PERMIT APPLICATION / MANUFACTURED HOME INSTALLATION APPLICATION

For Office Use Only *(Revised 7-1-15)* Zoning Official_____ Building Official_____

AP#_____ Date Received_____ By_____ Permit #_____

Flood Zone_____ Development Permit_____ Zoning_____ Land Use Plan Map Category_____

Comments_____

FEMA Map#_____ Elevation_____ Finished Floor_____ River_____ In Floodway_____

☐ Recorded Deed or ☐ Property Appraiser PO ☐ Site Plan ☐ EH #_____ ☐ Well letter OR

X Existing well ☐ Land Owner Affidavit ☐ Installer Authorization ☐ FW Comp. letter ☐ App Fee Paid

☐ DOT Approval ☐ Parent Parcel #_____ ☐ STUP-MH _____ ☐ 911 App

☐ Ellisville Water Sys ☐ Assessment _____ ☐ Out County ☐ In County ☐ Sub VF Form

Property ID # 00-00-00-00865-069 Subdivision Three Rivers Estates Lot#69 & 70

- New Mobile Home X Used Mobile Home_____ MH Size 32 X 60 Year 2020
- Applicant Robert Minnella Phone # 352-472-6010
- Address 25743 SW 22 Place, Newberry, FL 32669
- Name of Property Owner Michael Gendreau Phone# 386-266-8589
- 911 Address 756 SW Pleasant Terr, Ft. White, FL
- Circle the correct power company - FL Power & Light - (Clay Electric)
  (Circle One) - Suwannee Valley Electric - Duke Energy
- Name of Owner of Mobile Home Same Phone #_____
  Address _____
- Relationship to Property Owner Same
- Current Number of Dwellings on Property 1 camper to be unhooked.
- Lot Size 400 X 157 X 230 X 275 Total Acreage 1.41
- Do you : Have (Existing Drive) (Currently using) or Private Drive (Blue Road Sign) or need Culvert Permit (Putting in a Culvert) or Culvert Waiver (Not existing but do not need a Culvert) (Circle one)
- Is this Mobile Home Replacing an Existing Mobile Home Replacing a camper
- Driving Directions to the Property SR 47 S to US 27 (R)Go to first road to left (L), curve to the right onto Wilson Springs Rd and follow all the way to the stop sign @ SW Neward Dr.(R) Go 1/10 mile to the next left onto SW Pleasant Terr (L) Go 7/10 mile (TL) to 1st driveway on right. Driveway on right at corner of SW Ohio Pl
- Name of Licensed Dealer/Installer Ernest S Johnson Phone # 352-494-8099
- Installers Address 22204 SE US Hwy 301, Hawthorne, FL 32640
- License Number IH 1025243 Installation Decal # 66278

LOTS 69 & 70 UNIT 12 THREE RIVERS ESTATES. ORB 749-1668. PROB 2003-358-CP, 1003-1021, PRD 1006-374, 1012-1980,

GENDREAU MICHAEL J
756 SW PLEASANT TERR
FORT WHITE, FL 32038

00-00-00-00865-069

Columbia County 2020 R
CARD 001 of 001
PRINTED 6/04/2020 14:43 BY JEFF
APPR 2/05/2016 DF

BUSE		AE?	HTD AREA	.000	INDEX	100000.12	THREE RIV	PUSE	000700	MISC RES	
MOD	BATH		EFF AREA		E-RATE	.000	INDX	STR 36- 6S- 15			
EXW	FIXT		RCN				AYB	MKT AREA 02		0	BLDG
%	BDRM		%GOOD		BLDG VAL		EYB	(PUD1		400	XFOB
RSTR	RMS							AC 1.410		10,450	LAND
RCVR	UNTS							NTCD		0	CLAS
%	C-W%							APPR CD		0	MKTUSE
INTW	HGHT							CNDO		10,850	JUST
%	PMTR							SUBD		10,850	APPR
FLOR	STYS							BLK			
%	ECON							LOT		0	SOHD
HTTP	FUNC							MAP#		0	ASSD
A/C	SPCD									0	EXPT
QUAL	DEPR							TXDT 003		0	COTXBL
FNDN	UD-1										
SIZE	UD-2										
CEIL	UD-3										
ARCH	UD-4										
FRME	UD-5										
KTCH	UD-6										
WNDO	UD-7										
CLAS	UD-8										
OCC	UD-9										
COND	%										

FIELD CK:
LOC: 756 PLEASANT TER SW FT WHITE

BLDG TRAVERSE

SUB	A-AREA	%	E-AREA	SUB VALUE
TOTAL				

PERMITS

NUMBER	DESC	AMT	ISSUED
27036	TR/TRAILER	139	5/21/2008
26091	TR/TRAILER	50	8/03/2007

SALE

BOOK	PAGE	DATE	PRICE
1119	2408	5/18/2007 U V	22500

GRANTOR CHARLES D & DONNA H HURST
GRANTEE MICHAEL J GENDREAU

BOOK	PAGE	DATE	PRICE
1102	1557	11/20/2006 U V	10000

GRANTOR BRYN J ANCEL
GRANTEE CHARLES D & DONNA H HURST

EXTRA FEATURES

AE	BN	CODE	DESC	LEN	WID	HGHT	QTY	QL	YR	ADJ	UNITS	UT	PRICE	ADJ UT PR	SPCD %	%GOOD	XFOB VALUE
Y		0296	SHED METAL				1		0000	1.00	1.000	UT	400.000	400.000		100.00	400

FIELD CK:

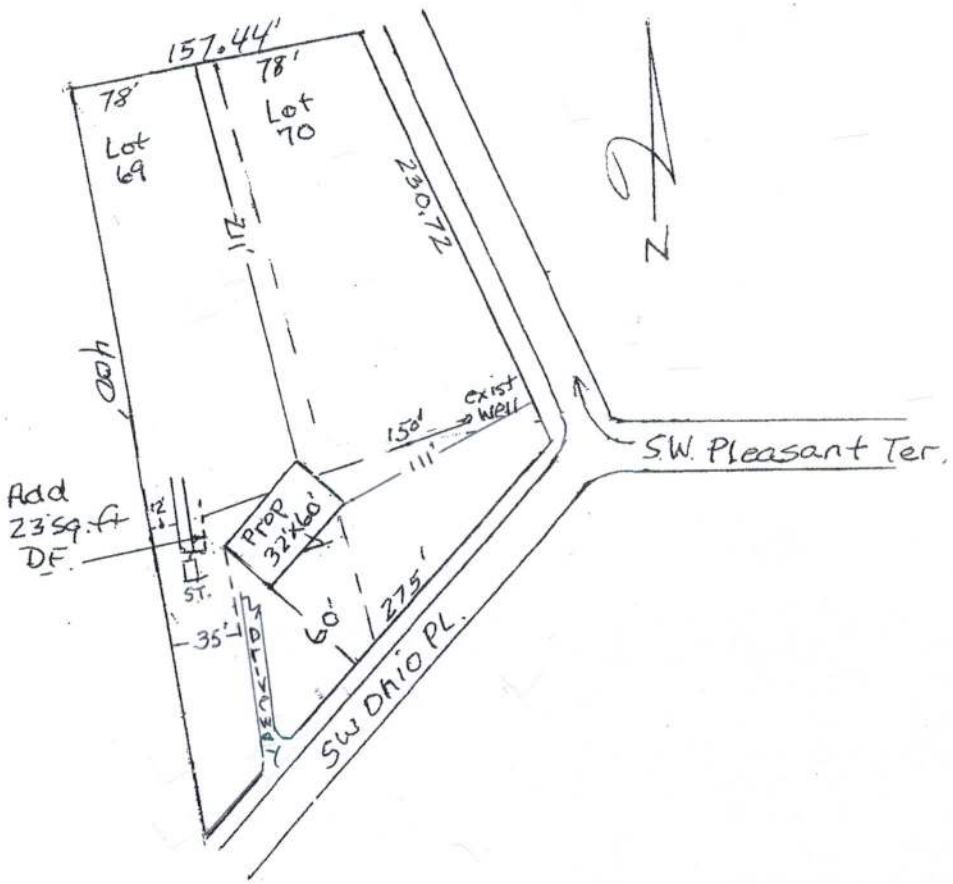
AE	LAND CODE	DESC	ZONE TOPO	ROAD UTIL	{UD1 {UD2	{UD3 {UD4	FRONT BACK	DEPTH DT	ADJUSTMENTS	UNITS	UT	PRICE	ADJ UT PR	LAND VALUE
Y	000700	MISC RES	00						1.00 1.00 .60 1.00	2.000	LT	6000.000	3600.00	7,200
Y	009945	WELL/SEPT	00						1.00 1.00 1.00 1.00	1.000	UT	3250.000	3250.00	3,250

L001 - LOTS 69 & 70 UNIT 12 THREE RIVERS EST.

STATE OF FLORIDA
DEPARTMENT OF HEALTH
APPLICATION FOR CONSTRUCTION PERMIT

Permit Application Number_____

Michael Gendreau ---------- **PART II – SITE PLAN** ---------- 1" =100'
00-00-00-00865-069



Notes: Modify DF to accommodate a 2 bedroom sized home. No pertinate offsite featurres.
Has 227 sq ft. needs 250 sq. ft minimum

Site Plan submitted by: Robert Minnella Robert Minnella **Date:** 06-05-2020 **Agent** ✓

Plan Approved_____ **Not Approved**_____ **Date**_____

By_____ **County Health Department**

ALL CHANGES MUST BE APPROVED BY THE COUNTY HEALTH DEPARTMENT

District No. 1 - Ronald Williams
District No. 2 - Rocky Ford
District No. 3 - Bucky Nash
District No. 4 - Toby Witt
District No. 5 - Tim Murphy

BOARD OF COUNTY COMMISSIONERS • COLUMBIA COUNTY

Address Assignment and Maintenance Document

To maintain the county wide Addressing Policy you must make application for a 9-1-1 Address at the time you apply for a building permit. The established standards for addressing and posting numbers to all principal buildings, dwellings, businesses and industries are contained in Columbia County Ordinance 2001-9. The addressing system is to enable Emergency Services Agencies to locate you in an emergency, and to assist the United States Postal Service and the public in the timely and efficient provision of services to residents and businesses of Columbia County

Date/Time Issued:	**11/18/2019 7:02:33 PM**
Address:	**756 SW PLEASANT Ter**
City:	**FORT WHITE**
State:	**FL**
Zip Code	**32038**
Parcel ID	**00865-069**

REMARKS: Address Verification.

NOTICE: THIS ADDRESS WAS ISSUED BASED ON LOCATION AND ACCESS INFORMATION RECEIVED FROM THE REQUESTER. SHOULD, AT A LATER DATE, THE LOCATION AND/OR ACCESS INFORMATION BE FOUND TO BE IN ERROR OR CHANGED, THIS ADDRESS IS SUBJECT TO CHANGE.

Address Issued By: **Signed:/ Matt Crews**

Columbia County GIS/911 Addressing Coordinator

COLUMBIA COUNTY
911 ADDRESSING / GIS DEPARTMENT
263 NW Lake City Ave., Lake City, FL 32055 Telephone: (386) 758-1125
Email: gis@columbiacountyfla.com

MOBILE HOME INSTALLATION SUBCONTRACTOR VERIFICATION FORM

APPLICATION NUMBER _____ CONTRACTOR Ernest S. Johnson PHONE (352)494-8099

THIS FORM MUST BE SUBMITTED PRIOR TO THE ISSUANCE OF A PERMIT

In Columbia County one permit will cover all trades doing work at the permitted site. It is REQUIRED that we have records of the subcontractors who actually did the trade specific work under the permit. Per Florida Statute 440 and Ordinance 89-6, a contractor shall require all subcontractors to provide evidence of workers' compensation or exemption, general liability insurance and a valid Certificate of Competency license in Columbia County.

Any changes, the permitted contractor is responsible for the corrected form being submitted to this office prior to the start of that subcontractor beginning any work. Violations will result in stop work orders and/or fines.

ELECTRICAL	Print Name Glenn Whittington Signature Robert Mimmelba License #: EC13002957 Phone #: (386)972-1700 Qualifier Form Attached [X]
MECHANICAL/ A/C _____	Print Name Michael A. Boland Signature Mel A Boland License #: CAC1817716 Phone #: (352)205-6722 Qualifier Form Attached [ ]

Qualifier Forms cannot be submitted for any Specialty License.

Specialty License	License Number	Sub-Contractors Printed Name	Sub-Contractors Signature
MASON			
CONCRETE FINISHER			

F. S. 440.103 Building permits; identification of minimum premium policy.--Every employer shall, as a condition to applying for and receiving a building permit, show proof and certify to the permit issuer that it has secured compensation for its employees under this chapter as provided in ss. 440.10 and 440.38, and shall be presented each time the employer applies for a building permit.

Revised 10/30/2015

COLUMBIA COUNTY BUILDING DEPARTMENT
135 NE Hernando Ave, Suite B-21, Lake City, FL 32055
Phone: 386-758-1008 Fax: 386-758-2160

LICENSED QUALIFIER AUTHORIZATION

I, Glenn Whittington (license holder name), licensed qualifier for Whittington Electric Inc (company name), do certify that the below referenced person(s) listed on this form is/are contracted/hired by me, the license holder, or is/are employed by me directly or through an employee leasing arrangement; or, is an officer of the corporation; or, partner as defined in Florida Statutes Chapter 468, and the said person(s) is/are under my direct supervision and control and is/are authorized to purchase and sign permits; call for inspections and sign subcontractor verification forms on my behalf.

Printed Name of Person Authorized	Signature of Authorized Person
1. Robert Minnella	1.
2. Nancy S Phelps	2.
3.	3.
4.	4.
5.	5.

I, the license holder, realize that I am responsible for all permits purchased, and all work done under my license and fully responsible for compliance with all Florida Statutes, Codes, and Local Ordinances. I understand that the State and County Licensing Boards have the power and authority to discipline a license holder for violations committed by him/her, his/her agents, officers, or employees and that I have full responsibility for compliance with all statutes, codes and ordinances inherent in the privilege granted by issuance of such permits.

If at any time the person(s) you have authorized is/are no longer agents, employee(s), or officer(s), you must notify this department in writing of the changes and submit a new letter of authorization form, which will supersede all previous lists. Failure to do so may allow unauthorized persons to use your name and/or license number to obtain permits.

Glenn Whittington — Licensed Qualifiers Signature (Notarized)
EC13002957 — License Number
11-2-15 — Date

NOTARY INFORMATION:
STATE OF: Florida COUNTY OF: Putnam

The above license holder, whose name is Glenn Whittington, personally appeared before me and is known by me or has produced identification (type of I.D.) _____ on this 2nd day of November, 2015.

Angela Wilkinson
NOTARY'S SIGNATURE

(Seal/Stamp)

ANGELA WILKINSON
Notary Public - State of Florida
Commission # FF 210662
My Comm. Expires May 3, 2019

PERMIT WORKSHEET

PERMIT NUMBER _____

Installer Ernest S. Johnson License # IH-1025249

Address of home being installed 756 SW Pleasant Terrace, Ft. White, Fl. 32038

Manufacturer Live Oak Homes Length x width 32' x 60'

NOTE: ***if home is a single wide fill out one half of the blocking plan***
if home is a triple or quad wide sketch in remainder of home

I understand Lateral Arm Systems cannot be used on any home (new or used) where the sidewall ties exceed 5 ft 4 in.

Installer's initials EJ

New Home [X] Used Home [ ]

Home installed to the Manufacturer's Installation Manual [X]

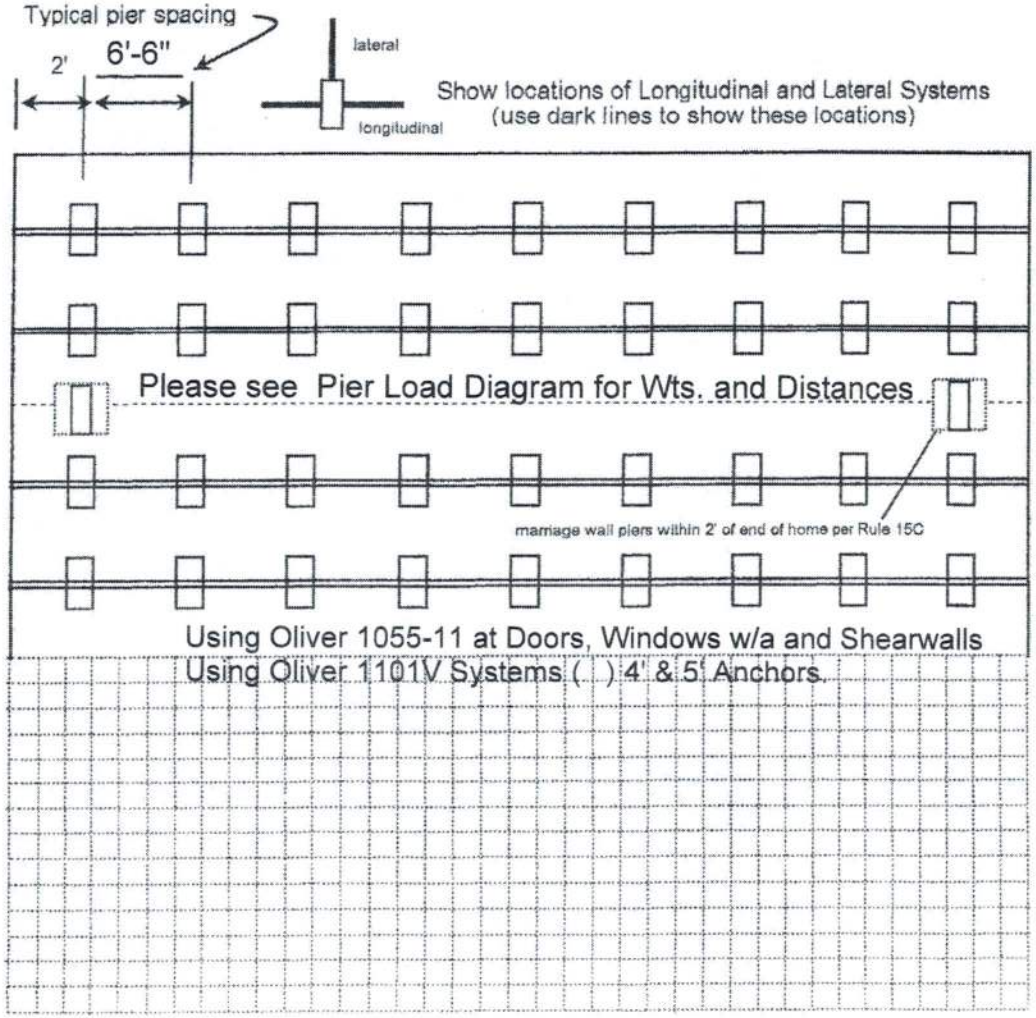
Home is installed in accordance with Rule 15-C [ ]

Single wide [ ] Wind Zone II [X] Wind Zone III [ ]

Double wide [X] Installation Decal # 66278

Triple/Quad [ ] Serial # 21934280 A+B

Typical pier spacing



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 psf		4' 6"	6'	7'	8'	8'	8'
2000 psf		6'	8'	8'	8'	8'	8'
2500 psf		7' 6"	8'	8'	8'	8'	8'
3000 psf		8'	8'	8'	8'	8'	8'
3500 psf		8'	8'	8'	8'	8'	8'

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

PIER PAD SIZES

I-beam pier pad size 23" x 31"

Perimeter pier pad size n/a

Other pier pad sizes (required by the mfg.) 17.5" x 25.5" Centerline

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.

Opening	Pier pad size
Please See Pier Load Diagram	
For spacing of Piers	

POPULAR PAD SIZES

Pad Size	Sq In
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 ✓ 5 ft ✓ ✓

FRAME TIES

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

TIEDOWN COMPONENTS

Longitudinal Stabilizing Device (LSD)
Manufacturer

Longitudinal Stabilizing Device w/ Lateral Arms
Manufacturer Oliver Technologies

OTHER TIES

	Number
Sidewall	24
Longitudinal	6
Marriage wall	6-8
Shearwall	2

PERMIT NUMBER _____

POCKET PENETROMETER TEST

The pocket penetrometer tests are rounded down to _____ psf or check here to declare 1000 lb. soil _____ without testing.

X____ X____ X____

POCKET PENETROMETER TESTING METHOD

1. Test the perimeter of the home at 6 locations.
2. Take the reading at the depth of the footer.
3. Using 500 lb. increments, take the lowest reading and round down to that increment.

Assume 1000 X____ X____ X____

TORQUE PROBE TEST

The results of the torque probe test is _____ inch pounds or check here if you are declaring 5' anchors without testing _____. A test showing 275 inch pounds or less will require 5 foot anchors.

Note: A state approved lateral arm system is being used and 4 ft. anchors are allowed at the sidewall locations. I understand 5 ft anchors are required at all centerline tie points where the torque test reading is 275 or less and where the mobile home manufacturer may requires anchors with 4000 lb holding capacity.

Assume 1000 _____ Installer's initials

ALL TESTS MUST BE PERFORMED BY A LICENSED INSTALLER

Installer Name _____

Date Tested _____

Electrical

Connect electrical conductors between multi-wide units, but not to the main power source. This includes the bonding wire between mult-wide units. Pg. 45-47

Plumbing

Connect all sewer drains to an existing sewer tap or septic tank. Pg. 42

Connect all potable water supply piping to an existing water meter, water tap, or other independent water supply systems. Pg. 4

Site Preparation

Debris and organic material removed
Water drainage: Natural X Swale Pad X Other

Fastening multi wide units

Floor:	Type Fastener:	Lag	Length:	5"	Spacing:	2'
Walls:	Type Fastener:	"	Length:	5"	Spacing:	2'
Roof:	Type Fastener:	"	Length:	5"	Spacing:	2'

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.

Gasket (weatherproofing requirement)

I understand a properly installed gasket is a requirement of all new and used homes and that condensation, mold, meldew and buckled marriage walls are a result of a poorly installed or no gasket being installed. I understand a strip of tape will not serve as a gasket.

Installer's initials

Type gasket Factory Foam
Pg. sudw 2.1

Installed:
Between Floors Yes
Between Walls Yes
Bottom of ridgebeam Yes

Weatherproofing

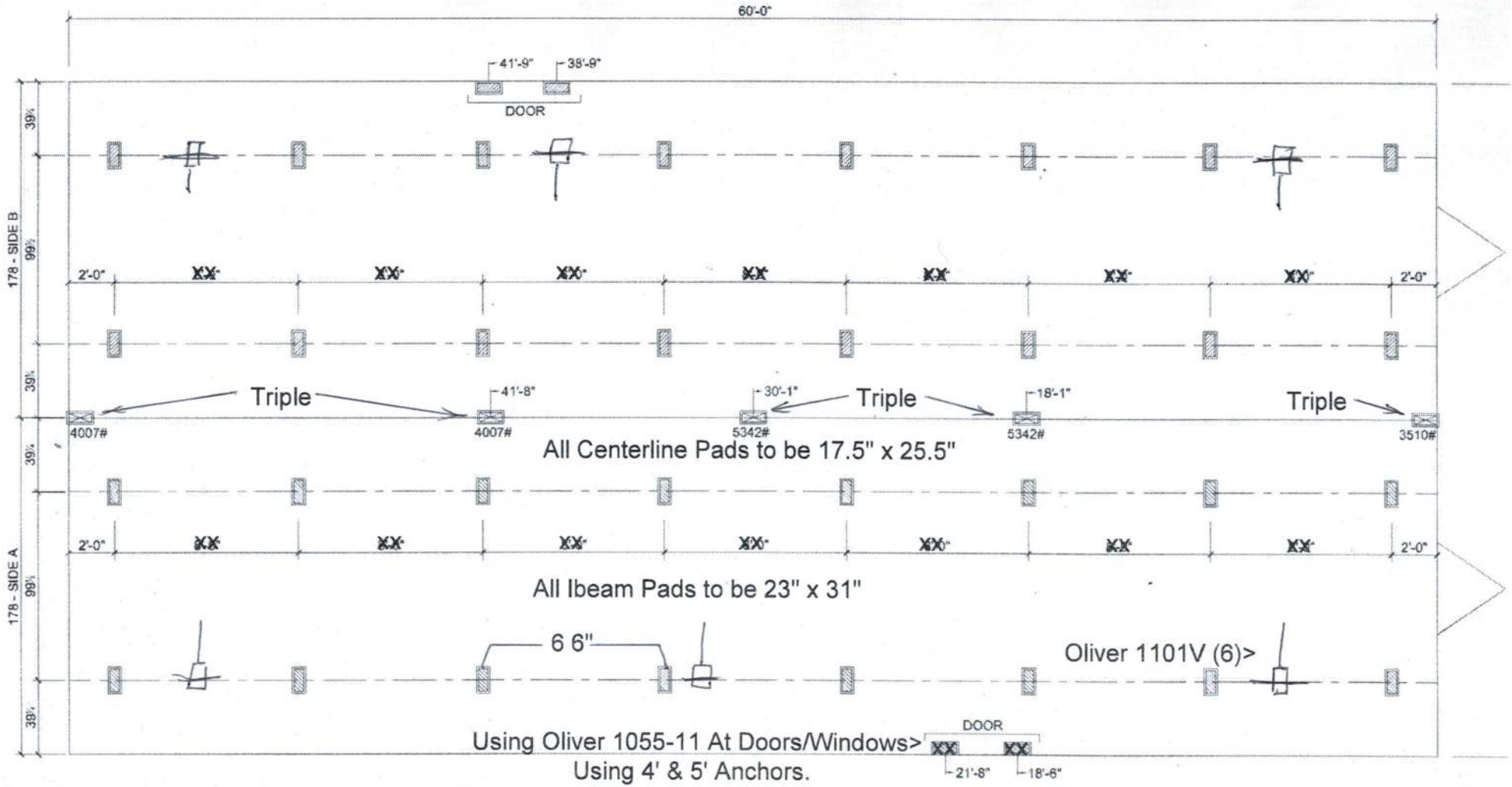
The bottomboard will be repaired and/or taped. Yes . Pg. 41
Siding on units is installed to manufacturer's specifications. Yes
Fireplace chimney installed so as not to allow intrusion of rain water. Yes

Miscellaneous

Skirting to be installed. Yes No
Dryer vent installed outside of skirting. Yes N/A
Range downflow vent installed outside of skirting. Yes N/A
Drain lines supported at 4 foot intervals. Yes
Electrical crossovers protected. Yes
Other : _____

Installer verifies all information given with this permit worksheet is accurate and true based on the manufacturer's installation instructions and or Rule 15C-1 & 2

Installer Signature Ernest L Johnson **Date** 6-5-2020



MARRIAGE LINE OPENING SUPPORT PIER/TYP.
SUPPORT PIER/TYP

05/29/19

FOUNDATION NOTES:

- THIS DRAWING IS DESIGNED FOR THE STANDARD WIND ZONE AND IS TO BE USED IN CONJUNCTION WITH THE INSTALLATION MANUAL AND IT'S SUPPLEMENTS.
- FOOTINGS ARE SHOWN FOR EXAMPLE ONLY QUANTITY AND SPACING MAY VARY BASED ON PAD TYPE, SOIL CONDITION, ETC.
- FOOTINGS ARE REQUIRED AT SUPPORT POSTS. SEE INSTALLATION MANUAL FOR REQUIREMENTS.

Live Oak Homes
MODEL: V-3603M - 32 X 64
3-BEDROOM / 2-BATH

V-3603

LIVE OAK HOMES

MARRIAGE WALL PIER AND FOOTING LOADS

SUPPORTING OPENING STUDS IN SOUTH (20 PSF) ROOF LIVE LOAD

OPENING WIDTH (CLEAR SPAN)	BUILDING SIZE					
	26 FEET WIDE (156" FLOOR WIDTH MAX.) DOUBLEWIDE					
	PIER LOAD (LBS)	MIN FOOTING AREA (SQ. IN.) FOR SOIL PRESSURE LISTED				
		1000 PSF	1500 PSF	2000 PSF	2500 PSF	3000 PSF
4 FT.	780 Lbs.	174	112	83	65	54
6 FT.	1170 Lbs.	238	152	112	89	74
8 FT.	1560 Lbs.	298	292	142	112	93
10 FT.	1950 Lbs.	360	232	171	136	112
12 FT.	2340 Lbs.	423	272	201	159	132
14 FT.	2730 Lbs.	485	312	230	183	151
16 FT.	3120 Lbs.	547	352	259	206	170
18 FT.	3510 Lbs.	610	393	289	229	190
20 FT.	3900 Lbs.	673	432	318	253	209
22 FT.	4290 Lbs.	735	473	348	276	228
24 FT.	4680 Lbs.	797	513	378	299	248
26 FT.	5070 Lbs.	859	553	408	322	267
28 FT.	5460 Lbs.	922	593	437	346	286
30 FT.	5850 Lbs.	985	633	467	369	306
32 FT.	6240 Lbs.	1047	673	496	393	325
34 FT.	6630 Lbs.	1109	713	526	416	345
36 FT.	7020 Lbs.	1172	754	555	440	364
38 FT.	7410 Lbs.	1234	793	585	463	383
40 FT.	7800 Lbs.	1296	834	614	487	403

NOTE: PIER LOADS SPECIFIED ABOVE ARE FOR COLUMNS WITH A CLEAR SPAN ON ONE SIDE OF THE COLUMN ONLY. WHEN CLEAR SPANS EXIST ON BOTH SIDES OF THE COLUMN, ADD THE COLUMN LOADS FOR EACH SPAN TOGETHER BEFORE SELECTING THE PROPER FOOTING SIZE.

NOTE: CHECK LOCAL BUILDING CODES FOR THE FOOTING THICKNESS REQUIRED IN YOUR AREA.

NOTE: TABLE APPLIES TO SOUTH (20 PSF) ROOF LIVE LOAD

APPROVED BY

NTA INC. Feb 16,2009

FEDERAL MANUFACTURED HOME CONSTRUCTION AND SAFETY STANDARDS

REF. CALC#2- JUNE 25 2008

REF. CALC#1-7/26/07

SUDW-11.1

LIVE OAK HOMES

156" WIDE FLOOR WITH 10" EAVE OVERHANG						
STEEL BEAM PIER LOADS AND FOOTING AREAS (ROOF ZONE=SOUTH)						
PIER SPACING	PIER LOAD	MIN FOOTING AREA (SQ. IN.) FOR SOIL PRESSURE LISTED				
		1000 PSF	1500 PSF	2000 PSF	2500 PSF	3000 PSF
4 FT.	2408 Lbs.	434	279	206	163	135
5 FT.	3009 Lbs.	530	341	251	199	165
6 FT.	3611 Lbs.	626	402	297	235	195
7 FT.	4213 Lbs.	723	464	343	271	225
8 FT.	4815 Lbs.	819	527	388	308	255
9 FT.	5417 Lbs.	915	589	434	343	284
10 FT.	6019 Lbs.	1012	651	479	380	314

156" WIDE FLOOR WITH 10" EAVE OVERHANG						
SIDEWALL OPENING PIER LOADS AND FOOOTING AREAS (ROOF ZONE=SOUTH)						
CLEAR SPAN	PIER LOAD	MIN FOOTING AREA (SQ. IN.) FOR SOIL PRESSURE LISTED				
		1000 PSF	1500 PSF	2000 PSF	2500 PSF	3000 PSF
4 FT.	440 Lbs.	119	77	56	45	38
6 FT.	660 Lbs.	154	99	73	58	48
8 FT.	880 Lbs.	189	122	90	71	59
10 FT.	1099 Lbs.	225	144	107	85	70
12 FT.	1319 Lbs.	259	167	124	97	81
14 FT.	1539 Lbs.	295	190	139	111	92
16 FT.	1759 Lbs.	330	213	156	124	103

NOTE: CHECK LOCAL BUILDING CODES FOR THE FOOTING THICKNESS REQUIRED IN YOUR AREA.

NOTE: TABLES APPLY TO SOUTH (20 PSF) ROOF LIVE LOAD

APPROVED BY
NTA INC.
Feb 16,2009
FEDERAL MANUFACTURED HOME CONSTRUCTION AND SAFETY STANDARDS

REF. CALC #2-JUNE 25 2008

REF. CALC #1-7/26/07

State of Florida
DEPARTMENT OF
HIGHWAY SAFETY AND MOTOR VEHICLES

TALLAHASSEE, FLORIDA 32399-0500

FRED O. DICKINSON, III
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:

We wish to acknowledge receipt of your print specifications and test results certifying your Adjustable Outrigger listed below complies with the Federal Manufactured Construction 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 15C-1.01105.

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

MODEL #	INDENTIFICATION	DESCRIPTION
1055-11	Adjustable Outrigger	Bracket, Pipe, & Screw Adjustment

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
Bureau of Mobile Home and
Recreational Vehicle Construction
Division of Motor Vehicles

PB:bsc

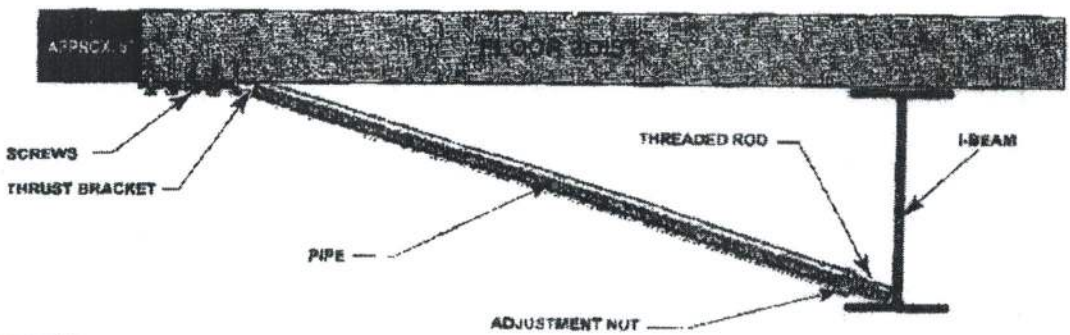
OLIVER Technologies, Inc.
467 Swan Ave • Hohenwald, TN 38462 • (800) 264-7437 • www.olivertechnologies.com • Fax (931) 796-8811

OLIVER TECHNOLOGIES, INC.

Adjustable Outrigger Installation Instructions

MODEL # 1055-11

1. Locate the floor joist that requires support.
2. Mark the I-Beam directly under the floor joist to align the outrigger.
3. 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.
5. Set the notched end of the thrust bracket into the end of the pipe and secure it with 5 # 12 x 2" screws to the floor joist. The thrust bracket should be approximately 6" from the outside rim joist.
6. 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 nut. For all other adjustments use a hydraulic jack to raise the floor joist before installation of the outrigger.



NOTES:

*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:
5' 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

Listing # 1055-11
Patent # 6,334,279

Revised 1/1/11

A SAFER
FLORIDA
HIGHWAY SAFETY AND MOTOR VEHICLES

Terry L. Rhodes
Executive Director

2900 Apalachee Parkway
Tallahassee, Florida 32399-0500
www.flhsmv.gov

MEMORANDUM

TO: All Steel Telescoping Lateral Arm Manufacturers

FROM: Wayne Jordan, Operations Services Manager, Manufactured Housing Section
Florida Department of High Safety and Motor Vehicles

DATE: August 6, 2018

SUBJECT: Elimination of Requirement for Supplemental Frame Ties and Stabilizer Plates at All Steel Telescoping Lateral Arm Locations

The Department has reviewed some concerns expressed by several of the steel telescoping lateral arm manufacturers regarding the Department's requirement to install supplemental frame ties and stabilizer plates on the steel telescoping lateral arm systems.

In an abundance of caution, the Department required supplemental frame ties /stabilizer plates at each lateral arm location in June of 2002. After researching data from storm reports, the Department has found no evidence of the need for these supplemental frame ties/stabilizer plates. With this information in mind, the Department will discontinue the requirement for the supplemental frame ties/stabilizer plates at each lateral arm location.

Manufacturers who wish to change their installation instructions to remove this requirement, must resubmit their last engineering report showing the whole house test without the use of supplemental frame ties/stabilizer plates. Upon receipt and review of the engineering report, the Department will remove the requirement for supplemental frame ties/stabilizer plates. Each manufacturer will be notified within two weeks of receipt of the engineering report. These reports must be sent to my attention at **5701 East Hillsborough Ave, Suite 2228, Tampa, Florida 33610.**

If the need arises in the future, the Department may impose additional requirements to the steel telescoping lateral arm systems with a change to Florida Administrative Code Rule 15C-1.

OLIVER Technologies, Inc.

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

OLIVER TECHNOLOGIES, INC.
FLORIDA INSTALLATION INSTRUCTIONS FOR THE
MODEL 1101 "V" SERIES ALL STEEL FOUNDATION SYSTEM

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

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" c) Roof eaves exceed 16" e) Location is within 1500 feet of coast
   b) length of home exceeds 76' 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.

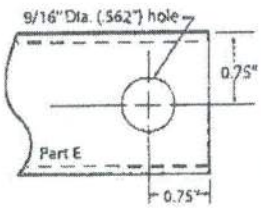
INSTALLATION OF LONGITUDINAL "V" BRACE SYSTEM (Model 1101-L "V")

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

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.

PIER HEIGHT (40° Min. - 45° Max.)	1.25" Tube Length	1.50" Tube Length
7 3/4" to 25"	22"	18"
24 3/4" to 32 1 /4"	32"	18"
33" to 41"	44"	18"
40" to 48"	54"	18"

Diagram A



PIER HEIGHT (40° Min. - 60" Max.)	1.50" Tube Length
14" to 18"	20"
18" to 25"	28"
24" to 35"	39"
30" to 40"	44"
36" to 48"	54"

Diagram B

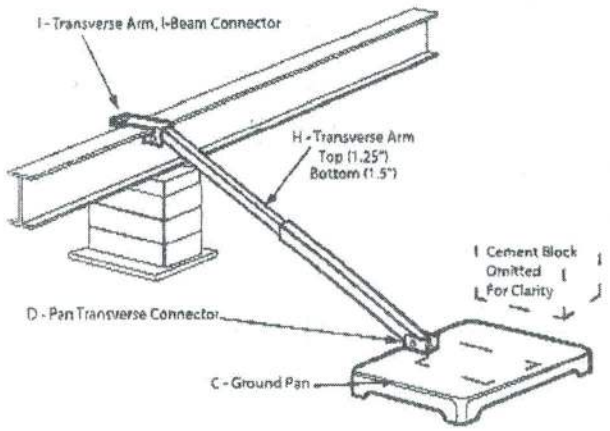
5. Install (2) of the 1.50" square tubes (E) into the "U" bracket (J), insert carriage bolt and leave nut loose for final adjustment.
6. Place I-beam connector (F) loosely on the bottom flange of the I-beam.
7. (For Diagram A installation) Slide the selected 1.25" tube (E) into a 1.50" tube (E) and attach to I-beam connectors (F) and fasten loosely 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 and nuts.
8. 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")

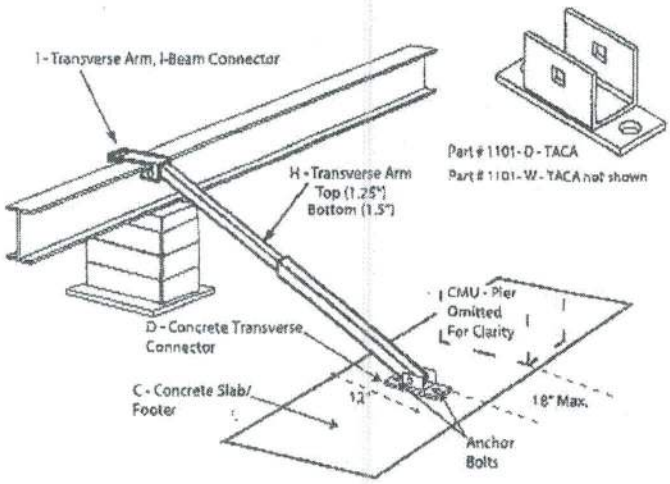
THE MODEL 1101 "V" (LONGITUDINAL & LATERAL PROTECTION) ELIMINATES THE NEED FOR STABILIZER PLATES & FRAME TIES.
NOTE: THE USE OF THIS SYSTEM REQUIRES VERTICAL TIES SPACED AT 5'4".
FOUR FOOT (4') GROUND ANCHOR MAY BE USED EXCEPT WHERE THE HOME MANUFACTURER SPECIFIES DIFFERENT.

10. Install remaining vertical tie-down straps and 4' ground anchors per home manufacturer's instructions. NOTE: Centerline anchors to be sized according to soil torque condition. Any manufacturer's specifications for sidewall anchor loads in excess of 4,000 lbs. require a 5' anchor per Florida Code.
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.
13. Slide 1.25" transverse brace into the 1.50" brace and attach to adjacent I-beam connector (I) 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.

PATENT# 6634150 & OTHER PATENT PENDING



Model # 1101 T "V"



Model # 1101 TC "V"

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

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)

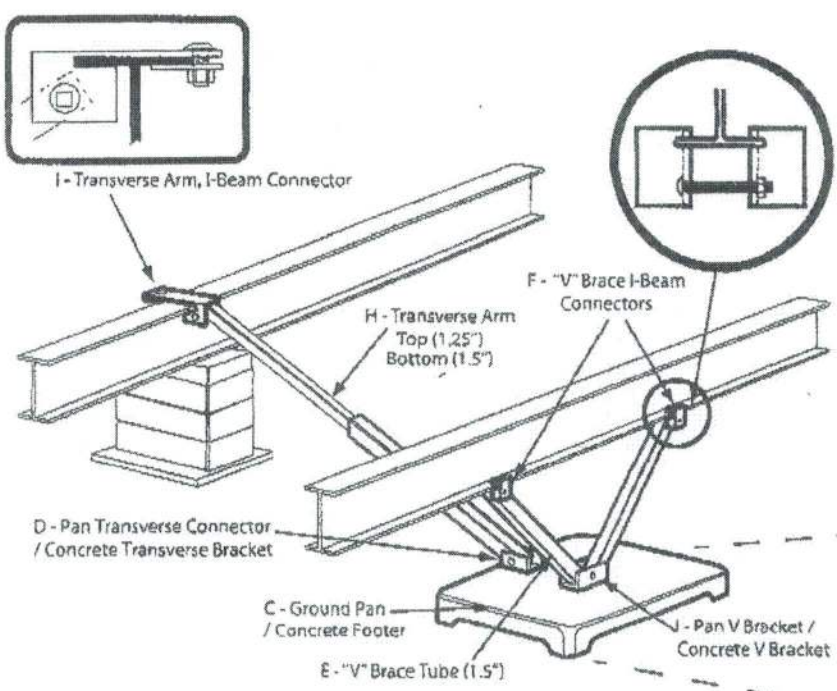
E = TELESCOPING V BRACE TUBE ASSEMBLY (1.5" TUBE BOTTOM AND 1.25" TUBE INSERT) OR 1.5" TUBE

F = "V" BRACE I-BEAM CONNECTOR ASSEMBLY

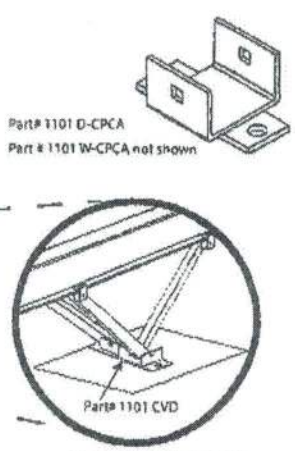
H = TELESCOPING TRANSVERSE ARM ASSEMBLY

I = TRANSVERSE ARM I-BEAM CONNECTOR (connects with grade 5 - 1/2" x 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)



Model # 1101 "V"



Model # 1101 C "V"

PATENT# 6634150 & OTHER PATENT PENDING

OLIVER Technologies, Inc.
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.
    a) The concrete shall be minimum 2500 psi mix
    b) 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).
    c) 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")

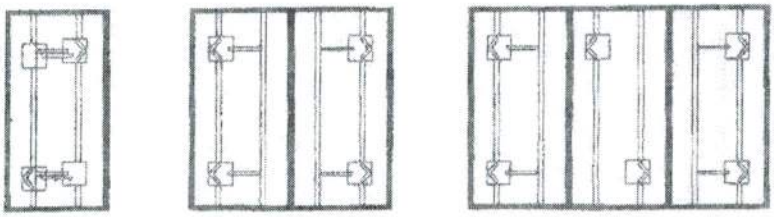
16. When using Part# 1101-W-CPCA (wetset) simply install the bracket in runner/footer **OR** When installing in cured concrete use Part# 101-D-CPCA (dryset). The 1101 (dryset) CA bracket is attached to the concrete using (2) 5/8"x3" concrete wedge bolts (Simpson part # S162300H 5/8" X 3" or Powers equivalent). Place the CA bracket in desired location. Mark bolt hole locations, then using a 5/8" diameter 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 drilled holes, then place 1101 (dry set) CA bracket onto wedge bolts and start wedge bolt nuts. 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). The sleeve of concrete wedge bolt needs to be at or below the top of concrete. Complete by tightening nuts.

LATERAL: (Model 1101 TC "V")

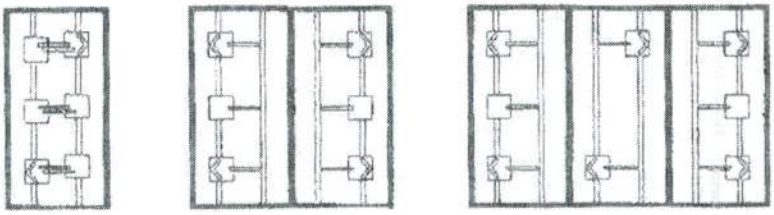
17. For wet set (part # 1101-W-TACA) installation simply install the anchor bolt into runner/footer. For dry set installation (part # 1101-D-TACA) mark bolt hole locations, then using a 5/8" diam. masonry bit, drill a hole to a minimum depth of 3". Make sure all dust and concrete is blown out of the hole. Place wedge bolts (Simpson part #S162300H 5/8" X 3" or Powers equivalent) into (D) concrete dry transverse 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.
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**
2. **= LOCATION OF TRANSVERSE BRACING ONLY**
3. **= LOCATION OF LONGITUDINAL BRACING ONLY**
4. **= TRANSVERSE AND LONGITUDINAL LOCATIONS**

ALL WIDTHS AND LENGTHS UP TO 52'



ALL WIDTHS AND LENGTHS OVER 52' TO 80"



HOMES WITH 5/12 ROOF PITCH REQUIRE: PER FLORIDA REGULATIONS
6 systems for home lengths up to 52' and 8 systems for homes over 52' and up 80'.

PATENT# 6634150 & OTHER PATENT PENDING