN GROUND ANCHOR CAPACITY 1500#
EXCEPT IN EXP'D
MIN GROUND ANCHOR CAPACITY = 4000#

* R90F FTH ≤ 28

MAY 5 2007

REF. CALC. NO. 1 APRIL 26, 1999

Professional Engineer
State of Florida
Professional Seal
S/15/99

Homes of Merit
P.O. Box 1808
Bartow Air Base
Bartow, Florida 33830

Zone I Zone II (100 MPH)
Zone III (110 MPH)

Revisions

Date	Description
04/28/99	
05/14/99	

Scale: N/A Drawn: ARB:j
Date: 10/17/97 App'd: [Signature]
Description: ANC
DOUBLE WIDE NEAR BEAM
MARRIAGE WALL ANCHOR
Print J: ANC-CN-7 Del: 1997

FAR BEAM ANCHORING SYSTEMS

The instructions on the following page are for FAR BEAM ANCHOR Design.

Please take special care to understand the requirement for proper installation on the following systems:

- ◆ VERTICAL SIDEWALL ANCHORAGE
- ◆ DIAGONAL MAIN I-BEAM ANCHORAGE
- ◆ SHEARWALL ANCHORAGE AND SUPPORT BLOCKING
- ◆ LONGITUDIAL FRAME ANCHORAGE

If you are unsure of any of the requirements of this manual, please contact Homes of Merit, Inc. for clarification.



DIAGONAL MAIN I-BEAM CONNECTION TO GROUND ANCHOR (For FAR BEAM METHOD of Anchorage only)

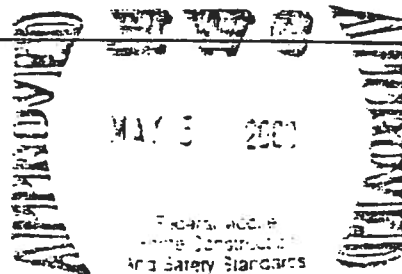
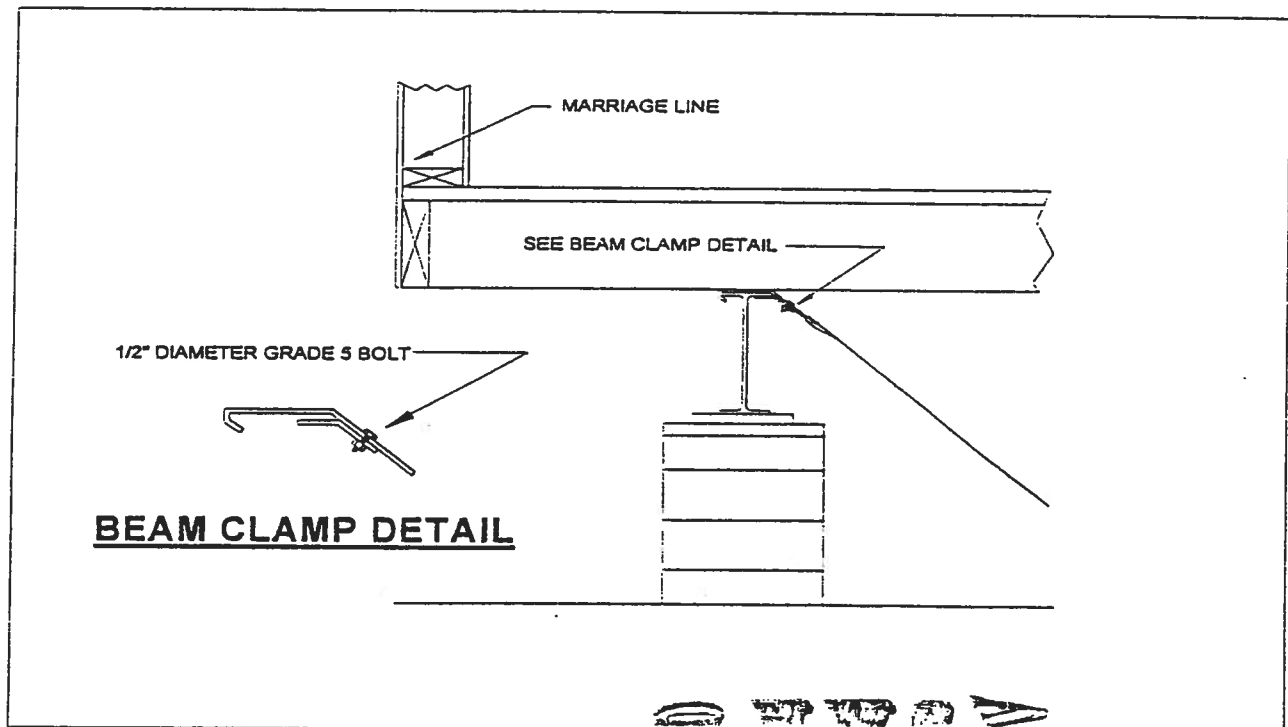
Many times the design limitations will require the home to be installed using the only FAR BEAM method. Anytime the FAR BEAM method is required on a home located in Florida, an aftermarket hurricane strap to main I-Beam attachment device must be purchased. These devices are readily available at local manufactured home supply outlets.

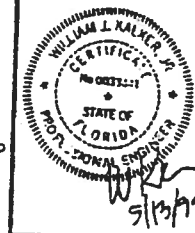
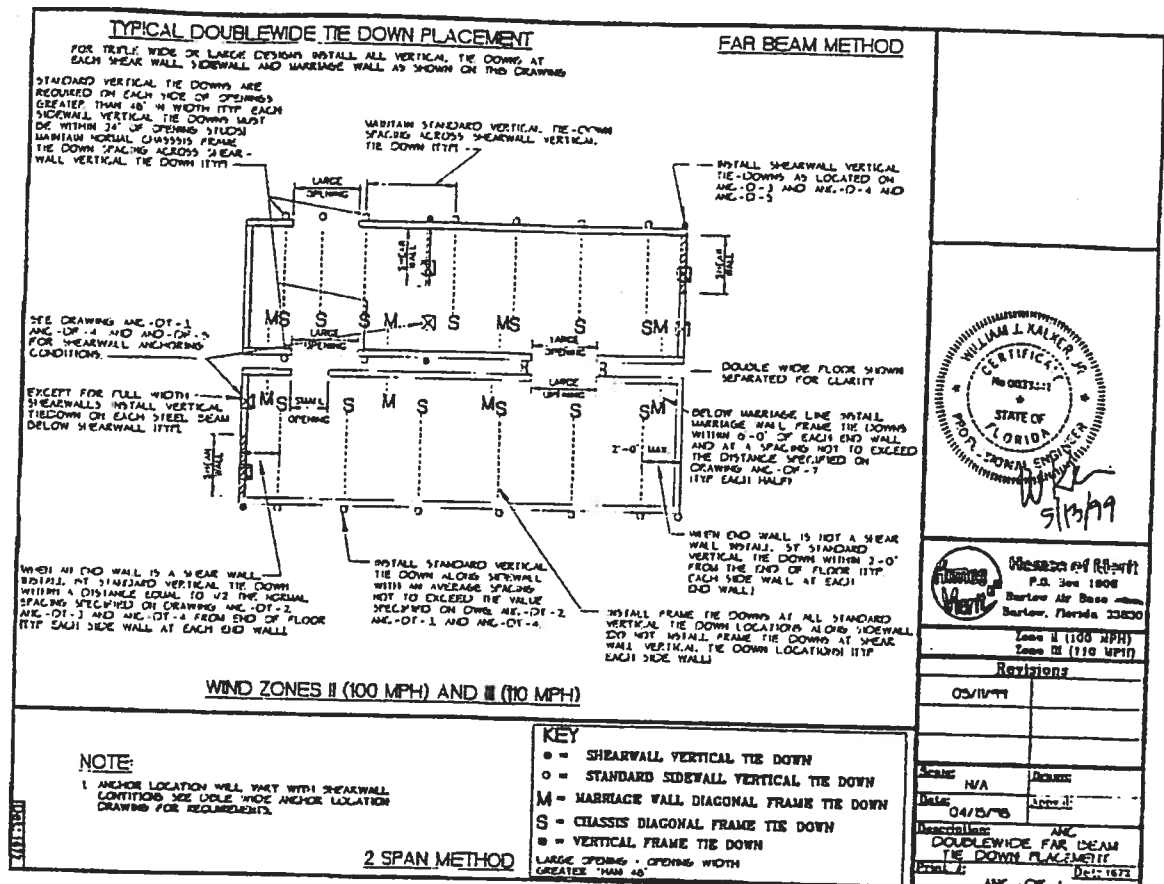
Approved products that are listed by the State of Florida and installed in accordance with the product listing can be used. Some of these connectors are designed to attach to the Main I-Beam of the home and then connect to a swivel device and then to a hurricane strap with a ground anchor. This type of product can be purchased at local manufactured home supply stores. When purchasing anchoring products, please remember that all products must be approved for a (3150 pound) working load.

All hurricane strap material, connection hardware and method of installation must comply with the State of Florida Rule 15C.

For homes located outside of Florida, the specifications in this manual must be followed.

FAR BEAM ANCHORING METHOD





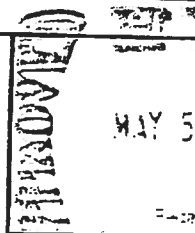
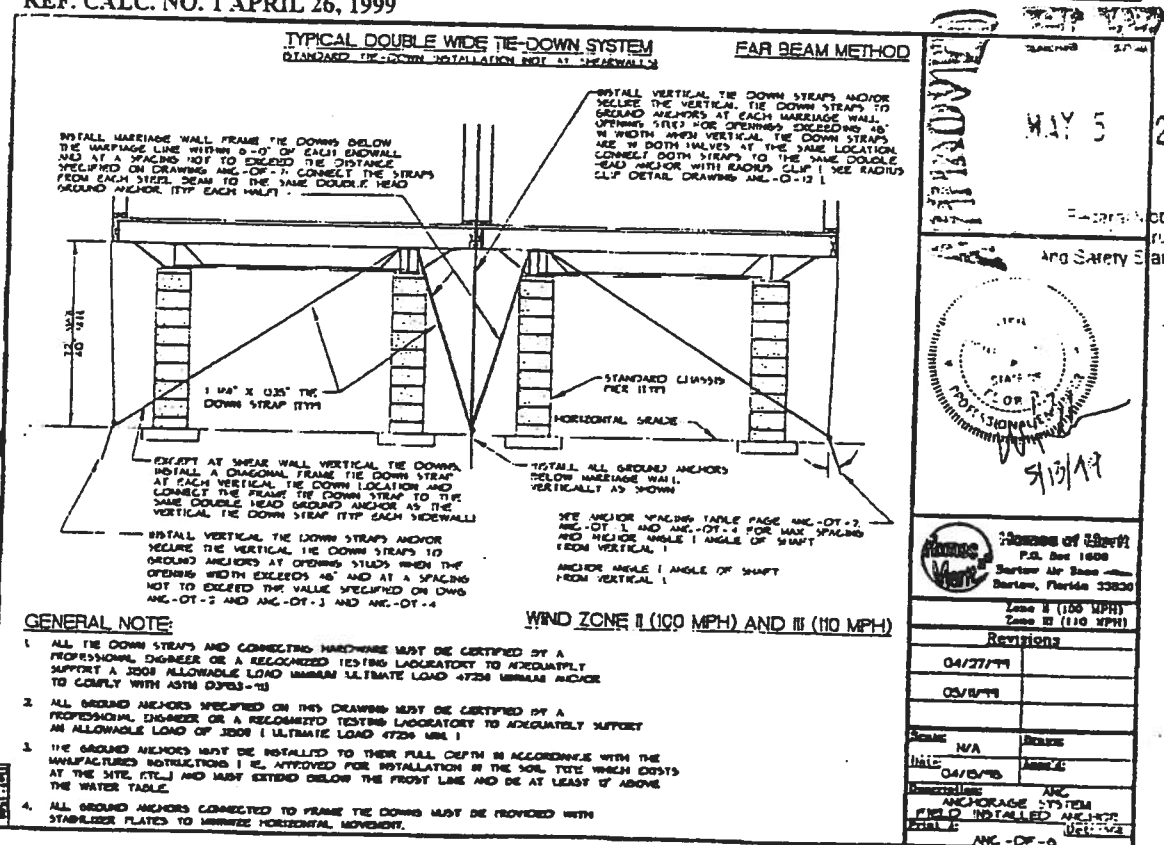
HOMES OF MERIT
P.O. Box 1808
Barlow Air Base
Barlow, Florida 32830

Zone II (100 MPH)
Zone III (110 MPH)

Revisions

05/11/99	
----------	--

Scale: N/A
Date: 04/15/98
Description: DOUBLEWIDE FAR BEAM TIE DOWN PLACEMENT
Drawn by: AHC-DT-1
Check by: [Signature]



HOMES OF MERIT
P.O. Box 1808
Barlow Air Base
Barlow, Florida 32830

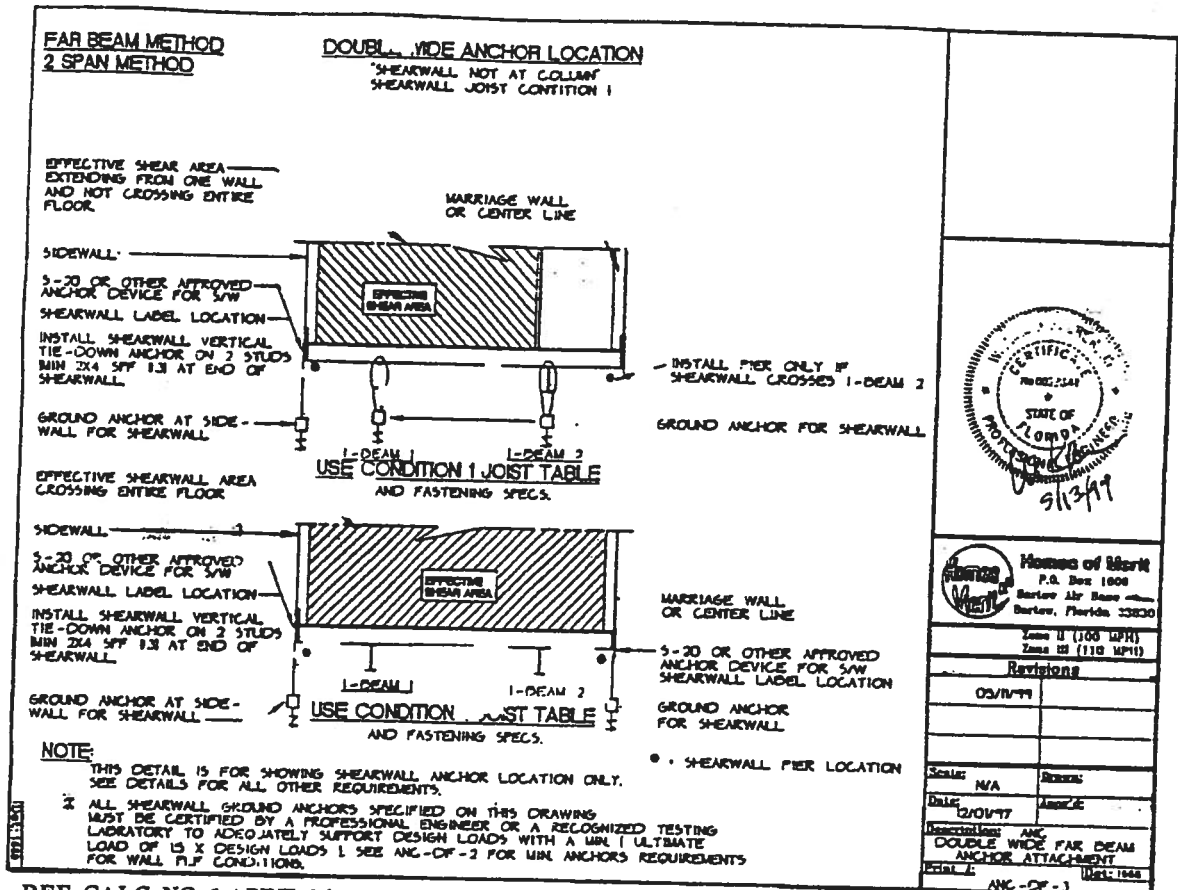
Zone II (100 MPH)
Zone III (110 MPH)

Revisions

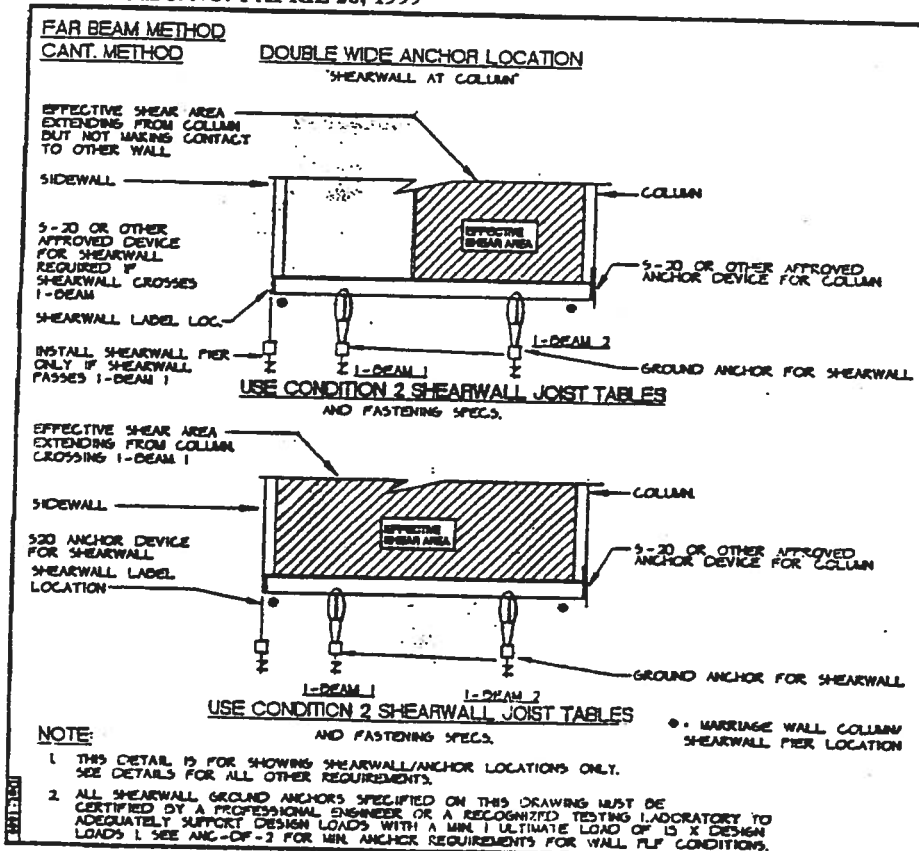
04/27/99	
05/11/99	

Scale: N/A
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Description: ANCHORAGE SYSTEM FIELD INSTALLED AHC-DT-2
Drawn by: AHC-DT-2
Check by: [Signature]



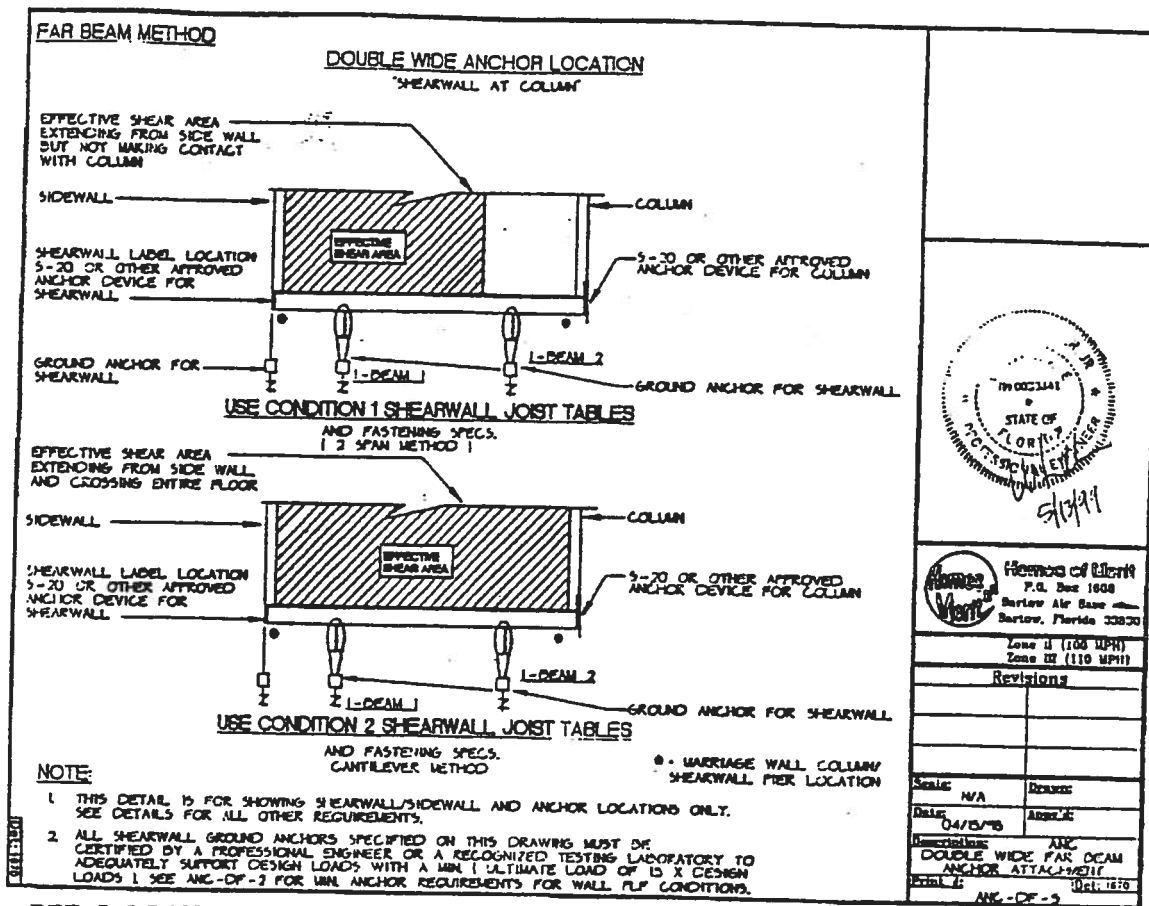


REF. CALC. NO. 1 APRIL 26, 1999

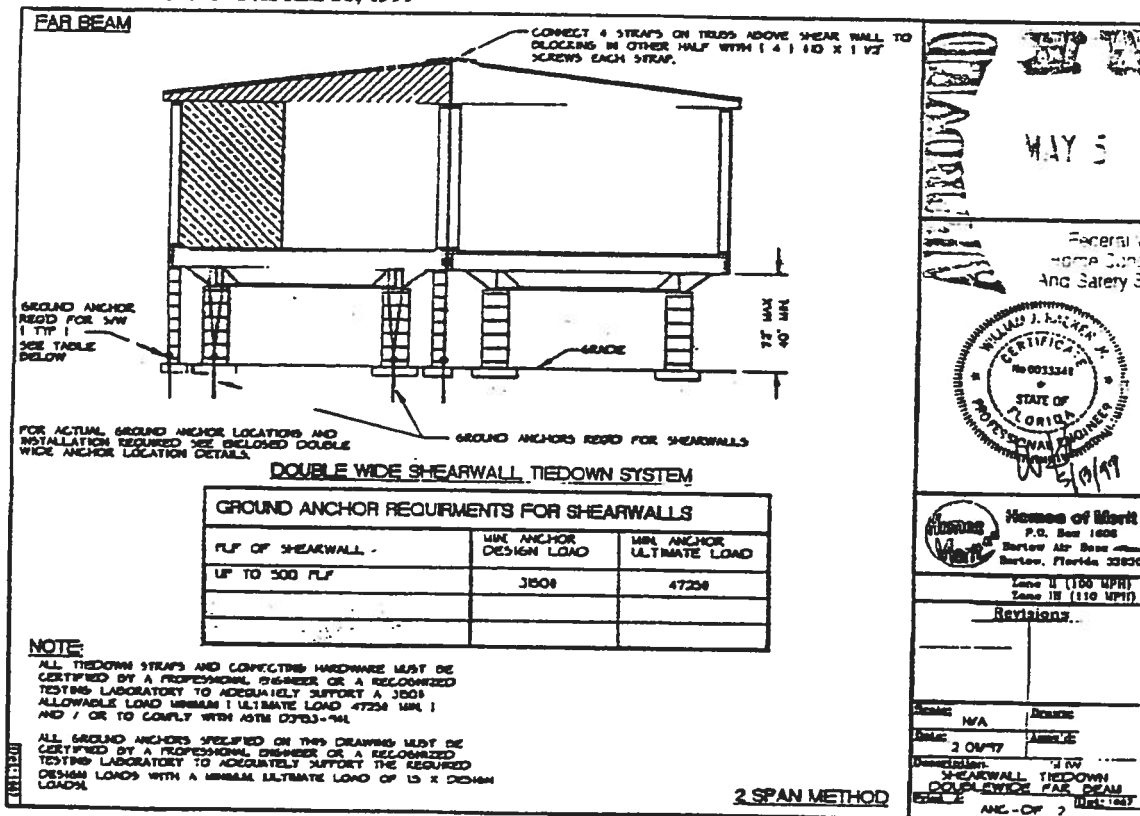


REF. CALC. NO. 1 APRIL 26, 1999





REF. CALC. NO. 1 APRIL 26, 1999



REF. CALC. NO. 1 APRIL 26, 1999



MAXIMUM DISTANCE BETWEEN * MARRIAGE WALL FRAME TIE-DOWN STRAPS MAXIMUM 7' JOIST TO GRADE			
FLOOR WIDTH		95 1/2" I-BEAM SPACING	
WIND ZONE		FLOOR WIDTH	
		40'	64'
I (5 PSF)	84" SIDEWALL	NOT REQUIRED	
	70" SIDEWALL	NOT REQUIRED	
II (100 MPH)	84" SIDEWALL	15'	15'
	70" SIDEWALL	15'	15'
III (110 MPH)	84" SIDEWALL	14'	12.5'
	70" SIDEWALL	14'	12.5'

MAXIMUM DISTANCE BETWEEN * MARRIAGE WALL FRAME TIE-DOWN STRAPS MAXIMUM 7' JOIST TO GRADE			
FLOOR WIDTH		95 1/2" I-BEAM SPACING	
EXPOSURE 'D'		FLOOR WIDTH	
		40'	64'
EXP 'D'	84" SIDEWALL	13.5'	
III (110 MPH)	70" SIDEWALL	13.5'	

FAR BEAM

MIN GROUND ANCHOR CAPACITY 3500
EXCEPT IN EXPD
MIN GROUND ANCHOR CAPACITY = 4000#

* RZF PITCH $\leq 20^\circ$

REF. CALC. NO. 1 APRIL 26, 1999

WILLIAM J. KALKREUTH

CERTIFICATE

No. 0013345

STATE OF FLORIDA

NOTARY PUBLIC

9/13/99

Homes of Merit

P.O. Box 1606

Barlow Air Base

Barlow, Florida 32830

Zone I Zone II (100 MPH)

Zone III (110 MPH)

Revisions

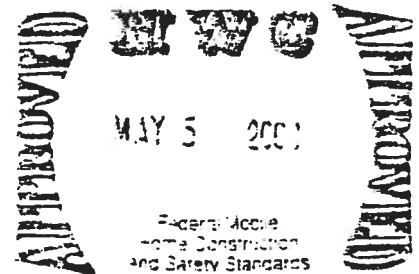
04/26/99	
05/14/99	

Scale: N/A Drawn:

Date: 12/06/97 Ass'd:

Description: ANG DOUBLE WIDE FAR BEAMS MARRIAGE WALL ANCHORS

Print: ANG-DT-7 Date: 1999



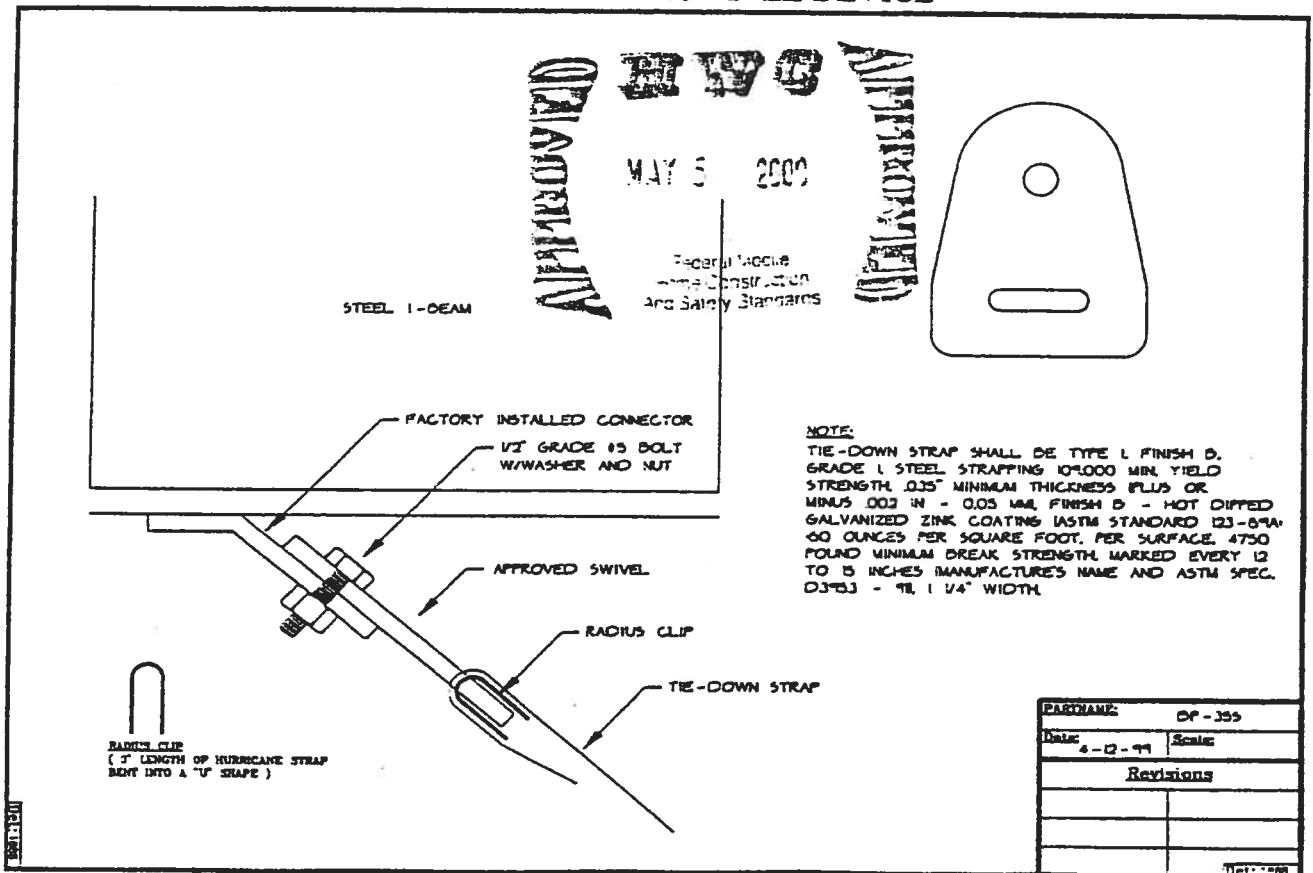
Longitudinal Main I-Beam Anchorage

Each end of all I-Beams must be anchored to the ground. An attachment bracket has been welded to the bottom flange of each end of each I-Beam. We recommend that a swivel device be attached to the factory-installed bracket. However, a slot is also provided in the event the swivel method is not desired. Regardless of the desired method of installation, compliance with the enclosed details is required.

(Florida Requirements)

The State of Florida, in the State Rule 15C, does have special requirements for the longitudinal Main I-Beam anchorage. Though the State requirements may differ from the recommended method of this manual, State of Florida Rule 15C must be complied with in all aspects where this rule is more stringent than the requirements of this manual.

LONGITUDINAL MAIN I-BEAM ANCHORAGE FACTORY BRACKET W/SWIVEL DEVICE

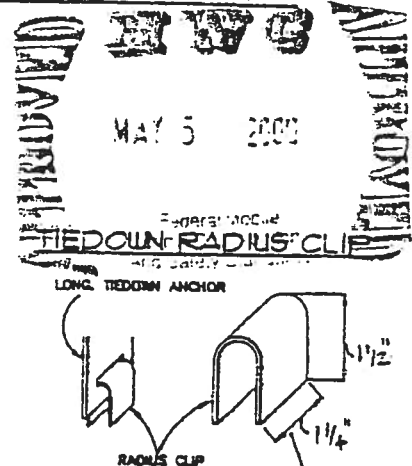
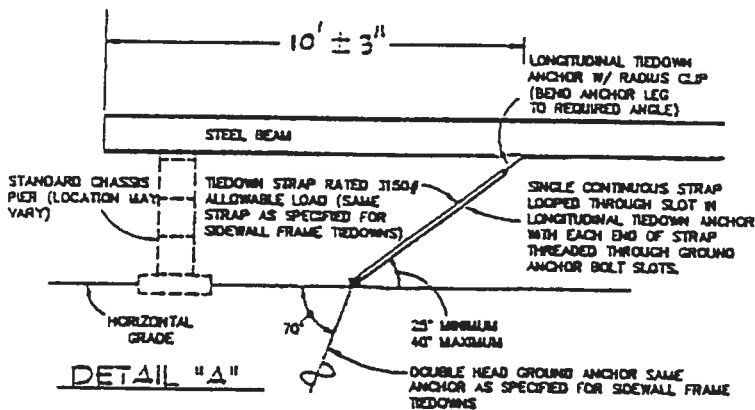
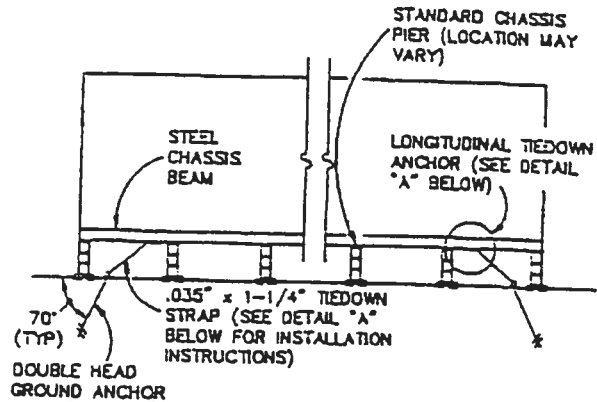
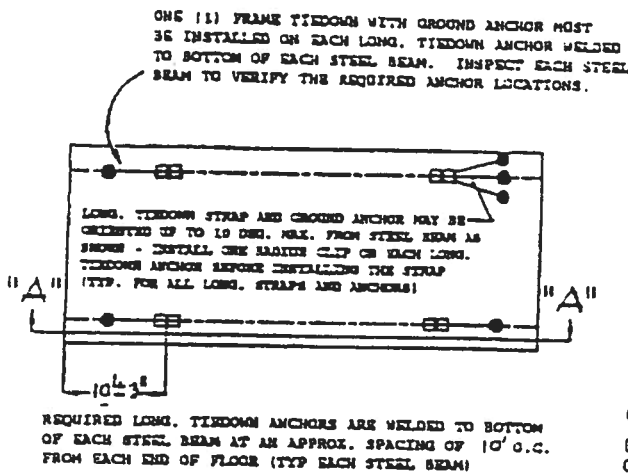


LONGITUDINAL TIE-DOWN STRAPS:

The Longitudinal Tie-Down Straps are located at the front and rear of the home. Connect them to the brackets on each of the main I-Beams. A stabilizer plate is required at all longitudinal ground anchors.

LONGITUDINAL FRAME TIEDOWN INSTALLATION

(ONLY REQUIRED WHEN LONGITUDINAL TIEDOWN ANCHORS INSTALLED ON BOTTOM OF STEEL BEAM)



INSTALLER TO FABRICATE RADIUS CLIP BY PLACING STRAIGHT 3" LENGTH OF 1-1/4" x .035" TIEDOWN STRAP IN ANCHOR SLOT AND MANUALLY BENDING THE STRAP TO THE CONFIGURATION SHOWN.

ANC-31.2

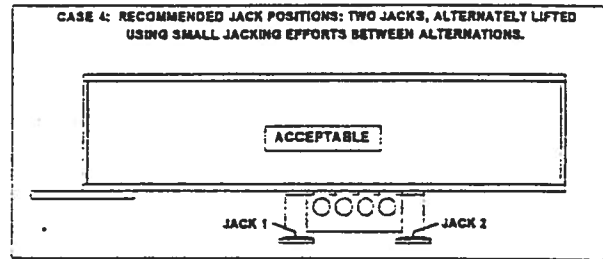
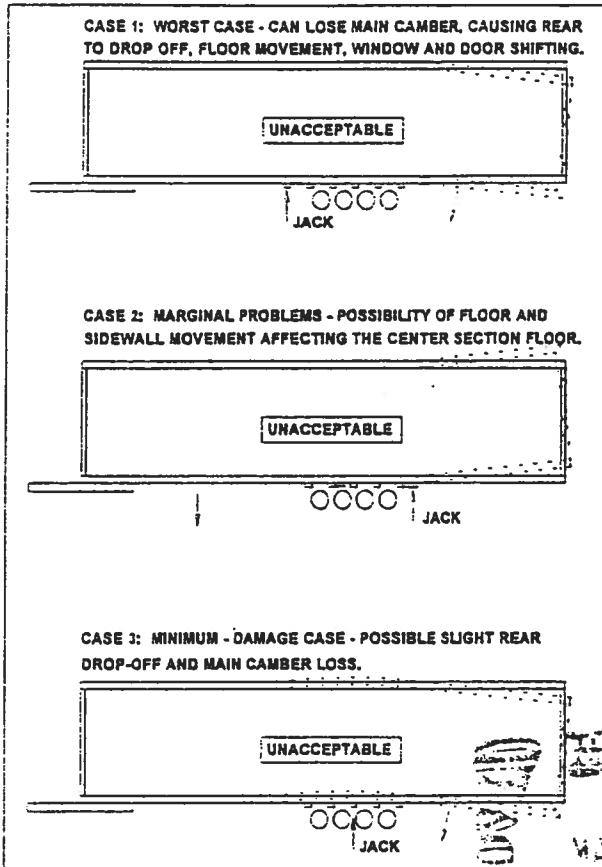
THIRD PARTY	REVISIONS			HOMES OF MERIT
	LTR	BY	DATE	
REVISED MAR 21 2000				ANCHORAGE SYSTEM FIELD INSTALLED
			DRAWN BY: TC	DAPA NO:
			DATE: 1/22/98	SC: N.T.S.

WIND ZONE 1, 2, & 3 AND EXP 'D'

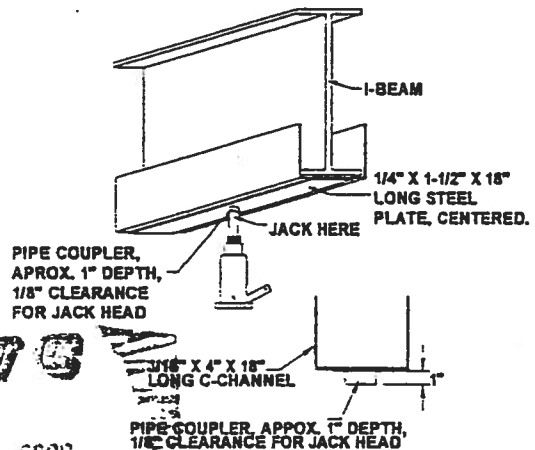


SETTING THE HOME

Extreme care must be taken to avoid serious injury to personnel or damage to the home. Untrained people should not attempt to block or set any home.



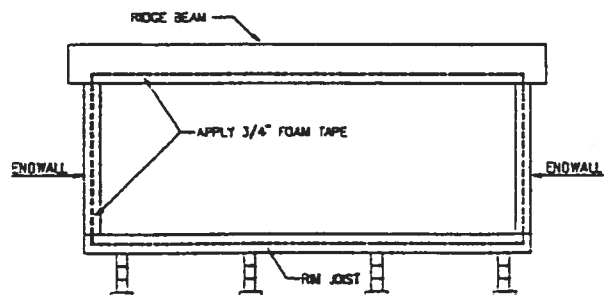
JACK HEAD POSITIONING DETAIL



LEVELING THE HOME:

Extreme care must be taken to avoid twisting or racking the home during the leveling process. When jacking the home, a reinforced jack plate should be used to avoid distorting the frame; see diagram above. The heavy half of the home should be set first; the light half is brought to the heavy half and set next. Foam tape (3/4 inch) is provided as part of the setup kit. Other equivalent material may be used. The foam tape is placed along the floor, roofline and both end walls. The foam tape will limit the amount of air that is allowed to pass between the building materials. Once the home is level, the floor must be leveled from one half to another, and the walls set plumb. The ceiling lines may need to be jacked and set true. As the roof is set, the

two halves are fastened together. See details on page 32 for roof and floor fastening details. All doors needing adjusting are adjusted at this time and all windows should be tested for operation. In the setting process, interior doors may come out of square and require adjustment. The adjustment is considered part of the setup procedure.



SETTLING OF HOME:

As with any building there is always the possibility that a manufactured home may settle after it has been in position for a time. When settling does occur, it can affect the proper functioning of locks, closing of doors, windows and cabinets, and place undue stress on the structural portions of the home. It can even cause wall panels to come loose and floor covering to separate. Should this problem occur, corrective measures should be taken to relevel the home. It is recommended that your Homes of Merit Dealer or a manufactured home service be engaged to do this work.

MAINTAINING ANCHORING SYSTEM:

Tie-down strap tension should be checked periodically and adjusted when necessary to prevent damage to the manufactured home from settling or other unforeseen movements, such as frost heave.

CENTERLINE LEVELING AND BLOCKING:

Double wide homes will require centerline blocking to be placed at all column locations. The size of the pad will be based on Soil Bearing Capacity as well as Column Load. To determine the proper pad size, see the tables titled "Column blocking" on pages 12 and 13. The floor along the centerline must be checked for levelness at the time of blocking.

FROST HEAVE:

A heavy frost buildup can adversely affect your home through displacement of the anchor and blocking systems. If your home resides in a area subjected to frost heave, one of the following additional steps should be considered.

- A.) Footing and the load carrying portion of the ground anchors should extend below the frost line, or
- B.) The manufactured home should be placed on a reinforced concrete pad.

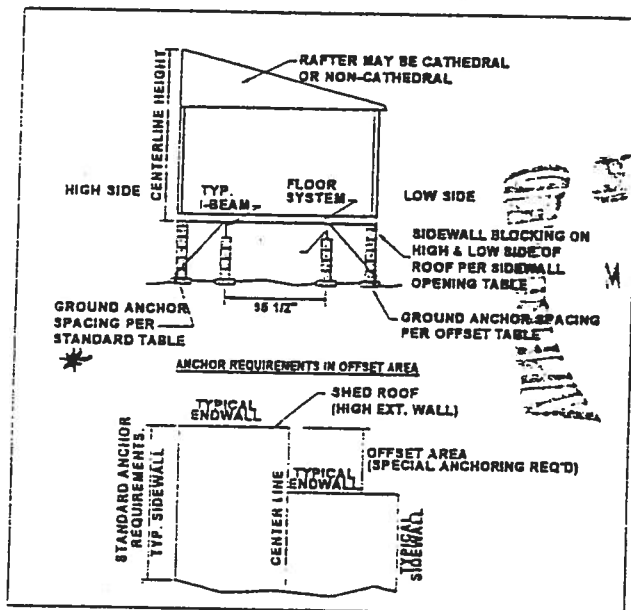
APPROVED
HWC
REVISED
FEB 20 2003
APPROVED
Federal Mobile
Home Construction
And Safety Standards



OFFSET UNITS (SHED ROOF):

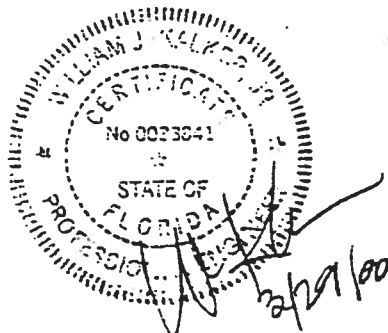
Offset units will require special anchoring. Use the appropriate Anchor Table to determine the proper anchor spacing. Please note that ground anchors will be required at both sidewalls of the offset portion as well as at perimeter blocking.

The Hurricane Tie-Down Table applies to units with offsets on either half that forms a mono-pitch (shed) roof condition at the high side. The Tie-Down requirements apply only to the high side of the unit; the low side will require the standard Hurricane Anchor Spacing. See Shed Roof Tie-Down requirements on page 17 for maximum anchor spacing.

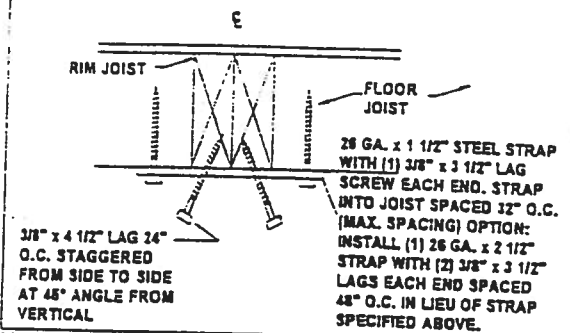


ROOF AND FLOOR STRAPPING OF MULTI-SECTION HOME:

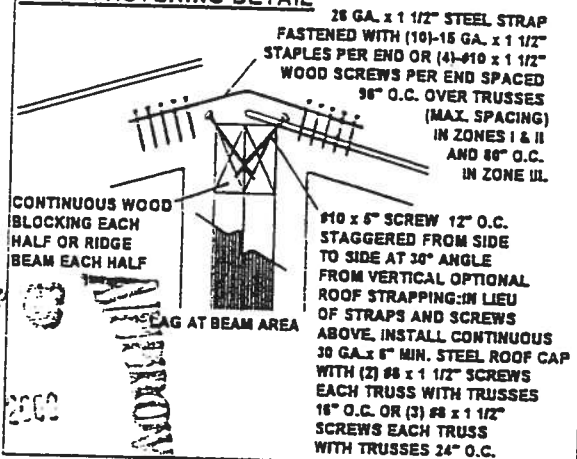
The roof and the floor must be connected in the field. The following details show proper installation of fasteners and steel straps.



FLOOR FASTENING DETAIL



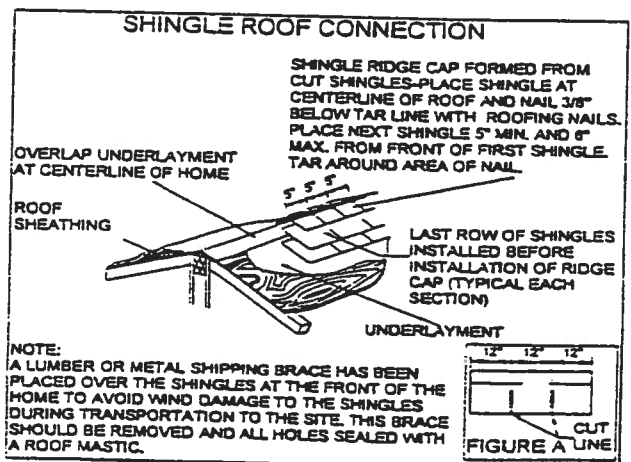
ROOF FASTENING DETAIL



ROOF CLOSE-UP:

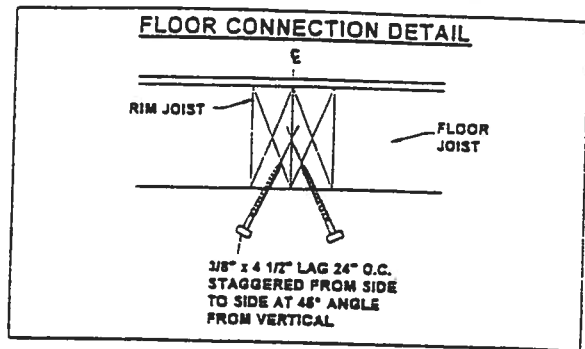
The wood member fastened at the front (hitch end) of the roof is to be removed. All nail holes must be sealed with a shingle sealant. The shingles shipped with the home must be installed along the center ridge of the home. The following details show the proper method of installing the shingles.

TAG UNIT CONNECTION:



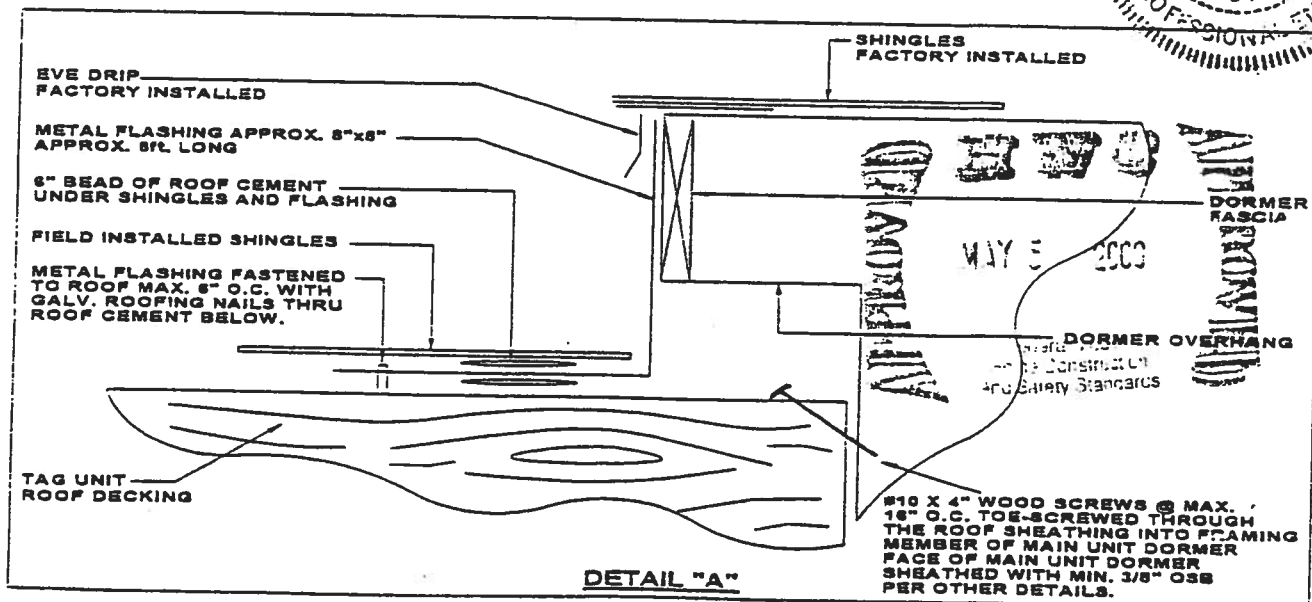
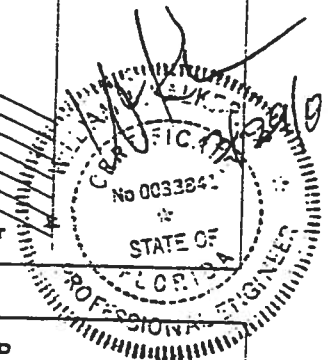
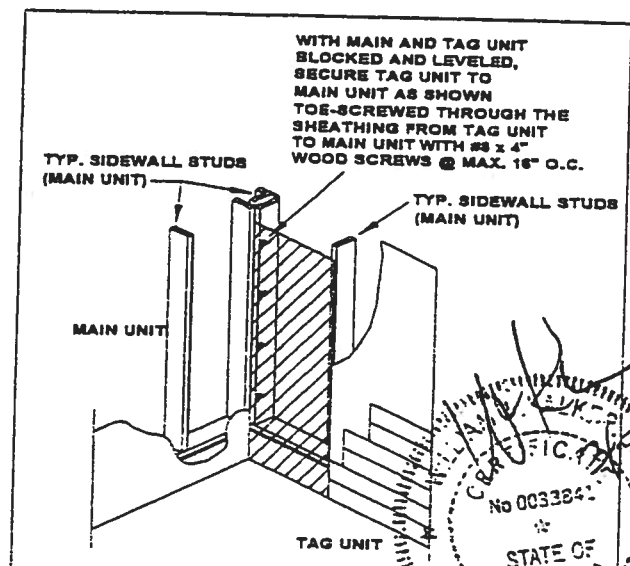
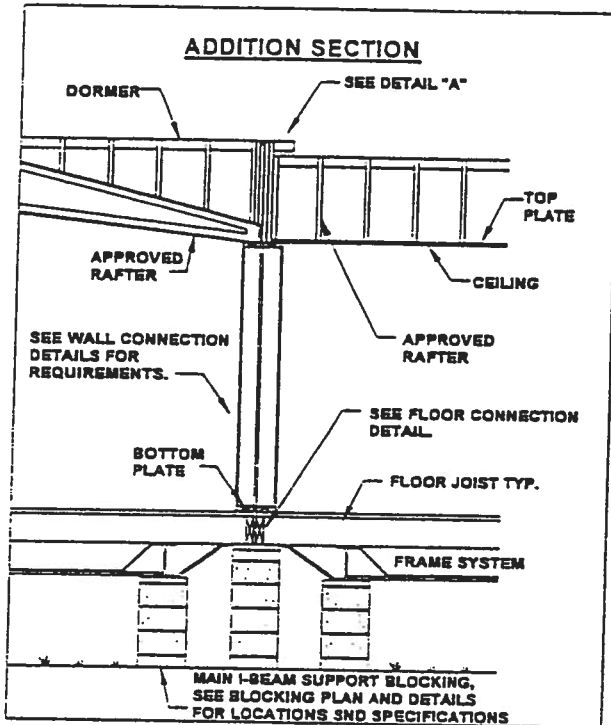
The larger two sections of the double wide home are to be set and attached as described in the standard double wide installation procedure.

The smaller, third section is to be attached in the manner described below. All anchoring and blocking will comply with the tables in this manual. All utility connections are to be made as detailed in the standard doublewide connection details.



WALL CONSTRUCTION DETAIL:

Secure the tag unit end wall to the main unit sidewall per the following detail.



ZONES 1,2,3

13'4" MAX X 23'4" MIN TAG 10/90" SIDEWALL

HOMES OF MERIT MULTI-WIDE SETUP MANUAL

33

SU-M-35

"ATTENTION"

Plumbing, water, gas and electrical systems were tested before leaving the factory. After all connections have been made and prior to occupancy, it is important to retest these systems to correct any problems that may have been caused during set-up procedures or in transit stress.

MAIN PANEL CONDUCTORS:

FLEX. CONDUIT (IN.)	PANEL SIZE SIZE	RED & BLACK (POWER)	WHITE (NEUTRAL)	GREEN (GROUNDING)	JUNCTION BOX (IN.)
1"	50	# 6 THW	# 6 THW	#8 THW	10x10x4
1 1/2"	100	# 2 THW	# 2 THW	#8 THW	12x12x6
2"	125	# 1/0 THW	# 2 THW	#6 THW	16x16x6
2"	150	# 1/0 THW	# 2 THW	#6 THW	16x16x6
2"	200	# 2/0 THW-2 90°C	# 1 THW	#6 THW	16x16x6

ALT. ALUMINUM CONDUCTOR / SIZES:

FLEX. CONDUIT (IN.)	PANEL SIZE SIZE	RED & BLACK (POWER)	WHITE (NEUTRAL)	GREEN (GROUNDING)	JUNCTION BOX (IN.)	MAX CALCULATED NATURAL FEEDER LOAD (AMPS)
1"	50	# 6 THW	# 6 THW	# 8 THW	10x10x4	50
1 1/2"	100	# 1 THW	# 1 THW	# 6 THW	12x12x6	100
2"	125	#2/0 THW	# 1/0 THW	# 4 THW	16x16x6	115
2"	150	#3/0 THW	# 1/0 THW	# 4 THW	16x16x6	115
2"	200	#4/0 THW-2 90 C	# 2/0 THW	# 4 THW	16x16x6	115

NOTES:

1. All conductors must have outer sheathing labeled THW or equivalent. Larger conductors and/or higher rated sheathing may be substituted. Reference the applicable National Electrical Code for appropriate substitutions. **It is required that only qualified personnel do all electrical work.*

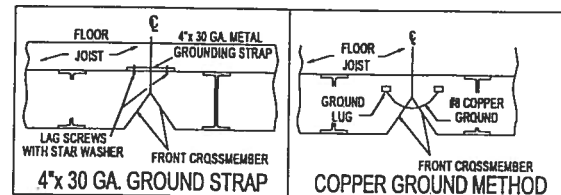
2. #2/0 may be substituted for #1/0 and #4/0 may be substituted for #3/0. Conductor sizes are in accordance with 1993 N.E.C. (National Electric Code) table 310-16, and do not take voltage drop into consideration.

GROUNDING HOME SECTIONS:

Each section of the home must be grounded together with a 4" metal strap included in the setup kit. To do this, remove the cross member lag screws closest to the centerline of the home. Next, slip the 4" metal strap between the bottom of the floor joist and the cross member. Place the star washer on each of the removed lag

screws and reinstall through the metal straps into the joist. In lieu of the 4" metal strap, a copper ground wire and lug connection may be used. See the diagram below for details.

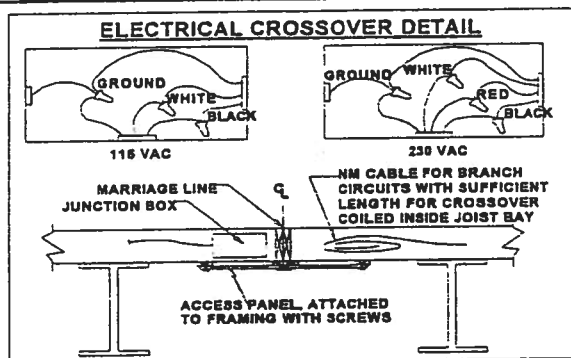
ELECTRICAL CROSSOVER:



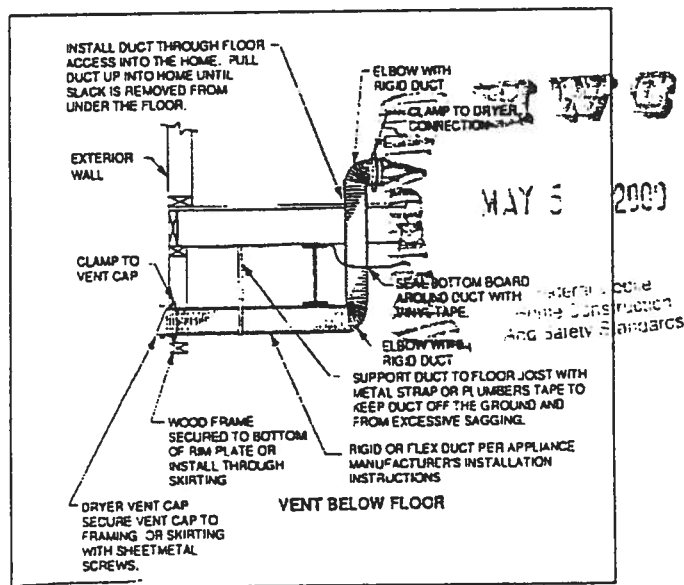
***Prior to starting any electrical installations, make sure all electrical circuits are off.** An Electrical Crossover Junction Box is provided with the home. This crossover is located in the rear or front and rear undersides of your home. All matching colors or numbers are to be joined together using a wire-nut(s). All connections are to be made within an Electrical Junction Box or other approved Self-Contained Device. The following table is from the NEC and

notes the minimum cubic inches of box required with various wire sizes. Consult with your local governmental agency for any licensing requirements. **It is required that only qualified personnel do all electrical work.* The diagram below shows the method of connection for the crossover box:

ELECTRICAL CROSSOVER DETAIL CHART	
SIZE OF CONDUCTOR	FREE SPACE WITHIN BOX FOR EACH CONDUCTOR
#14	2.0 CU. IN.
#12	2.25 CU. IN.
#10	2.50 CU. IN.
#8	3.0 CU. IN.
#6	5.0 CU. IN.



DRYER VENT INSTALLATION:



"CAUTION"

UNDER FLOOR DRYER DUCT MUST BE CONTINUOUS AND TERMINATE OUTSIDE THE PERIMETER OF THE HOME, OUTSIDE OF ANY SKIRTING OR FOUNDATION INSTALLED AROUND THE HOME.

WATER INLET FREEZING PROTECTION:

If the home is in an area where prolonged periods of freezing temperatures may occur, the water supply lines should be protected. Listed below are two possible methods to provide freezing protection:

1. Install the water supply line below frost line, with the insulated pipe riser above the frost line.

2. Heat Tape, a thermostatically controlled electrical heating device, can be installed at the main water supply line. **Any Heat Tape devices used must be listed as*

"Approved for Manufactured Homes." Failure to comply with these standards could result in serious injury. An electrical outlet is provided and is located within two feet of the water inlet. **This outlet is for use with the heat tape device only. A GFI circuit does not protect this electrical device.*

DUCT SYSTEM:

Proper air conditioning and heating installation is critical. The ducts and registers have been sized to allow more heating and cooling into the larger rooms for equal distribution. This type of system makes the entire home more comfortable and energy-efficient. There are, however, a few guidelines that should be followed:

1. All exterior ducts should be, at minimum, R4 and be listed by an approved testing agency.

2. Duct runs are to be as short as possible. **Do not bend the duct in any way that would restrict airflow.*



3. The branch lines are to be a Wye (straight T's are not permitted.)

4. Return air ducts should be 14" in diameter.

5. The supply line from the air conditioner to the Wye should be 14" in diameter, at minimum.

6. The supply line from the Wye branch to the air conditioner dropouts should be 12", at minimum.

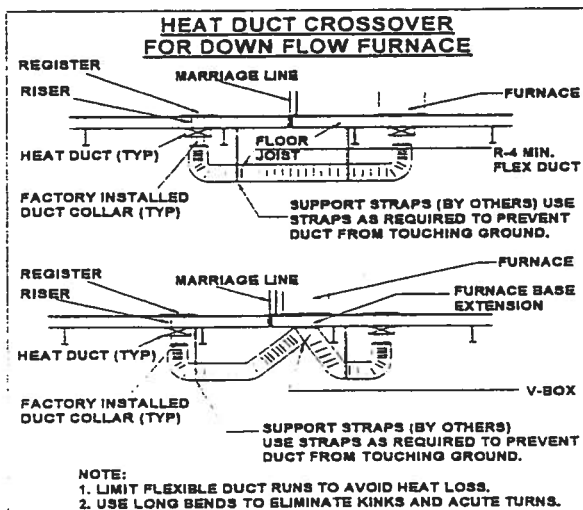
7. Ducts should be supported off the ground unless the duct is approved for ground contact.

8. Supports should be metal straps (or equivalent) attached to the I-Beam or Floor Joist. Ducts may, also, be blocked off the ground.

9. On some models, removing the axles to obtain the minimum clearance for duct connections may be necessary.

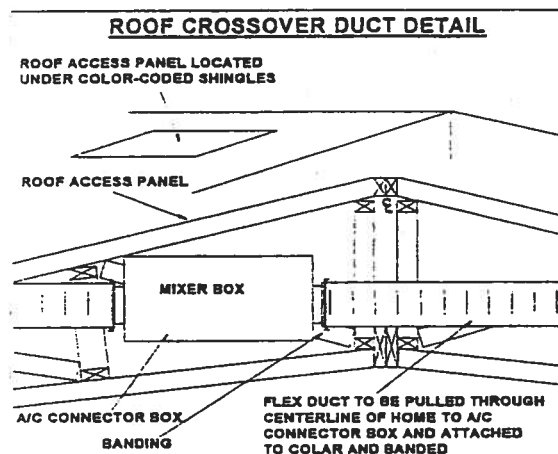
FLOOR CROSSOVER DUCT INSTALLATION:

For homes with a factory-installed furnace, connect the 10" or 12" diameter crossover duct to the dropouts provided. The duct must be supported so that it does not come in contact with the ground. Such supports may be metal straps or other approved supporting material. Straps may be attached to the I-Beam or Floor System. Blocking material may also be used to support ductwork off the ground. See the diagram below for details.



ROOF CROSSOVER:

Some homes may be built with a duct crossover located in the Roof System. With this type of system it will be necessary to open a section of the roof identified as the access way and make the required duct connections. See the diagram below for details.



GAS SYSTEM:

The Gas System is tested before leaving the factory. **After all connections have been made and prior to occupancy, it is important to retest the gas system to correct any problems that may have been caused by in-transit stress.*

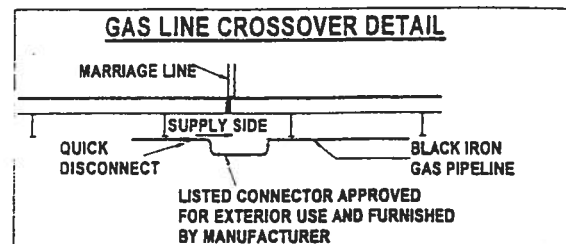
On the exterior of the home, near the gas inlet, is the label indicating the BTU capacity of the gas system. The Gas System is designed to operate at pressures between 1/2 psig and 1/4 psig. All appliance orifices must be checked to assure the proper type for the fuel used. Some appliances are delivered from the manufacturer equipped for natural gas. **If the home is connected to an LP source, it is necessary to change the orifices of the appliances for compatibility. Consult your local gas contractor prior to service hookup.*

**Licensed gas personnel should make all connections to the gas supply.*



GAS CROSSOVER:

If the home is equipped with gas appliances on each half, a quick disconnect is to be installed in the home. The disconnect must be installed in compliance with the tag attached to the disconnect device. This device is designed to be installed without the use of any tools.



"ATTENTION"

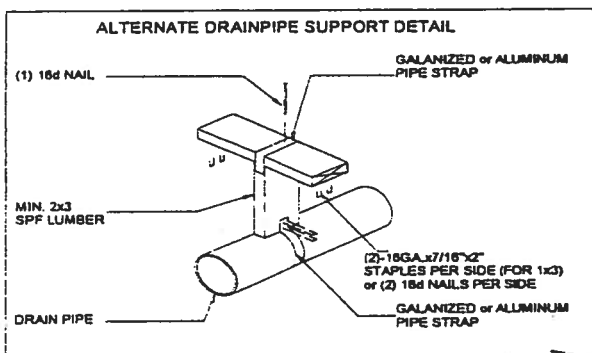
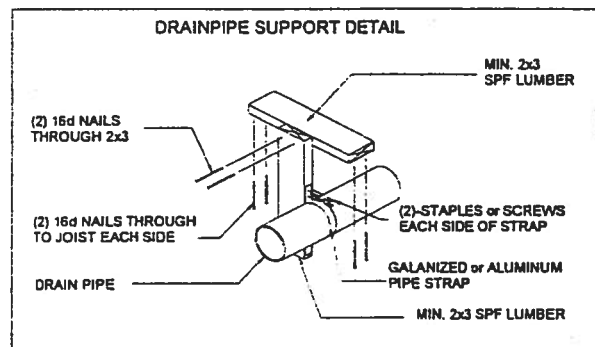
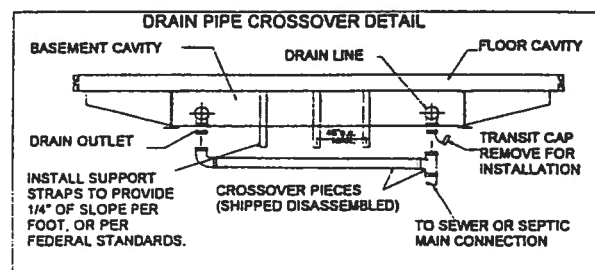
All connections must be installed with the correct cleaners, primers, and cements to avoid complications or damage. It is important that the methods shown in the diagrams are followed precisely to assure proper ventilation and to comply with applicable Federal Standards.

FIELD PLUMBING INSTALLATION:

The home is constructed with PVC or ABS plumbing lines. To avoid damage to the home while in transit, parts of the drain system may have been shipped unassembled. In such cases, field installation of loose plumbing components is necessary.

Sufficient plumbing fittings and piping have been supplied with the home to bring all drain lines to a single drop. (See DWV plan shipped inside home) The Homeowner or the setup contractor must furnish drainage fittings and piping (required to connect the single drop to the site sewer or septic system).

All drain lines are to be supported a maximum of 4' on center with a minimum of a 1/4" slope per foot.



WATER LINE CHECK VALVE:

A Check Valve, at the water line entrance, is required to prevent accidental drainage of the water heater. **Failure to install the check valve could damage the water heater and void the water heater warranty.*

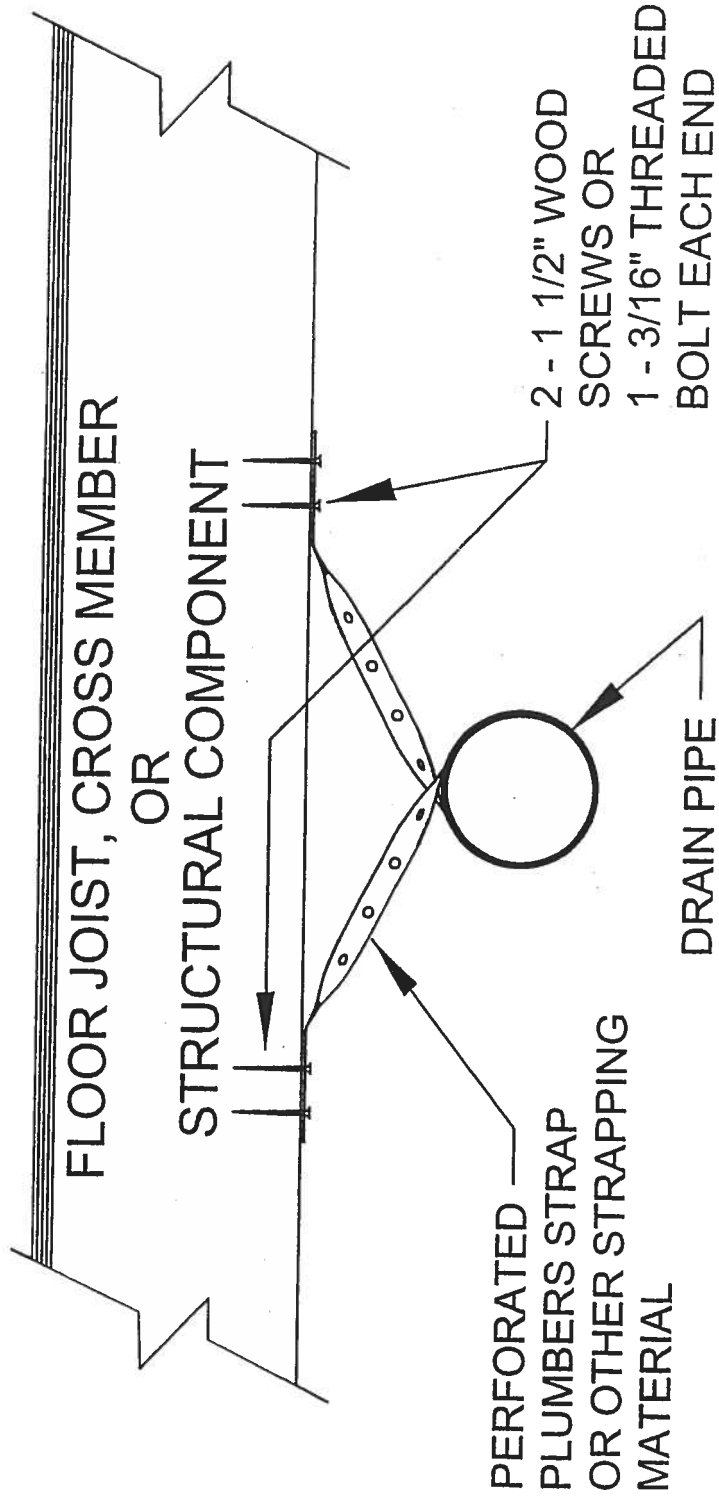
WATER LINE SHUT-OFF VALVE:

A main water shut-off valve for the water system must be installed at the inlet of the water system.

WATER LINE PRESSURE REGULATOR:


A pressure regulator must be installed if water pressure exceeds 80 psi.






NOTE:

- 1). SECURELY WRAPPED AROUND DRAIN PIPE TWICE WITH CARE NOT TO DISTORT DRAIN PIPE.
- 2). SLOPE AND SUPPORT SPACING PER APPROVED SET-UP MANUAL.

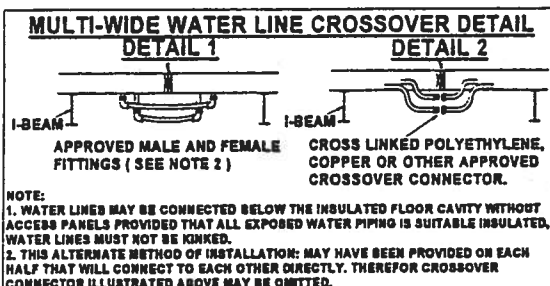
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 APR - 2 2004
 Federal Mobile
 Home Construction
 And Safety Standards


Homes of Merit
 P.O. Box 1008
 Bartow Air Base
 Bartow, Florida 33831

Revisions	
Scale: N.T.S.	Drawn: FP.
Date: 04/01/04	App'd:
Description: DRAIN PIPE SECURITY	
Print #: SU-M-39A	Det:

WATER CROSSOVER

If the home requires a Water Crossover, it will be located under the home at the centerline. An aluminum or other type of cover may have to be removed to make the connection. The hot and cold water lines are identified by a color code.



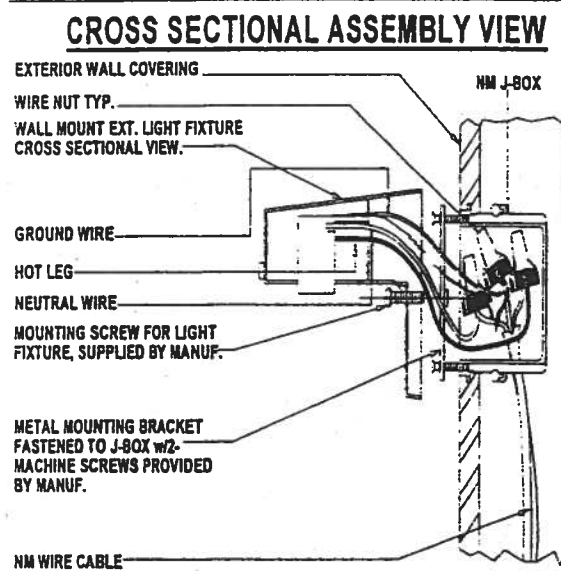
COOLING SYSTEM ADDED TO HOME WITH FACTORY HEAT:

If an air conditioner, which does not use the furnace blower for air distribution and operates independently of the furnace, is installed, the thermostat system must have an Interlock. The Interlock has a heat/cool switch that prevents the two systems from operating simultaneously. The furnace must be equipped with an automatic damper. The damper prevents the cold air from being distributed to the heat exchanger. A damper is available from the furnace manufacturer. Contact your local representative.

FIELD INSTALLED CEILING FAN:

If the home was constructed for field-installed ceiling fans, all necessary preparations were completed; however, please note that the *maximum fan weight cannot exceed 50 pounds and it must be fully self-contained.* *The factory-installed wiring method will not work with fans that require a wall-mounted speed controller. To install the ceiling fan, remove the junction box cover and follow ceiling fan manufacturer instructions.

FIELD INSTALLED LIGHTING:



FIREPLACE INSTALLATION:

If a fireplace is installed in the home, the installation will be complete except for the chimney and perhaps combustion air intake ducts.

"WARNING"
BOTH THE CHIMNEY AND THE COMBUSTION AIR INTAKE DUCTS MUST BE INSTALLED BEFORE THE FIREPLACE CAN BE USED.

To install the chimney, remove the protective materials covering the roof opening or flashing. Remove any foreign material from the installed part of the chimney. All parts and instructions necessary for the installation of the chimney section are provided in the home, located either inside the fireplace or with the chimney parts shipped with the home.

Read all warnings and caution statements carefully.

Refer to the instructions mentioned above for the location of combustion air ducts. If applicable, this duct must be extended to the outside of the home. The combustion air inlet shall not allow material from the hearth to drop beneath the home. Typically, these ducts are



factory installed. However, all instructions necessary for the installation of the combustion air ductwork are provided in the home. Located either inside the fireplace or with the chimney parts shipped with the home. When extension of these ducts is not necessary, make sure to remove any protective covering installed for shipment (i.e.: tape, caps, etc.), before using the fireplace.

MULTIWIDE SECTIONS

EXTERIOR CLOSE UP:

Remove transportation shipping strips installed at the factory, seal all holes in siding with a non-hardening caulk such as Acrylic latex or silicone, follow the manufacture's instructions carefully.

The exterior siding on the front and rear end walls and exposed mating line walls may have been shipped loose by the manufacturing facility with the home. The insulation and vapor retardant have been installed at the manufacturing facility. Exterior siding shall be installed in accordance with the manufacturer's installation instructions. When the rear wall exterior siding is site installed, the H.U.D. tag has been relocated on the sidewall at the manufacturing facility.

CAUTION

THE POLYETHYLENE SHEATHING COVERING EXTERIOR WALLS MUST BE COMPLETELY REMOVED PRIOR TO INSTALLING THE SIDING. FAILURE TO DO SO CAN CAUSE CONDENSATION TO BUILD UP IN THE WALLS AND DAMAGE THE HOME.

MULTI WIDE SECTIONS

INTERIOR CLOSE UP:

Remove all shipping blocking, strapping or bracing from appliances, windows, and doors. Install all loose items packaged or attached for shipping.

All interior wall paneling omitted at the

manufacturing facility and shipped loose to facilitate interior close up shall be installed with a 1/4" bead of PVA adhesive on all framing members and fastened with min. 1" long staples or nails at 6" on center along all panel edges and at 12" on center on field framing members.

For tape and texture homes, interior wall paneling shall be fastened to wall framing members with drywall screws or nails.

Additional molding has been provided to finish the close up at ceiling, mating line walls, front and rear end walls and in some cases molding around passageway doors. Molding and trim work requiring special attention has been detailed by the manufacturing facility and is provided in this manual. All molding and trim work should be installed with fine gauge wire staples or pin nails. Attention should be made to any mitered corners and seam work to assure a tight fit.

INTERIOR DOOR ADJUSTMENT:

Prior to final trim installation, all interior doors should be checked for proper operation. All interior door-framing adjustments should be performed at this time. Door adjustments are part of normal setup and are the responsibility of the setup contractor.

UNFINISHED GYPSUM BOARD:

Homes shipped with unfinished gypsum board walls and/or ceilings shall be finished on site. The interior finished shall have the following maximum flame spread rating measured in accordance with ASTM E84-91a:

Ceilings:	75
Walls: General	200
Adjacent to cooking range	50
Adjacent to or enclosing a	
Furnace or water heater	25

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Home Construction
Inc. Co. St. Louis

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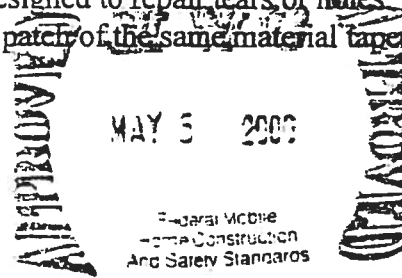


BOTTOMBOARD REPAIR:

Fastened to the underside of the floor of the home is a special covering designed to protect against rodents and moisture as well as to isolate the floor cavity from outside air. This covering was inspected before the home left the manufacturing facility. It is important that any areas damaged or torn during transportation or installation be resealed.

Entry of outside air into the home's floor cavity is one of the most frequent causes of water piping freeze-up. The bottom covering of the home should be closely inspected to determine that there has not been any loosening of its attachment or tears. Opening around the perimeter of the floor covering, around pipes or pipe hangers, splits or tears should be sealed with tape. Check also to ensure that plumbing p-traps are well insulated and covered. It is important that this inspection is made and any necessary repairs completed whether skirting is to be installed around the perimeter of the home or not.

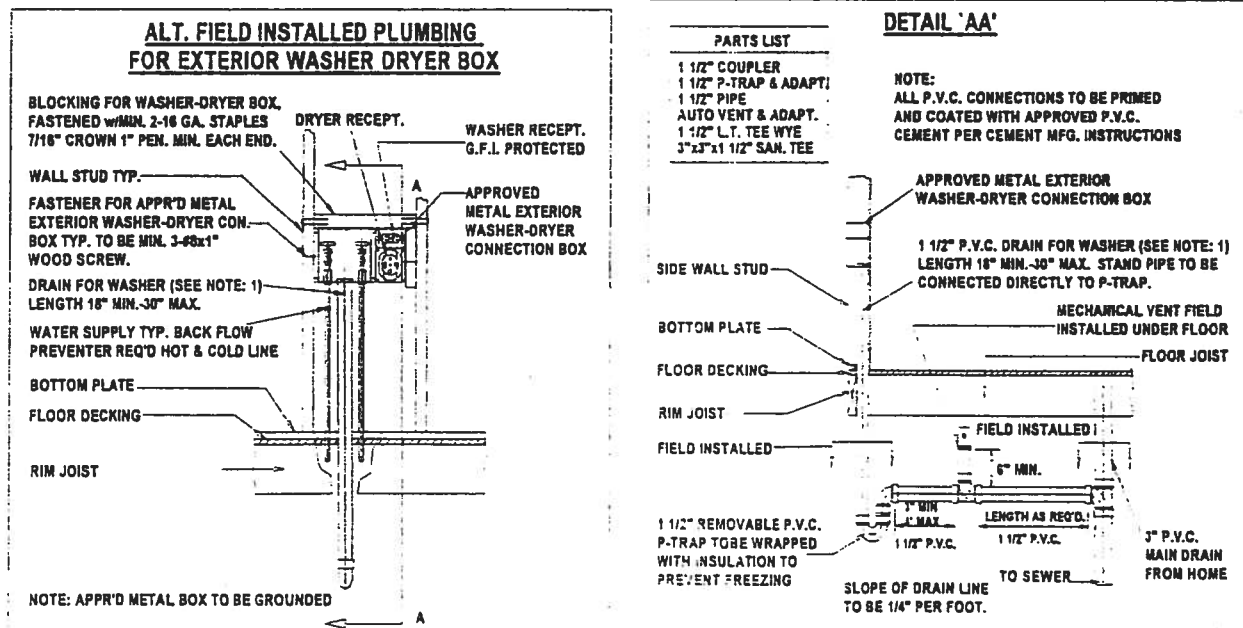
For bottom covering repair use vinyl tape especially designed to repair tears or holes. Pull torn edges together then cover, as necessary, with tape or apply a patch of the same material taped all four sides.



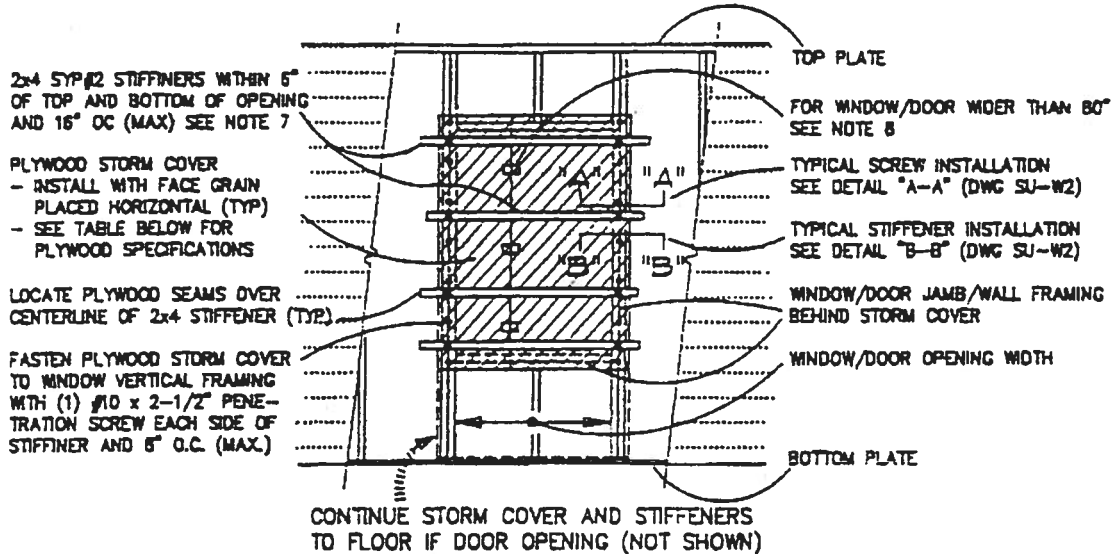
"ATTENTION"

After final installation, all water lines and fittings should be tested for leaks. Proper sizing of wire and breaker are important to eliminate nuisance breaker tripping and electrical damage. Make sure the water heater tank is full of water before turning on the water heater breaker. Failure to comply could result in element damage.

FIELD INSTALLED WASHER AND DRYER BOX:



WINDOW / DOOR STORM PROTECTION



STORM PROTECTION FOR WINDOWS AND DOORS

PLYWOOD STORM COVER SPECIFICATIONS

USE EXTERIOR GRADE RATED SHEATHING PLYWOOD WITH THE MINIMUM THICKNESS AND SPAN INDEX SPECIFIED BELOW:

MAX OPENING WIDTH	MINIMUM THICKNESS	SPAN INDEX
48"	1/2"	24/0
84"	5/8"	32/16

SEE NOTE 7 WHEN OPENING WIDTH EXCEEDS 84"

STORM PROTECTION FOR WINDOWS

GENERAL NOTES:

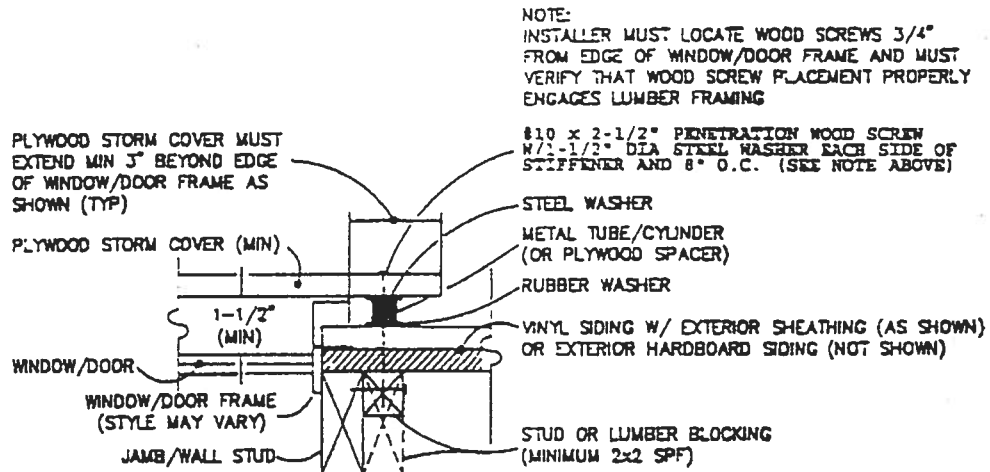
1. INSTALLER MUST REMOVE ALL DECORATIVE SHUTTERS FROM WINDOWS AND DOORS PRIOR TO INSTALLING THE STORM COVERS SPECIFIED ON THIS DRAWING.
2. WHEN HURRICANE OR SEVERE WIND STORMS APPROACH, THE WINDOW AND DOOR PROTECTION COVERS SPECIFIED ON THIS DRAWING SHOULD BE INSTALLED.
3. IMMEDIATELY AFTER INSTALLING THESE COVERS THE BUILDING MUST BE VACATED AND/OR NO OCCUPANTS SHOULD REMAIN IN THE STRUCTURE.
4. NOTE: THIS STORM PROTECTION SYSTEM DOES NOT PERMIT EGRESS FROM THE BUILDING UNDER FIRE OR OTHER EMERGENCY CONDITIONS.
5. AS SOON AS THE STORM HAS SUBSIDED, ALL STORM PROTECTION COVERS MUST IMMEDIATELY REMOVED BEFORE OCCUPANCY OF THE BUILDING IS PERMITTED.
6. ALL WOOD SCREW HOLES RESULTING FROM THE STORM COVER INSTALLATION MUST BE FILLED WITH GOOD QUALITY EXTERIOR GRADE CAULK.
7. WHEN OPENING WIDTH EXCEEDS 84" UP TO A MAXIMUM OF 120", REPLACE 2x4 STIFFENERS WITH 2x6 SPF#2 AND USE 3/4" PLYWOOD WITH SPAN INDEX OF 48/24. ALL OTHER INSTALLATION SPECIFICATIONS REMAIN UNCHANGED.
8. FOR OPENING WIDER THAN 80", LOCATE STORM COVER BUTT JOINT WITHIN 30" OF VERTICAL STUDS AND INSTALL "H" CLIPS BETWEEN LUMBER STIFFENERS AS SHOWN.

P.E. SEAL	THIRD PARTY	REVISIONS	<div style="font-size: 1.5em; font-weight: bold;">HOMES OF MERIT</div>	
		LIFE BY: DATE:	<div style="font-weight: bold;">WINDOW/DOOR STORM PROTECTION</div> <div style="font-weight: bold;">FIELD INSTALLED</div>	
		DRAWN BY: TC		DATE: 1/28/08
		DATE: 1/28/08		SU-W1

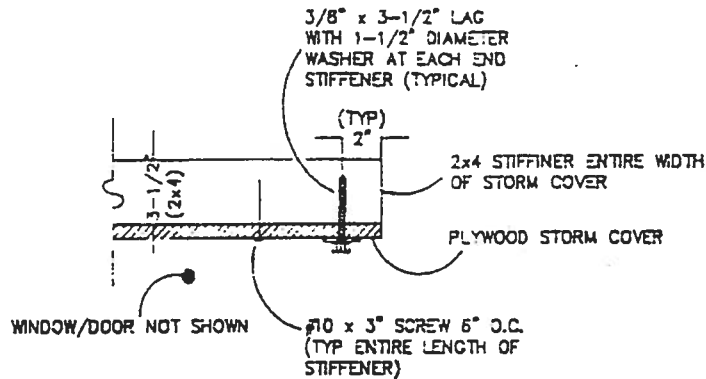
HOMES OF MERIT
Home Construction
and Safety Standards



WINDOW / DOOR STORM PROTECTION



SECTION "A-A"
 (TYPICAL SCREW INSTALLATION)



SECTION "B-B"
 (TYPICAL STIFFENER INSTALLATION)

P.E. SEAL	THIRD PARTY	REVISIONS	
		LTR	BY
		DATE	DATE
		11/14/11	11/14/11
		11/14/11	11/14/11
		11/14/11	11/14/11
HOMES OF MERIT WINDOW/DOOR STORM PROTECTION FIELD INSTALLED			SU-W2
DRAWN BY: TC DATE: 1/28/08			DAPIA NO.: SEC. K.T.S.







MAX. SW
RATING NOT
TO EXCEED
515 PLF

WILLIAM J. KATH, P.E.
11000 N. 11TH AVE.
SINCE 1970
PROFESSIONAL ENGINEER
FLORIDA

WINDZON OF FLORIDA
P.O. Box 1000
Barlow Air Base
Barlow, Florida 32001

(EMPLOYEE OWNED)

Zone I Zone II (100 MPH)
Zone III (110 MPH)

Revisions

Scale: 1/4" = 1'-0"
Date: 03/13/98
Description: HINGE RACER
SPICE

PRINTED: 01-92

SPICE BLOCK TO EXTEND
MIN. 12" ON BOTH SIDES OF
BREAK IN DRAG STRUT.

TRUSS

DRAG STRUT

12" MIN.

HINGE

SPICE BLOCK

VIEW A

IN THE HINGED TRUSS AREA
THERE SHALL BE NO FLUE PIPES,
EXHAUST VENTS, PLUMBING VENTS
INSTALLED.

TOP VIEW

HIGH PITCH TRUSS
WIND ZONE III (110mph)

NOTE: Field installation of roof deck penetration (ie. vent pipe)
in the movable hinged roof
area is not allowed.

FIELD INSTALLED MIN.
3/8" RATED SHEATHING,
OSB, PLYWOOD, ETC.,
FASTENED TO ALL TRUSS
FRAMING MEMBERS
WITH 15 GA. 7/16" CROWN
STAPLE OR EQUAL 2" O.C.

ALL FRAMING

TRUSS

DRAG STRUT

12" MIN.

HINGE

DRAG STRUT

12" MIN.

INSTALL SPICE BLOCK
ON DRAG STRUTS
BLOCK FASTENED TO DRAG STRUT W/
100% PVA GLUE PLUS 6-7/16" X 2 1/2"
15 GA. STAPLES EACH END.

FACTORY INSTALLED
SHEATHING

REF CALC NO 2 APRIL 3, 1998

FIELD INSTALLED SHEARWALL STRUT SPICE AT MIN. OF

APPROVED

ROOF OVER 20°
MAX. KING POST 7' W/12" O.H.

MAXIMUM DISTANCE BETWEEN MARRIAGE WALL FRAME TIE-DOWN STRAPS
MAXIMUM 40" JOIST TO GRADE

WIND ZONE		95 1/2" I-DEAM SPACING			
		60" FLOOR WIDTH			
I (15 PSF)	84" SIDEWALL	NOT REQUIRED			
	90" SIDEWALL	NOT REQUIRED			
II (100 MPH)	84" SIDEWALL	N/A	N/A	N/A	N/A
	90" SIDEWALL	12'-0"	N/A	N/A	N/A
III (110 MPH)	84" SIDEWALL	N/A	N/A	N/A	N/A
	90" SIDEWALL	10'-0"	N/A	N/A	N/A


INSTALL PIERS WITH 15" DIMENSION PERPENDICULAR TO CHASSIS STEEL DEAMS

HIGH PITCH TRUSS

MIN. GROUND ANCHOR CAPACITY 3500#
MAX RAFTER KING POST HEIGHT 7'
MAX 12" O.H.

MAY 3 2000

Engineer: MOORE
For the Construction And Safety Standard



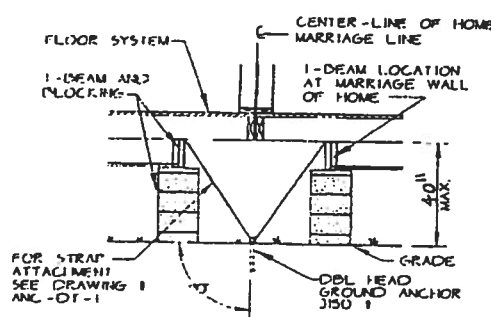
Homes of Merit
P.O. Box 1808
Bartow Air Base
Bartow, Florida 33630

Zone I (100 MPH)
Zone II (110 MPH)

Revisions

Date	Description
5/10/99	

Scale: N/A
Date: 03/17/98
Drawn: ANK
Annot: ANK
Description: MARRIAGE WALL ANCHORING REQUIREMENTS
Print: ANK-OT-6



REF. CALC # 2 - APRIL 3, 1998

SPACING FOR SIDEWALL HURRICANE GROUND ANCHORS
ROOF SLOPES OVER 20°

GROUND ANCHOR DESIGN LOAD 3500# MAX RAFTER KING POST HEIGHT 7'

INSTALL PIERS WITH 15" DIMENSION PERPENDICULAR TO CHASSIS STEEL FRAME
MAX 12" O.H.

DOUBLE WIDE HURRICANE ANCHOR SPACING (FT)

I-DEAM SPACED AT 15' W/2" WITH ROOF SLOPE GREATER THAN 20°

WALL HEIGHT 90" PIER HEIGHT 24" TO 40"

FLOOR WIDTH	SIDEWALL OVERHANG	ZONE I (15 PSF)		ZONE II (100 MPH)		ZONE III (110 MPH)	
		ANCHOR	ANGLE	ANCHOR	ANGLE	ANCHOR	ANGLE
60"	12"	8'	0	8'	20	6.5'	20

Homes of Merit
P.O. Box 1808
Bartow Air Base
Bartow, Florida 33630

Zone I (100 MPH)
Zone II (110 MPH)

Revisions

Date	Description
10/21/96	
4-19-99	
04/28/99	

Scale: N/A
Date: 03/17/98
Drawn: ANK
Annot: ANK
Description: MARRIAGE WALL ANCHORING REQUIREMENTS
Print: ANK-OT-6

● NEAR DEAM METHOD
●● FAR DEAM METHOD

SEE OTHER DRAWINGS FOR MARRIAGE WALL FRAME TIEDOWN SPACINGS

PIER HEIGHT - DISTANCE FROM GROUND TO TOP OF STEEL DEAM

NOTE:

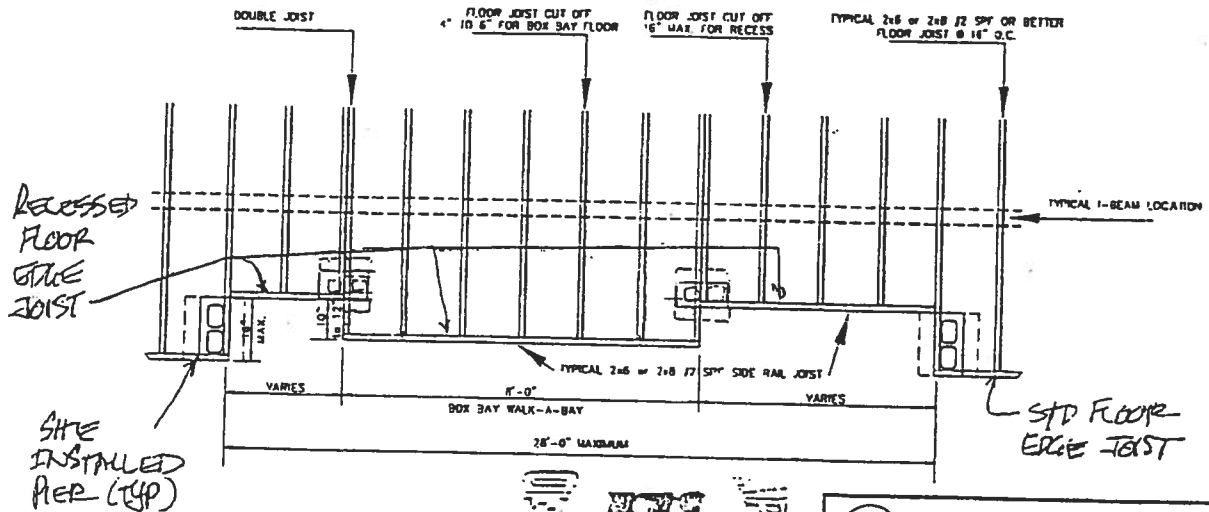
- GROUND ANCHORS TO BE APPROVED FOR 3500# DESIGN LOAD AT 45° AND 3500# AT VERTICAL
- FOR WIND ZONE II (100 MPH) AND WIND ZONE III (110 MPH) VERTICAL TIE IS REQUIRED AT EACH DIAGONAL FRAME TIE.
- FOR OFFSET UNITS, PORCHES, SHED ROOF ETC. SEE SINGLE WIDE GROUND ANCHOR SPACING FOR WALL HEIGHT AND FLOOR WIDTH CONDITIONS.
- FOR CONNECTION REQUIREMENTS SEE DRAWING ANK-OT-1



W. J. [Signature]

STAMP: 1/11/95 11:11 AM 1/11/95 11:11 AM

TOP VIEW OF FLOOR JOIST



NOTE: NO SHEAR WALLS ARE ALLOWED IN THE 28'-0\"/>

REF CALC NO 1 JAN 28 1995

WIND ZONE III (110 MPH)

STAMP: 1/26/95 11:11 AM 1/26/95 11:11 AM

JAN 26 1995

		HOMES OF MERIT, INC. P.O. BOX 2097 NEW YORK, NY 10008 LAKE CITY, FLORIDA 32050	
SCALE: N.E.S.	REVISIONS		
DATE: 7-18-84			
BY: [Signature]			
APPROVED: [Signature]	ARCH2		
MODEL: BOX BAY	ARCH WINDOW		PRICE: \$1,243

STAMP: 5/5/00 11:11 AM 5/5/00 11:11 AM

MAY 5 2000

Federal Mobile Home Construction and Safety Standards

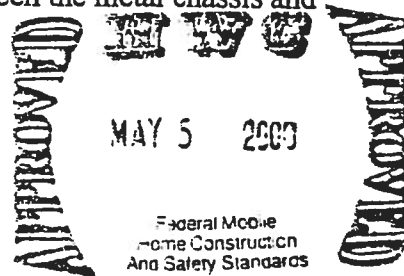
SU-M-48



TESTING OF THE ELECTRICAL SYSTEM:

After your home has been completely assembled and all accessories installed, it should be tested to ensure that no damage occurred during transit and that all electrical connections were properly performed. *Qualified personnel familiar with the local codes and required test procedures should perform these tests.* It is recommended that a polarity test and continuity test of the grounding system and circuit conductors be performed.

1. All exposed non-current carrying metal parts that may become energized must be effectively grounded. A test to confirm this should be made prior to connecting the electrical service to the home.
2. The following checks should be made using a continuity tester or equivalent. Any indication of an inadequate ground requires investigation and correction.
 - a. Using the tester, clip to a convenient ground and touch the other clip to each light canopy. If the fixture is properly grounded the light on the tester will come. On.
 - b. Using the tester, check all appliance or fan.
 - c. Using the same procedure as above, check the grounding between the metal chassis and the following:
 1. Metal gas piping.
 2. Metal water piping.
 3. Metal roof and metal exterior skin.
 4. Metal raceway below the distribution panel.
 5. One metal register boot to a convenient ground.



Note: Grounding is not required on plumbing fixtures such as tubs, faucets, shower risers and metal sinks when connected to plastic water and drain piping.

TESTING OF WATER SYSTEM

Testing of the water system can be performed using a hydrostatic test. The system should be subjected to a hydrostatic pressure of 80psi for fifteen minutes without a loss of pressure.

WARNING

THE WATER HEATER MUST BE ISOLATED FROM THE SYSTEM BY DISCONNECTING THE HOT AND COLD WATER LINES AND JOINING THEM TOGETHER. FAILURE TO DO THIS COULD SEVERELY DAMAGE THE HEATER OR CAUSE AN EXPLOSION.

DRAINAGE SYSTEM TEST

1. Before the system is connected, ensure and outlet caps are securely installed and fill the entire system to the rim of the toilet and release excess air in the system. Tubs and showers should be plugged.
2. Test should be maintained for a period of 15 minutes without the water level dropping. If the water level drops find the leaks and repair them. Retest the system until evidence of all leaks are eliminated.
3. After the system is connected, all fixtures should be filled with water and allowed to drain. Check all joints for visible leaks and ensure all fixtures drain easily.



WARNING

IT IS HIGHLY RECOMMENDED THAT YOUR GAS SYSTEM BE INSTALLED BY A QUALIFIED INDIVIDUAL. DO NOT LIGHT THE PILOT LIGHT ON ANY APPLIANCE THAT HAS NOT BEEN THOROUGHLY CHECKED TO INCLUDE THE INSTALLATION OF ANY VENTS AND/OR FLUES THAT MAY HAVE BEEN SHIPPED WITH THE HOME.

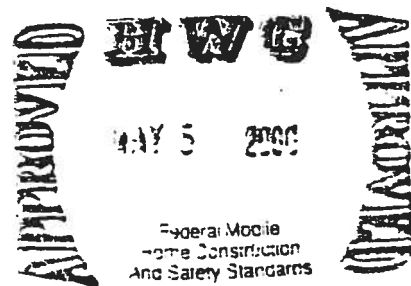
GAS SYSTEM TESTS

Before your system is connected to your gas supply line perform the following checks.

1. To check the gas system for leaks, consult your appliance manufacture's instructions to determine how to close all appliance controls and pilot light valves.
2. Open the gas shut off valve to each appliance.
3. Attach an ounce gauge to the main gas inlet to the home.
4. Pressurize the system to not more than a maximum of 8 ounces of pressure. More than 8 ounces of pressure may damage your appliances or gas supply lines.
5. Apply an ammonia-free soapy water solution to the joints at the ends of the appliance connector. If bubbles form, tighten the connection and recheck with soapy water.

NOTE: DO NOT CHECK BRASS FITTINGS WITH SOAPS THAT CONTAIN AMMONIA.

After completion of the above checks, have your home connected to the gas supply lines. Check the connections as described above for leaks. Ensure water heater is filled before lighting the pilot light.

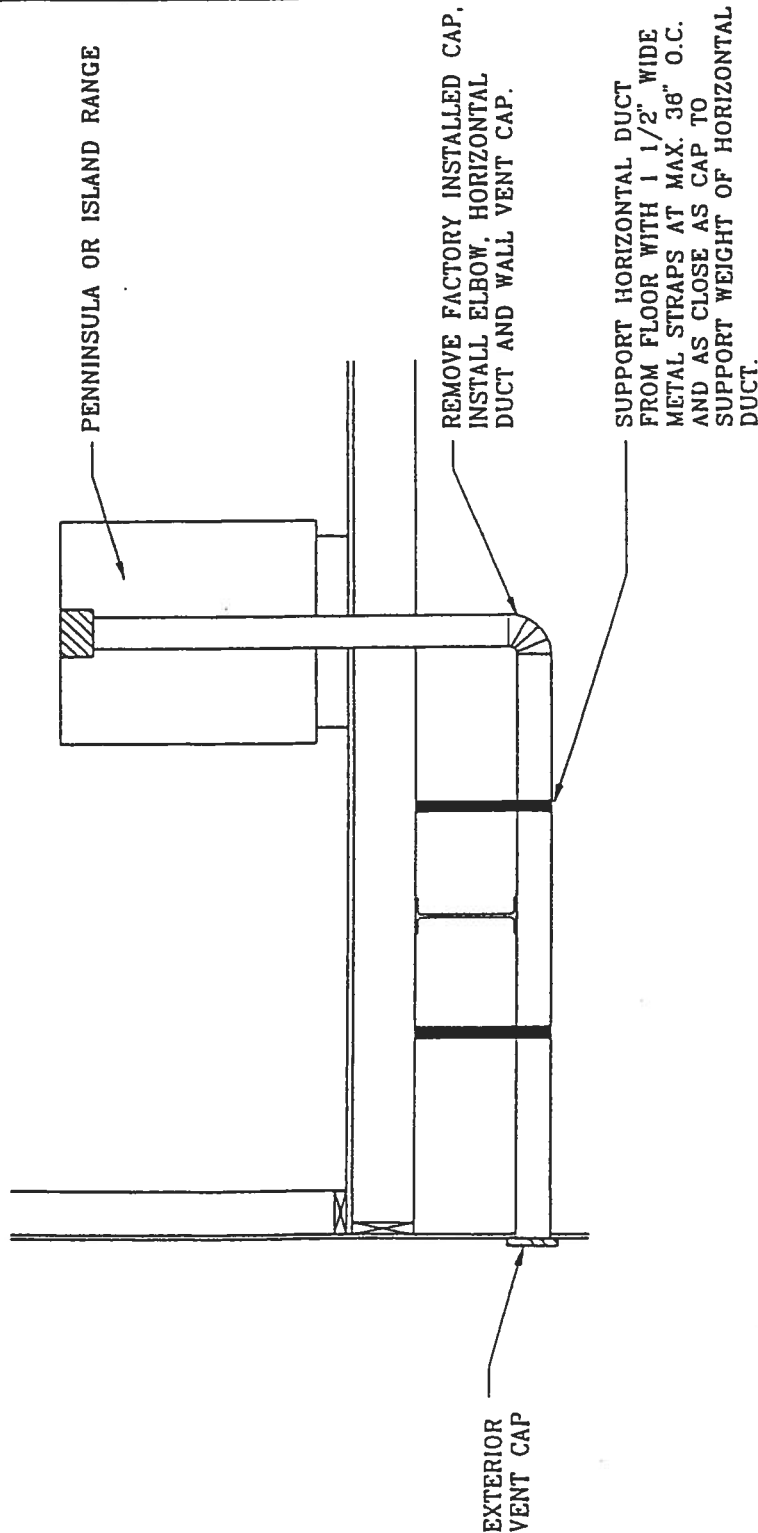


SU-M-50



RANGE VENT DUCT INSTALLATION

THIS HOME MAY BE EQUIPPED WITH A DUCTED, "NO HOOD" VENTILATION SYSTEM FOR THE KITCHEN RANGE. THE DUCT IS BELOW THE FLOOR AND MUST TERMINATE OUTSIDE THE PERIMETER OF THE HOME. INSTALL THE DUCT AND SURFACE WALL CAP, WHICH ARE PROVIDED, IN ACCORDANCE WITH THE RANGE MANUFACTURER'S INSTALLATION INSTRUCTIONS.



NOTE:

RANGE BLOWER MUST BE OPERATED AFTER DUCT INSTALLATION TO CHECK FOR ADEQUATE AIRFLOW. IF AIRFLOW IS INADEQUATE CHECK FOR RESTRICTIONS AND/OR REFER TO THE MANUFACTURED INSTALLATION INSTRUCTIONS FOR MAX. LENGTH OF DUCT AND NUMBER OF TURNS RECOMMEND.

SU-M-51

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JUL 25 2001
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 Home Construction
 And Safety Standards

Homes of Merit
 P.O. Box 1808
 Bartow Air Base
 Bartow, Florida 33831

Zone I Zone II (100 MPH)
 Zone III (110 MPH)

Revisions

Scale: 1/24

Drawn:

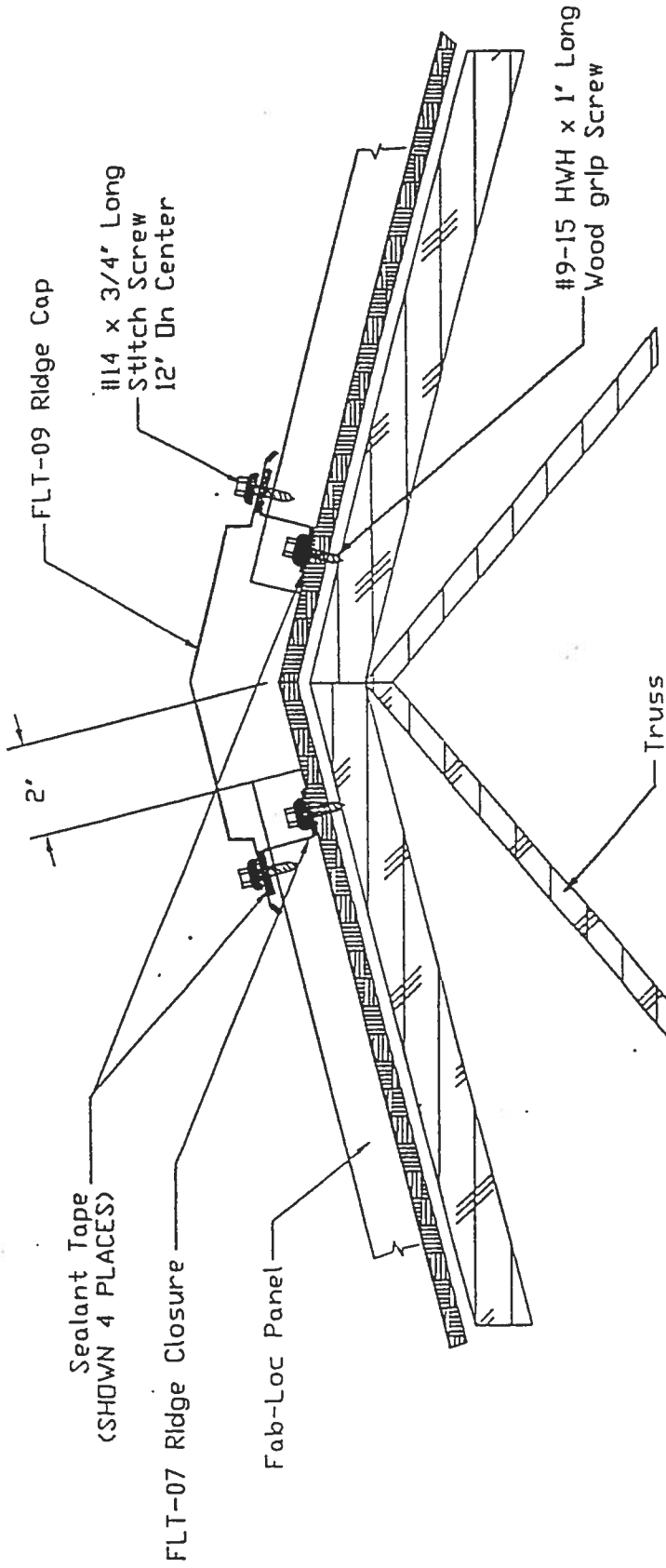
Date: 07/16/01

Appvd:

Description:
 RANGE VENT DUCT
 INSTALLATION

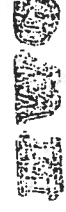
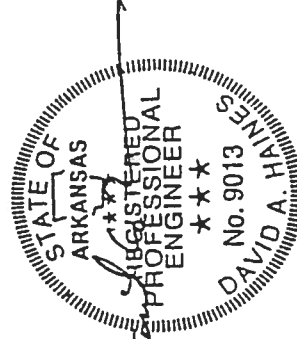
Print #: Det: 3002

SU-M-51



Installation Procedure:

1. Insure that all panels are placed properly, insuring that panels end 2' down from the ridge.
2. Begin the ridge cap installation by installing a bead of 7/8" wide sealant tape 3" down from the ridge across all panels. Insure that the sealant tape follows the panel's contour.
3. Place the metal Z ridge closure FLT-07 on top of the sealant tape and fasten into place using two (2) #9-15 x 1' wood grip screws per panel.
4. After all Z closures have been installed, place a second layer of 7/8" wide sealant tape on the top of the closure. Sealant tape should extend the entire length of the house.
5. Place the ridge cap FLT-09 over the metal Z closures and fasten to the closure using a #14 x 3/4" long stitch screw placed every 12" on each side of the ridge. Ridge cap trims should be end lapped a minimum of 3'.



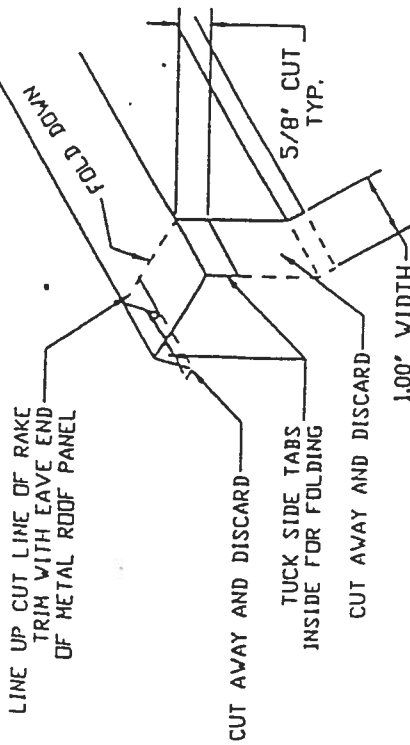
MAR 1 2001

Federal Mobile
Home Construction
And Safety Standards

2	CHANGED INSTALLATION INSTRUCTIONS				12/17/97	
1	Redesign Ridge Cap				6/10/97	
Rev.	Revision No.	Checked by	Approved by - Date	Project No.	Date	Signature
D. Haines					4/24/97	
				Drawing Number		
				FL-06-A		
ABWEL, Inc.				Fab-Loc Installation		
				Ridge Cap Detail		



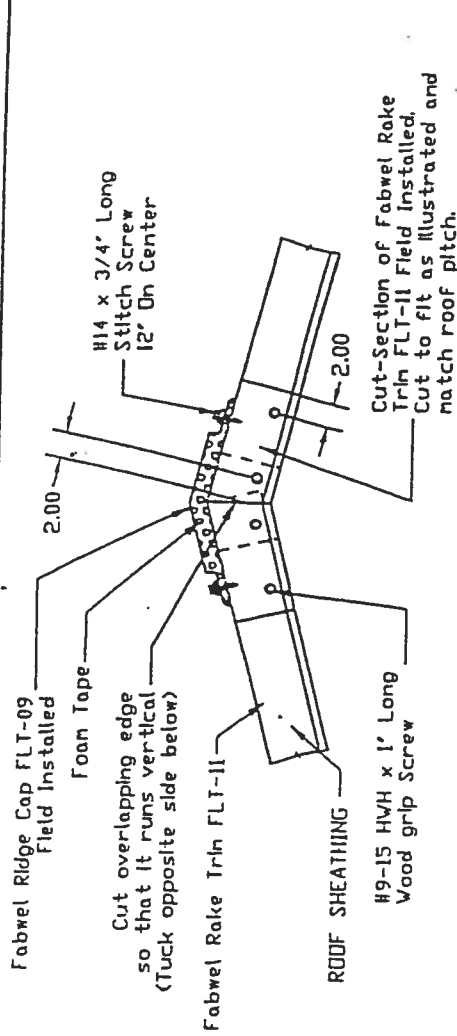
SEE FL. DWGS.



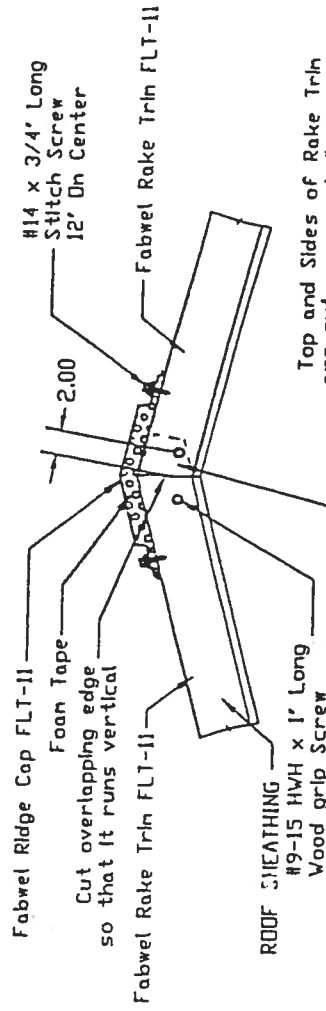
RAKE TRIM CUT OUT
DETAIL FOR EAVE ENDS
ILLUSTRATION NO. 1

INSTALLATION INSTRUCTIONS

1. The rake trim should be installed after all panels, but prior to installation of the ridge cap.
2. To deter the likelihood of insects and small animals from nesting within the open cavities of the Fabwel rake trim and ridge cap the above options of closure are offered.
3. Illustration No. 1 depicts a commonly used method of enclosing the rake trim at the eave end. Trim and fold rake trim as illustrated. Take care to leave enough excess length for trimming.
4. Illustration No. 2 depicts a commonly used method for trimming out the peak where the rake and ridge meet on double wide models. The factory installed rake trim is brought up to the ridge line as describe in your installation package. A cut section, adequate in length to cover the splice of the two halves, is trimmed to follow the pitch of the roof. Take care to trim overlapping half of cut section to allow for a vertical cut line at center of trim piece. The fabrication of the rake trim cut section will likely be done in the field.
5. Illustration No. 3 depicts a commonly used method for trimming out the peak where the rake and ridge meet on single wide models. The front side of the rake trim is trimmed to create an under lap tab. The back side rake trim is trimmed to overlap the front trim with a vertical cut line at the ridge peak.
6. It is recommended that a cell type foam tape be used to enclose the opening between the ridge cap and the finished rake trim pieces.
7. All lapping joints shall be sealed with 1" x 3/32" butyl tape or a gun grade 20 year sealant. All trim pieces should end lap a minimum of 3 inches.
8. Use only specified fasteners.



RAKE DETAIL FOR
DOUBLE WIDE PEAK
ILLUSTRATION NO. 2



RAKE DETAIL
SINGLE WIDE
ILLUSTRATION NO. 3



MAR 1 2001

Federal Mobile
Home Construction
And Safety Standards

Designed by	Checked by	Approved by - Date	Date	Accepted
DAVID A. HANNING			12/24/97	
Project No.			Date	
			12/24/97	
Drawing Number			FL-08C	
Sheet			3 of 3	
Fab-Loc Installation			Cut Out Illustration for Rake Trim	
FABWEL, Inc.				

Cleaning Painted Surfaces

While factory applied finishes for metal building panels are so durable that they will last many years longer than ordinary paints, it is desirable to clean them thoroughly on a routine basis. Over time, dirt-laden atmospheres or slight chalking, which is normal, may cause building panels to appear changed or discolored. A good cleaning will generally restore panel appearance and render repainting or other remedial action unnecessary.

Annual washing with a mild detergent, as explained below, is recommended to maintain the original finish appearance of factory finished building panels. Mild solutions of household soap and water will usually produce the desired results. Either of the following solutions are recommended:

- A. One cup of Tide[®], or other common non-abrasive detergent which contains less than 0.5% phosphate, dissolved in five gallons of warm water, or,

NOTE: The use of detergents containing greater than 0.5% phosphate are not recommended for general cleaning of building panels. NEVER BLEND STRONG CLEANERS AND BLEACH, except as detailed below.

- B. One cup of household ammonia dissolved in five gallons of room temperature water.

Work from top to bottom of the panel surface. Use a well soaked soft cloth, sponge, very soft bristle brush or low pressure spray washer. Do not use scouring powders, industrial strength cleaners or solvents, since these chemical agents may damage the film. However, household cleaners containing small amounts of solvent, such as Fantastic[®], may often be used successfully. If mildew or other fungal growth is observed and cannot be removed as above, mix one gallon of household bleach in five gallons of water along with one cup of mild soap (e.g. Ivory[®] liquid) to aid wetting. Do not allow the cleaning solution to dry on the panel being cleaned.

The final step of any cleaning procedure is thorough clear water rinse to remove dirt and/or cleaning agent residue. Such residues may affect repaint adhesion or otherwise damage the paint finish.

It is recommended that you "test clean" a small area to be certain that satisfactory results are achieved with whatever combination of cleaning solutions and procedures you use before starting on the entire area or building.

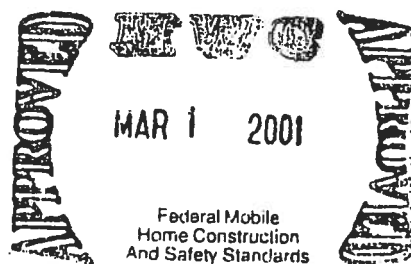
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FABWEL

AN OWENS CORNING COMPANY

Limited Warranty
Architectural Steel Roofing Systems

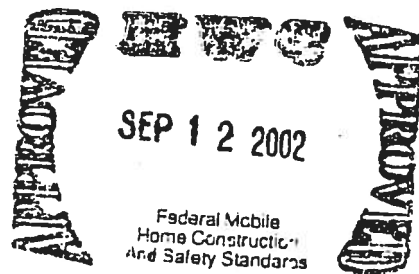
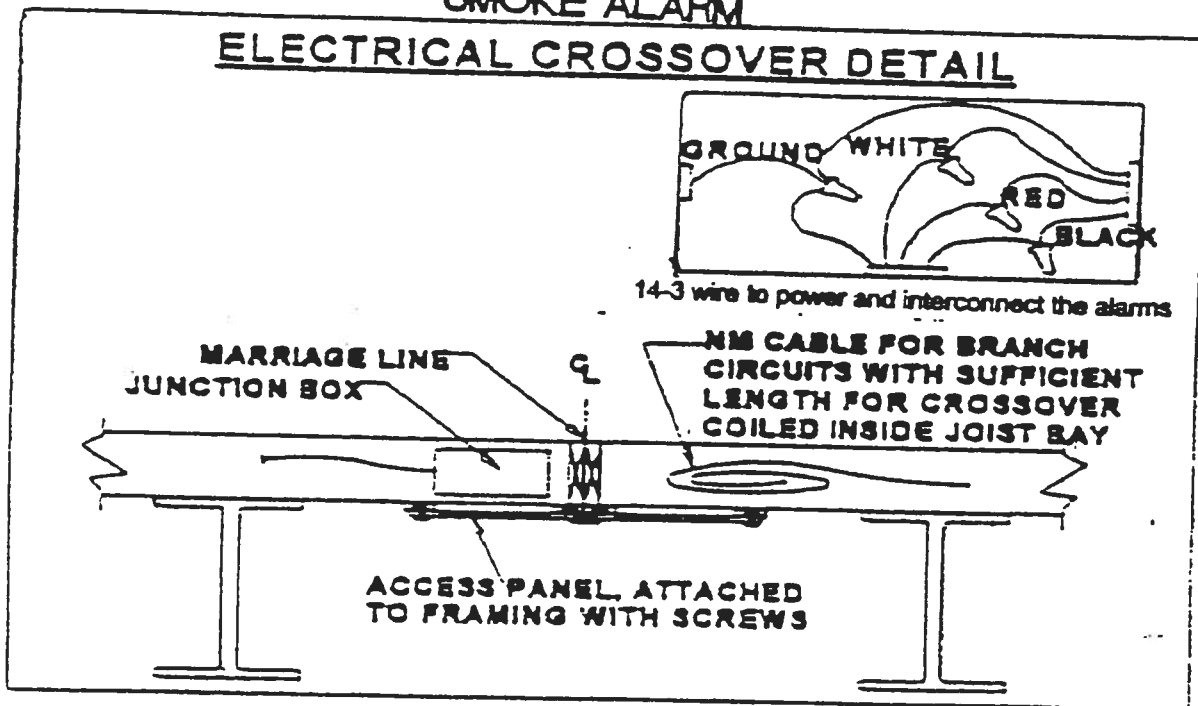
FabLOC - TRU-Rib - 5V
Painted
Ceram-A-Star[™]
Silicone Polyester Finishes



HOMES OF MERIT MULTI-WIDE SETUP MANUAL

SU-M-54

SMOKE ALARM ELECTRICAL CROSSOVER DETAIL



SU-M-55



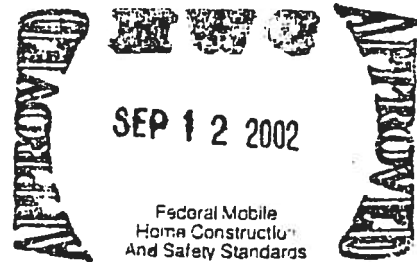
SMOKE ALARM TESTING PROCEDURE

The following test is to be performed on the smoke alarm system.

Smoke Alarm Operational Test

Test Procedure:

1. All interconnected smoke alarms must be tested individually, one at a time. Assure that all units are connected and that each sounds an alarm while each is tested.
2. Once connections are made, press and hold the test button on the cover of the smoke alarm until the alarm sounds. Verify all other smoke alarms interconnected will sound the alarm. Note: When installed, make sure visual alarm (strobe light) is operating as well during testing.
3. Step 2 above is to be performed on each smoke alarm installed.
4. If an error is indicated in the fixture(s), it must be repaired as required and retest. If the alarm does not function correctly on the retest, the defective alarm must be replaced with a new alarm and the new alarm retested.



SU-MI-56



