Mobile Home Permit Worksheet

Installer : Jaocb Tro	owell		L	icense #_II	11148380		
Address of home being installed	Parcel 35-4	S-15-0040	7-123				
Manufacturer Tow	n Homes		Len	gth x width	48X	32	
NOTE: if hom if hom I understand Late where the sidewa	ne is a single ne is a triple eral Arm Syst all ties exceed	or quad w tems cann	vide sketc not be used	h in remai	inder of he ome (new o	ome	
Typical pier spacing	3 > 1		mst	aner s mua	115		
2' 5' 🖌	la	teral					
$ \longleftrightarrow$	— <u></u>	Sho	w location (use darl	s of Longit clines to s	tudinal and how these	Lateral Si locations)	ystems
		Ways and			- Comment		_
			=			+	+
<u> </u>			ш			-	
						Ц	Ц
L(TT)							[[]]
	_	_					
		+	=			$-\Box$	$-\Box$
	(1000-2 4)		marriage	wall piers within	n 2' of end of ho	me per Rule 15	С
		\Box		\Box	\Box	1	\blacksquare
		Ц		Ц	Ц		Ш
		1-1-1-1					
				A STREET, STREET,	William.		
+++++++	++++	+++	± //	Junty Bu	ilding		
			10	Maria Play	10	1	++++
		1111	Columbia	Review	wed sode		
	++++		15	for Co	ode		
		+++	131	Compli	ance/§	1	
		1111					
				are of t	lorio		Pa

lication Number	er:			Date:	
New Home	х	Used Home			
		/lanufacturer's Inscordance with Ru		Manual	x
Single wide		Wind Zone II	x	Wind Zone III	
Double wide	Х	Installation De	cal#		
Triple/Quad		Serial #			

PIER SPACING TABLE FOR USED HOMES

Load bearing capacity	Footer size (sq in)	16" x 16" (256)	18 1/2" x 18 1/2" (342)	20" x 20" (400)	22" x 22" (484)*	24" X 24" (576)*	26" x 26" (676)
1000	psf	3'	4'	5'	6'	7'	8'
1500		4' 6"	6'	7'	8'	8'	8'
2000		6'	8'	8'	8'	8'	8'
2500		7' 6"	8'	8'	8'	8'	8'
3000		8'	8'	8'	8'	8'	8'
3500		8'	8'	8'	8'	8'	8'

* interpolated from Rule 15C-1 pier spacing table.

PIER PAD SIZES

17x25 I-beam pier pad size 16x16 Perimeter pier pad size

Other pier pad sizes (required by the mfg.)

Draw the approximate locations of marriage wall openings 4 foot or greater. Use this symbol to show the piers.

List all marriage wall openings greater than 4 foot and their pier pad sizes below.

> Pier pad size Opening

TIEDOWN COMPONENTS

Longitudinal Stabilizing Device (LSD) 4
Manufacturer Oliver Technologies
Longitudinal Stabilizing Device w/ Lateral Arms Manufacturer Oliver Technologies

POPULAR PAD SIZES

Pad Size	SqIn
16 x 16	256
16 x 18	288
18.5 x 18.5	342
16 x 22.5	360
17 x 22	374
13 1/4 x 26 1/4	348
20 x 20	400
17 3/16 x 25 3/16	441
17 1/2 x 25 1/2	446
24 x 24	576
26 x 26	676

ANCHORS

4 ft sidewall 5 ft marriage

FRAME TIES

within 2' of end of home spaced at 5' 4" oc

OTHER TIES

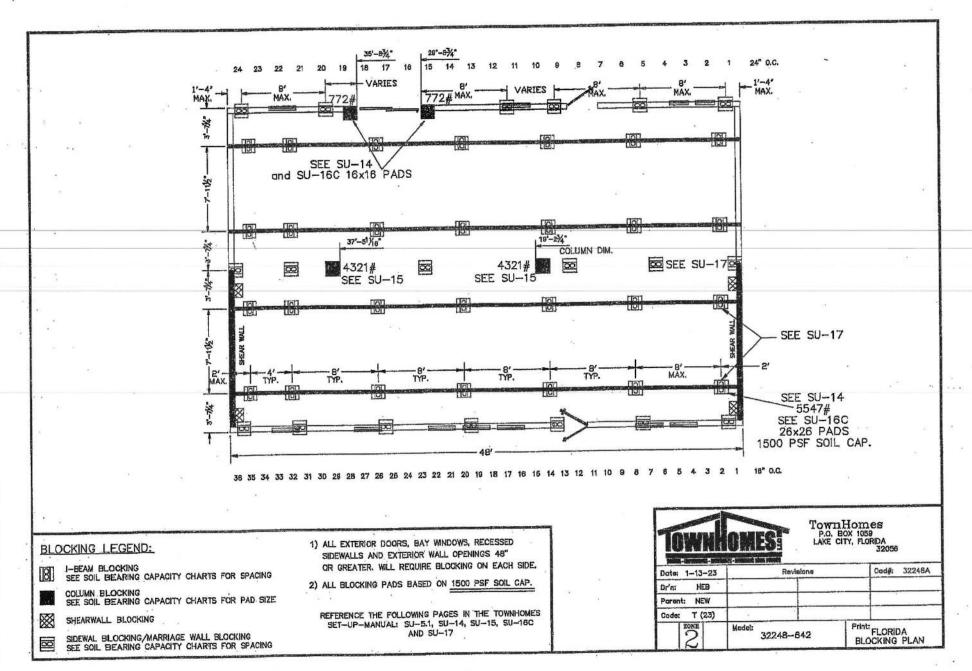
Sidewall Longitudinal Marriage wall Shearwall

Number TBD N/A TBD TBD

Mobile Home Permit Worksheet

	PO	CKET PENETROMETE	R TEST	
The pocket p	enetrometer te e to declare 10	sts are rounded down to	o 1500 psf out testing.	
<u>, </u>	x	x	x	
	 Test the p Take the Using 50 	PENETROMETER TEST perimeter of the home a reading at the depth of 0 lb. increments, take the and round down to that	the footer.	
	x	x	x	
[TORQUE PROBE TE	ST	
here if you an showing 275 Note: A sta	re declaring 5' a inch pounds o	obe test is 285 anchors without testing r less will require 5 foot teral arm system is bein I at the sidewall location	A test anchors.	
anch readi	ors are require ng is 275 or les	d at all centerline tie poi ss and where the mobile th 4000 lb holding capa	ints where the torque tes home manufacturer ma	it
ALL TE	STS MUST BE	PERFORMED BY A L	ICENSED INSTALLER	
Installer Name	Jacob ⁻	Trowell		
Date Tested	10/26	/24		
		Electrical		
Connect electrica source. This inclu	al conductors budes the bondir		, but not to the main pow ide units. Pg. 34	/er
		Plumbing		
Connect all sewer	r drains to an e	xisting sewer tap or sep	tic tank. Pg. 36	
Connect all potab independent water	le water supply er supply syster	piping to an existing wants. Pg. 36	ater meter, water tap, or	other

oncation	Number:Date:
	Site Preparation
Dahria a	and organic material removed X
	rainage: Natural Swale Pad X Other
FARIE MOON AND	Fastening multi wide units
Floor:	Type Fastener: Lag Length: 6" Spacing: 18"
Walls:	Type Fastener: Lag Length: 6" Spacing: 18" Type Fastener: Screw Length: 4" Spacing: 18" Type FastenerSteel strap Length: 10" Spacing: 32" Type FastenerSteel strap Length: 10" Spacing: 32"
Roof:	Type Fastener Steel strap Length: 10" Spacing: 32"
	For used homes a min, 30 gauge, 8" wide, galvanized metal strip
	will be centered over the peak of the roof and fastened with galv. roofing nails at 2" on center on both sides of the centerline.
	rooting halls at 2" on center on both sides of the centerline.
	Gasket (weatherproofing requirement)
unders	stand a properly installed gasket is a requirement of all new and used
homes a	and that condensation, mold, meldew and buckled marriage walls are
	of a poorly installed or no gasket being installed. I understand a strip
of tape v	will not serve as a gasket. Installer's initials
	nsket manufacture provided Installed:
Pg. 13	Between Floors Yes X Between Walls Yes X
	Bottom of ridgebeam Yes X
	Weatherproofing
The both	tomboard will be repaired and/or taped. Yes X Pg. 39
Siding o	on units is installed to manufacturer's specifications. Yes be chimney installed so as not to allow intrusion of rain water. Yes
riiepiac	e chilling histalied so as not to allow intrusion of fair water. Tes
	Miscellaneous
Skirtina	to be installed. Yes X No
Drver ve	ent installed outside of skirting. Yes N/A X
Range of	downflow vent installed outside of skirting. YesN/A _^
Drain lir	nes supported at 4 foot intervals. Yes X
Electrica Other :	al crossovers protected. Yes _^
Outer.	
Inst	aller verifies all information given with this permit worksheet
Marca Till	is accurate and true based on the
ma	anufacturer's installation instructions and or Rule 15C-1 & 2
1 1 0	r Signature Land Ford Date 10/26/24
installer	r Signature Law Town Date 10/26/24



Order #: 6437 Label #: 116122	Manufacturer:	(Check Size of Home)
Homeowner: Hill-Bacon	Year Model:	Single
Address:	Length & Width:	Double
		Triple
City/State/Zip:	Type Longitudinal System:	HUD Label #:
Phone #:	Type Lateral Arm System:	Soil Bearing / PSF:
Date Installed:	New Home: Used Home:	Torque Probe / in-lbs:
Installed Wind Zone:	Data Plate Wind Zone:	Permit #:
Note:		

の 日本	11日の日本の日本の日本の日本の日本の日本の日本の日本の日本の日本の日本の日本の日本
· ·	
	NOTATE TO A STATE OF THE PARTY
サルル サイン・サイン・サイン・サイン・サイン・サイン・サイン・サイン・サイン・サイン・	NAME
	JACOB T. TROWELL
	1000年の日本の日本の日本の日本の日本の日本の日本の日本の日本の日本の日本の日本の日本の
DATE OF INSTALLATION	LABEL#
	110122
TIFICATION LABEL	INSTALLATION CERTIFICATION LABEL
PLOKIDA	STATE OF FLORIDA
1) 1	בול לודי עדי

X | A

田田田

INSTRUCTIONS

PROVIDE COPIES WHEN REQUESTED. YOU ARE REQUIRED TO FOR A MINIMUM OF 2 YEARS. ABOVE AND KEEP ON FILE COMPLETE INFORMATION OR MARKER ONLY. PLEASE WRITE DATE OF USE PERMANENT INK PEN LABEL NEXT TO HUD LABEL. INSTALLATION AND AFFIX



MODEL 1101 "V" SERIES ALL STEEL FOUNDATION SYSTEM PAN & CONCRETE (revision 5/18) INSTALLATION INSTRUCTIONS FOR FLORIDA OLIVER TECHNOLOGIES, INC.

PATENT# 6634150 & OTHER PATENT PENDING





467 Swan Ave • Hohenwald, TN 38462 • (800) 284-7437 • www.olivertechnologies.com • Fax (931) 796-8811



FOR CONCRETE APPLICATIONS: Follow Steps 15-18 LATERAL ONLY: Follow Steps 1-3 and Steps 10-14 **LONGITUDINAL ONLY: Follow Steps 1-9** MODEL 1101"V" (Steps 1-14)

ENGINEERS STAMP

ENGINEERS STAMP

- 1. SPECIAL CIRCUMSTANCES: If the following conditions occur STOP! Contact Oliver Technologies at 1-800-284-7437:
- a) Pier height exceeds 48"
- e) Location is within 1500 feet of coast
- b) length of home exceeds 76' c) Roof eaves exceed 16" d) Sidewall height exceed 96"

INSTALLATION OF GROUND PAN

- 2. Remove weeds and debris in an approximate two foot square to expose firm soil for each ground pan (C).
- 3. Place ground pan (C) directly below chassis I-beam. Press or drive pan firmly into soil until flush or below soil then install pier per manufacturer's instructions or per Florida Regs.
- **SPECIAL NOTE:** The longitudinal "V" brace system may also serve as a pier under the home and should be loaded as any other pier. It is recommended that after leveling piers, and one-third inch (1/3") before home is lowered completely on to piers, complete

steps 4 through 9 below then remove jacks. INSTALLATION OF LONGITUDINAL "V" BRACE SYSTEM (Model 1101 L "V")

USED TO DETERMINE CORRECT TYPE OF ANCHOR PER SOIL CLASSIFICATION. IF PROBE TEST READINGS ARE BETWEEN 175 & 275 A 5 FOOT ANCHOR MUST NOTE: WHEN INSTALLING THE LONGITUDINAL SYSTEM ONLY, A MINIMUM OF 2 SYSTEMS PER FLOOR SECTION IS REQUIRED. SOIL TEST PROBE SHOULD BE STABILIZER PLATES EVERY 5'4". VERTICAL TIES ARE ALSO REQUIRED ON HOMES SUPPLIED WITH VERTICAL TIE CONNECTION POINTS (PER FLORIDA REG.). BE USED. IF PROBE TEST READINGS ARE BETWEEN 276 & 350 A 4 FOOT ANCHOR MAY BE USED. USE GROUND ANCHORS WITH DIAGONAL TIES AND

4. . Choose one of the approved longitudinal tube installations; either Diagram A or B. Then select the correct square tube (E) length from the diagram for appropriate pier height at support location or cut and drill 1.5" square tube to achieve appropriate length.

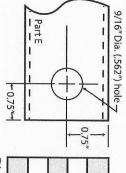
40" to 48"	33" to 41"	24 3/4" to 32 1 /4"	7 3/4" to 25"
54"	44"	32"	22"
18"	18"	18"	18"

(40° Min. - 45° Max.)

Tube Length

Tube Length

Diagram A



173	~ 0.75″→	Part E	().		9/16" Dia. (.562") hole 7
	36" to 48"	30" to 40"	24" to 35"	18" to 25"	14" to 18"	(40° Min 60° Max.)

14" to 18"	20"
18" to 25"	28"
24" to 35"	39"
30" to 40"	44"
36" to 48"	54"
Diagram B	

Tube Length

- 5. Install (2) of the 1.50" square tubes (E) into the "U" bracket (J), insert carriage bolt and leave nut loose for final adjustment. 6. Place I-beam connector (F) loosely on the bottom flange of the I-beam.
- . Place I-beam connector (F) loosely on the bottom flange of the I-beam.
- 7. with bolt and nut. (For Diagram B installation) Attach the selected 1.5" tubes (E) to the I-beam connectors (F) and fasten loosely with bolts (For Diagram A installation) Slide the selected 1.25" tube (E) into a 1.50" tube (E) and attach to I-beam connectors (F) and fasten loosely
- 00 . Repeat steps 6 through 7 to create the "V" pattern of the square tubes loosely in place.
- 9 . Using standard hand tools tighten all nuts and bolts. (For Diagram A installation only, secure 1.25" and 1.50" tubes using four(4) 1 /4"-14 x 3/4" self-tapping screws in pre-drilled holes.)

INSTALLATION OF LATERAL TELESCOPING TRANSVERSE ARM SYSTEM (Model 1101 T "V")

THE MODEL 1101 "V" (LONGITUDINAL & LATERAL PROTECTION) ELIMINATES THE NEED FOR STABILIZER PLATES & FRAME TIES **NOTE:** THE USE OF THIS SYSTEM REQUIRES VERTICAL TIES SPACED AT 5'4".

FOUR FOOT (4") GROUND ANCHOR MAY BE USED EXCEPT WHERE THE HOME MANUFACTURER SPECIFIES DIFFERENT

- 10. Install remaining vertical tie-down straps and 4' ground anchors per home manufacturer's instructions. NOTE: Centerline anchors require a 5' anchor per Florida Code. to be sized according to soil torque condition. Any manufacturer's specifications for sidewall anchor loads in excess of 4,000 lbs.
- 11. Select the correct square tube brace (H) length for set-up lateral transverse at support location. The lengths come in either 60" or 72" lengths. (With the 1.50" tube as the bottom tube, and the 1.25" tube as the inserted tube.)
- 12. Install the 1.50 transverse brace (H) to the ground pan connector (D) with bolt and nut.
- Slide 1.25" transverse brace into the 1.50" brace and attach to adjacent I-beam connector (1) with bolt and nut.
- 14. Secure 1.50" transverse arm to 1.25" transverse arm using four (4) 1 /4" 14 x 3/4" self-tapping screws in pre-drilled holes.

Revision 08/23/1:



467 Swan Ave • Hohenwald, TN 38462 • (800) 284-7437 • www.olivertechnologies.com • Fax (931) 796-8811

INSTALLATION USING CONCRETE RUNNER/FOOTER

- 15. A concrete runner, footer or slab may be used in place of the steel ground pan.
- The concrete shall be minimum 2500 psi mix
- 9 A concrete runner may be either longitudinal or transverse, and must be a minimum of 8" deep with a minimum width of 16 inches longitudinally or 18 inches transverse to allow proper distance between the concrete bolt and the edge of the concrete (see below).
- Footers must have minimum surface area of 441 sq. in. (I.e. 21" square), and must be a minimum of 8" deep.
- d) If a full slab is used, the depth must be a 4" minimum . Special inspection of the system bracket installation is not required. Footers must allow for at least 4" from the concrete bolt to the edge of the concrete.

NOTE: The bottom of all footings, pads, slabs and runners must be per local jurisdiction.

LONGITUDINAL: (Model 1101 LC "V")

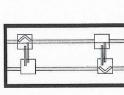
When using Part# 1101-W-CPCA (wetset) simply install the bracket in runner/footer OR When installing in cured concrete use Part# down by hitting the nut (making sure not to hit the top of threads on bolt). The sleeve of concrete wedge bolt needs to be at or below th holes, then place 1101 (dry set) CA bracket onto wedge bolts and start wedge bolt nuts. Take a hammer and lightly drive the wedge bolt masonry bit, drill a hole to a minimum depth of 3". Make sure all dust and concrete is blown out of the holes. Place wedge bolts into drille S162300H 5/8" X 3" or Powers equivalent). Place the CA bracket in desired location. Mark bolt hole locations, then using a 5/8" diameter top of concrete. Complete by tightening nuts. 101-D-CPCA (dryset). The 1101 (dryset) CA bracket is attached to the concrete using (2) 5/8"x3" concrete wedge bolts (Simpson part #

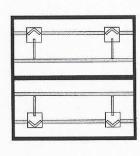
LATERAL: (Model 1101 TC "V")

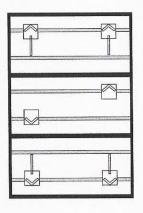
- 17. For wet set (part # 1101-W-TACA) installation simply install the anchor bolt into runner/footer. For dry set installation (part # 1101-D-TAC/ connector and into drilled hole. If needed, take a hammer and lightly drive the wedge bolts down by hitting the nut (making sure not to hit the top of threads on bolt), then remove the nut. The sleeve of concrete wedge bolt needs to be at or below the top of concrete. blown out of the hole. Place wedge bolts (Simpson part #S162300H 5/8" X 3" or Powers equivalent) into (D) concrete dry transverse mark bolt hole locations, then using a 5/8" diam. masonry bit. drill a hole to a minimum depth of 3". Make sure all dust and concrete is
- 18. When using part# 1101 CVW (wetset) or 1101 CVD (dryset), install per steps 17 & 18.

- Notes:
 1. LENGTH OF HOUSE IS THE ACTUAL BOX SIZE
- = LOCATION OF TRANSVERSE BRACING ONLY
- W = LOCATION OF LONGITUDINAL BRACING ONLY
- = TRANSVERSE AND LONGITUDINAL LOCATIONS

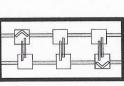
ALL WIDTHS AND LENGTHS UP TO 52

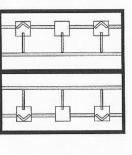


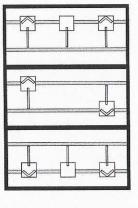




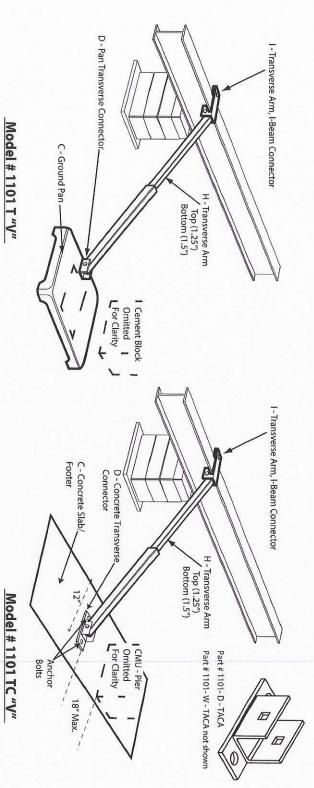
ALL WIDTHS AND LENGTHS OVER 52' TO 80"







6 systems for home lengths up to 52' and 8 systems for homes over 52' and up 80' HOMES WITH 5/12 ROOF PITCH REQUIRE: PER FLORIDA REGULATIONS PATENT# 6634150 & OTHER PATENT PENDING



straps are in excess of 4,000 lbs. These locations require a 5' anchor. Per Florida code. Florida approved 4' ground anchors may be used in all locations except where home manufacturers specifications for sidewall

C = GROUND PAN / CONCRETE FOOTER OR RUNNER

D = GROUND PAN / CONCRETE U BRACKETS TRANSVERSE CONNECTOR (connects with grade 5 - 1/2" x 2" 1/2" carriage bolt and nut)

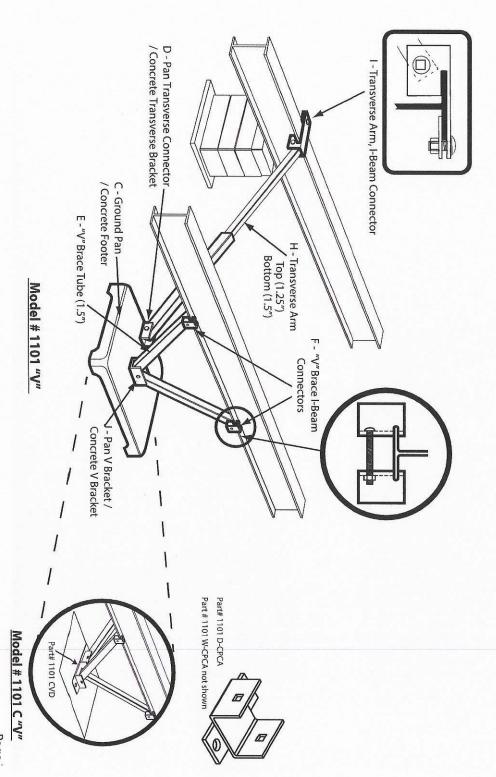
E = TELESCOPING V BRACE TUBE ASSEMBLY (1.5" TUBE BOTTOM AND 1.25" TUBE INSERT) OR 1.5" TUBE

F = "V" BRACE I-BEAM CONNECTOR ASSEMBLY

H = TELESCOPING TRANSVERSE ARM ASSEMBLY

 $I = TRANSVERSE \ ARM \ I-BEAM \ CONNECTOR \ (connects \ with \ grade \ 5 - 1/2" \times 2" \ 1/2" \ carriage \ bolt \ and \ nut)$

J = V PAN BRACKET (connects with grade 5 - 1/2" x 2" 1/2" carriage bolt and nut)





State of Florida

HIGHWAY SAFETY AND MOTOR DEPARTMENT OF **VEHICLES**

TALLAHASSEE, FLORIDA 32399-0500

Executive Director

October 27, 1999

Mr. Lon Larson, General Manager
Manufactured Housing Foundation Systems
A Division of Oliver Technologies
562 Glenheather Drive
San Marcos, California 92069

Dear Mr. Larson:

and Safety Standards, § 3280.305 and § 3280.401 and with the rules and regulations set forth by the Department of Highway Safety and Motor Vehicles, Florida Administrative Rule Code your Adjustable Outrigger listed below complies with the Federal Manufactured Construction 15C-1.01105. We wish to acknowledge receipt of your print specifications and test results certifying

in Florida when the installation instructions showing the way the outrigger was tested, are provided. Based on the information submitted to the bureau, the following product is listed for use

oper Aracket Dine & Screw Adjust	Adjustable Out	1055-11
ALICIA DESCRIPTION	TANCTALL	IN MANAGEMENT

NOTE: The outrigger was tested on September 19, 1999, for an allowable load of 1700 pounds.

If you have any questions, please advise at (850) 413-7600.

Sincerely,

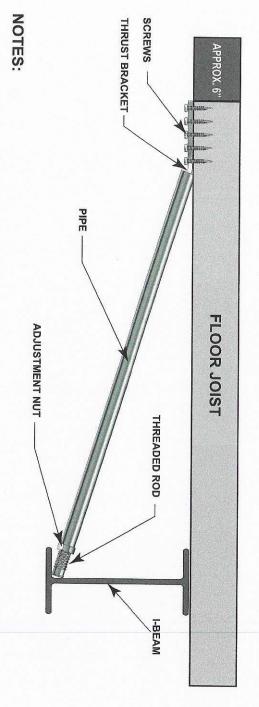
Phil Bergelt, Program Manager
Buteau of Mobile Home and
Recreational Vehicle Construction
Division of Motor Vehicles

PB:bsc



Adjustable Outrigger Installation Instructions OLIVER TECHNOLOGIES, INC MODEL # 1055-11

- Locate the floor joist that requires support
- N Mark the I-Beam directly under the floor joist to align the outrigger.
- ယ Adjust the nut on the threaded rod so it clears the frame flange for easy adjustment.
- 4 Set the threaded rod in the pipe and against the frame
- S screws to the floor joist. The thrust bracket should be approximately 6" from the outside rim joist. Set the notched end of the thrust bracket into the end of the pipe and secure it with $5 \# 12 \times 2$ "
- <u>က</u> Bottom board and insulation should be between the bracket and the joist.
- 7. For minor adjustments align the door and window openings by tightening or loosening the adjustment outrigger. For all other adjustments use a hydraulic jack to raise the floor joist before installation of the



Listing # 1055-11 Patent # 6.334.279

*REMOVE OUTRIGGER WHEN HOME IS BEING TRANSPORTED
*SPECIFY WIDTH OF HOME WHEN ORDERING OUTRIGGER. PIPE MAY BE CUT TO FIT
*THE ADJUSTABLE OUTRIGGERS SHALL ONLY BE USED ON HOMES FOR OPENINGS UP TO:

6' ON 20 LB ROOF LOAD 4' ON 30 LB ROOF LOAD 3' ON 40 LB ROOF LOAD

*WHEN ADJUSTABLE OUTRIGGERS ARE USED FOR DOOR AND WINDOW SUPPORTS, THEY MUST BE INSTALLED ON THE CLOSEST FLOOR
JOIST UP TO 16" FROM THE OUTSIDE EDGE OF THE OPENING
*DO NOT INSTALL ADJUSTABLE OUTRIGGER AT LOCATIONS WHERE THE HOME MANUFACTURER INDICATES A LOAD IN EXCESS OF 1,700 LBS.
*THE ADJUSTABLE OUTRIGGER MUST BE USED ON A MINIMUM 10" I-BEAM AND BE PLACED WITHIN 4" OF A MAIN FRAME SUPPORT PIER OR
FRAME CROSSMEMBER.

Morada Ballding Code

Residential Section

R311 and R312

RSIL7.2 Headrison

RG11.7.5.1 Riser Height

R311.7.5.2 Tread Depth

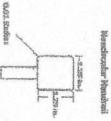
ESILI S Handralls

R311,74,2 Continuity

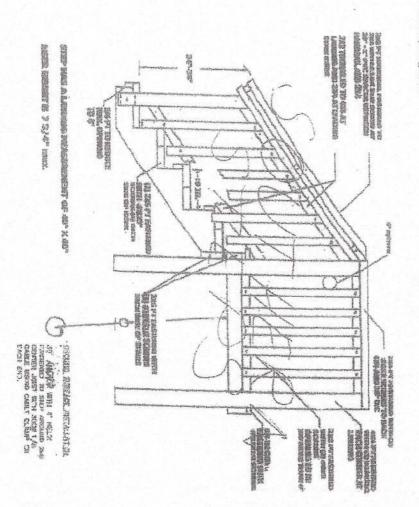
R311.7.8.3 Handfall Grlp Size

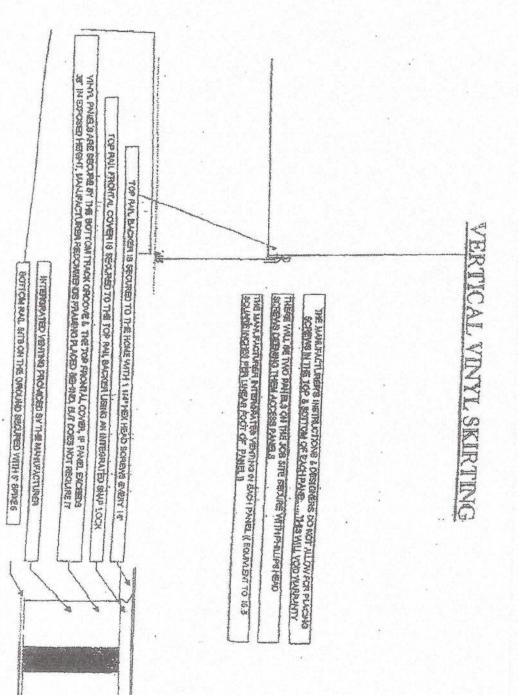
R312.1.2 Guards

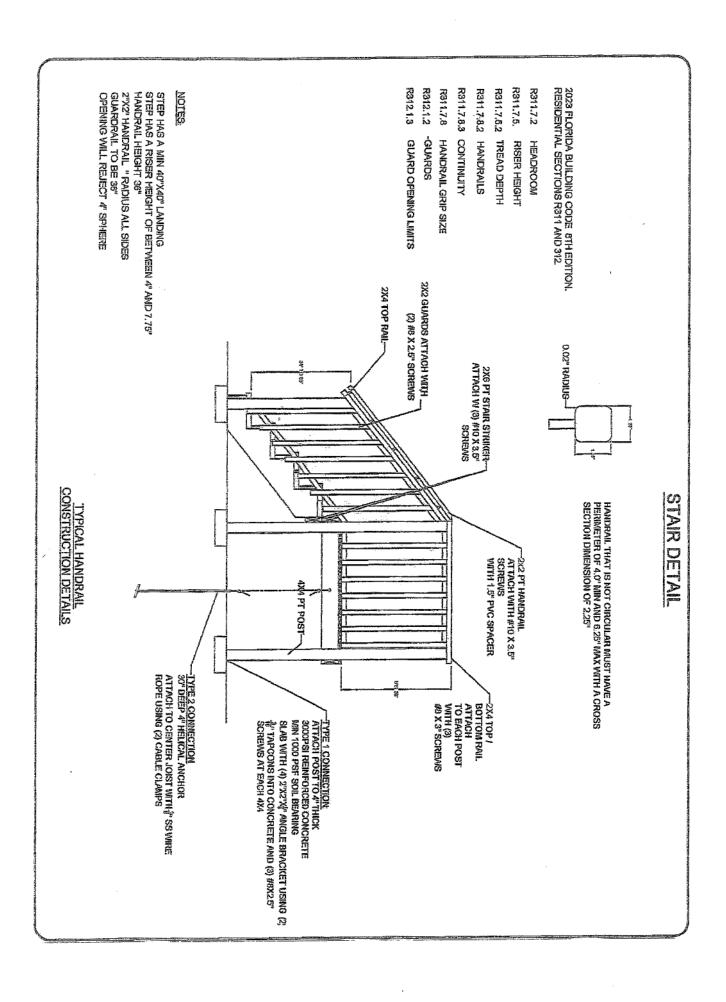
R312.1.3 Guard Opening Limits



ereferedik firma de producej erenet 1980 de georgiaanskep of 4 die 1980 - ook 25 die, 1982 - volk september die diese 1980-1982 - volk september diese







INSTALLATION VERTICAL SKIRTING (WALL SECTION)

- 1. Top back rail will be screwed to bottom of home with 3/4" screw every 16 ".
- 2. Bottom track will be spiked every 16" with 7" galvanized nail.
- 3. Each panel must be installed with required screws. Screws installed in each panel top and bottom every 16".
- 4. Access allowed by any panel.
- 5. Any part of home over 36" from bottom of home to ground will require metal bracing with cross brace. (Bracing requirements 2 x 3 metal brace attached to bottom of home with 3/4" screws and burried in the ground every 4' with cross brace.)

