

DATE 07/21/2004

Columbia County Building Permit

This Permit Expires One Year From the Date of Issue

PERMIT

000022112

APPLICANT KEN LAKE PHONE 352-620-8889
ADDRESS PO BOX 684 SPARR FL 32192
OWNER BRENDA BLANCHARD PHONE 813-416-8201
ADDRESS 2613 SW FRY RD FORT WHITE FL 32038
CONTRACTOR KEN LAKE PHONE 352-620-8889
LOCATION OF PROPERTY 47 S, L 27, R FRY RD TO LOT ON LEFT ACROSS FROM
ROCILLE GLEN SIGN
TYPE DEVELOPMENT MH, UTILITY ESTIMATED COST OF CONSTRUCTION .00
HEATED FLOOR AREA TOTAL AREA HEIGHT .00 STORIES
FOUNDATION WALLS ROOF PITCH FLOOR
LAND USE & ZONING A-3 MAX. HEIGHT 35
Minimum Set Back Requirments: STREET-FRONT 30.00 REAR 25.00 SIDE 25.00
NO. EX.D.U. 0 FLOOD ZONE X DEVELOPMENT PERMIT NO.

PARCEL ID 15-7S-16-04226-117 SUBDIVISION SHILOAH RIDGE
LOT 17 BLOCK PHASE UNIT TOTAL ACRES 20.00

IH0000436
Culvert Permit No. Culvert Waiver Contractor's License Number Applicant/Owner/Contractor Ken Lake
EXISTNG 04-0777-N BK HD N
Driveway Connection Septic Tank Number LU & Zoning checked by Approved for Issuance New Resident

COMMENTS: FLOOR 1 FOOT ABOVE THE ROAD

REPLACING EXISTING MH

Check # or Cash 9875

FOR BUILDING & ZONING DEPARTMENT ONLY

(footer/Slab)

Temporary Power Foundation Monolithic
 date/app. by date/app. by date/app. by
Under slab rough-in plumbing Slab Sheathing/Nailing
 date/app. by date/app. by date/app. by
Framing Rough-in plumbing above slab and below wood floor
 date/app. by date/app. by
Electrical rough-in Heat & Air Duct Peri. beam (Lintel)
 date/app. by date/app. by date/app. by
Permanent power C.O. Final Culvert
 date/app. by date/app. by date/app. by
M/H tie downs, blocking, electricity and plumbing Pool
 date/app. by date/app. by
Reconnection Pump pole Utility Pole
 date/app. by date/app. by date/app. by
M/H Pole Travel Trailer Re-roof
 date/app. by date/app. by date/app. by

BUILDING PERMIT FEE \$.00 CERTIFICATION FEE \$.00 SURCHARGE FEE \$.00
MISC. FEES \$ 200.00 ZONING CERT. FEE \$ 50.00 FIRE FEE \$ WASTE FEE \$
FLOOD ZONE DEVELOPMENT FEE \$ CULVERT FEE \$ TOTAL FEE 250.00

INSPECTORS OFFICE L. Hahn

CLERKS OFFICE CH

NOTICE: IN ADDITION TO THE REQUIREMENTS OF THIS PERMIT, THERE MAY BE ADDITIONAL RESTRICTIONS APPLICABLE TO THIS PROPERTY THAT MAY BE FOUND IN THE PUBLIC RECORDS OF THIS COUNTY. AND THERE MAY BE ADDITIONAL PERMITS REQUIRED FROM OTHER GOVERNMENTAL ENTITIES SUCH AS WATER MANAGEMENT DISTRICTS, STATE AGENCIES, OR FEDERAL AGENCIES.

"WARNING TO OWNER: YOUR FAILURE TO RECORD A NOTICE OF COMMENCEMENT MAY RESULT IN YOUR PAYING TWICE FOR IMPROVEMENTS TO YOUR PROPERTY. IF YOU INTEND TO OBTAIN FINANCING, CONSULT WITH YOUR LENDER OR AN ATTORNEY BEFORE RECORDING YOUR NOTICE OF COMMENCEMENT."

This Permit Must Be Prominently Posted on Premises During Construction

PLEASE NOTIFY THE COLUMBIA COUNTY BUILDING DEPARTMENT AT LEAST 24 HOURS IN ADVANCE OF EACH INSPECTION, IN ORDER THAT IT MAY BE MADE WITHOUT DELAY OR INCONVENIENCE, PHONE 758-1008. THIS PERMIT IS NOT VALID UNLESS THE WORK AUTHORIZED BY IT IS COMMENCED WITHIN 6 MONTHS AFTER ISSUANCE.

The Issuance of this Permit Does Not Waive Compliance by Permittee with Deed Restrictions.

PERMIT APPLICATION / MANUFACTURED HOME INSTALLATION APPLICATION

For Office Use Only		Zoning Official <u>BLK 19.07.04</u>		Building Official <u>HO 7-20-04</u>	
AP# <u>0407-35</u>	Date Received <u>7/13/04</u>	By <u>JW</u>	Permit # <u>22112</u>		
Flood Zone <u>X</u>	Development Permit <u>N/A</u>	Zoning <u>A-3</u>	Land Use Plan Map Category <u>A-3</u>		
Comments <u>*will call local # in later ~</u>		<u>04-0777-N</u>			
<u>\$250.00 ONLY ASSESSMENTS CHANGED AIRWAY</u>					
☒ Site Plan with Setbacks shown ☒ Environmental Health Signed Site Plan ☒ Env. Health Release ☒ Need a Culvert Permit ☒ Need a Waiver Permit ☒ Well letter provided ☒ Existing Well					

- Property ID 15-7S-16-04226-117 Must have a copy of the property deed
- New Mobile Home YES 2004 Used Mobile Home _____ Year 2004
- Subdivision Information SHILOH RIDGE Lots 17 & 24
- Applicant KEN LAKE Phone # 352-620-8889
- Address P.O. Box 684 SPARR, FL. 32192 - 352.843.0566 - MOBILE #
- Name of Property Owner BRENDA BLANCHARD Phone# 813-416-8201
- 911 Address 2613 SW. FRY Rd FT. WHITE, FL. 32192
- Name of Owner of Mobile Home BRENDA BLANCHARD Phone # 813-416-8201
- Address 2215 ELIZABETH DR. BRANDON, FL. 33510
- Relationship to Property Owner _____
- Current Number of Dwellings on Property NONE
- Lot Size 660 X 1320 Total Acreage 20
- Explain the current driveway EXISTING
- Driving Directions 47 S TO FT. WHITE TL ON 27 TO 138 TR TO FRY Rd TR TO LOT ON RIGHT. ACROSS FROM ROCILLE GLW SIGN
- Is this Mobile Home Replacing an Existing Mobile Home YES
- Name of Licensed Dealer/Installer KEN LAKE Phone # 352-620-8889
- Installers Address P.O. Box 684 SPARR, FL. 32192
- License Number TH0000436 Installation Decal # 224240

1945

1945

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PERMIT NUMBER

Installer KEN LAKE License # TH000436

Address of home being installed 2613 S.W. FRY Rd. Ft. White FL 32038

Manufacturer FLEETWOOD Length x width 32 x 66

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 KL



marriage wall piers within 2' of end of home per Rule 15C

SEE ATTACHED PAGE

New Home ☒ Used Home ☐

Home installed to the Manufacturer's Installation Manual ☒

Home is installed in accordance with Rule 15-C ☐

Single wide ☐ Wind Zone II ☒ Wind Zone III ☐

Double wide ☒ Installation Decal # 6AFL434AB 76881-5C21

Triple/Quad ☐ Serial # 6AFL434AB 76881-5C21

PIER SPACING TABLE FOR USED HOMES

Load bearing capacity (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 23.25 x 31.25

Perimeter pier pad size 20x20

Other pier pad sizes (required by the mfg.) 24x24

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

1" 24x24 23.25x31.25

2 23.25x31.25

3 24x24

TIEDOWN COMPONENTS

Longitudinal Stabilizing Device (LSD) Manufacturer OLIVER 1101V

Longitudinal Stabilizing Device w/ Lateral Arms Manufacturer OLIVER 1101V

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

FRAME TIES

OTHER TIES

Number Per Factory PGD

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.

X _____ X _____ X _____

TORQUE PROBE TEST

The results of the torque probe test is 280 inch pounds or check here if you are declaring 5' anchors without testing. A test showing 275 inch pounds or less will require 4 foot anchors.

Note: A slate approved lateral arm system is being used and 4 ft. anchors are allowed at the sidewalk locations. 1 under stand 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.

Installer's initials

ALL TESTS MUST BE PERFORMED BY A LICENSED INSTALLER

Installer Name

Ken Lake

Date Tested

7-8-04

Electrical

Connect electrical conductors between multi-wide units, but not to the main power source. This includes the bonding wire between multi-wide units. Pg. 12

Plumbing

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

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

Site Preparation

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

Fastening multi wide units

Floor: Type Fastener: 2x6s Length: 3/4x6" Spacing: 20"
Walls: Type Fastener: 2x6s Length: 3/4x6" Spacing: 24"
Roof: Type Fastener: 2x6s Length: 3/4x6" Spacing: 20"
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, mildew 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 KL

Type gasket Foam Seal

Installed:

Pg. 40
Between Floors Yes ✓
Between Walls Yes ✓
Bottom of ridgebeam Yes ✓

Weatherproofing

The bottomboard will be repaired and/or taped. Yes ✓ Pg. 40
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: _____

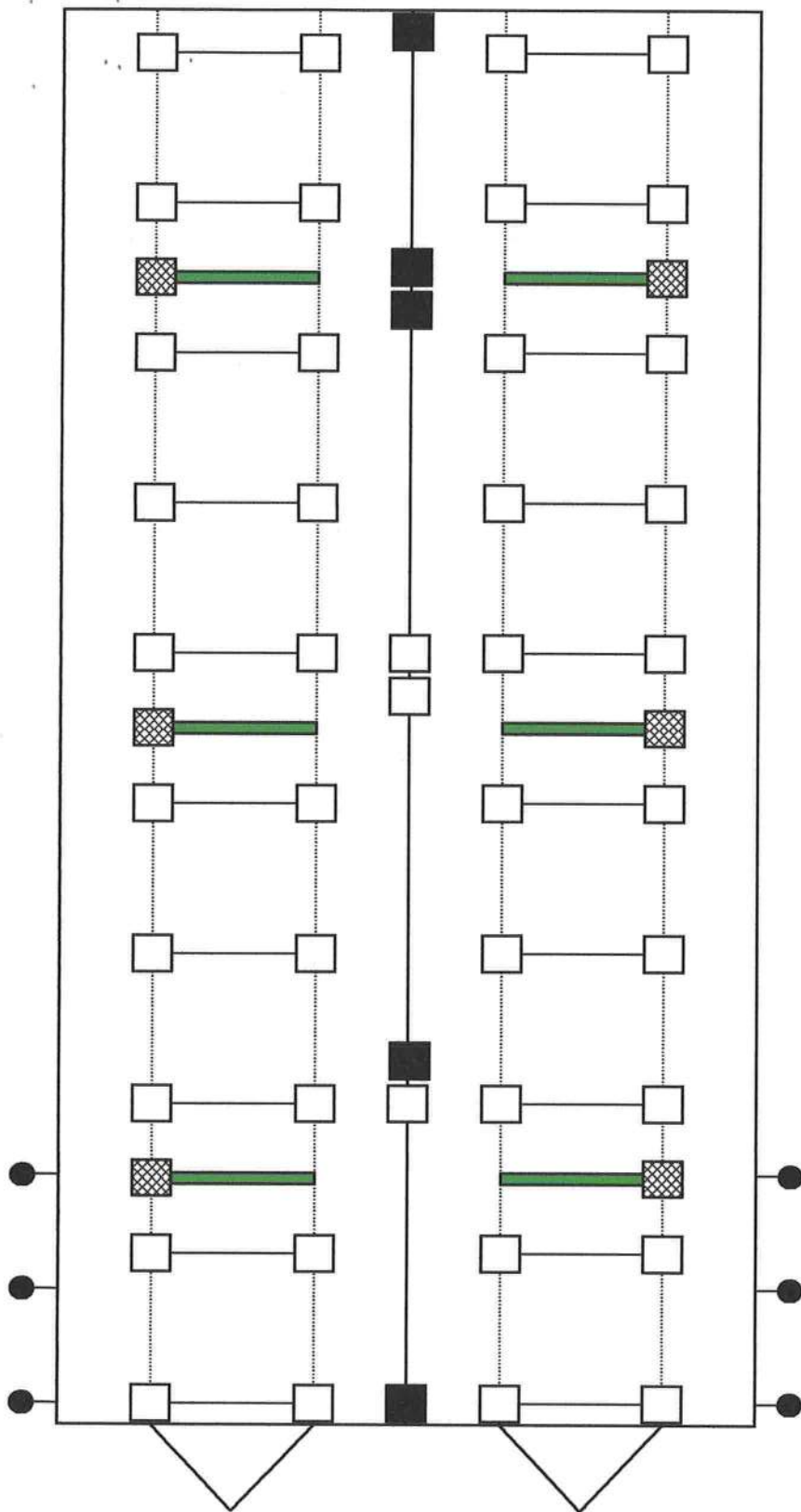
Installer verifies all information given with this permit worksheet

is accurate and true based on the

manufacturer's installation instructions and or Rule 15C-1 & 2

Installer Signature Ken Lake

Date 7-13-04



**FRAME
SPACING**

7' 0"

**PERIMETER
SPACING**

NA

**ANCHOR
SPACING**

5'4"

**BOX
WIDTH**

32'

**BOX
LENGTH**

66'

**I- BEAM
HEIGHT**

12"

LEGEND	
●	SIDEWALL ANCHORS
■	OLIVER 1101-V SYSTEM
□	PADS -- 23.25 X 31.25 ABS
■	PADS -- 18.5 X 18.5 ABS
■	PADS -- 20 X 20 ABS
■	PADS -- 24 X 24 ABS
■	PADS -- 26.25" X 26.25" ABS

SCALE

Approx. 1/8" = 1'

NOTES
1). PIER SPACING MAY CHANGE "LESS THAN 10%" DUE TO OBSTRUCTIONS
2). LONGITUDINAL ANCHORS MAY BE SUBSTITUTED WITH THE L2SD SYSTEM WILL BE NOTIFIED WITH A COPY DRAWING AT THE SITE
3). REFER TO 15-C FOR CENTERLINE BLOCKING REQUIREMENTS
4). PRELIMINARY TESTING REVEALED THE FOLLOWING RESULTS, PRIOR TO PERMIT PROCESS. A NEW TEST WILL BE PERFORMED AT THE TIME OF SET, NEW INFO. WILL BE ON THE JOB SITE.
5) DOOR PIERS AND SIDEWALL "G" ANCHORS ARE DESIGNATED AND OBVIOUSLY MARKED ON THE HOME
6) PORCHES, FIREPLACES, SIDING GLASS DOORS AND MUD/TAPED SHEETROCK HOMES REQUIRE SPECIAL PERIMETER BLOCKING
7) FACTORY SUPPLIED CLIPS OR STRAPS WILL PLACEMENT OF SIDEWALL ANCHORS

MANUFACTURING DATE

3/13/04

MODEL NAME

Springhill

MODEL NUMBER

0663W

PENTROMETER TEST RESULTS

1000 P.S.F.

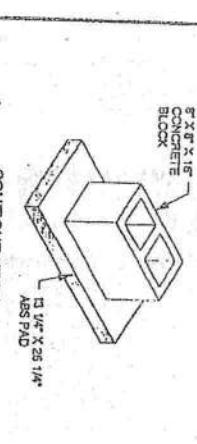
TORQUE PROBE TEST RESULTS

>275 IN. LBS.

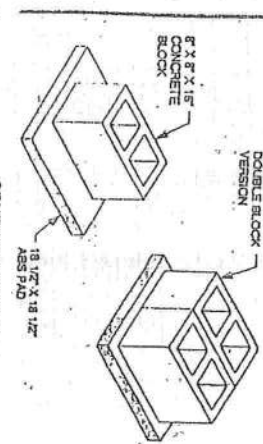
CUSTOMER NAME

BLANCHARD

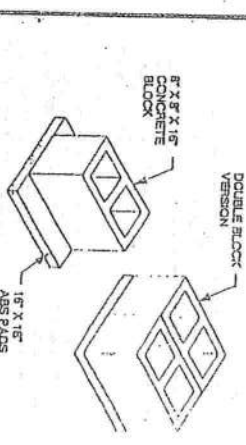
CENTERLINE PIER WEIGHT LOADS		
PIER 1 ~~~~~ 2800	PIER 3 ~~~~~ 8800	PIER 5 ~~~~~ 2900
PIER 2 ~~~~~ 8700	PIER 4 ~~~~~ 7800	



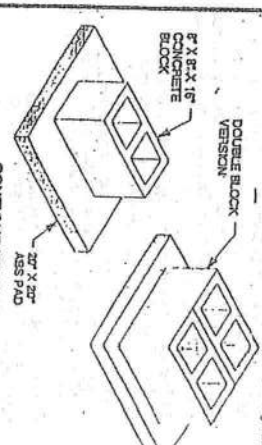
CONFIGURATION - 1



CONFIGURATION - 3

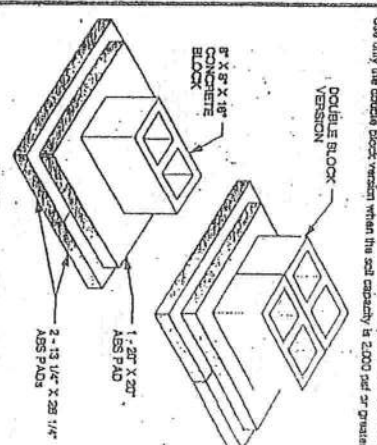


CONFIGURATION - 2



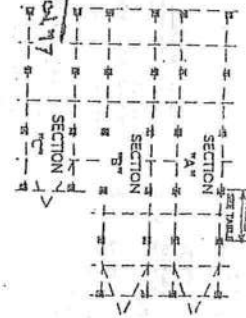
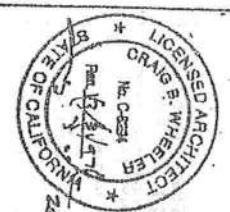
CONFIGURATION - 4

- NOTES:
1. ABS pads to be manufactured by Manufactured Housing Foundation Systems, Inc.
 2. ABS pads to be installed, assembled, pinned and glued per manufacturer's installation instructions.
 3. Pier spacing to be per applicable loads.
 4. For values greater than 1000 psf soil bearing capacity, use a pocket penetrometer or other approved testing equipment to determine actual soil capacity.
 5. Pad installation and configuration to meet applicable local codes.
 6. For soil values greater than 3,000 psf, use the tables for 3,000 psf soil.
 7. WARNING: If ABS pads deflect more than 5/8", pier spacing must be reduced because soil bearing capacity is less than adequate.



CONFIGURATION - 5

APPROVAL		FLEETWOOD ENTERPRISES, INC.		Calculation Numbers		PROPRIETARY AND CONFIDENTIAL				
RADCO	AUG 27 1997	APPROVED	8	0022155	0022162	These drawings and specifications are the property of Fleetwood Enterprises, Inc. Copyright © 1997 by Fleetwood Enterprises, Inc.	TITLE			
				0022140	0022163					
				0022159						
				0022161						
				By: Jack W.	NO.	ABS FOOTING PAD CONFIGURATIONS				
				Date: 6-20-97	72-72-0081.1	REV. A				



12 WIDE - ABS FOOTINGS

12 WIDE - ABS FOOTINGS

MAXIMUM BEAM FOOTING SPACING (FEET)

(PSF)	(PSF)	Main Beam Size (ft.)			Main Beam Size (ft.)			Main Beam Size (ft.)			Main Beam Size (ft.)		
		8	10	12	8	10	12	8	10	12	8	10	12
1000	20	4'-5"	4'-5"	4'-5"	3'-5"	3'-5"	3'-5"	4'-5"	4'-5"	4'-5"	3'-5"	3'-5"	3'-5"
	30	4'-0"	4'-0"	4'-0"	3'-0"	3'-0"	3'-0"	4'-0"	4'-0"	4'-0"	3'-0"	3'-0"	3'-0"
	40	3'-5"	3'-5"	3'-5"	3'-0"	3'-0"	3'-0"	3'-5"	3'-5"	3'-5"	3'-0"	3'-0"	3'-0"
1500	20	7'-0"	7'-0"	7'-0"	5'-0"	5'-0"	5'-0"	7'-0"	7'-0"	7'-0"	5'-0"	5'-0"	5'-0"
	30	6'-5"	6'-5"	6'-5"	4'-5"	4'-5"	4'-5"	6'-5"	6'-5"	6'-5"	4'-5"	4'-5"	4'-5"
	40	5'-5"	5'-5"	5'-5"	4'-0"	4'-0"	4'-0"	5'-5"	5'-5"	5'-5"	4'-0"	4'-0"	4'-0"
2000	20	8'-0"	8'-0"	8'-0"	7'-0"	7'-0"	7'-0"	8'-0"	8'-0"	8'-0"	7'-0"	7'-0"	7'-0"
	30	7'-5"	7'-5"	7'-5"	6'-5"	6'-5"	6'-5"	7'-5"	7'-5"	7'-5"	6'-5"	6'-5"	6'-5"
	40	7'-5"	7'-5"	7'-5"	6'-5"	6'-5"	6'-5"	7'-5"	7'-5"	7'-5"	6'-5"	6'-5"	6'-5"
2500	20	8'-0"	10'-0"	11'-0"	8'-0"	8'-0"	8'-0"	10'-0"	11'-5"	8'-0"	8'-0"	8'-0"	8'-0"
	30	8'-0"	9'-5"	9'-5"	7'-5"	7'-5"	7'-5"	8'-0"	10'-0"	11'-5"	8'-0"	10'-0"	12'-0"
	40	8'-0"	8'-5"	8'-5"	7'-0"	7'-0"	7'-0"	8'-0"	10'-0"	10'-5"	8'-0"	10'-0"	12'-0"
3000	20	8'-0"	10'-0"	11'-0"	8'-0"	8'-0"	8'-0"	10'-0"	12'-0"	8'-0"	8'-0"	8'-0"	8'-0"
	30	8'-0"	9'-5"	9'-5"	8'-0"	8'-0"	8'-0"	10'-0"	12'-0"	12'-0"	8'-0"	10'-0"	12'-0"
	40	8'-0"	8'-5"	8'-5"	7'-5"	7'-5"	7'-5"	10'-0"	11'-0"	10'-0"	10'-0"	12'-0"	12'-0"

14 WIDE - ABS FOOTINGS

MAXIMUM BEAM FOOTING SPACING (FEET)

(PSF)	(PSF)	Main Beam Size (in.)												Main Beam Size (in.)											
		8	10	12	8	10	12	8	10	12	8	10	12	8	10	12									
1000	20	3'-6"	3'-6"	4'-0"	3'-0"	3'-0"	2'-6"	2'-6"	2'-6"	4'-0"	4'-0"	4'-0"	3'-0"	3'-0"	3'-0"										
	30	3'-6"	3'-6"	3'-6"	2'-6"	2'-6"	2'-6"	3'-6"	3'-6"	3'-6"	2'-6"	2'-6"	2'-6"	3'-6"	3'-6"										
	40	3'-0"	3'-0"	3'-0"	2'-6"	2'-6"	2'-6"	3'-0"	3'-0"	3'-0"	2'-6"	2'-6"	2'-6"	3'-0"	3'-0"										
1500	20	3'-6"	3'-6"	4'-0"	3'-0"	3'-0"	2'-6"	2'-6"	2'-6"	4'-0"	4'-0"	4'-0"	3'-0"	3'-0"	3'-0"										
	30	3'-6"	3'-6"	3'-6"	2'-6"	2'-6"	2'-6"	3'-6"	3'-6"	3'-6"	2'-6"	2'-6"	2'-6"	3'-6"	3'-6"										
	40	3'-0"	3'-0"	3'-0"	2'-6"	2'-6"	2'-6"	3'-0"	3'-0"	3'-0"	2'-6"	2'-6"	2'-6"	3'-0"	3'-0"										
2000	20	3'-6"	3'-6"	4'-0"	3'-0"	3'-0"	2'-6"	2'-6"	2'-6"	4'-0"	4'-0"	4'-0"	3'-0"	3'-0"	3'-0"										
	30	3'-6"	3'-6"	3'-6"	2'-6"	2'-6"	2'-6"	3'-6"	3'-6"	3'-6"	2'-6"	2'-6"	2'-6"	3'-6"	3'-6"										
	40	3'-0"	3'-0"	3'-0"	2'-6"	2'-6"	2'-6"	3'-0"	3'-0"	3'-0"	2'-6"	2'-6"	2'-6"	3'-0"	3'-0"										
2500	20	3'-6"	3'-6"	4'-0"	3'-0"	3'-0"	2'-6"	2'-6"	2'-6"	4'-0"	4'-0"	4'-0"	3'-0"	3'-0"	3'-0"										
	30	3'-6"	3'-6"	3'-6"	2'-6"	2'-6"	2'-6"	3'-6"	3'-6"	3'-6"	2'-6"	2'-6"	2'-6"	3'-6"	3'-6"										
	40	3'-0"	3'-0"	3'-0"	2'-6"	2'-6"	2'-6"	3'-0"	3'-0"	3'-0"	2'-6"	2'-6"	2'-6"	3'-0"	3'-0"										
3000	20	3'-6"	3'-6"	4'-0"	3'-0"	3'-0"	2'-6"	2'-6"	2'-6"	4'-0"	4'-0"	4'-0"	3'-0"	3'-0"	3'-0"										
	30	3'-6"	3'-6"	3'-6"	2'-6"	2'-6"	2'-6"	3'-6"	3'-6"	3'-6"	2'-6"	2'-6"	2'-6"	3'-6"	3'-6"										
	40	3'-0"	3'-0"	3'-0"	2'-6"	2'-6"	2'-6"	3'-0"	3'-0"	3'-0"	2'-6"	2'-6"	2'-6"	3'-0"	3'-0"										

APPROVAL		FLEETWOOD ENTERPRISES, INC. HOUSING CONSTRUCTION & SAFETY STANDARDS		Calculation Numbers		PROPRIETARY AND CONFIDENTIAL These drawings and specifications are the property of Fleetwood Enterprises, Inc. Copyright © 1997 by Fleetwood Enterprises, Inc.	
RADCO	AUG 27 1997	8	APPROVED	0022156	0022162	MAIN BEAM ABS FOOTING CONFIGURATION AND SPACING 12 & 14 WIDE 20, 30, & 40 PSF ROOF LL	
				0022140	0022163		
				0022148			
				0022159			
0022161				By: Anna Z.	NO.	72-72-0081.2	REV. A
				Date: 6/20/97			

S-1

16 & 18 WIDE - SINGLE, DOUBLE, OR TRIPLE SECTIONS 20, 30, & 40 PSF

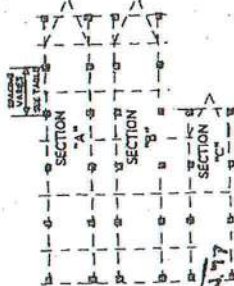
These tables determine the footing and spacing configuration along the main beams of the sections.

Refer to page 72-0081.1 for footing and spacing details.

Review the tables and indicate the footing type you are going to use for main beams.

Refer to page 18 of the Installation Manual for the procedure on using the tables.

Refer to Fleetwood Home Installation Manual for section spacing requirements.



16 WIDE - ABS FOOTINGS

Soil Capacity (PSF)	MAXIMUM BEAM FOOTING SPACING (FEET)											
	Configuration 1			Configuration 2			Configuration 3			Configuration 4		
	8	10	12	8	10	12	8	10	12	8	10	12
1000	3'-0"	3'-0"	3'-0"	2'-6"	2'-6"	2'-6"	3'-0"	3'-0"	3'-0"	4'-0"	4'-0"	4'-0"
1500	3'-0"	3'-0"	3'-0"	2'-6"	2'-6"	2'-6"	3'-0"	3'-0"	3'-0"	3'-6"	3'-6"	3'-6"
2000	3'-0"	3'-0"	3'-0"	2'-6"	2'-6"	2'-6"	3'-0"	3'-0"	3'-0"	3'-6"	3'-6"	3'-6"
2500	3'-0"	3'-0"	3'-0"	2'-6"	2'-6"	2'-6"	3'-0"	3'-0"	3'-0"	3'-6"	3'-6"	3'-6"
3000	3'-0"	3'-0"	3'-0"	2'-6"	2'-6"	2'-6"	3'-0"	3'-0"	3'-0"	3'-6"	3'-6"	3'-6"

18 WIDE - ABS FOOTINGS

Soil Capacity (PSF)	MAXIMUM BEAM FOOTING SPACING (FEET)											
	Configuration 1			Configuration 2			Configuration 3			Configuration 4		
	8	10	12	8	10	12	8	10	12	8	10	12
1000	3'-0"	3'-0"	3'-0"	2'-6"	2'-6"	2'-6"	3'-0"	3'-0"	3'-0"	4'-0"	4'-0"	4'-0"
1500	3'-0"	3'-0"	3'-0"	2'-6"	2'-6"	2'-6"	3'-0"	3'-0"	3'-0"	3'-6"	3'-6"	3'-6"
2000	3'-0"	3'-0"	3'-0"	2'-6"	2'-6"	2'-6"	3'-0"	3'-0"	3'-0"	3'-6"	3'-6"	3'-6"
2500	3'-0"	3'-0"	3'-0"	2'-6"	2'-6"	2'-6"	3'-0"	3'-0"	3'-0"	3'-6"	3'-6"	3'-6"
3000	3'-0"	3'-0"	3'-0"	2'-6"	2'-6"	2'-6"	3'-0"	3'-0"	3'-0"	3'-6"	3'-6"	3'-6"

APPROVAL

FLEETWOOD ENTERPRISES INC.

REGISTERED MANUFACTURER

RESIDENTIAL CONSTRUCTION

SAFETY STANDARDS

AUG 27 1997

8

APPROVED

Calculation Numbers

0022156	0022162
0022140	0022163
0022148	
0022159	
0022161	

MAIN BEAM ABS FOOTING CONFIGURATION AND SPACING 16 & 18 WIDE 20, 30, & 40 PSF ROOF LL

By: Anna Z. No. 72-72-0081.3

Date: 6/20/97

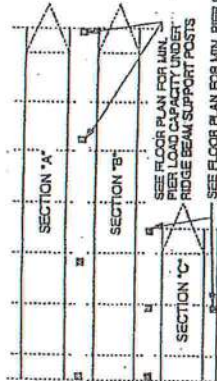
REV. A



NOTE

The footing capacity table on this page indicates the maximum load that can be placed on the various footing configurations. The minimum footing capacity for the beam support posts have been established for each post on the model floor plan attached to the flap in the back of this manual.

EXAMPLE OF MINIMUM SUPPORT POST LOADS FOUND ON FLOOR PLAN



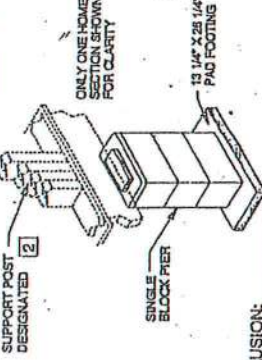
PROCEDURE

- The location of the ridge beam support posts are designated by yellow labels along the mating line of the floor, and on the floor plan by a square symbol containing a number, for example, [1]. Post [1] or [2] is always the first support post at the front or low bar end of the section.
- Review the first column in the table on the floor plan entitled 'Minimum Pier Loads (lbs.)' for the minimum loads for each pair of support piers.
- Using the same soil capacity column chosen for the main beam piers, select a footing and footing configuration that meets or exceeds the minimum loads from the table on the floor plan for each mating line pier.
- The type of pier and footing selected under the support posts, are to meet or exceed the minimum loads established for each mating line pier.

Refer to page 72-72-0081.1 for ABS footing pad configuration details

EXAMPLE 1

Post [2] has a minimum pier load of 2,100 lbs. Using 1000 lbs. soil capacity, ABS pad footing Configuration 1 is required under a single block pier at post location [2].

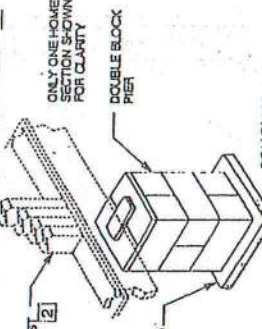


CONCLUSION:

This footing configuration can carry a maximum of 2375 lbs.

EXAMPLE 2

Post [3] has a minimum pier load of 3,800 lbs. Using 1500 lbs. soil capacity, ABS pad footing Configuration 4 is required with double block pier at post location [3].



CONCLUSION:

This footing configuration can carry a maximum of 4125 lbs.

APPROVAL

FLEETWOOD ENTERPRISES INC.

REGISTERED MANUFACTURER

RESIDENTIAL CONSTRUCTION

SAFETY STANDARDS

AUG 27 1997

8

APPROVED

Calculation Numbers

0022156	0022162
0022140	0022163
0022158	
0022159	
0022161	

SUPPORT POST ABS FOOTING REQUIREMENTS 12, 14, 16 & 18 WIDE 20, 30 & 40 PSF ROOF LL

By: Jack W. No. 72-72-0081.4

Date: 6-20-97

REV. A

S-2

APPROVED
ANCHOR MANUFACTURERS LISTING
(Anchor and Components)

MOBILE HOME SAFETY PRODUCTS
dba OLIVER TECHNOLOGIES, INC.
P.O. Box 58/467 Swan Avenue
Hohenwald, Tennessee 38462

MODEL #	IDENTIFICATION	DESCRIPTION
1055-18 L	Longitudinal Stabilizing System	20" Galvanized Steel Pad Beam Clip for longitudinal bracing system w/square tubing in a cross "X" pattern
1101 L	All Steel Foundation System	Longitudinal Stabilizing System
1101	All Steel Foundation System	Lateral and Longitudinal System
1101 V	All Steel Foundation System	Longitudinal Stabilizing & Lateral Bracing System
1055-11	Adjustable Outrigger	Bracket, Pipe and Screw Adjustment
OT607B	Auger Anchor (use with approved strapping & split bolt)	3/4" x 60" rod w/single 7.50" disc, thickness 0.171" galvanized steel with dbl bolt head
OT1100CA	J-Hook Concrete Anchor	7" x 0.646" galvanized steel with dbl bolt head
OTMSP-1	Metal Ground Stabilizer Plate	18" x 13 1/2"
OT2001	Swivel Frame Clamp	3/16 x 2" Galvanized upper and lower jaws for I-Beam Clamp
OT2002	Sidewall Strap Connector	G-40 Galvanized 7 gauge steel

APPROVED
ANCHOR MANUFACTURERS LISTING
(Anchor and Components)

MOBILE HOME SAFETY PRODUCTS
dba OLIVER TECHNOLOGIES, INC.
P.O. Box 58/467 Swan Avenue
Hohenwald, Tennessee 38462

MODEL #	IDENTIFICATION	DESCRIPTION
2 4148-4	Plastic Pad	13 1/4" x 26 1/4" x 3/4" as base
1 1055-7	Plastic Pad	20" x 20" x 7/8" on top
MAXIMUM PIER LOADS IN POUNDS		
Number of Concrete Blocks		
Single Pier	Soil Bearing Value	Max. Allowable Load
Double Pier	1,000 lbs./sq. ft.	4,800 lbs.
	2,000 lbs./sq. ft.	9,600 lbs.
MODEL #	IDENTIFICATION	DESCRIPTION
1055-19	Plastic Stabilizer Post	9.95" x 2 1/4" x .742" at top
1055-19	Flex Free ABS Plastic Pad	17.5" x 22.5"
1055-20	Flex Free ABS Plastic Pad	23.25" x 31.25" (4,698 sq. ft.)
1055-22	Flex Free Rounded ABS Plastic Pad	21.13" x 29.13" (4 sq. ft.)
1055-23	Flex Free Rounded ABS Plastic Pad	16" x 18.5" (2 sq. ft.)
2410	OTT ABS Plastic Wedge	3.5" x 6.0" x 0.946"
OT486A	Auger Anchor	3/8" x 48" rod w/single 6" disc/thickness 0.164" galvanized steel, dbl bolt head
OT486B	Auger Anchor	3/4" x 48" rod w/single 6" disc/thickness 0.169" galvanized steel, dbl bolt head

Continued

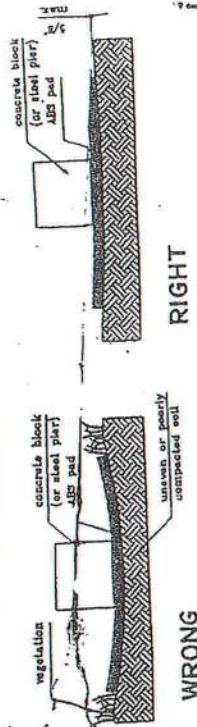
8-3

MANUFACTURED HOUSING FOUNDATION SYSTEMS
A Division of Oliver Technologies, Inc.
1-800-284-7437
HOME OF THE ORIGINAL ABS PIER PAD

(IMPORTANT)
IF PAD DEFLECTS MORE THAN 5/8" WHEN
INSTALLED, PIER SPACING IS INCORRECT
FOR SOIL CONDITIONS, OR A DOUBLE FIRST
BLOCK CONFIGURATION SHOULD BE USED

Installation Instructions for ABS Pads

The purpose of this addendum is to emphasize that the ground under the ABS pads must be leveled, evenly compacted, and cleared of all vegetation and debris before the placement of the pads.



The maximum deflection in a single pad is 5/8" measured from the highest point to the lowest point of the top.

PAD SIZE	PAD AREA	1000 LB. SOIL	2000 LB. SOIL	3000 LB. SOIL
16" x 16"	256 SQ. IN.	1780 LBS.	3560 LBS.	5331 LBS.
16" x 18"	288 SQ. IN.	2000 LBS.	4000 LBS.	6000 LBS.
13" x 26"	338 SQ. IN.	2375 LBS.	4750 LBS.	7125 LBS.
18.5" x 18.5"	342 SQ. IN.	2375 LBS.	4750 LBS.	7125 LBS.
20" x 20"	400 SQ. IN.	2750 LBS.	5500 LBS.	8250 LBS.*
24" x 24"	576 SQ. IN.	4000 LBS.	8000 LBS.*	12000 LBS.*

*Concrete blocks are only rated at 8000 LBS. 8000 LBS.+ must be double blocked.

General Notes:

- Any configuration above may be used to replace a home manufacturer's recommended concrete or wood base pad.
- The maximum load at any intermediate soil value may be determined as the average of the next lower and next higher soil values given in the above table.
- Pad sizes shown are nominal dimensions and may vary up to 1/8".
- Pad loads are the same when using single stack or double stack blocks.



State of Florida DEPARTMENT OF HIGHWAY SAFETY AND MOTOR VEHICLES TALLAHASSEE, FLORIDA 32399-0500

FRED G. DICKINSON, III
Executive Director

March 20, 2002

Mr. Bert A. Moore, Financial Manager
Manufactured Housing Foundation Systems
Oliver Technologies, Inc.
Post Office Box 9 (467 Swan Avenue)
Hohenwald, Tennessee 38462

Dear Mr. Moore:

We wish to acknowledge receipt of your specifications and test results certifying that your Longitudinal Stabilizing and Lateral Bracing System, 1101 V, listed below complies with the specifications and regulations set by the Department of Highway Safety and Motor Vehicles, Rules 15C-1.0105, 15C-1.0107 and 15C-1.0108, Florida Administrative Code.

Installation instructions must be available at the installation site.

MODEL #	DESCRIPTION
1101 V	Longitudinal Stabilizing and Lateral Bracing System

NOTE: This system is for replacement of longitudinal anchors. This system can only be used with sidewall anchor spacing of 5'4". Maximum strut angle 45°.

If you have any questions, please advise at (407) 623-1340.

Sincerely,

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

PRB:srb

DIVISIONS/FLORIDA HIGHWAY PATROL • DRIVER LICENSES • MOTOR VEHICLES • ADMINISTRATIVE SERVICES
Neil Kitchman Building, Tallahassee, Florida 32399-0500

S-4



State of Florida
DEPARTMENT OF
HIGHWAY SAFETY AND MOTOR VEHICLES

TALLAHASSEE, FLORIDA 32399-0500

MEMORANDUM

FRED O. DICKINSON, III
Executive Director
June 14, 2002

TO: All Anchor and Component Manufacturers
FROM: Philip R. Bergel, Program Manager
Bureau of Mobile Home and Recreational Vehicle Construction
SUBJECT: Lateral Arm Stabilizer Systems

To ensure consumer protection and to ensure that minimum standards are met in the installation of Lateral Arm Stabilizing Systems, it is necessary for us to create uniform installation standards for these systems. A secondary benefit of uniform standards will be the clarification of installation procedures for installers and for county and city inspectors performing field oversight.

Effective immediately all Florida lateral arm stabilizing instructions will include the following prescriptive number of systems:

Four (4) systems up to 52 feet
Six (6) systems from 52 to 80 feet

Five (5) 12 pitch roofs will require a minimum of the following number of lateral arm stabilizing systems, unless a greater number is specified by your engineering:

Six (6) systems up to 52 feet
Eight (8) systems from 52 to 80 feet

Your instructions should contain the following three (3) notes:

Note: 1) The use of this system requires sidewall vertical ties at no greater than 5'4" on center and allows for the use of 4' anchors.

Note: 2) 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.

Note: 3) Each system is required to have a frame tie and stabilizer attached at each lateral arm stabilizing location.

DIVISIONS/FLORIDA HIGHWAY BUREAU • DRIVER LICENSES • MOTOR VEHICLES • ADMINISTRATIVE SERVICES
Neil Kirtman Building, Tallahassee, Florida 32399-0500

3-5

ENGINEER'S STAMP

1. SPECIAL CIRCUMSTANCES: If the following conditions occur - STOP! Contact Oliver Technologies at 1-800-284-7437:
a) Pier height exceeds 48" b) Length of home exceeds 76' c) Roof eaves exceed 18" d) Sidewall height exceed 96"
e) Location is within 1500 feet of coast

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 with or below soil.

SPECIAL NOTE: The longitudinal "V" brace system serves as a pier under the home and should be loaded as any other pier. It is recommended that after leveling piers, and one-half inch (1/2") before home is lowered completely on to piers, complete steps 4 through 9 below.

INSTALLATION OF LONGITUDINAL "V" BRACE SYSTEM

NOTE: WHEN INSTALLING THE MODEL 1101 "V" LONGITUDINAL SYSTEM, A MINIMUM OF 2 SYSTEMS PER FLOOR SECTION IS REQUIRED. FOUR FOOT (4') GROUND ANCHOR MAY BE USED EXCEPT WHERE THE HOME MANUFACTURER SPECIFIES DIFFERENT. USE GROUND ANCHORS WITH DIAGONAL TIES AND STABILIZER PLATES EVERY 8'4". VERTICAL TIES ARE ALSO REQUIRED ON HOMES SUPPLIED WITH VERTICAL TIE CONNECTION POINTS (PER FLORIDA REG.).

4. Select the correct square tube brace (E) length for set - up (pier) height at support location. (The 18" tube is always used as the bottom part of the longitudinal arm). Note: Either tube can be used by itself, cut and drilled to length as long as a 40 to 45 degree angle is maintained.

PIER HEIGHT (Approx. 45 degrees Max.)	1.25" ADJUSTABLE Tube Length	1.50" ADJUSTABLE 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"

5. Install (2) of the 1.50" square tubes (E (18" tube)) into the "V" 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. 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.
8. Repeat steps 6 through 7 to create the "V" pattern of the square tubes loosely in place. The angle is not to exceed 45 degrees and not below 40 degrees.
9. After all bolts are tightened, secure 1.25" and 1.50" tubes using four (4) 1/4" - 14 x 3/4" self-lapping screws in pre-drilled holes.

INSTALLATION OF LATERAL TELESCOPING TRANSVERSE ARM SYSTEM

THE MODEL 1101 "V" LONGITUDINAL & LATERAL PROTECTION ELIMINATES THE NEED FOR MOST STABILIZER PLATES & FRAME TIES.

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.
11. NOTE: Each system is required to have a frame tie and stabilizer attached at each lateral arm stabilizing location.
12. 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.)
13. Install the 1.50 transverse brace (H) to the ground pan connector (D) with bolt and nut.
14. Slide 1.25" transverse brace into the 1.50" brace and attach to adjacent I-beam connector (I) with bolt and nut.
15. Secure 1.50" transverse arm to 1.25" transverse arm using four (4) 1/4" - 14 x 3/4" self-lapping screws in pre-drilled holes.



MANUFACTURED HOUSING FOUNDATION SYSTEMS
A DIVISION OF OLIVER TECHNOLOGIES, INC.
1-800-284-7437

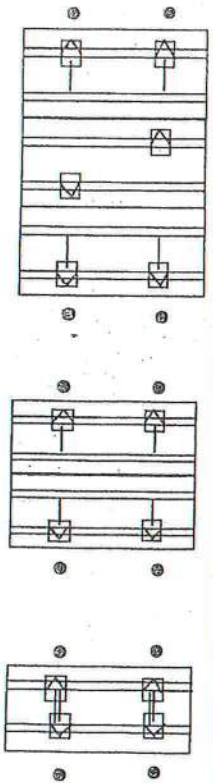
Telephone: 811-786-4555
Fax: 331-796-8511
www.olivertechnologies.com

OLIVER TECHNOLOGIES, INC.
FLORIDA INSTALLATION INSTRUCTIONS FOR THE
MODEL 1101 "V" SERIES ALL STEEL FOUNDATION SYSTEM.
MODEL 1101 "V" (STEPS 1-15)
MODEL 1101 "V" LONGITUDINAL ONLY:
FOLLOW STEPS 1-9
FOR ADDING LATERAL ARM:
Follow Steps 10-15

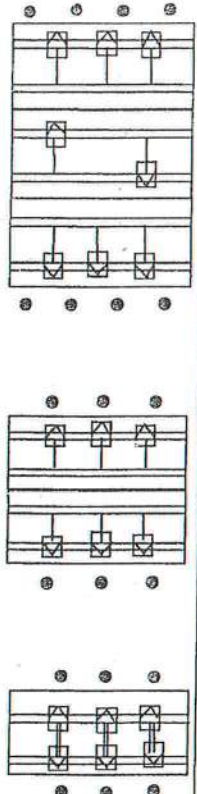
ENGINEER'S STAMP

REQUIRED NUMBER AND LOCATION OF MODEL 1101 "V" BRACES FOR UP TO 4/12 ROOF PITCH

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 to 80'. One stabilizer plate and frame tie required at each lateral bracing system.

NOTES:

1. LENGTH OF HOUSE IS THE ACTUAL BOX SIZE
2. $\circ$ = STABILIZER PLATE AND FRAME TIE LOCATION.
3. $\square$ = LOCATION OF ASF MODEL 1101 "V" (LATERAL & LONGITUDINAL BRACING).
4. $\square$ = LOCATION OF MODEL 1101 "L" (LONGITUDINAL BRACING ONLY).

LEGEND:

C = GROUND PAN
D = GROUND PAN CONNECTOR
E = TELESCOPING V BRACE
F = V-BRACE I-BEAM CONNECTOR
G = TRANSVERSE ASSEMBLY
H = TRANSVERSE ASSEMBLY
I = TRANSVERSE ARM I-BEAM
J = V-PAN BRACKET

Florida approved 4" ground anchors may be used in all locations except where home manufacturers specifications for sidewall straps are in effect. In these locations require a 5" anchor.

PATENT PENDING

REVISED INSTRUCTIONS 6/20/02

Plant: 90, Box 9
 Plant: 467, Ivan Avenue
 Halesworth, In 38462
 Voice: 1-931-796-4555
 FAX: 1-931-796-8811
 Toll Free: 1-800-284-7437

Plastics Injection Molders and Recyclers
 Specializing in Foundation Products

November 7, 2000

To Whom It May Concern:

SUBJECT: BOLT HEAD CONFIGURATION ON CROSSBRACE I-BEAM CONNECTOR

In reference to the bolts used to secure the Crossbrace Connectors to the I-Beams on Our Model 1100 or Model 1100-L Systems, Grade 8 bolts may be used regardless of the head configuration. Carriage Head bolts are noted in our instructions based on ease of installation. However, Hex Head bolts work with the same effectiveness when tightened to the required 110 foot pounds torque called for in the instructions.

In addition, please also be advised that Hex Head bolts may be used as a substitute for any other bolts used in the Model 1100 and 1100-L Systems.

While our instructions picture the bolt as inserted from the top of the bracket, it will also be equally effective if inserted from the bottom and properly tightened as noted above.

This information has been verified through the Professional Engineer, certified in the State Of Florida, who certified our Systems.

Sincerely,

 Bob Burns
 Plant Manager
 Oliver Technologies

S-6

ABS pads as manufactured by MANUFACTURED HOUSING FOUNDATION SYSTEMS, INC. may be used to replace many of the concrete and wood pads used with concrete block plans which are shown on Page 15 of the Home Installation Manual. Use the table of equivalent pad below to determine the proper ABS pad configuration to use for Labeled Perimeter Plans, plans at Labeled G-2 Shearwall Strap locations (both shown on Page 17 of the Home Installation Manual) and for plans used for Perimeter Footings (as shown on Pages 20, 22, 24, 25, 26, and 30 of the Home Installation Manual).

To select the appropriate ABS pad configuration, find the required arrangement of single, double, or triple concrete or wood pads required for the appropriate soil bearing capacity from the tables in the Home Installation Manual. Using the table of equivalent ABS pads below, find the appropriate ABS pad substitution.

TABLE OF FOOTING PAD EQUIVALENTS

Soil Capacity	16" x 16" Concrete Pad	Equivalent ABS Pad Configuration	8" x 16" Concrete Pad	Equivalent ABS Pad Configuration	2x12 x 24" Wood Pad	Equivalent ABS Pad Configuration
1000	SINGLE	2	DOUBLE	2	SINGLE	1 OR 3
1000	DOUBLE	5	TRIPLE	4	DOUBLE	5
1500	SINGLE	2	DOUBLE	2	SINGLE	1 OR 3
1500	DOUBLE	N/A	TRIPLE	4	DOUBLE	N/A
2000 TO 4000	SINGLE	2	DOUBLE	2	SINGLE	1 OR 3
2000 TO 4000	DOUBLE	5	TRIPLE	4	DOUBLE	5



FLEETWOOD ENTERPRISES, INC. HOUSING FOUNDATION SYSTEMS & SAFETY STANDARDS		APPROVAL	
RADCOR AUG 27 1997		APPROVED	
Calculation Numbers		TITLE	
0022155	0022162	ABS FOOTING PAD EQUIVALENTS	
0022140	0022163	By: Frank	
0022153		Date: 6-20-97	
0022159		NO. 72-72-0061.5	
0022151		REV.	

Addendum to page 10 of the Fleetwood Home Installation Manual - SOIL BEARING VALUES

Many local building jurisdictions have soil bearing values available in pounds per square foot (psf). It is important that this information be obtained in order to determine that the home footing sizes and plans are adequate to support the home. However, if (1) Soils investigation and analysis of the site, (2) Compliance with the local building code and (3) Competent opinion by a local registered professional engineer or building official are unavailable, use the procedure shown below to determine the soil bearing capacity.

- A. If all of the following requirements are met for all of the pads under the home, the soil bearing capacity may be assumed to be 2000 psf minimum:
 - 1) All organic material must be removed from under all of the footing pads, and
 - 2) the top three inches of natural soil must be removed from under all of the pads, and
 - 3) the soils under all of the pads must be reasonably level.
- B. If any of these requirements are not met for any of the pads, the soil bearing capacity shall be assumed to be 1000 psf or as determined by other methods outlined in the Fleetwood Home Installation Manual.



FLEETWOOD ENTERPRISES, INC. HOUSING FOUNDATION SYSTEMS & SAFETY STANDARDS		APPROVAL	
RADCOR MAY 17 1996		APPROVED	
Calculation Numbers		TITLE	
		ADDENDUM TO PAGE 10 OF THE INSTALLATION MANUAL	
		By: Jack W.	
		Date: 5-5-96	
		NO. 72-72-0100	
		REV. A	

S-7

October 4, 2000



BF0-113

Don McTaggart (via fax: 352-732-1459)
Bureau of Mobile Home & RV Construction
318 SE 25th Ave.
Ocala, FL 34471

Subject: Lag Screws at Marriageline of Endwall

Dear Don:

Thank you for your fax today concerning this subject. I had already given verbal approval for this procedure to Circle B but let me confirm this in writing to you.

As I understand it the installer is using 3/8" x 4" or 5" lag screws for the close-up of the endwall at the marriageline of our multi-wide homes. Page 44 of the Fleetwood Home Installation Manual (W22 & 23) shows that #8 x 4" wood screws should be used for this application. The installer claims that the wood screws often break off in this application while the lag screws do not.

I see no reason why the lag screws will not perform adequately for this situation. I appreciate your concern for splitting of the lumber, but our manual already recommends using 3/8" lags for roof close-up and this has resulting in very little splitting in the past according to information I have received.

Sincerely,

FLEETWOOD ENTERPRISES, INC.

Bill Farish

Bill Farish, P.E.
Director of Product Engineering
Housing Group

cc - Sean Gerard - Circle B, Ocala (via fax: 352-629-7017)

3051 Myers Street

P.O. Box 7628

Riverside, CA 92513-7628

909-351-2500

S-8



M.E. Dalton
General Manager
Florida Region

February 6, 2004

To: All Florida Manufactured Housing Retailers and Skirting Installers
Subject: Skirting Ventilation

Fleetwood recently sent an advisory to all retailers advising that improperly vented skirting may result in moisture retention under the home. Excess moisture may cause damage to the home's structure and appearance. Fleetwood goes on to advise that damage resulting from improper skirting ventilation is not covered under the terms of the manufacturer's home warranty.

Retailers and/or skirting installers may be liable for damage caused by improper skirting ventilation. Fleetwood states that skirting must provide one (1) square foot of free area vents for every one hundred fifty (150) square feet of skirting. That is equivalent to 0.96 square inches of ventilation per square foot of skirting. Fleetwood states that the ventilation should be distributed equally along the length of the home and on all sides of the home, as well as near the corners of the home.

Style Crest Products' Premium Center Vent Skirting provides 6.3 square inches of free area vents per square foot of skirting. Our Eagle Center Vent Skirting provides 3.6 square inches of free area vents per square foot of skirting. We provide more than three times the required free area ventilation required to meet Fleetwood's minimum standard.

To minimize your liability for potential damage caused by trapped moisture under the home we recommend you install Style Crest Products' Premium or Eagle Center Vent Skirting on all your skirted homes.

Best wishes,

M.E. Dalton

Style Crest Products, 3904 Builders Circle, Plant City, FL 33567 • (813) 754-0435

The support system must also resist the lifting, sliding and overturning forces resulting from side winds. A method used is to install ground anchors and tie-down straps in addition to the piers.
Tiedowns as described are the minimum necessary. If the home is to withstand its design wind load without displacement, on multi-section homes, sections must be fastened together and level before tie-down straps are installed.

WARNING

INSTALLING A SUPPORT SYSTEM WITHOUT TIEDOWNS DOES NOT MEET THE FEDERAL INSTALLATION GUIDELINES.
BEFORE GROUND ANCHOR INSTALLATION, DETERMINE THAT THE ANCHOR LOCATIONS AROUND THE HOME WILL NOT BE CLOSE TO ANY UNDERGROUND ELECTRICAL CABLES, WATER LINES OR SEWER PIPING. FAILURE TO DETERMINE THE LOCATION OF UNDERGROUND ELECTRICAL CABLES MAY RESULT IN SERIOUS PERSONAL INJURY AND EVEN DEATH.
NOTE
The type of ground anchors shown are typical. Other types of anchors may be used provided the manufacturer's installation instructions meet the specifications as outlined on page 5.

GROUND ANCHOR INSTALLATION

- Should be installed below the frost line.
- Should be at least 12 inches above the water table.
- Should be installed to their full depth.
- Stabilizer plates should be installed to provide added resistance to overturning or sliding forces. See Method 3.
- Refer to the manufacturer's instructions for the type soil in which the anchor is to be installed.

METHOD 1

The anchor and anchor head location should be in line with the diagonal strap that will be installed around the main beam.

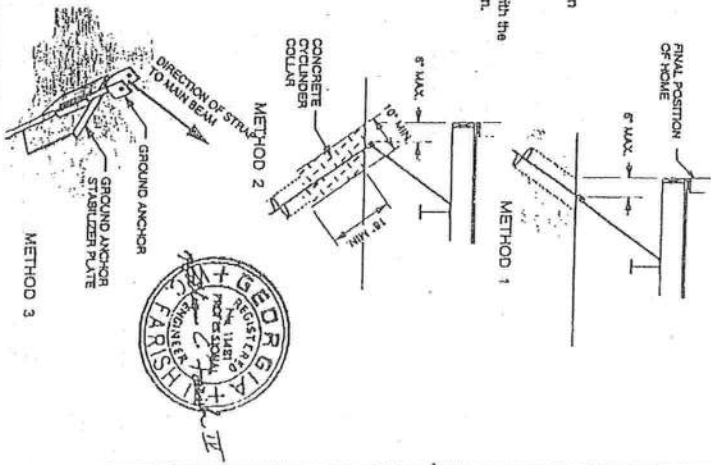
This location may require anchors to be installed at the site location prior to moving the home section(s). If this method is not appropriate, methods 2 and 3 are acceptable alternatives after the section(s) is in position, level and fastened together.

METHOD 2

Anchor may be at a vertical or angle position. Pour a concrete cylinder collar around the anchor shaft approx. 10" in diameter and a minimum of 18" deep.

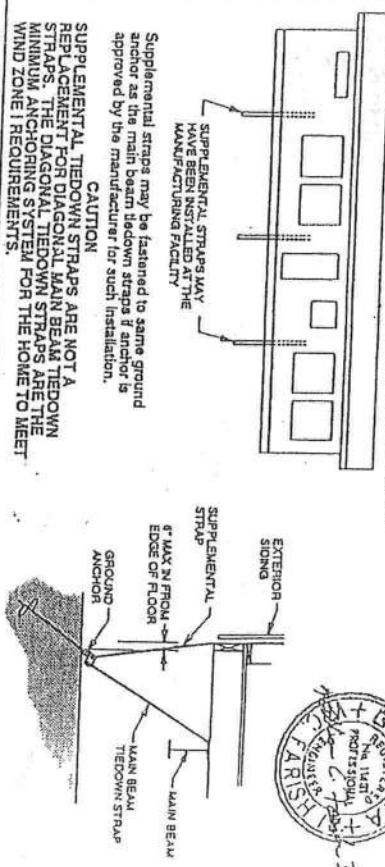
METHOD 3

- Anchor may be at a vertical or angle position.
- Drive anchor into ground approx 18".
- Place stabilizer plate between anchor and metal frame of home. Locate the stabilizer channel over the anchor bar as a guide.
- Drive stabilizer into the ground, using oversize hammer, until top of stabilizer is ground level or below.
- Continue to drive anchor until anchor head is in full contact with the top of the stabilizer plate.



APPROVAL		FLEETWOOD ENTERPRISES INC.		Calculation Numbers	
RADCO		MOUSING CONSTRUCTION		0022167	
JUL 24 1997		4 SAFETY STANDARDS		TITLE	
APPROVED		PROPRIETARY AND CONFIDENTIAL		GROUND ANCHORS	
By: Jack W.		NO. 72-72-0103		REV. B	
Date: 7-25-97					

SUPPLEMENTAL TIEDOWN STRAPS LOCATED ALONG EXTERIOR SIDEWALL (IF PROVIDED) WIND ZONE I ONLY

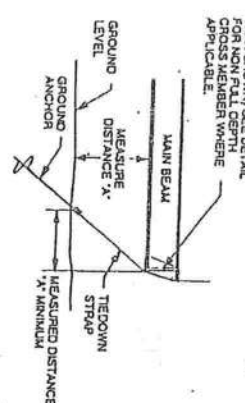


Supplemental straps may be fastened to same ground anchor as the main beam tie-down straps if anchor is approved by the manufacturer for such installation.

CAUTION

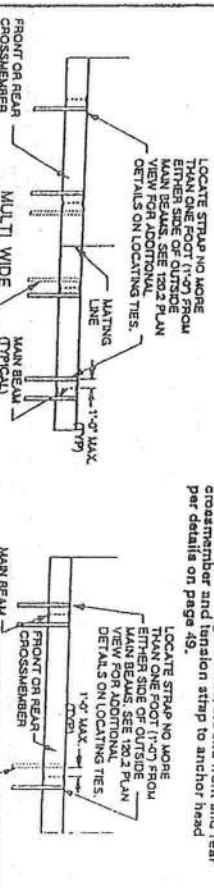
SUPPLEMENTAL TIEDOWN STRAPS ARE NOT A REPLACEMENT FOR DIAGONAL MAIN BEAM TIEDOWN STRAPS. THE DIAGONAL MAIN BEAM TIEDOWN STRAPS ARE THE MINIMUM ANCHORING SYSTEM FOR THE HOME TO MEET WIND ZONE I REQUIREMENTS.

LONGITUDINAL TIEDOWN STRAPS AT FRONT AND REAR OF THE HOME

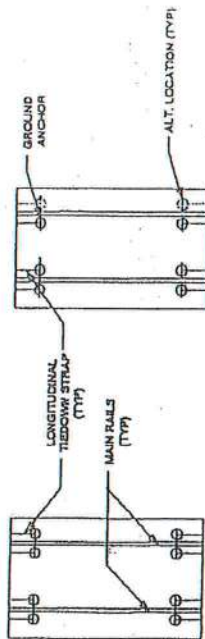


NOTE
1. Thread strap through buckle, around front and rear crossmember and tension strap to anchor head per details on page 49.

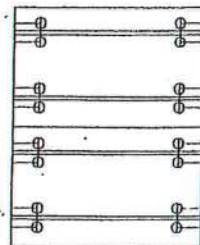
NUMBER OF STRAPS REQUIRED			
WIND ZONE	NUMBER OF SECTIONS	MAX. SECTION WIDTH	
I	SINGLE	3	3
II	DOUBLE	3	6
III	TRIPLE	3	10
IV	SINGLE	3	4
V	DOUBLE	3	8
VI	TRIPLE	3	12



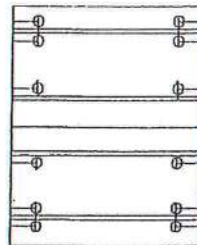
APPROVAL		FLEETWOOD ENTERPRISES INC.		Calculation Numbers	
RADCO		MOUSING CONSTRUCTION		0022167	
DEC 23 1998		4 SAFETY STANDARDS		TITLE	
APPROVED		PROPRIETARY AND CONFIDENTIAL		LONGITUDINAL STRAP REQUIREMENTS	
By: TIMMI		NO. 72-72-0120.1		REV. A	
Date: 11-10-98					



4 - TIE (PER END) SYSTEM
SINGLE SECTION HOME



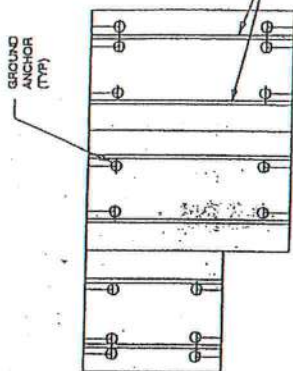
8 - TIE (PER END) SYSTEM



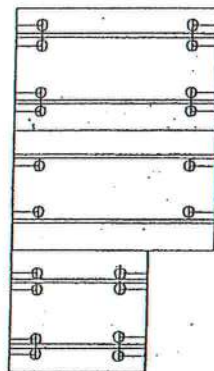
6 - TIE (PER END) SYSTEM
TWO SECTION HOME

Note:
1. Two section details may also be used in combination for "Quad" home configurations.

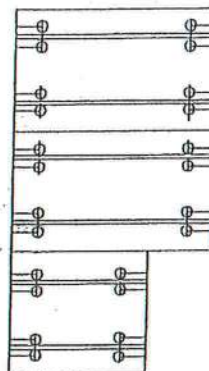
APPROVAL RADCO DEC 23 1998 HOUSING CONSTRUCTION & SAFETY STANDARDS		Calculation Numbers 0022167	PROPRIETARY AND CONFIDENTIAL These drawings and specifications are original, proprietary documents of Fleetwood Enterprises Inc. Copyright © 1998 by Fleetwood Enterprises Inc.
TITLE LONGITUDINAL STRAP REQUIREMENTS WZ-1, WZ-2 & WZ-3 (REPLACES #48 IN MANUAL)		BY: TIMMI NO.	REV
Date: 11-10-98		72-72-0120.2	



8 - TIE (PER END) SYSTEM



10 - TIE (PER END) SYSTEM



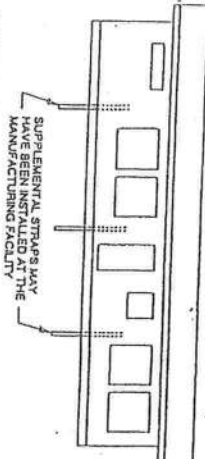
12 - TIE (PER END) SYSTEM

Note:
1. Offset varies and may be at both
front and rear.

APPROVAL RADCO DEC 23 1998 HOUSING CONSTRUCTION & SAFETY STANDARDS		Calculation Numbers 0022167	PROPRIETARY AND CONFIDENTIAL These drawings and specifications are original, proprietary documents of Fleetwood Enterprises Inc. Copyright © 1998 by Fleetwood Enterprises Inc.
TITLE LONGITUDINAL STRAP REQUIREMENTS WZ-1, WZ-2 & WZ-3 (REPLACES #48 IN MANUAL)		BY: TIMMI NO.	REV
Date: 11-10-98		72-72-0120.3	

S-10

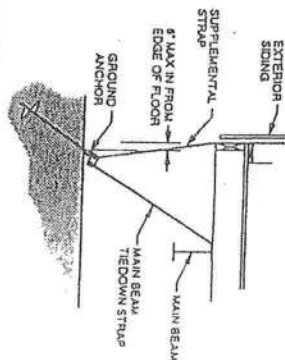
SUPPLEMENT TO THE INSTALLATION MANUAL SUPPLEMENTAL TIEDOWN STRAPS LOCATED ALONG EXTERIOR SIDEWALL (IF PROVIDED) WIND ZONE I ONLY



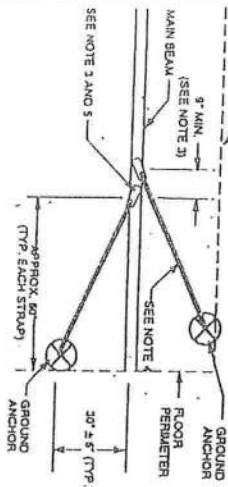
Supplemental straps may be fastened to same ground anchor as the main beam tiedown straps if anchor is approved by the manufacturer for such installation.

CAUTION

SUPPLEMENTAL TIEDOWN STRAPS ARE NOT A REPLACEMENT FOR DIAGONAL MAIN BEAM TIEDOWN STRAPS. THE DIAGONAL TIEDOWN STRAPS ARE THE MINIMUM ANCHORING SYSTEM FOR THE HOME TO MEET WIND ZONE I REQUIREMENTS.



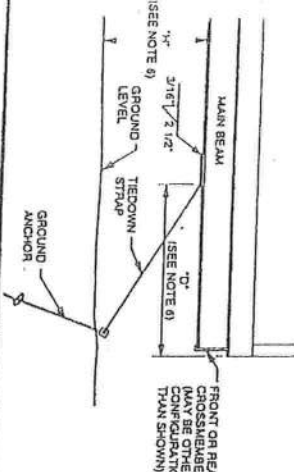
LONGITUDINAL TIEDOWN STRAPS AT FRONT AND REAR OF THE HOME



NUMBER OF STRAPS REQUIRED AT EACH END OF HOME	
END OF HOME	MAX. SECTION WIDTH
1	ALL NA NA NA NA
2	SINGLE 1 3 3 1 4
2	DOUBLE 6 6 6 6 NA
2	TRIPLE 5 10 10 NA
3	SINGLE 4 4 4 4 4
3	DOUBLE 6 6 6 6 NA
3	TRIPLE 10 10 12 NA

Notes:

1. "Quad" houses shall be treated as two separate double section homes.
2. Offsets on multi-section homes do not affect the number of straps required.
3. Connectors are to be placed at front and rear of each floor. Ground anchor shall be a min. of 48" from any mating line anchor and a min. 24" from any sidewall anchor. Connectors may be located along main beam far enough back to allow clearance.
4. Anchorage strap and accessories shall be rated for min. 4725 lbs. capacity at a 45° angle to the ground.
5. Attach strap to slot of min. 3150 lb. rated capacity connector (min. 1.5 factor of safety) welded to the bottom flange of the main beam with min. of 2 1/2" of 3/16" fillet weld.
6. Distance (D) from anchor head to connector slot shall be greater than height (H) of main beam to ground level.



FLEETWOOD ENTERPRISES INC.

Calculation Numbers

PROPRIETARY AND CONFIDENTIAL

HOUSING CONSTRUCTION
6 SAFETY STANDARDS

DEC 23 1998

APPROVED

By: TMMI NO. 72-72-012 REV

TITLE LONGITUDINAL STRAP REQUIREMENTS

WZ-1, WZ-2 & WZ-3

(REPLACES PAGE #48 IN MANUAL)

Date: 11-10-98

72-72-012

REV

S-11

420 WEST BAYA AVENUE
LAKE CITY, FLORIDA 32025
(904) 752-0946

This Warranty Deed Made and executed the 14th day of June A. D. 1996 by
THE SHILOH RIDGE COMPANY

a corporation existing under the laws of STATE OF FLORIDA and having its principal place of
business at JACKSONVILLE, FL 32210
hereinafter called the grantor, to

DENNIS L. SHELTON AND BRENDA K. BLANCHARD, JOINT TENANTS WITH RIGHTS OF
whose postoffice address is 2215 ELIZABETH DRIVE BRANDON, FL 33510

hereinafter called the grantees:

(Wherever used herein the terms "grantor" and "grantee" include all the parties to this instrument and
the heirs, legal representatives and assigns of individuals, and the successors and assigns of corporations)

Witnesseth: That the grantor, for and in consideration of the sum of \$10.00 and other
valuable considerations, receipt whereof is hereby acknowledged, by these presents does grant, bargain, sell,
alien, remise, release, convey and confirm unto the grantees, all that certain land situate in COLUMBIA
County, Florida, viz:

SEE EXHIBIT "A" ATTACHED HERETO AND MADE A PART HEREOF BY THIS
REFERENCE.

DOCUMENTARY STAMP # 343.00
INTANGIBLE TAX 96-08592
P. DEWITT CASON, CLERK OF
COURTS, COLUMBIA COUNTY
BY *MC* D.M.

FILED IN PUBLIC
RECORDS
1996 JUN 18 PM 2:03
CLERK OF COURTS
COLUMBIA COUNTY, FLORIDA
BY *MC* D.M.

Together with all the tenements, hereditaments and appurtenances thereto belonging or in any
wise appertaining.

To Have and to Hold, the same in fee simple forever.

And the grantor hereby covenants with said grantees that it is lawfully seized of said land in fee
simple; that it has good right and lawful authority to sell and convey said land; that it hereby fully war-
rants the title to said land and will defend the same against the lawful claims of all persons whomsoever;
and that said land is free of all encumbrances

OFFICIAL RECORDS
BOOK 23 PAGE 1693

(CORPORATE SEAL)

In Witness Whereof the grantor has caused these presents to
be executed in its name, and its corporate seal to be hereunto affixed, by its
proper officers thereunto duly authorized, the day and year first above written.

ATTEST: _____
Secretary

Signed, sealed and delivered in the presence of:

FIRST WITNESS *James F. Lane Jr*
SECOND WITNESS *Kathryn K. Weidekind*

STATE OF FLORIDA
COUNTY OF

I HEREBY CERTIFY that on this day, before me, an officer duly authorized in the State and County aforesaid to take acknowledgments,
personally appeared LEE D. WEDEKIND, JR.,

well known to me to be the President and
in the foregoing deed, and that they severally acknowledged executing the same in the presence of two subscribing witnesses freely and voluntarily
under authority duly vested in them by said corporation and that the seal affixed thereto is the true corporate seal of said corporation.

WITNESS my hand and official seal in the County and State last aforesaid this 13th day of JUNE A. D. 1996

MICHAEL H. HARRELL
ABSTRACT & TITLE SERVICES, INC.
420 W BAY AVENUE
LAKE CITY, FL 32055
PURSUANT TO ISSUANCE OF TITLE INSURANCE



WM L ZWRA
My Commission Expires Feb. 28, 2000

By *Lee D. Weidekind Jr*
LEE D. WEDEKIND, JR. President
5345 ORTEGA BLVD., SUITE 7
JACKSONVILLE, FL 32210

Wm. L. Zwa

(Notary Seal)
My Commission Expires:

PERSONALLY KNOWN TO ME
PRODUCED IDENTIFICATION
FLORIDA DRIVER'S LICENSE

EXHIBIT "A"

PARCEL NO. 17

BEGIN at the Southeast corner of Section 15, Township 7 South, Range 16 East, Columbia County, Florida and run thence S 89°07'44" W along the South line of said Section 15, 642.77 feet, thence N 00°50'39" W, 666.27 feet, thence N 89°04'44" E, 654.85 feet, thence S 00°50'20" E, 666.83 feet to the South line of Section 14, Township 7 South, Range 16 East, thence S 89°04'40" W along said South line of Section 14, 12.01 feet to the POINT OF BEGINNING. The North 30 feet of said lands being subject to an easement for ingress and egress. Containing 10.02 acres, more or less.

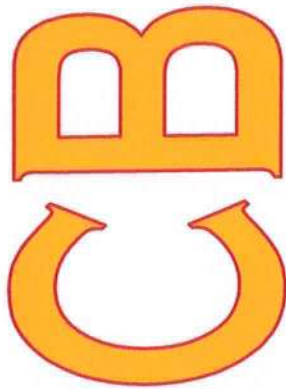
PARCEL NO. 24

Commence at the Southeast corner of Section 15, Township 7 South, Range 16 East, Columbia County, Florida and run thence S 89°07'44" W along the South line of said Section 15, 642.77 feet to the POINT OF BEGINNING, thence continue S 89°07'44" W along said South line, 656.37 feet to the East maintained right-of-way line of Fry Road, thence N 00°47'17" W along said East right-of-way line, 665.70 feet, thence N 89°04'44" E, 655.72 feet, thence S 00°50'39" E, 666.27 feet to the POINT OF BEGINNING. The North 30 feet of said lands being subject to an easement for ingress and egress. Containing 10.03 acres, more or less.

EASEMENT "A"

A strip of land 60 feet in width being 30 feet each side of a centerline described as follows: Commence at the Southeast corner of the SW 1/4, Section 14, Township 7 South, Range 16 East Columbia County, Florida and run thence N 00°50'04" W along the East line of said SW 1/4, 666.66 feet, thence S 89°04'44" W, 620.60 feet to the radius point of a cul-de-sac having a radius of 50 feet and to the POINT OF BEGINNING, thence continue S 89°04'44" W along said centerline, 3320.28 feet to the East maintained right-of-way line of Fry Road and to the POINT OF TERMINATION.

OFFICIAL RECORDS
BOOK 823 PAGE 1694



Circle B of Ocala, Inc.

VERTICAL VINYL

SKIRTING

WALL SECTION

THE MANUFACTURER'S INSTRUCTIONS & DESIGNERS DO NOT SUGGEST PLACING SCREWS AT THE TOP & BOTTOM OF EACH PANEL BUT, CIRCLE B OF OCALA, INC., SHALL COMPLY WITH THE DESIGNATED COUNTY CODES.

ALL PANELS ON THE JOB SITE, SHALL BE SECURED EITHER BY: SCREWS, CRIMPS, OR THE DESIGNATED LOCKING STRIP OF THE SKIRTING ITSELF, AT THE TOP AS WELL AS THE BOTTOM

ALL PANELS OF THIS SKIRTING TYPE ARE REMOVABLE , THUS NO SPECIAL ACCES PANEL SHALL BE INCORPORATED INTO THE SKIRTING JOB, WHEREAS EACH PANEL CAN BE REMOVED RATHER EASILY

THE MANUFACTURER OF THIS SKIRTING (STYLECREST), INTEGRATES VENTING INTO EACH INDIVIDUAL PANEL TO BE INSTALLED ((VENTING IS EQUIVALENT TO 6.3 SQUARE INCHES PER SQUARE FOOT OF PANEL))

TOP RAIL BACKER IS SECURED TO THE HOME USING 1" - 1/4" HEX HEAD SCREWS, EVERY 16" O.C.

TOP RAIL FRONTAL COVER IS SECURED TO THE TOP RAIL BACKER USING AN INTEGRATED SNAP LOCK

VINYL PANELS ARE SECURED BY THE BOTTOM TRACK & TOP RAIL FRONTAL COVER, AS WELL AS ANY SPECIAL COUNTY REQUIREMENTS.... IF PANELS EXCEED 36" OF VISIBLE EXPOSED HEIGHT, THE MAUFACTURER RECOMMENDS FRAMING BEHIND, BUT DOES NOT REQUIRE IT WILL BE DONE IF REQUIRED BY COUNTY CODE

BOTTOM TRACK IS SECURED TO THE GROUND USING 6" METAL SPIKES INSTALL APPROXIMATELY EVERY 24" O.C.

THIS IS AN ESTIMATED SKIRTING PACKAGE, WITH ESIMATED VENTING THE SKIRTING CONTRACTOR WILL TAKE ACCURATE MEASUREMENTS UPON DOING THE JOB, AND WILL CALCULATE THE PROPER AMOUNT OF VENTING REQUIRED AND MAKE ANY CORRECTIONS USING VINYL, SCREEN BACKED LOUVERED VENTING TO MEET STATE OF FLORIDA, AS WELL AS MANUFACTURER'S, CODES

AVERAGE HEIGHT OF HOME FROME GROUND TO FINISH FLOOR ELEVATION IS 36"

VENTING CALCULATIONS

MOBILE HOME WIDTH (Lin. Ft.)	32
MOBILE HOME LENGTH (Lin. Ft.)	66
SET-UP HEIGHT (Lin. Ft.)	3.00
SQUARE FT. OF SKIRTING	588.00
VENTING AREA REQUIRED (Sq. Ft.)	3.92
NO. OF 16" PANELS	147.00
VENTING AREA PROVIDED (Sq. Ft.)	25.73

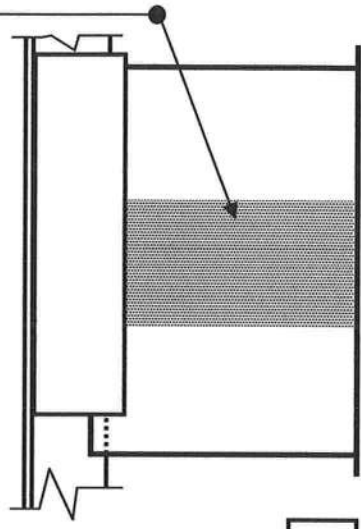
SPECIAL NOTE

CONTRACTOR IS NOT CONTRACTUALLY OBLIGATED TO DO THE SKIRTING CUSTOMER IS ASSUMING THE LIABILITY OF THIS PART OF THE PERMIT.

CUSTOMER NAME

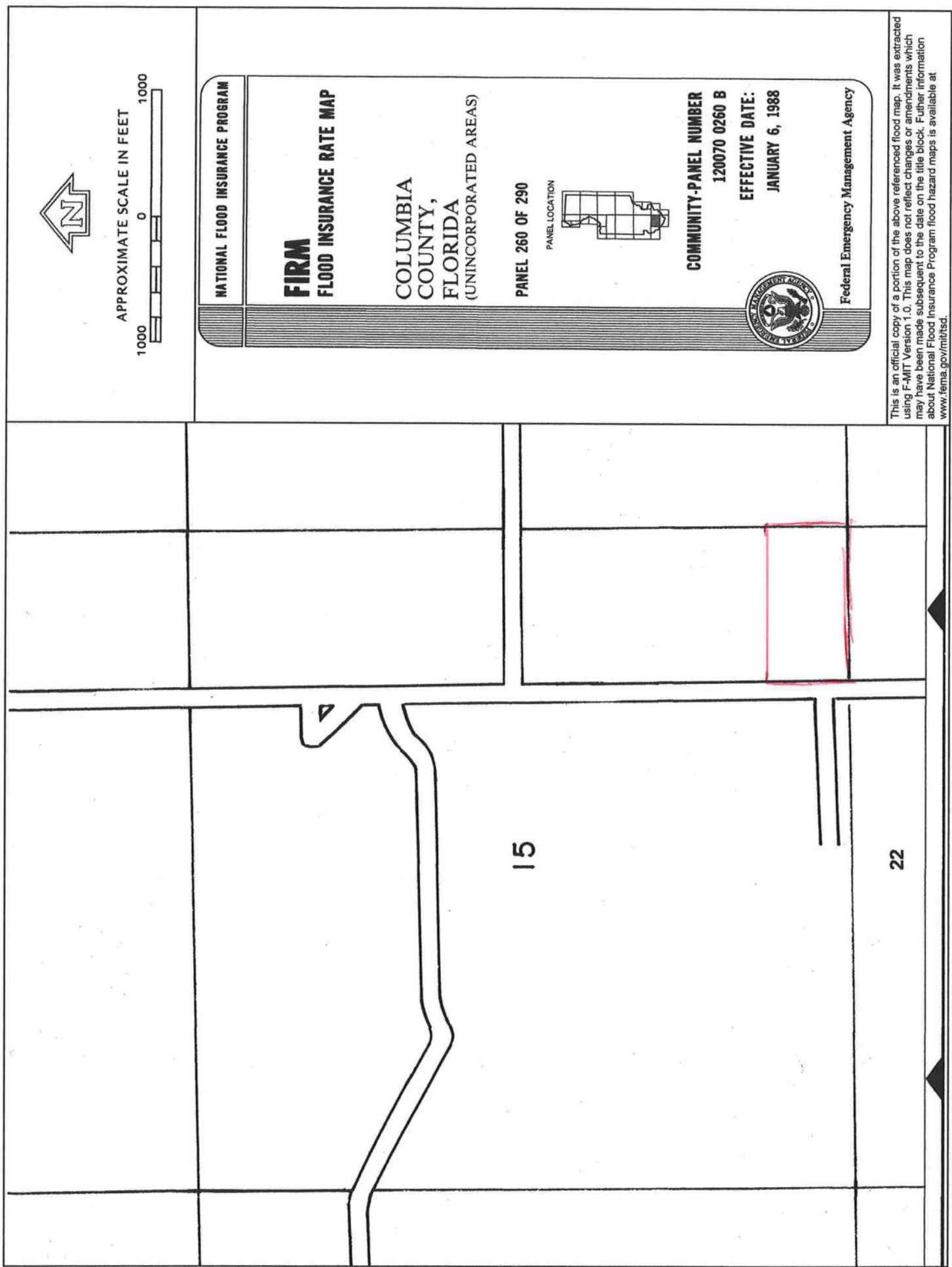
BLANCHARD, BRENDA T.

PERMIT NUMBER



ELEVATION

0407-35



This is an official copy of a portion of the above referenced flood map. It was extracted using F-MIT Version 1.0. This map does not reflect changes or amendments which may have been made subsequent to the date on the title block. Further information about National Flood Insurance Program flood hazard maps is available at www.fema.gov/mit/tscd.



STATE OF FLORIDA
DEPARTMENT OF HEALTH

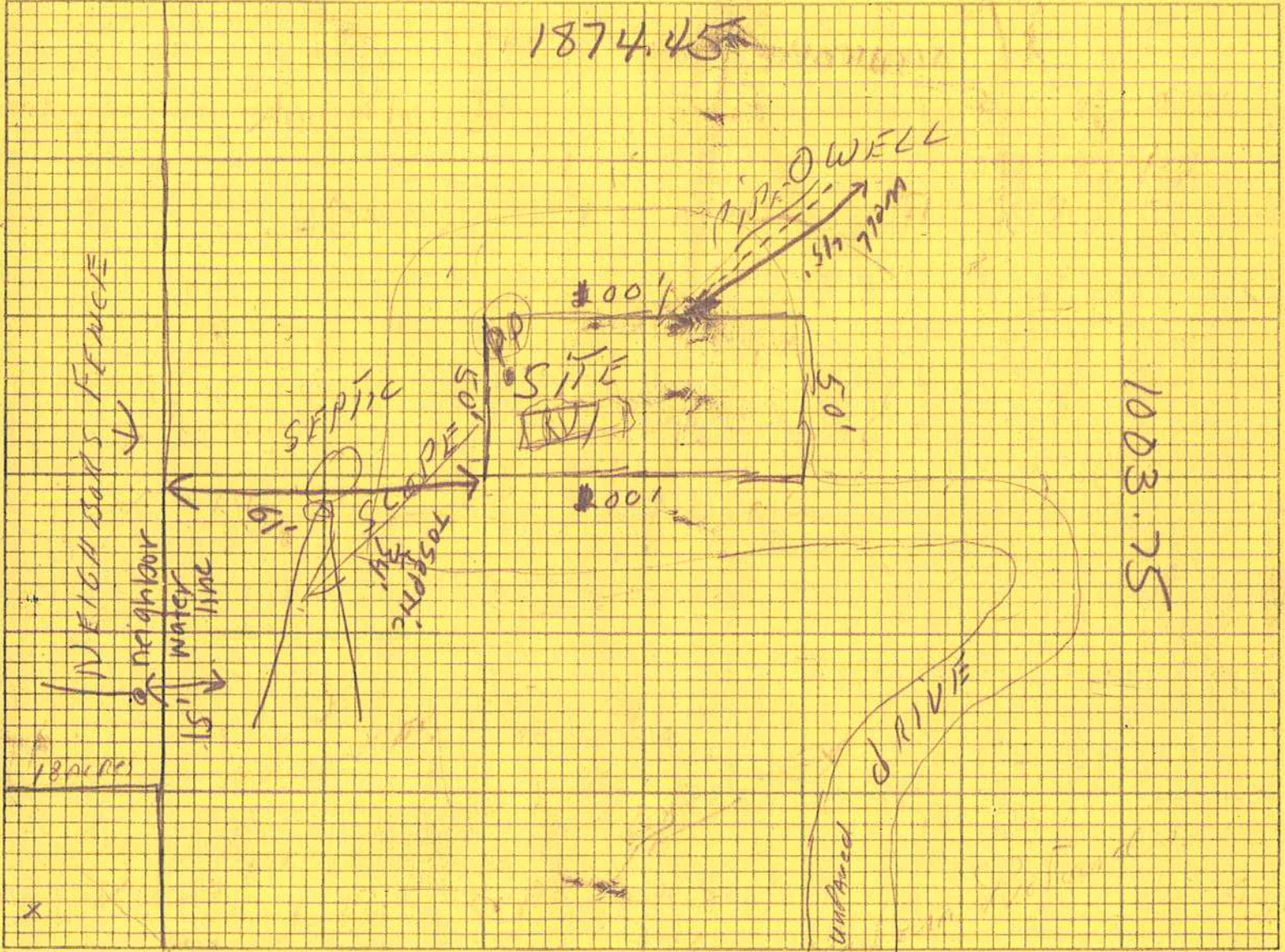
APPLICATION FOR ONSITE SEWAGE DISPOSAL SYSTEM CONSTRUCTION PERMIT

Permit Application Number

04-0777N

PART II - SITE PLAN

Scale: Each block represents 5 feet and 1 inch = 50 feet.



Notes: 1 OF 18 ACRES 3 Bedroom Two BATH
CABIN OR House 2250 SQUARE / FOOT
SET UP FOR R.V. AT THIS TIME UNTILL Ready
Ready TO Build House

Site Plan submitted by: [Signature]

Signature

OWNER
Title

Plan Approved ☒

Not Approved ☐

Date 7.19.04

By Sally A. Gaddy - ESI - COLUMBIA

County Health Department

ALL CHANGES MUST BE APPROVED BY THE COUNTY HEALTH DEPARTMENT

