


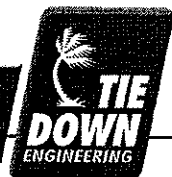
# Anchor Chart

Soil Class & Test Values (in. lbs.)	Recommended Anchor / Stabilizers	TDE Part Number
<div style="border: 1px solid black; padding: 5px; display: inline-block;">1</div> N/A	Cross Drive Rock Anchor	59110 & 59111
APPROVED BY  Oct 21, 2008 <small>FEDERAL MANUFACTURED HOME CONSTRUCTION AND SAFETY STANDARDS</small>		
<div style="border: 1px solid black; padding: 5px; display: inline-block;">2</div> Blue 550 lbs +	30" X 5/8" rod / 2 - 4" helix 30" X 3/4" rod / 2 - 4" helix 60" X 3/4" rod / 2 - 4" helix All anchors above should use one of the following when subjected to lateral loads: 12" Stabilizer Plate Quik-Set Stabilization Plate ----- X-Plate Anchor with 2-23/32" Rods	59090 59095 & 59079 59097  59292 59291  59118
<div style="border: 1px solid black; padding: 5px; display: inline-block;">3</div> Yellow 350 to 550 lbs.	48" X 5/8" rod / 1 - 6" helix 48" X 3/4" rod / 1 - 6" helix 36" X 3/4" rod / 1 - 6" helix & 1 - 4" helix All anchors above should use one of the following when subjected to lateral loads: 12" Stabilizer Plate Quik-Set Stabilization Plate ----- Deepset Anchor 30" X 5/8" rod / 2 - 4" helix	59080 & 59081 59085 & 59094 59250  59292 59291  59091
<div style="border: 1px solid black; padding: 5px; display: inline-block;">4a</div> Green 275 to 350 lbs.	48" X 5/8" rod / 1 - 6" helix 48" X 3/4" rod / 1 - 6" helix 36" X 3/4" rod / 1 - 6" helix & 1 - 4" helix 3/4" rod, 42" long, 2 - 4" helix, Class 4A 3/4" rod, 48" long, 2-4" helix, Class 4A All anchors above should use one of the following when subjected to lateral loads: 12" Stabilizer Plate 17 -1/2" Stabilizer Plate (Florida Only) Quik-Set Stabilization Plate ABS Stabilization Plate (Florida Only) ----- Deepset Anchor 36" X 3/4" rod / 4" & 6" helix	59080 & 59081 59085 & 59094 59250 59128 59086  59292 59286 59291 59293  59092
<div style="border: 1px solid black; padding: 5px; display: inline-block;">4b</div> Red 175 to 275 lbs.	60" X 3/4" rod / 1 - 7" helix All anchors above should use one of the following when subjected to lateral loads: 17 -1/2" Stabilizer Plate ABS Stabilization Plate	59099  59286 59293

**NOTE:** Each State, County or Municipality may require a specific anchor from the groups shown for each soil classification. Check local and State regulations first.

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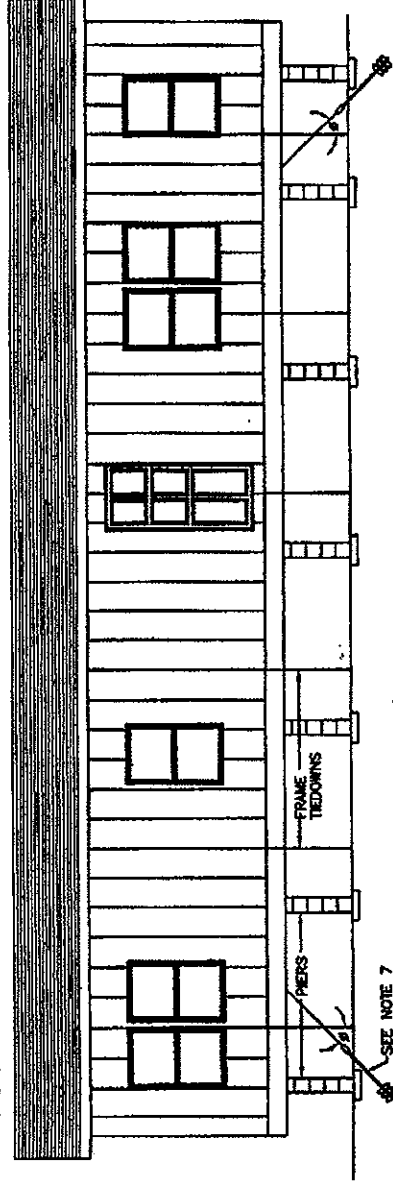
**TIE DOWN ENGINEERING • 5901 Wheaton Drive • Atlanta GA, 30336**  
**www.tiedown.com • (404) 344-0000 • FAX (404) 349-0401**



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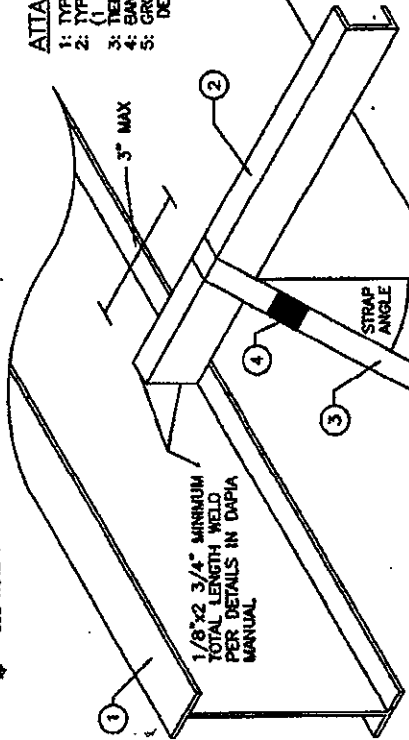
M.H.E. HOMES  
WIND ZONE 1 (15 PSF LATERAL)  
RECOMMENDED TIEDOWN SYSTEM  
LONGITUDINAL TIEDOWN REQUIREMENTS

TYPICAL SIDE ELEVATION SHOWING TIEDOWN SPACINGS

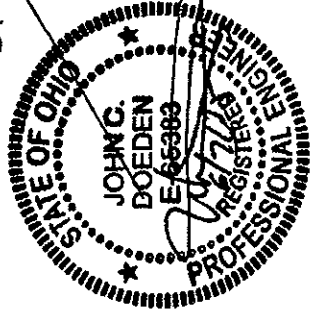


SEE NOTE 7

**ATTACHMENT DETAIL**  
1: TYPICAL LONGITUDINAL I-BEAM  
2: TYPICAL FRAME CROSS-MEMBER  
(1 1/2" x 2" x 1 1/2" x 1/3 GA MINIMUM)  
3: TIEDOWN STRAP  
4: BANDING SEAL  
5: GROUND ANCHOR - INSTALLED TO FULL  
DEPTH OF ANCHOR HEAD



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OCT 21, 2008  
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CONSTRUCTION AND SAFETY STANDARDS



- NOTES:**
- SEE OTHER DRAWINGS FOR FRAME TIEDOWN REQUIREMENTS. THIS DETAIL IS FOR LONGITUDINAL TIEDOWN DESIGN ONLY.
  - WHEN ANCHORS ARE NOT INSTALLED AT THE ANGLE SPECIFIED IN THE TABLE A STABILIZER PLATE MUST BE INSTALLED IN ACCORDANCE WITH ANCHOR MANUFACTURER'S INSTRUCTIONS.
  - LONGITUDINAL TIEDOWNS AND ANCHORS ARE NOT SUPPLIED BY M.H.E. HOMES.
  - GROUND ANCHORS AND FRAME TIES SHALL BE CAPABLE OF RESISTING AN ULTIMATE TENSION LOAD OF 4725# & ARE TO BE INSTALLED PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS, BUT ARE NOT TO EXTEND BEYOND THE SIDEWALL OF THE HOME.
  - STEEL ANCHORING EQUIPMENT EXPOSED TO THE WEATHER SHALL BE PROTECTED WITH AT LEAST 0.30 OZ. OF ZINC PER SQUARE FOOT OF STEEL.
  - DESIGN BASED ON A MAXIMUM SIDEWALL HEIGHT OF 8'-0" AT CROSSMEMBERS IN ACCORDANCE WITH THE TABLE AND NOTES 3, 4, 5, 13 AND 14.
  - ANCHORS SHALL BE CERTIFIED FOR THESE CONDITIONS BY A PROFESSIONAL ENGINEER ARCHITECT OR A NATIONALLY RECOGNIZED TESTING LABORATORY AS TO THEIR RESISTANCE BASED ON THE INSTALLED ANGLE OF DIAGONAL TIE AND/OR VERTICAL TIE LOADING AND ANGLE OF ANCHOR INSTALLATION, AND TYPE OF SOIL IN WHICH THE ANCHOR IS TO BE INSTALLED.
  - GROUND ANCHORS SHALL BE EMBEDDED BELOW THE FROST LINE AND BE AT LEAST 12" ABOVE THE WATER TABLE AND 10" GROUND ANCHORS SHALL BE INSTALLED TO THEIR FULL DEPTH, AND STABILIZER PLATES SHOULD BE INSTALLED TO PROVIDE ADDED RESISTANCE TO OVERTURNING OR SLIDING FORCES.
  - ANCHORING EQUIPMENT SHALL BE CERTIFIED BY A REGISTERED PROFESSIONAL ENGINEER OR ARCHITECT TO RESIST THESE SPECIFIED FORCES IN ACCORDANCE WITH TESTING PROCEDURES IN ASTM STANDARD SPECIFICATION D3583-91, STANDARD SPECIFICATION FOR STRAPPING, FLAT STEEL AND SEALS.
  - STRAPPING TO BE TYPE 1, FINISH B, GRADE 1 STEEL STRAPPING, 1-1/4" WIDE AND .035 INCHES IN THICKNESS, CERTIFIED BY A REGISTERED PROFESSIONAL ENGINEER OR ARCHITECT AS CONFORMING WITH ASTM STANDARD SPECIFICATION D3583-91, STANDARD SPECIFICATION FOR STRAPPING, FLAT STEEL AND SEALS.
  - SELECT A CROSSMEMBER WHERE PIERS DO NOT INTERFERE WITH THE REQUIRED ANGLE OF THE STRAP. INSTALL THE STRAP JUST INSIDE THE MAIN BEAMS LOOPED AROUND THE CROSSMEMBER AND TIE TO AN ANCHOR LOCATED DIRECTLY UNDER THE MAIN BEAM AT THE ANGLE SPECIFIED IN THE CHART BELOW (SEE DETAIL).
  - WHEN THIS ANCHOR ANGLE IS NOT ATTAINABLE INSTALL ANCHOR PER MANUFACTURER'S INSTRUCTIONS WITH AN APPROVED STABILIZING PLATE.
  - LONGITUDINAL TIES ARE INSTALLED JUST INSIDE I-BEAM AT CROSSMEMBERS AT EACH END AND CANNOT BE DOUBLED.
  - DESIGN BASED ON 6/12 ROOF SLOPE FOR DOUBLE WIDES & 3/12 ROOF SLOPE FOR SINGLE WIDES.

ROOF SLOPE PER NOTE #16 (ALTERNATE WITH BLOCK PIERS*)			ROOF SLOPE PER NOTE #16 (EXCEPT AS LIMITED BY OTHER DETAILS)		
FLOOR WIDTH (MAX)	MINIMUM UNIT LENGTH		NUMBER OF LONGITUDINAL TIES (TOTAL EACH END)	FLOOR WIDTH (MAX)	MINIMUM STRAP ANGLE (DEGREES)
	SINGLE STACK	DOUBLE STACK			
25'-8" DOUBLE WIDE	55'-0"	42'-0"	0	180" DOUBLE WIDE*	35
30'-8" DOUBLE WIDE	32'-0"	32'-0"	2	180" SINGLE WIDE*	25
15'-4" SINGLE WIDE	77'-0"	66'-0"	0	184" SINGLE WIDE*	28
13'-4" SINGLE WIDE	41'-0"	36'-0"	2	184" DOUBLE WIDE*	43
	69'-0"	47'-0"	0		
	45'-0"	35'-0"	0		

\*FOR USE IN ABOVE TABLE:  
SINGLE STACK BLOCK PIERS = 28" MAXIMUM HEIGHT  
DOUBLE STACK BLOCK PIERS = 63" MAXIMUM HEIGHT  
MINIMUM ANGLE OF STRAP = 40 DEGREES.

\*MAY REDUCE TO 0 OR 1 LONGITUDINAL TIE PER HALF WITH PIER RESTRICTIONS PER CHART TO LEFT

## CHAPTER 5 – SECTIONAL SET UP

### 5.1 BLOCKING PROCEDURE

- A. Start out by positioning the B half, or wet half, in its desired position. This will be the stationary unit, and the first half to be blocked. Follow the procedures under Blocking Instruction to block and level the B half. See Figure 5 for a typical blocking layout. Table 3 shows the pier capacity for the centerline blocking.

### 5.2 POSITIONING THE SECOND HALF (A HALF)

- A. Check the mating surface of both halves for obstructions and remove any that are found. A gasket is supplied with the home to seal the marriage line. Install it at this time.
- B. Position the A half as near as possible to the B half, being sure the floor ends line up.
- C. Move the A half tight to the B half.

### 5.3 FASTENING THE HALVES TOGETHER

- A. With the floors together and the front and rear ends lined up, repeat the blocking and leveling procedure on the A half. Make sure that the interior walls and doorways along the marriage wall also line up. For your convenience, alignment stickers are placed at doorways and support posts. Both halves should be flush and level with each other.
- B. When the floors are flush and level, the halves shall be secured to each other by using the following procedure.
- C. With the floors together and the front and rear ends lined up, lag or bolt floors together at the hitch end, using a 3/8" x 3" lag screw or equal.
- D. Once the floors are secured at the hitch end, the far ends of the ridge beam must be secured to one another. In the event they don't align, follow the steps below.
- E. Locate jacks properly and raise opposite corners evenly until roof line matches and both sections meet. NOTE: It is sometimes necessary to jack the halves slightly beyond even to allow for settling and to assure an even fit when jack pressure is released.

- F. Fasten the roof ends together using 3/8" x 6" lags or equal at each end. Toe-screw these lags at a 45-degree angle maximum. A 1 1/2" x 12" x 30 ga. minimum strap may be used to fasten the roof together instead of lags, see Figure 7. After the roof ends are fastened together, release the jack pressure slowly and evenly until the interior ceiling line is flush. This may occur at different times at different points along the ceiling seam. Once the ceiling is flush, install the lag bolts or straps in the remainder of the roof every 24", see Figure 7.
- G. Finish securing the floors together.
- H. Secure the endwalls together by toe-screwing #8 x 3" screws 16" o.c.
- I. Gaps between the two units (1 1/2" maximum) shall be closed up with lumber and/or plywood shims. All fasteners in the shimmed portion shall be increased in length to ensure they fully penetrate the structural members.

#### 5.4 INTERIOR CLOSE UP

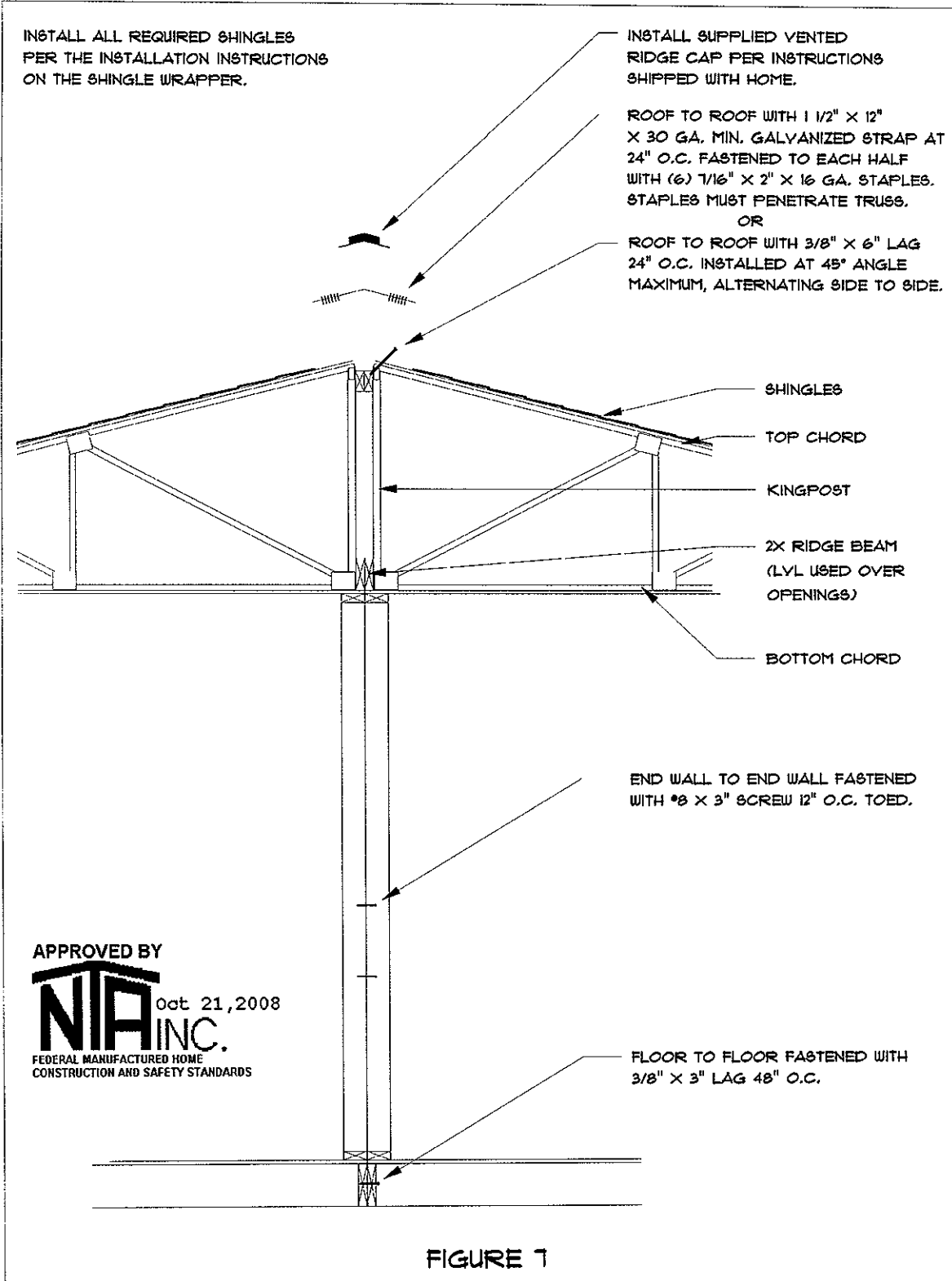
All the material required to trim out the interior of the home is shipped with each home. The trim can be identified by matching it with the trim installed by the manufacturer. All gaps in exterior walls shall be filled with caulk or insulation before applying trim. Some wall panels may have been shipped loose to achieve a more desirable appearance when installed on site.

#### 5.5 EXTERIOR CLOSE UP

Remove the shipping plastic from all walls completely and also the hitch end soffit overhang. Homes with optional drywall may have ventilation holes on each end of the home, unseal before covering with siding. The siding and all accessories have been shipped loose. Install siding according to the instructions shipped with the home.

Shingles may also be shipped with your home. Install the shingles per the installation instructions on the shingle wrapper.





## CHAPTER 6 – UTILITY CONNECTIONS



### 6.1 DRAINAGE SYSTEM

Properly joined, ABS or PVC pipe and fittings produce pressure tight joints, either in shop or in the field. However, skill and knowledge are required in order to obtain good quality joints. The following is an installation procedure that when followed closely will help insure a pressure tight joint when using drainage fittings. Your home may have ABS or PVC drain lines installed.

Drain piping shall be supported just as any other piping system. Ordinary hanger straps may be used for suspending below floor systems. The lightweight of the drainage pipe may lead one to believe that wider spacing could be permitted. Four foot spacing is required with proper support at the base of each stack. Since the drainage pipe is non-metallic, it is not as "stiff" as it's metal counterpart, therefore, the installer must exercise care to assure proper alignment of required grades. Hanger straps shall not be so tight as to compress, distort, cut, or abrade the piping.

Installation instructions are as follows:

- A. Cut pipe square. Use saw and miter box or plastic tube cutter. Remove all burrs from both the inside and outside of the pipe with a knife, file, or reamer. Remove dirt, grease, and moisture. A thorough wipe with a clean rag is usually sufficient. Check dry fit. For proper fit, pipe should go easily into fitting  $\frac{1}{4}$  to  $\frac{3}{4}$  of the way in.
- B. Using a suitable applicator, apply a moderate even coat of cement to the fitting socket. (Care should be taken not to allow solvent cement to puddle in fitting socket.) Apply a liberal coat of cement to the pipe equal to the depth of the fitting socket. Cement must be applied in sufficient quantities to fill the joint.
- C. Without delay, assemble while the cement is still wet. Use sufficient force to ensure that the pipe bottoms in the socket. If possible, twist the pipe or fitting  $\frac{1}{4}$  turn as assembled. Hold together about 30 seconds to make sure the joint does not separate. With a rag, wipe off excess cement. Avoid disturbing the joint.
- D. Make sure all connections maintain a  $\frac{1}{4}$ " per foot slope. Make sure all fittings are properly connected. The drain system is designed for only one outlet. After assembling the drain system, test for leaks as follows.
- E. The manufactured home shall be in a level position, all fixtures shall be connected and the entire system shall be filled with water to the rim of the toilet bowl. Tub and shower drains shall be plugged after all trapped air has been released. After all trapped air has been released; the test shall be sustained for not less than 15 minutes without evidence of leaks. Then the system shall be unplugged and emptied. The waste piping above the level of the toilet bowl shall then be tested and show no indication of leakage when the high fixtures are filled with water and

emptied simultaneously to obtain the maximum possible flow in to the drain piping.

## 6.2 WATER SUPPLY

The water system is designed for an inlet pressure of 80 psi. When installed in areas that exceed 80 psi, a pressure reducing valve must be used. The inlet connection is a ¾" MPT. A master shut off valve not supplied with the home shall be installed. The valve must be a full flow gate or ball valve. Sectional homes with plumbing in both halves have waterline crossovers that must be connected. Locate the crossovers and connect using the fittings supplied. After connecting, re-insulate and repair the bottom board. After making all connections, turn on all faucets and allow the water to run to remove any foreign particles that might cause an unpleasant taste. The exposed water lines should be protected from freezing in cold climates. Use a heat tape that is listed for use with manufactured homes and installed to the instructions from the manufacturer. To test the water system, make sure the water heater is full of water. Pressurize the system with 100 psi, then isolate the home from the pressure. The home must hold 100psi for 15 minutes without loss of pressure. If pressure drops, find source of leak, repair and repeat test.

## 6.3 ELECTRICAL SUPPLY

This home is designed to be connected to a service nominally rated 120/240 volts, 3-wire AC, with a grounded neutral. All electrical work shall be performed by qualified personnel only. This home has an under-chassis feeder. A raceway is provided from the distribution panel to the underside of the home. A junction box must be installed on the exposed end of the raceway. The minimum junction box size and conduction sizes are shown in Table 7. The home must be grounded according to the National Electric Code. Test the home according to the following instructions. Complete the ground continuity tests before connecting the home to electrical power.

### A. GROUNDING CONTINUITY

Using a continuity tester, check non-current carrying metal parts to assure continuity to ground. The parts to be checked include:

1. Appliance enclosures
2. Fixture enclosures
3. Metal siding and roofs
4. Gas lines
5. Metal ducts
6. Home's frame



### B. POLARITY OF FIXTURES

With the receptacles and light fixtures energized, check the polarity and grounding of each 120-volt receptacle and light socket. Use a polarity tester capable of determining a correct wiring configuration. A conversion device may

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be used to check different bulb sizes and outlet configurations. Investigate any reversed polarity, open grounds, or shorts and correct them.

### C. OPERATIONAL TEST

Check all light fixtures by placing a light bulb in each socket and turn the switch on and off. Make sure all 120 volt receptacles work. Using a pigtail light, check all 240 volt receptacles to determine if both legs of the circuit are powered. Investigate any failure of the wiring and correct.

Sectional homes have a bonding wire at the rear that must be connected to each half of the home before starting the above tests. There will be electrical crossovers. Locate the crossovers and connect accordingly to Figure 9. The connectors are marked for proper connection. Re-insulate and repair the bottom board.

## 6.4 GAS SUPPLY

For all gas burning appliances, the vents must be inspected to ensure the penetration through the roof is sealed and the connections or proper. The gas piping supply system has been designed for a maximum pressure of 14 inches water column (1/2 psi). For safe and effective operation, the gas supply pressure shall be between 14 and 7 inches water column. Sectionals may have a gas line crossover. It is equipped with a flexible metal connector and a quick disconnect device. Remove the plastic covers from the quick disconnect device and snap the two halves together to complete the connection. Test the system as follows:

- A. Using an ounce gauge, check the system for leaks. Close all appliance controls and all appliance pilot light valves (see appliance instructions shipped with the home).
- B. Open the gas shut off valve on the supply line to each appliance.
- C. Attach the ounce gauge on the main gas inlet to the home.
- D. Carefully pressurize the system to between 5 and 8 ounces of pressure. Pressure in excess of 8 ounces may damage the appliance.
- E. Apply an ammonia free soapy water solution to the joints at both ends of the appliance connector. If bubbles are found, tighten connector until bubbles disappear. Rinse the soapy water off all joints.

## 6.5 BOTTOM BOARD REPAIR

The bottom board must be inspected and repaired after the home is installed. Use CP-1 pressure sensitive type or equivalent. Make sure the insulation is in place before repairing.





**WARNING: IMPROPER CONNECTION, TESTING OR UNAUTHORIZED MODIFICATION OF GAS OR ELECTRICAL SYSTEMS MAY RESULT IN SERIOUS INJURY OR DEATH. ONLY QUALIFIED PERSONS SHOULD PERFORM WORK ON THESE SYSTEMS.**



### Electrical Supply Requirements

Main Breaker (Service) Size (Amps)	Conductor Size (AWG)*		Grounding Conductor Size (AWG)		Factory Installed Feeder Raceway Trade Size (In.)*	Minimum Junction Box Size
	CU	AL	CU	AL		
100	#4	#2	#8	#6	1 1/2"	12" x 12" x 4"
200	#2/0	#4/0	#6	#4	2"	14" x 14" x 4"

\*Conductor size and feeder raceway sized for 75 C rated conductors, types RH, RHH and RHW, without outer covering, THW or XHHW, two line and one neutral.

TABLE 7

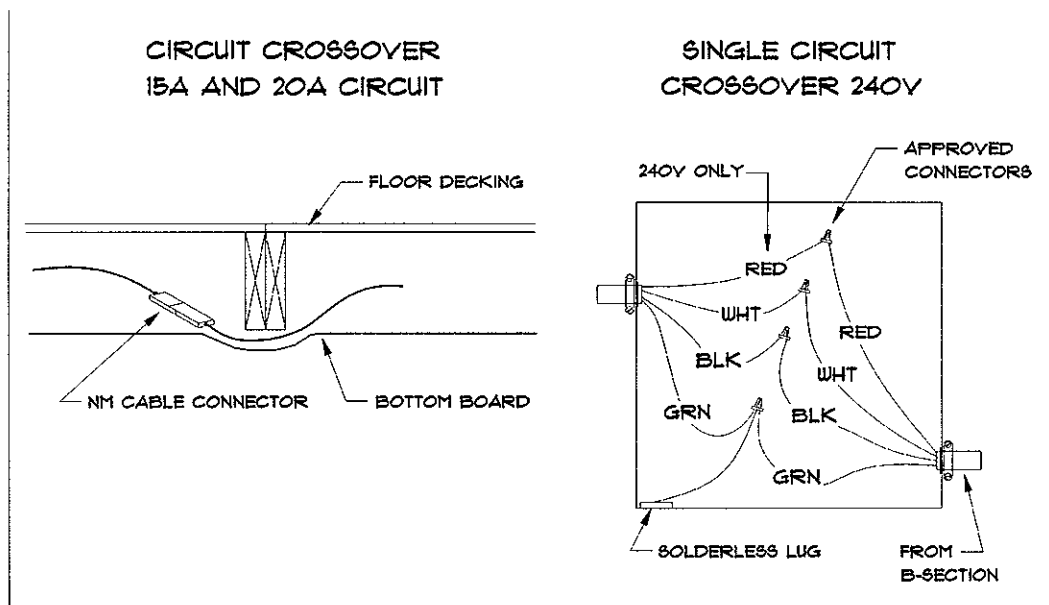


FIGURE 9

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## CHAPTER 7 – MISCELLANEOUS CONNECTIONS

### 7.1 DRYER VENTING

Your home is supplied with a sidewall dryer vent or a roughed in floor vent. Homes supplied with a sidewall dryer vent require that the dryer is connected to the sidewall vent according to the dryer manufacturer's installation instructions. If your home is equipped with a roughed in floor vent the following must be performed to install a dryer: APPROVED BY

- A. Remove the floor vent cover.
- B. Push the metal flexible duct (not provided) through the floor.
- C. Connect the duct to the dryer according to the dryer installation instructions.
- D. The dryer vent must not terminate under the home. The duct must be connected to a termination fitting attached to the skirting or crawl space wall. Do not let snow block this vent. See Page 24.



### 7.2 FURNACE CROSSOVER DUCT

This hookup procedure is basically the same for all sectional homes. The method of installation is as follows:

- A. Included in the ship loose material is a 12" x 25' flexible crossover duct. Under the home locate the (2) 12" duct connectors. There is one under the furnace and one under the heat duct on the opposite unit. Remove the shipping plastic before installing the duct.
- B. Enclosed with the flexible crossover duct are instructions on connecting, splicing and taping the duct. The crossover duct must be supported every 4'-0". The installation instructions must be followed.

### 7.3 FIREPLACES

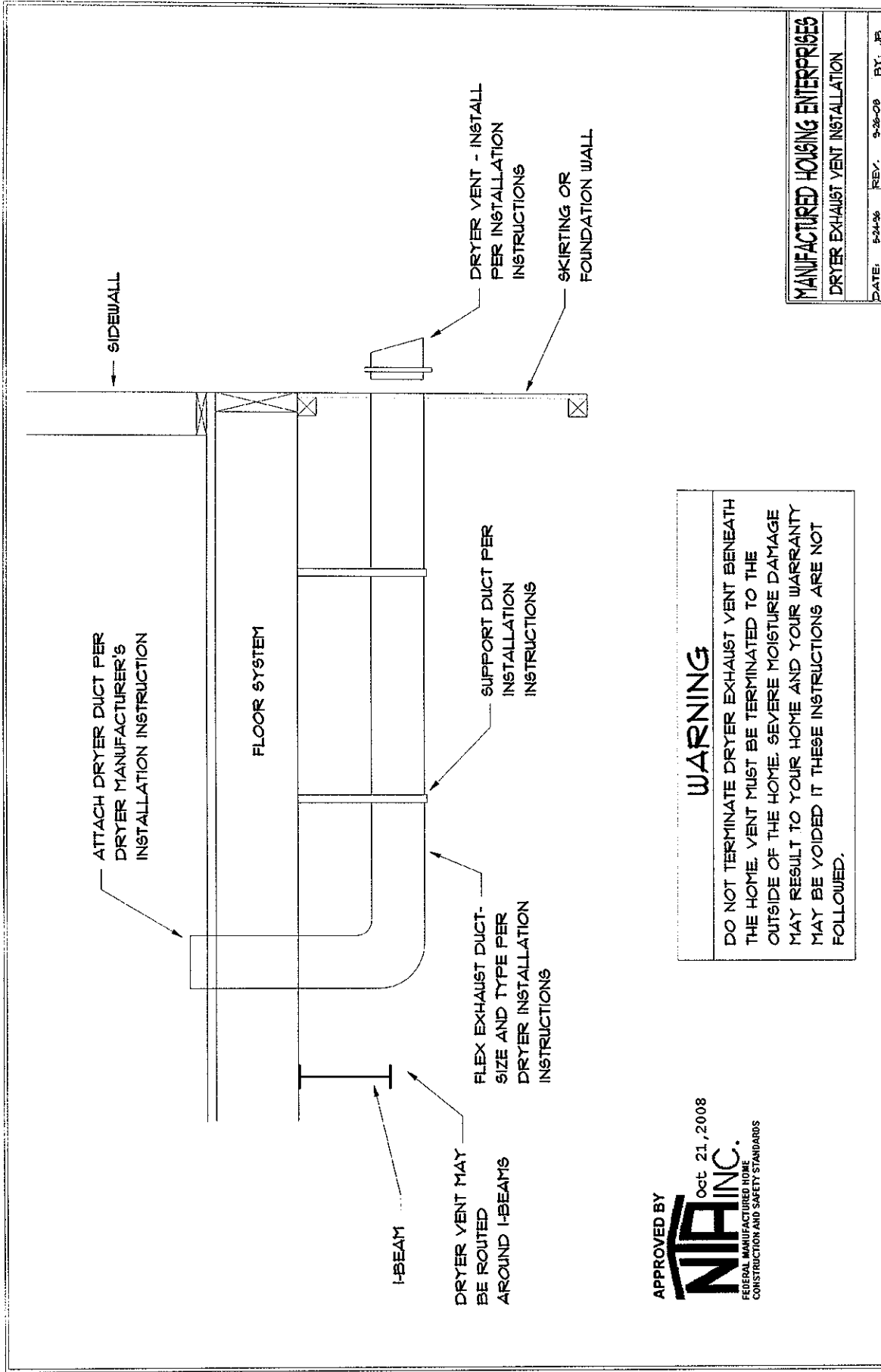
Fireplaces require on-site installation of supplied fireplace chimney pipe and round top termination. These must be installed per the fireplace installation instructions. The fireplace air inlet is installed below the fireplace by the manufacturer. Make sure this vent isn't blocked and that the space under the home is vented properly.

### 7.4 AIR CONDITIONING

The BTU rating of the air conditioner can not exceed the BTU rating of the duct system. The BTU rating of the duct system is located on the compliance certificate, which is located under the kitchen sink. MHE does not supply air conditioning units.

### 7.5 SKIRTING ATTACHMENT

Skirting must be installed in a manner that allows the vinyl skirting to expand and contract.



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**WARNING**

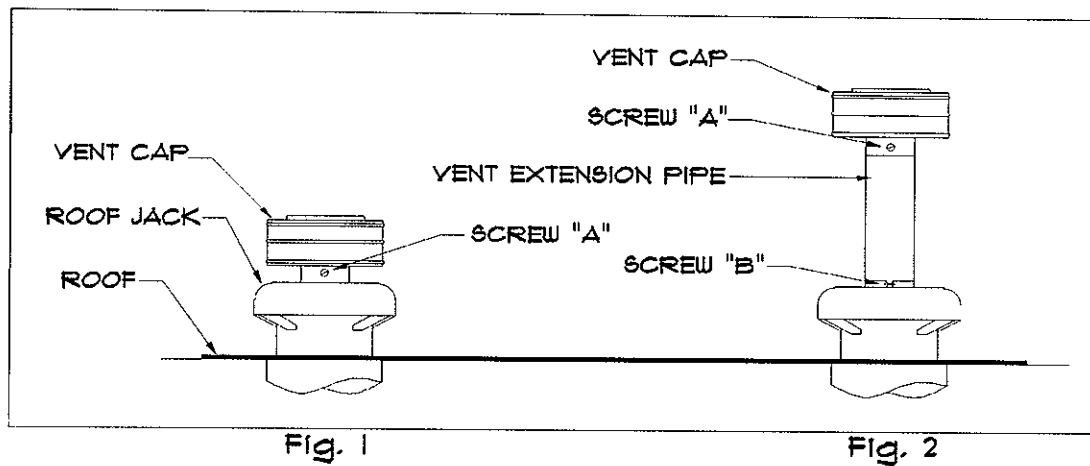
DO NOT TERMINATE DRYER EXHAUST VENT BENEATH THE HOME. VENT MUST BE TERMINATED TO THE OUTSIDE OF THE HOME. SEVERE MOISTURE DAMAGE MAY RESULT TO YOUR HOME AND YOUR WARRANTY MAY BE VOIDED IF THESE INSTRUCTIONS ARE NOT FOLLOWED.

<b>MANUFACTURED HOUSING ENTERPRISES</b>	
DRYER EXHAUST VENT INSTALLATION	
DATE: 5-14-06	REV: 9-26-08 BY: JB

## VENT EXTENSION PIPE

The vent extension pipe should be installed upon set-up of the home on the customer's site. The extension cannot be installed in the factory because of transportation issues. The vent extension is available from the factory. To remove the vent cap for installation of the extension, remove screw "A" (Fig. 1) and lift the vent cap off. Install extension pipe over the roof flange and tighten screw "B" (See Fig. 2). Install cap in place and install screw "A".

All fireplace extensions are shipped loose for installation on site. The fireplace extensions must be installed in accordance with the terms of their listings and the manufacturer's instructions, which are shipped loose with the home.



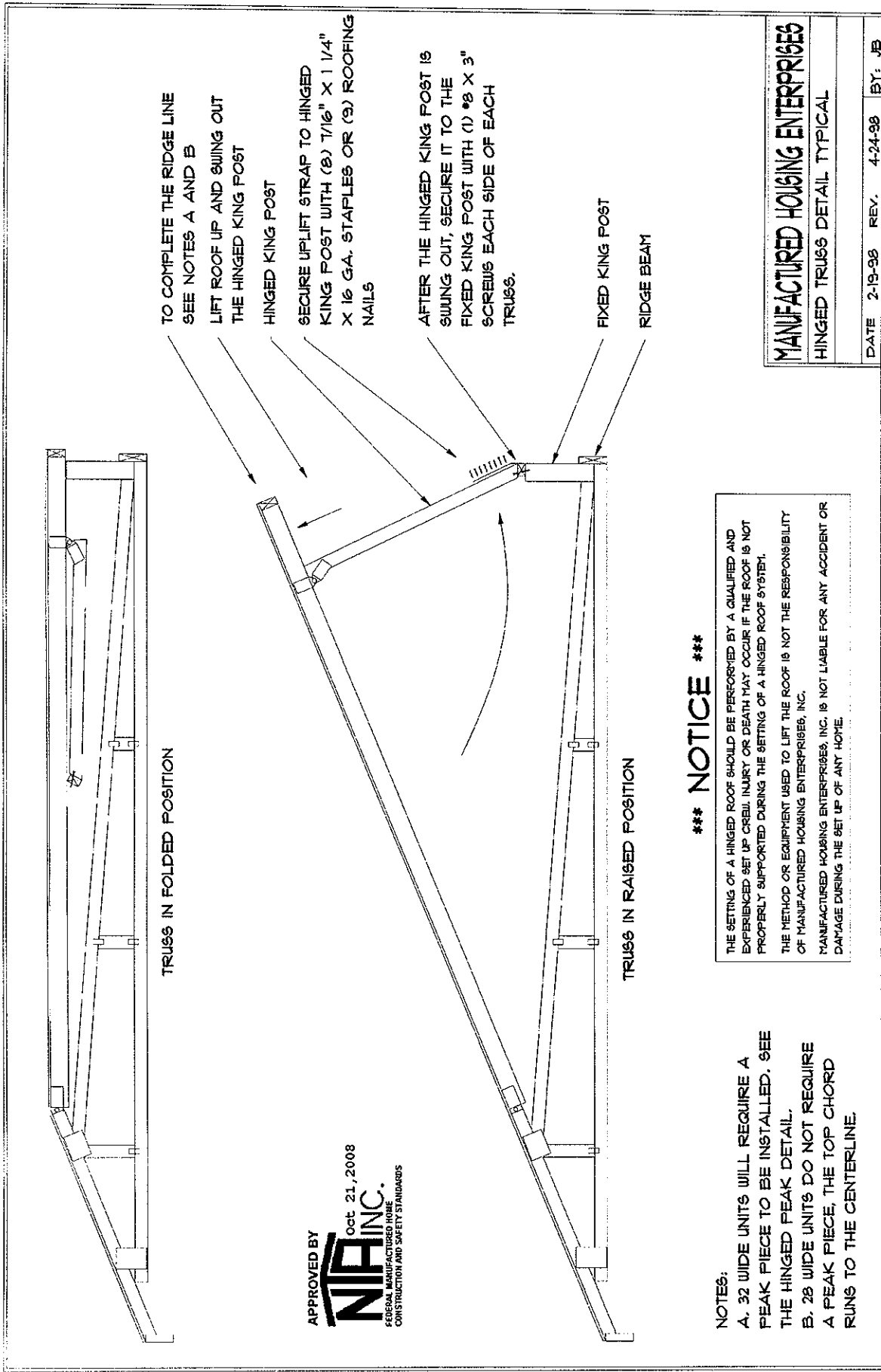
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Oct 21, 2008

FEDERAL MANUFACTURED HOME  
CONSTRUCTION AND SAFETY STANDARDS

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 oct 21, 2008  
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- NOTES:
- A. 32 WIDE UNITS WILL REQUIRE A PEAK PIECE TO BE INSTALLED. SEE THE HINGED PEAK DETAIL.
  - B. 28 WIDE UNITS DO NOT REQUIRE A PEAK PIECE, THE TOP CHORD RUNS TO THE CENTERLINE.

**\*\*\* NOTICE \*\*\***

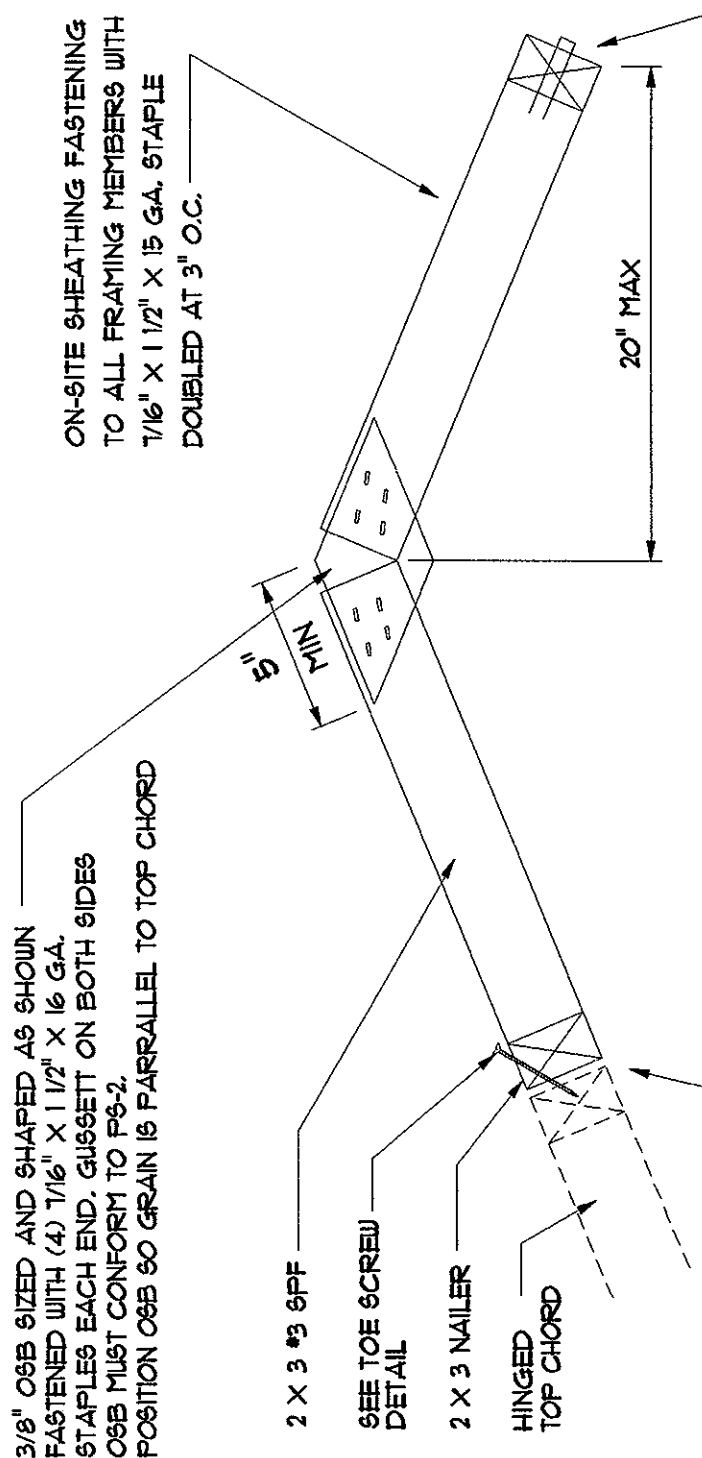
THE SETTING OF A HINGED ROOF SHOULD BE PERFORMED BY A QUALIFIED AND EXPERIENCED SET UP CREW. INJURY OR DEATH MAY OCCUR IF THE ROOF IS NOT PROPERLY SUPPORTED DURING THE SETTING OF A HINGED ROOF SYSTEM.  
 THE METHOD OR EQUIPMENT USED TO LIFT THE ROOF IS NOT THE RESPONSIBILITY OF MANUFACTURED HOUSING ENTERPRISES, INC. IS NOT LIABLE FOR ANY ACCIDENT OR DAMAGE DURING THE SET UP OF ANY HOME.

**MANUFACTURED HOUSING ENTERPRISES**  
**HINGED TRUSS DETAIL TYPICAL**

DATE 2-19-98 REV. 4-24-98 BY: JB

**NOTES:**  
 TO BE USED ON 32'  
 5/12 HINGED ROOFS  
 MAXIMUM LOAD: 40 PSF  
 AT 24" O.C. MAXIMUM  
 WIND ZONE I ONLY

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**NTA INC.**  
 Revised  
 Nov 12, 2008  
 FEDERAL MANUFACTURED HOME  
 CONSTRUCTION AND SAFETY STANDARDS

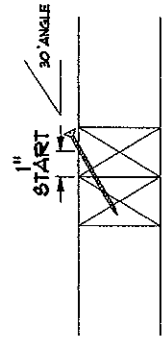


FASTEN 2 X 3 NAILER WITH  
 (4) 7-16" X 2 1/2" X 15 GA. STAPLE

20" MAX

FASTEN PEAK PIECE TO TRUSS WITH  
 #8 X 3" SCREWS @ 16" O.C. MAX  
 TOE SCREWED, MAY BE SCREWED  
 FROM EITHER SIDE.

TOE SCREW DETAIL  
 #8 X 3" SCREW



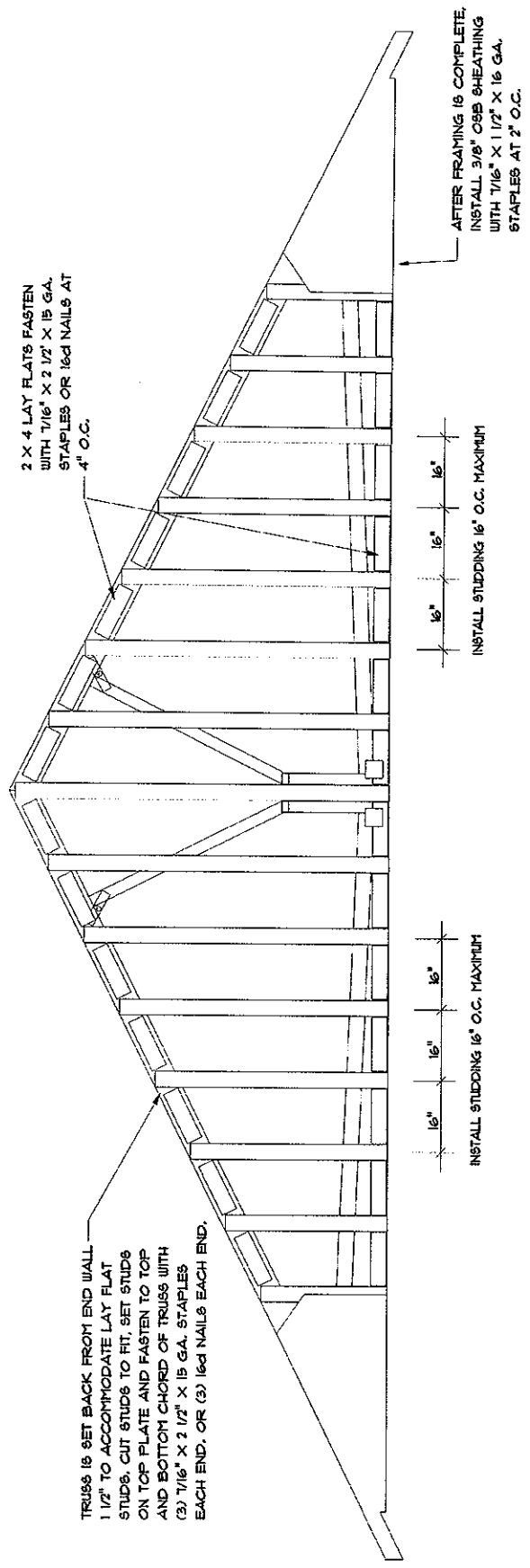
**NOTE:**  
 THE PEAK SECTIONS ARE PRE-MADE AND  
 SHIPPED LOOSE IN 8'-0" SECTIONS.

CALC PER X-114, X-115

MANUFACTURED HOUSING ENTERPRISES, INC.  
 09302 STATE ROUTE 6 - BRYAN, OH 43806

HINGED PEAK DETAIL

DATE: 3-3-05 REV: 9-29-08 BY: JB



CALC. PER X-4,14  
 MANUFACTURED HOUSING ENTERPRISES, INC.  
 09302 STATE ROUTE 6 - BRYAN, OH 43206

HINGED TRUSS GABLE CLOSE UP TYPICAL	
PAGE:	FRAME SIZE:
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 Oct. 21, 2008

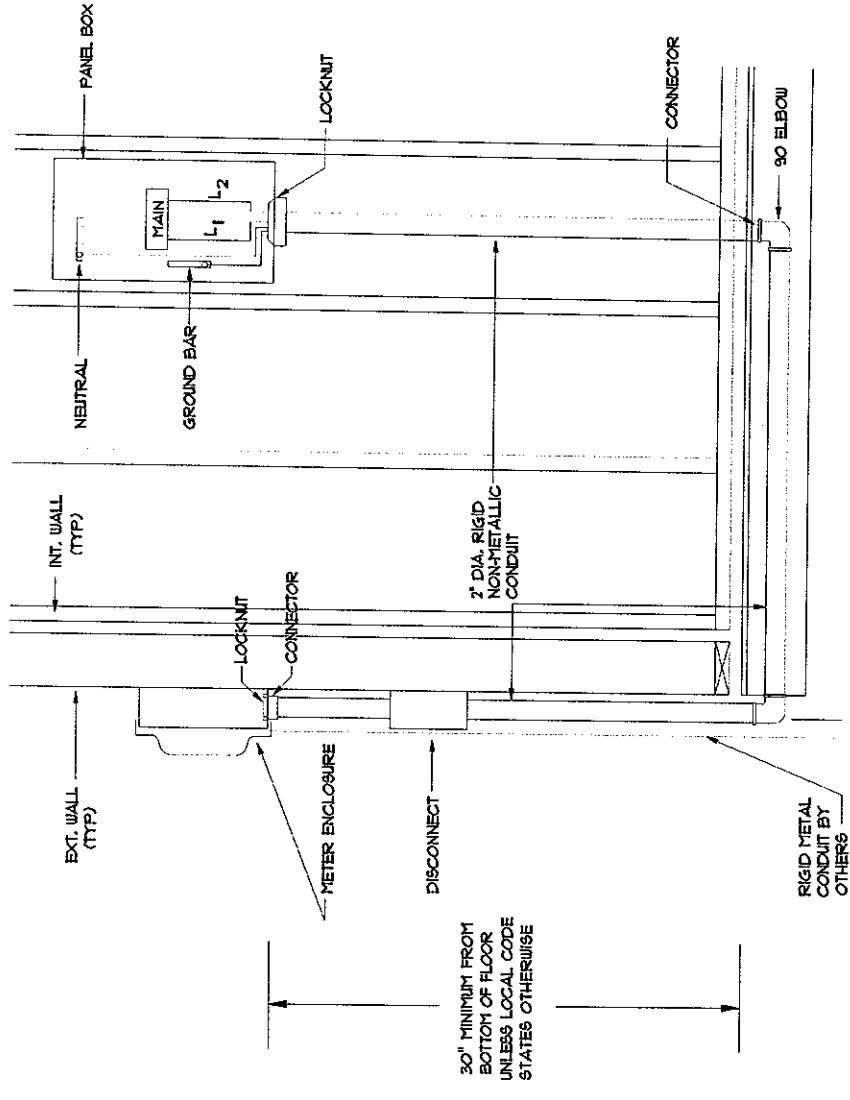
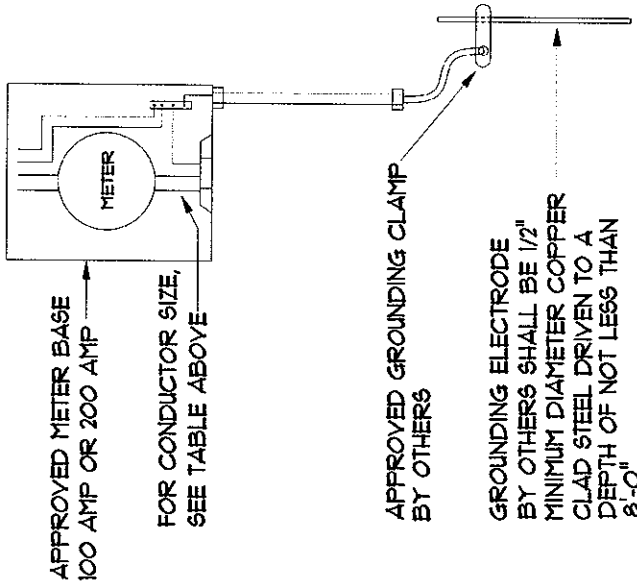
NOTES:  
 OSB SHEATHING IS SHIPPED LOOSE FOR THE GABLE ENDS,  
 2 X 4'S ARE SHIPPED LOOSE TO FRAME THE GABLE ENDS.

**NOTE: SECURE METER ENCLOSURE TO 2X FRAMING MEMBER, OR 2X BACKERS FASTENED TO STUDS**

**CONDUCTOR SIZE TABLE**

Main Breaker (Service) Size (Amp)	Conductor Size (AUG)		Grounding Conductor Size (AUG)	Factory Installed Feeder Receiving Trade Size (in.)	Minimum Junction Box Size
	CU	AL			
100	#4	#2	#6	1 1/2"	7" X 7" X 4"
200	#2/O	#4/O	#4	2"	6" X 6" X 4"

\*Conductor size and feeder receiving sized for "B" C. rated conductors, type RH, RHH RHL, without outer covering, THW or XHHW, two line and one neutral.



APPROVED BY  
**NA** INC.  
 Oct 21, 2008  
 FEDERAL MANUFACTURING  
 CONSTRUCTION AND SAFETY STANDARDS

**WARNING LABEL TO BE INSTALLED PER 3280.803 (K)(3)(VI) TO READ:**  
**DO NOT PROVIDE ELECTRICAL POWER UNTIL THE GROUNDING ELECTRODE IS INSTALLED AND CONNECTED (SEE INSTALLATION INSTRUCTIONS)**

<b>MANUFACTURED HOUSING ENTERPRISES, INC.</b> 09302 STATE ROUTE 6 - BRYAN, OH 43306	
<b>METER BASE INSTALLATION</b>	
<b>DATE: 10-21-92</b>	<b>REV: 5-12-00</b>
<b>BY: JB</b>	



# CHAPTER 8 - BASEMENT AND CRAWLSPACE ADDENDUM

### GENERAL NOTES:

1. THIS FOUNDATION HAS BEEN DESIGNED FOR SITES WITH AN ALLOWABLE SOIL BEARING CAPACITY OF 2000 PSF MINIMUM.
2. FOUNDATIONS TO BE CONSTRUCTED ON SOIL WITH A LOWER BEARING CAPACITY SHALL BE DESIGNED IN ACCORDANCE WITH ACCEPTED ENGINEERING PRACTICE BY A LICENSED ENGINEER TO LOCAL CONDITIONS AND CODES.
3. CONCRETE COMPRESSIVE STRENGTH AT 28 DAYS TO BE 3000 PSI MINIMUM.
4. REINFORCING STEEL SPECIFIED TO BE GRADE 60 BARS MEETING ASTM A615, A616 AND A617.
5. FOUNDATION WALL AND FOOTING TO BE REINFORCED WITH #4 REBAR AT 12" OC VERTICAL AND #5 REBAR AT 18" OC HORIZONTAL.
6. UNIT COLUMN SUPPORTS (SEE MODEL PLAN) MUST BE SUPPORTED BY A PIER AND FOOTING AS REQUIRED IN THE INSTALLATION INSTRUCTIONS MANUAL.
7. CROSSBEAMS ARE CONTINUOUS FULL WIDTH OF UNIT AND FIELD BELONGS TO EACH MARK BEAM AND SECURED AT PLASTER PER DETAILS. SEE CHART FOR REQUIRED SIZES.
8. MAIN BEAMS ARE SECURED AT EACH END IN PLASTER PER DETAILS. WHEN CENTER LINE BEAM IS INSTALLED PLASTER MUST ALSO BE INSTALLED FOR END SUPPORT. SEE CHART FOR REQUIREMENTS.
9. THESE SPECIFICATIONS ARE TYPICAL. LOCAL CODES MAY CONTAIN ADDITIONAL REQUIREMENTS.
10. FOUNDATION WALL STEMS MAY BE CONCRETE OR CONCRETE BLOCK.
11. CONCRETE BLOCK SHALL CONFORM TO ASTM C-90.
12. IN CONCRETE BLOCK STEM WALLS A MINIMUM OF (2) #4 REBARS ARE TO BE INSTALLED IN BLOCK WITH MUD SHILL ANCHORS, FULLY CHOUT EACH CELL CONTAINING REBAR.
13. ALL LUMBER IN CONTACT WITH CONCRETE SHALL BE OF PRESSURE TREATED TYPE OR OF SPECIES APPROVED FOR USE IN DIRECT CONTACT WITH CONCRETE.
14. THE INSTALLATION SIDE MUST BE GRADED SO THAT WATER DRAINAGE IS AWAY FROM STRUCTURE AND DOES NOT ACCUMULATE UNDER THE HOME.
15. BACK FILL ADJACENT TO THE WALL SHALL NOT BE PLACED UNTIL THE WALL HAS SUFFICIENT STRENGTH OR HAS BEEN BRACED TO PREVENT DAMAGE.
16. MINIMUM FOUNDATION VENTILATION REQUIREMENTS:
  - A. 15" x 24" ACCESS CRAWL SPACE TO UNDER FLOOR AREA
  - B. 1 1/2 SQUARE FEET OF VENTILATION PER 25 LINEAL FEET OF FOUNDATION WALL.
  - C. COVER VENT OPENINGS WITH CORROSION-RESISTANT WIRE MESH NOT LESS THAN 1/8" NOR MORE THAN 1/2" IN ANY DIRECTION.
17. I-BEAM SPLICE TO OCCUR OVER SUPPORTS. USE 1/4" x 4" x 4" SPLICE PLATE WELDED OR (2) 1/2" DIAMETER BOLTS EACH SIDE OF SPLICE.
18. WHEN CENTERLINE BEAM IS INSTALLED IT MUST BE CONTINUOUS FOR THE FULL LENGTH OF THE UNIT AND FIELD WELDED TO EACH CROSSBEAM AND SECURED AT EACH END AT ROCKET OR PLASTER PER DETAILS. (REQUIRED FOR 30 & 40 PSF ROOF LIVE LOADS ONLY. CROSSBEAMS WITH CENTERLINE BEAM INSTALLED MAY BE PER TABLE ON PAGE 5 OF 6). FOR 30 PSF ROOF SOME CENTERLINE BEAM IS NOT REQUIRED AND CROSSBEAM SIZE MUST BE PER TABLE ON PAGE 6 OF 6.

### GENERAL NOTES:

19. DAMP PROOFING OF CONCRETE OR MASONRY WALLS TO BE IN ACCORDANCE WITH LOCAL CODES. IN THE ABSENCE OF CODE REQUIREMENTS THE FOLLOWING SHALL APPLY.
  - A. EXTERIOR FOUNDATION WALLS OF MASONRY CONSTRUCTION ENCLOSED BASSMENTS SHALL BE DAMP PROOFED BY APPLYING NOT LESS THAN 3/8" OF PORTLAND CEMENT PARGING TO THE WALL FROM THE FOOTING TO THE FINISH GRADE. THE PARGING SHALL BE COVERED WITH A COAT OF APPROVED BITUMINOUS MATERIAL APPLIED AT THE RECOMMENDED RATE. EXTERIOR FOUNDATION WALLS OF CONCRETE CONSTRUCTION ENCLOSED BASSMENTS SHALL BE DAMP PROOFED BY APPLYING A COAT OF APPROVED BITUMINOUS MATERIAL TO THE WALL FROM THE FOOTING TO THE FINISH GRADE AT THE RECOMMENDED RATE.
  - B. FOUNDATION WALLS OF MASONRY BLOCKS LOCATED BELOW GRADE SHALL BE WATER PROOFED WITH MEMBRANES EXTENDING FROM THE EDGE OF THE FOOTING TO THE FINISH GRADE LINE. THE MEMBRANE SHALL CONSIST OF EITHER 2-PLY HOT MOPPED FELT, 5-MIL POLYVINYL CHLORIDE, 45-POUND ROLL ROOFING OR EQUIVALENT MATERIAL. THE LAP IN THE MEMBRANE SHALL BE SEALED AND FIRMLY AFFIXED TO THE WALL.
  - C. FOUNDATION WALLS MAY BE DAMP PROOFED OR WATER PROOFED USING MATERIALS AND METHODS OF CONSTRUCTION OTHER THAN COVERED IN THIS SECTION WHEN APPROVED BY THE LOCAL BUILDING OFFICIAL.
20. DRAINS SHALL BE PROVIDED AROUND FOUNDATIONS ENCLOSED HABITABLE OR USABLE SPACES LOCATED BELOW GRADE AND WHICH ARE SUBJECT TO GROUND WATER CONDITIONS. DRAINS SHALL BE INSTALLED AT OR BELOW THE AREA TO BE PROTECTED, AND SHALL DISCHARGE BY GRAVITY OR MECHANICAL MEANS INTO AN APPROVED DRAINAGE SYSTEM.
21. THE TOP OF OPEN JOINTS OF DRAIN TILES SHALL BE PROTECTED WITH STRIPS OF BUILDING PAPER AND THE DRAINAGE TILES SHALL BE PLACED ON 2 INCHES OF WASHED GRAVEL OR CRUSHED ROCK ONE SIZE LARGER THAN THE TILE JOINT OPENING OR PERFORATION AND COVERED WITH NOT LESS THAN 6 INCHES OF THE SAME MATERIAL.
22. THE DESIGNS ON THIS AND FOLLOWING SHEETS ARE APPLICABLE TO HORIZONTAL WIND LOADS OF 0.5 PSF MAXIMUM AND UNITS WHICH HAVE A MAXIMUM WIDTH OF 20'-8" FOR 20 HIGES AND 30'-4" FOR 32 HIGES. MINIMUM I-BEAM SPACING IS 39 1/2" TO SEISMIC ZONES 0, 1 AND 2.
23. THE DESIGNS ON THIS AND FOLLOWING SHEETS ARE APPLICABLE TO SEISMIC ZONES 0, 1 AND 2.
24. THIS FOUNDATION DESIGN IS NOT FOR INSTALLATION ON A FLOOD PLAIN. WHEN INSTALLING CRAWLSPACE OR BASEMENT IN AN AREA WITH SOILS HAVING POOR DRAINAGE, CONSIDERATION SHOULD BE GIVEN TO METHODS OF ELIMINATING ACCUMULATION OF WATER IN THE CRAWLSPACE OR BASEMENT, SUCH AS THE USE OF SUMP PUMPS. INSTALLATION OF SUMP PUMPS TO BE IN ACCORDANCE WITH LOCAL CODE REQUIREMENTS.

### GENERAL NOTES:

25. THIS FOUNDATION DESIGN QUALIFIES AS A PERMANENT FOUNDATION AS DEFINED BY THE HUD "PERMANENT FOUNDATIONS GUIDE FOR MANUFACTURED HOUSING", SEPT 1988 AND COMPLIES WITH THE FEDERAL MANUFACTURED HOME CONSTRUCTION AND SAFETY STANDARDS.
26. DESIGN BASED ON ASCE 7-83, 80 MPH WIND, EXPOSURE C AND PAGES WIND ZONE 1.
27. DESIGN BASED ON 3/4" MAXIMUM ROOF PITCH. SHEAR WALLS LOCATED AT END OF HOME ONLY, BOTH HALVES.
28. CONNECTION AT CENTERLINE MATING JOINT TO BE PER U.M.E.'S HUD SET-UP MANUAL.



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 Oct 21, 2008  
 FEDERAL MANUFACTURED HOME  
 CONSTRUCTION AND SAFETY STANDARDS

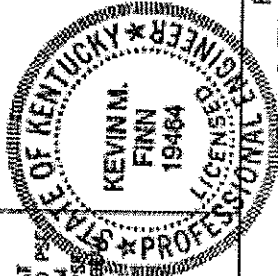
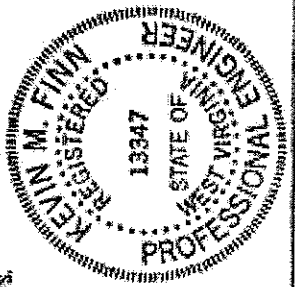
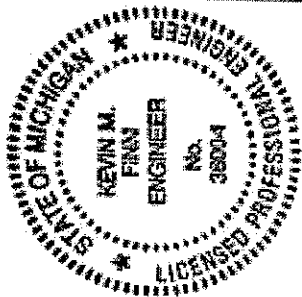
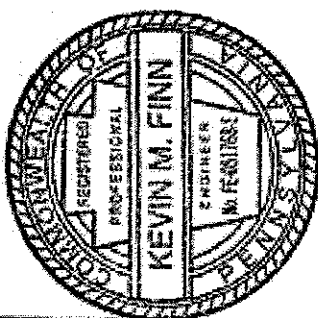


FIGURE 1.0  
 FOUNDATION NOTES AND CHARTS  
 PAGE 1 OF 6

M.H.E., INC.

LENGTH PER MODEL

PLASTER (TYPICAL)

FOUNDATION OPTIONAL CENTERLINE BEAM (REQUIRED WITH 30 & 40 PSF ROOF LIVE LOADS)

TYPICAL PIER AND FOOTING FOR RIDGECAP COLUMN SUPPORT (PER INSTALLATION INSTRUCTIONS)

3" (TYPICAL) STANDARDS STEEL PIPE COLUMN (OR EQUIV) W/ 1/4" x 4" x 6" STEEL PLATE

FOUNDATION CROSSSEAMS (SEE CHART FOR SIZE AND SPACING)

12'-0" MAX. TYPICAL SPACING

CENTERLINE PIER

MARY UNIT I-BEAMS

SEE ALSO PAGE 1 (NOTE 22) WIDTH PER MODEL

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NATIONAL INSULATION ASSOCIATION  
CONSTRUCTION AND SAFETY STANDARDS

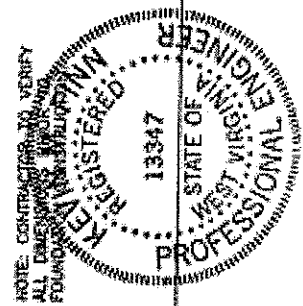
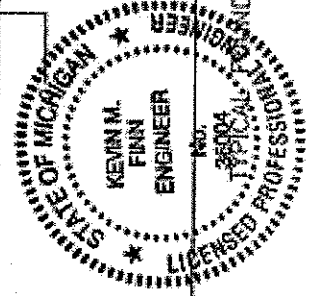
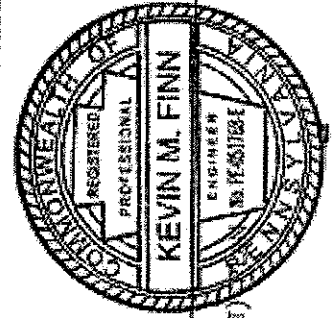
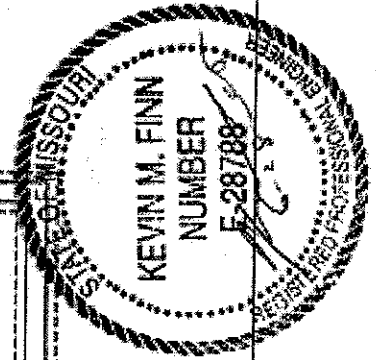
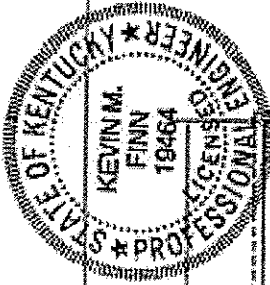


FIGURE 1.1  
FOUNDATION (CRAWLSPACE OR BASEMENT)  
PAGE 2 OF 6

NOTE: CONTRACTOR TO VERIFY ALL DIMENSIONS AND SPACING FOUNDATION CROSSSEAMS



M.H.E., INC.

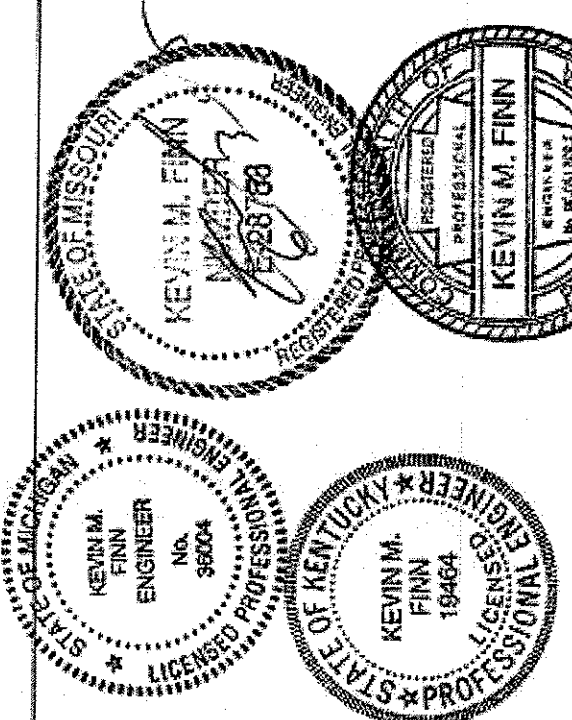
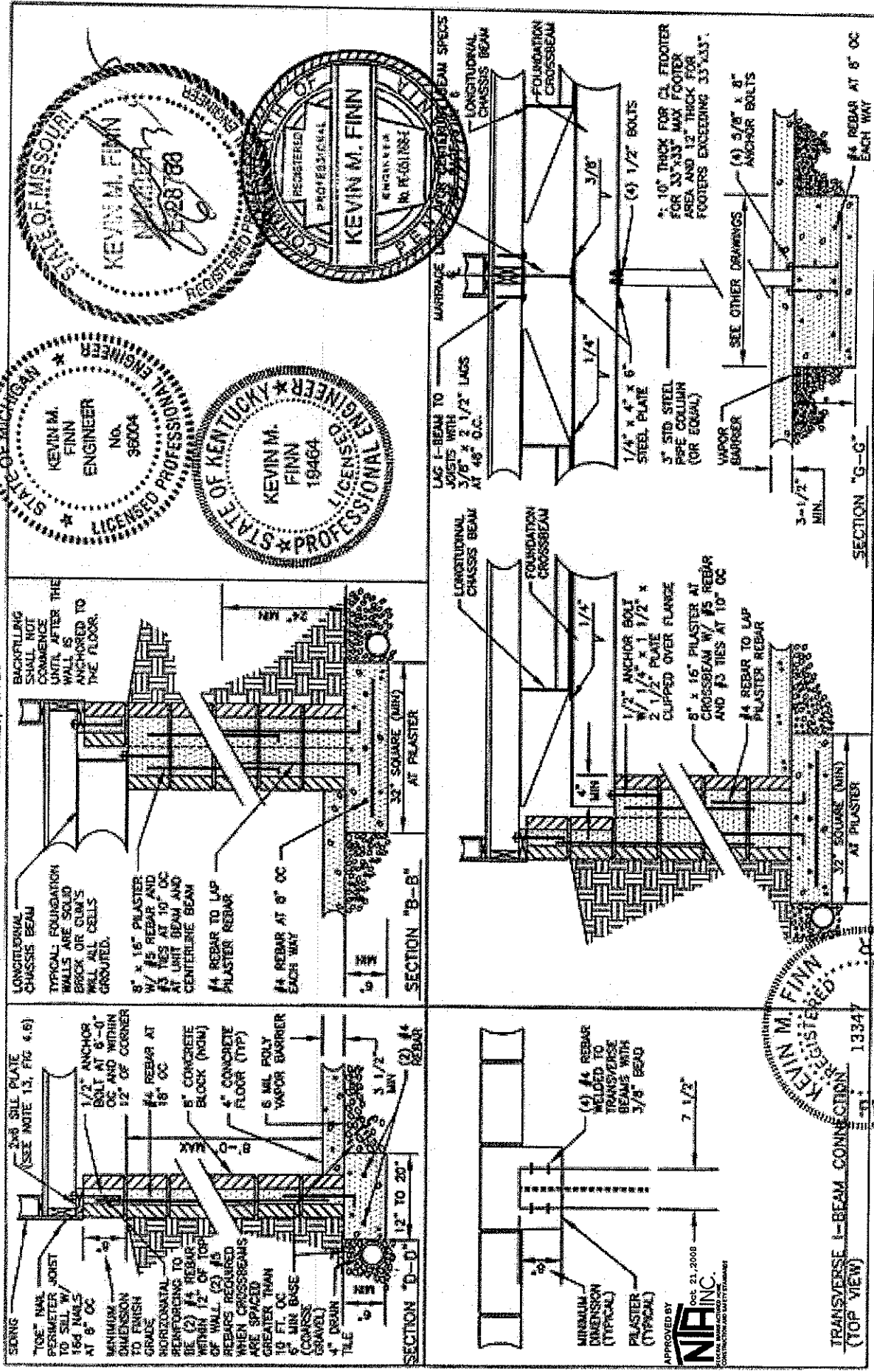
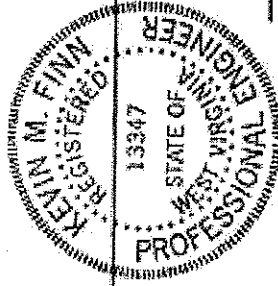
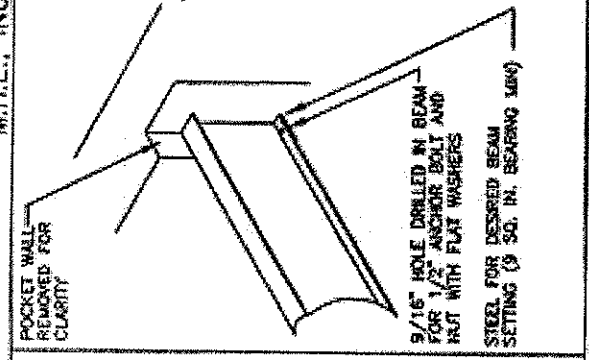
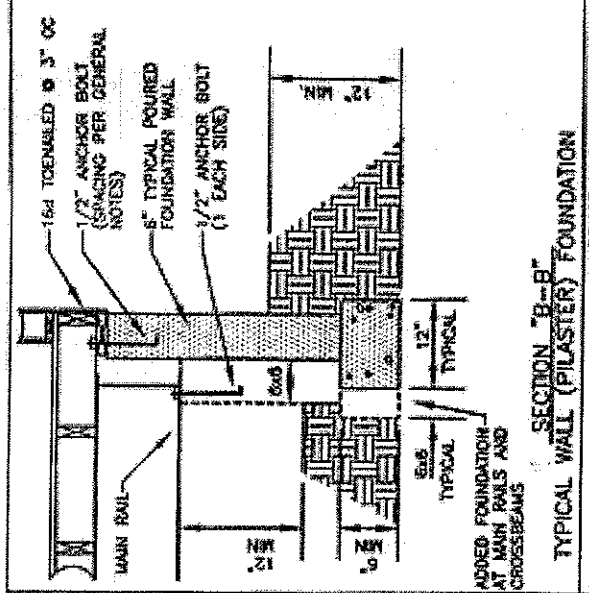


FIGURE 1.3  
BASEMENT DETAILS  
PAGE 4 OF 6

M.H.E., INC.



BEAM POCKET  
16 1/2" WITH 10"  
MAIN BEAMS AND  
8" CROSSBEAMS  
18 1/2" WITH 12"  
MAIN BEAMS AND  
8" CROSSBEAMS.

SIDE VIEW

BEAM POCKET DETAIL  
MAY BE USED WITH POURED WALL

POCKET WALL  
REMOVED FOR  
CLARITY

9/16" HOLE DRILLED IN BEAM  
FOR 1/2" ANCHOR BOLT AND  
NUT WITH FLAT WASHERS

STEEL FOR DESIRED BEAM  
SETTING (9 SQ. IN. BEARING AREA)

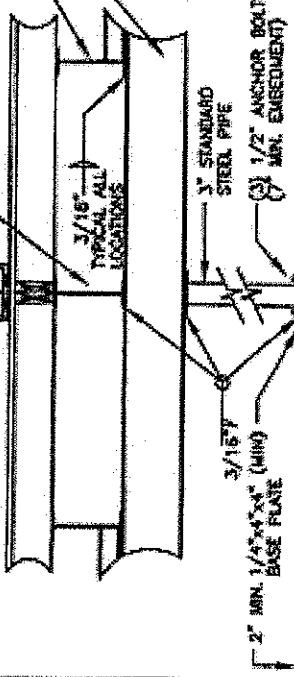
SECTION 'B-B'  
TYPICAL WALL (PILASTER) FOUNDATION

CONTINUOUS CENTERLINE BEAM (BUFT WELD AT JOINTS)  
WIDTH 12" (WITH 10" MAIN BEAM)  
OR W12x14 1/2 (WITH 12" MAIN BEAM)

MAIN BEAM  
(10" OR 12" OR 1")  
CROSS BEAM @ 12'-0" OC MAX  
SEE TABLE

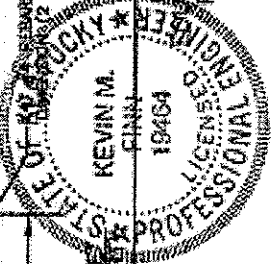
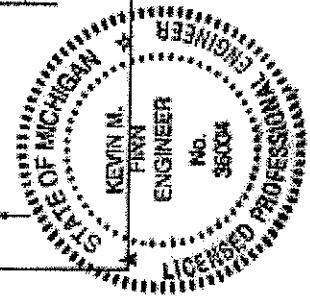
UNIT WIDTH	BEAM SIZE	CROSSER SIZE
180" FLOORS	W8x15	30-ESF-1110 PSF II
184" FLOORS	W8x15	34-34x10
188" FLOORS	W8x15	37-37x12
		39-39x12

3/16" TYPICAL ALL LOCATIONS



SEE TABLE

SECTION 'E-E'  
TYPICAL WALL (MAIN SUPPORT) FOUNDATION DETAILS

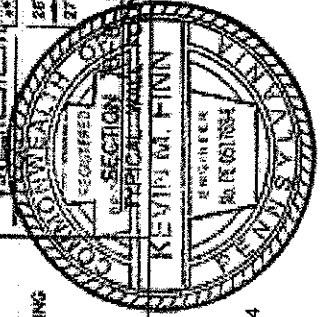
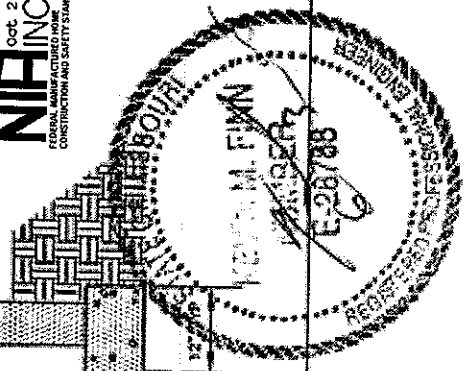


SECTION 'E-E'  
TYPICAL WALL (MAIN SUPPORT) FOUNDATION DETAILS  
PAGE 5 OF 6

44

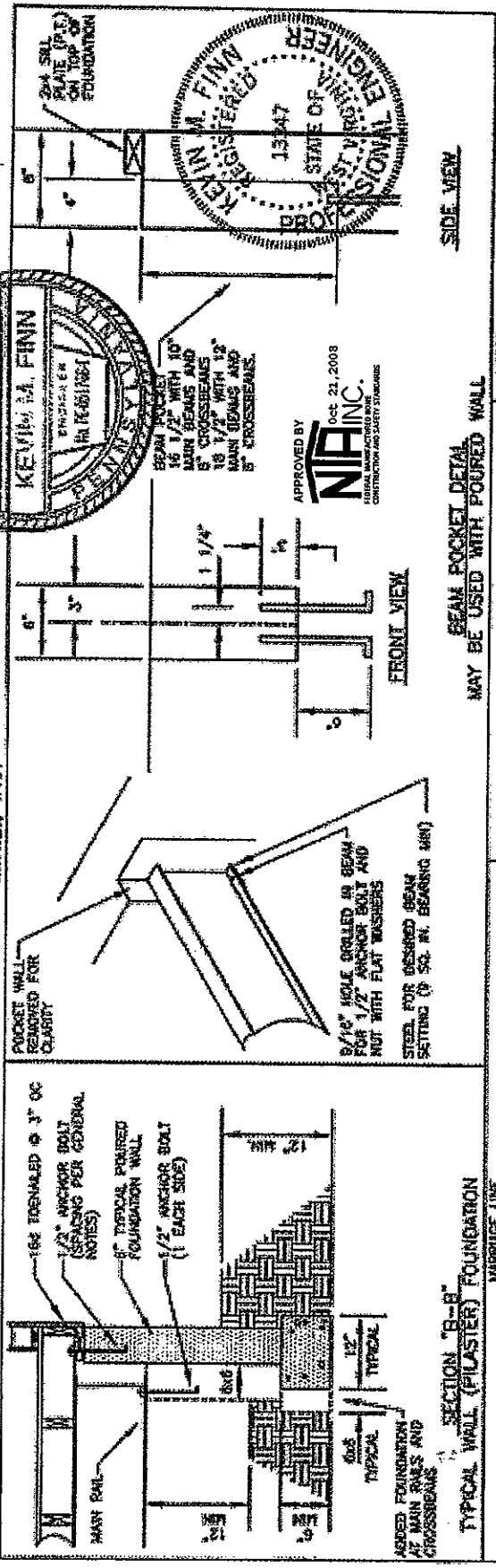
- NOTES
1. FOR USE ON HOMES SET UP IN THE 30 AND 40 PSF ROOF LOAD ZONES.
  2. FOR USE WITH POURED FOUNDATION. PLASTER TO SUPPORT THE CHASSIS MAIN RAILS. A CROSSBEAM MAY BE INSTALLED CORRECTLY BEHIND THE CROSSMEMBER IN ACCORDANCE WITH DETAILS FOR CROSSBEAM INSTALLATION. (SEE DETAIL TO LEFT).

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**M.H.E. INC.**  
OCT 21, 2008  
GENERAL MANUFACTURED HOME  
CONSTRUCTION AND SAFETY STANDARDS



I-44

M.H.E., INC.

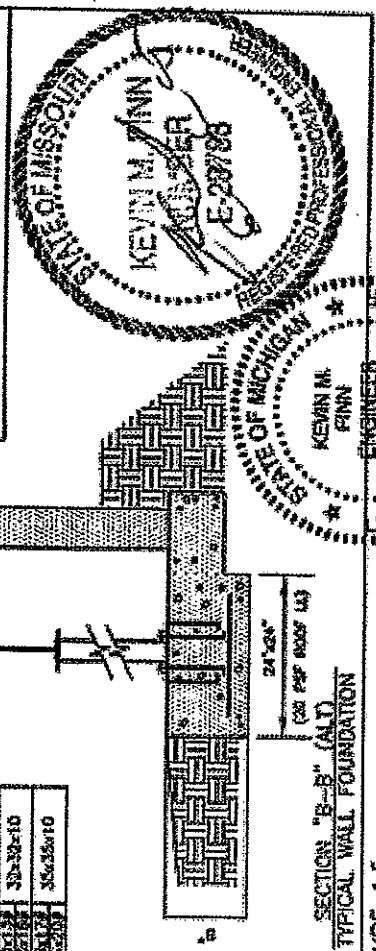


FRONT VIEW

SIDE VIEW

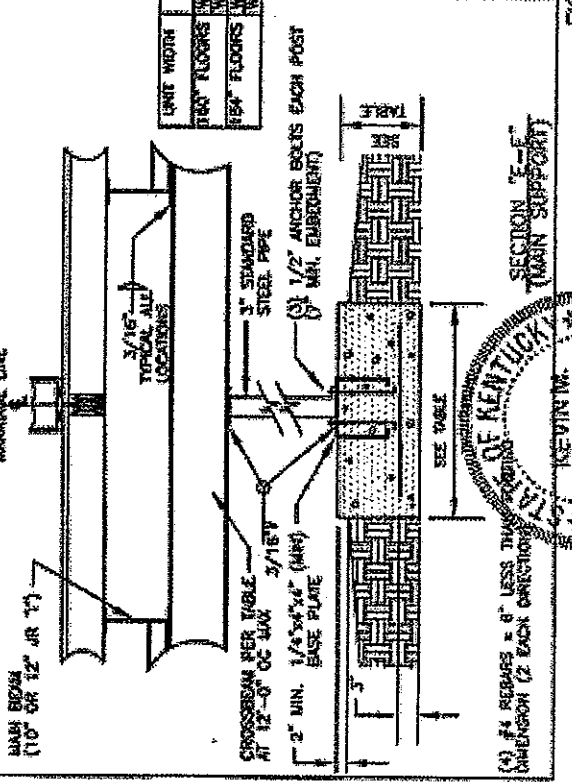
BEAM POCKET DETAIL  
MAY BE USED WITH POURED WALL

NOTES:  
1. FOR USE ON HOMES SET UP IN THE 20 PSF ROOF LINE LOAD ZONE. (VENTILATE BEAM NOT REQUIRED)  
2. AS AN ALTERNATE TO INSTALLING PLASTERS TO SUPPORT THE CHASSIS MAIN RAILS, A CROSSBEAM MAY BE INSTALLED DIRECTLY BEHIND THE CROSSMEMBER IN ACCORDANCE WITH THE DETAILS FOR CROSSBEAM INSTALLATION. (SEE DETAIL TO THE LEFT)



SECTION "B-B" (ALT)  
TYPICAL WALL FOUNDATION

UNIT WIDTH	BEAM SIZE	FOOTER SIZE
100" FLOORS	4" x 12"	30" x 30" x 10
154" FLOORS	6" x 12"	36" x 36" x 10



SECTION "E-E"  
MAIN SUPPORT

(1) 2" REBAR = 8" LESS THAN DIMENSION (2 EACH DIRECTION)

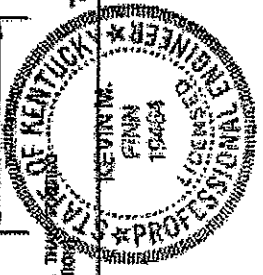
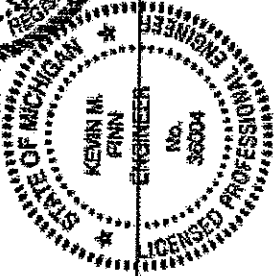
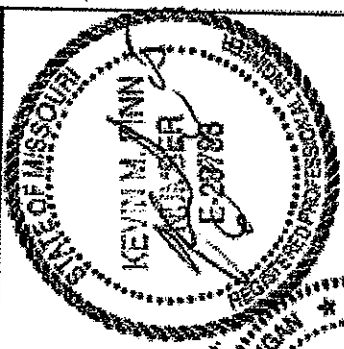
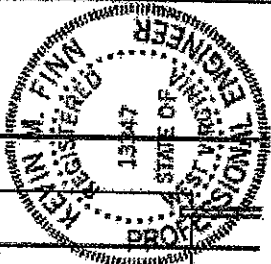
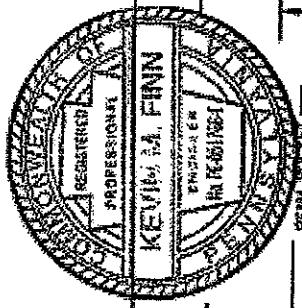


FIGURE 1.5  
FOUNDATION DETAILS  
PAGE 6 OF 6



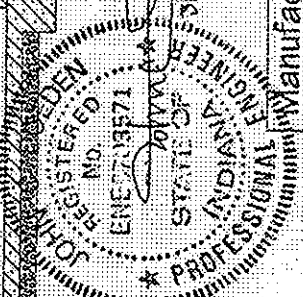
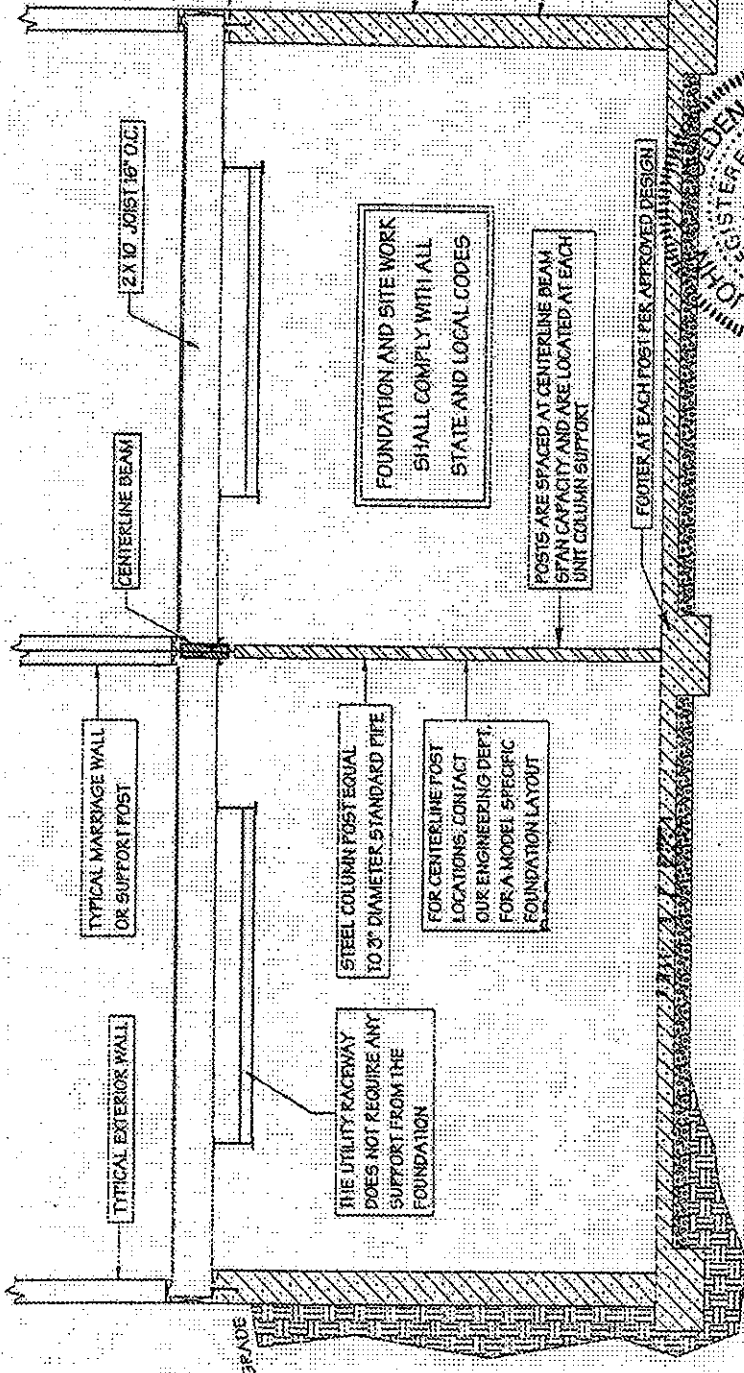
MANUFACTURED HOMES WITH THE FRAME REMOVED ARE NOT IN COMPLIANCE WITH THE HUD CODE.

TREATED SILL PLATE FASTENED TO FOUNDATION WALL WITH 1/2" ANCHOR BOLT 6" O.C. 7" INTO CONCRETE, NOT MORE THAN 12" FROM CORNER. SEE DETAIL A.

FOURED CONCRETE FOUNDATION WALL OR CONCRETE MASONRY BLOCKS.

WATERPROOF OR DAMPROOF ACCORDING TO LOCAL CONDITIONS AND LOCAL CODES.

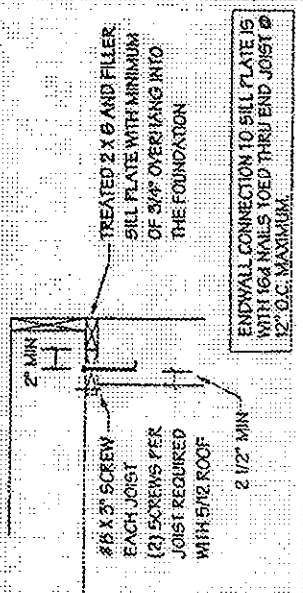
FOOTERS SIZED ACCORDING TO LOCAL SOIL CONDITIONS AND ENGINEERED DESIGN OR LOCAL CODES.



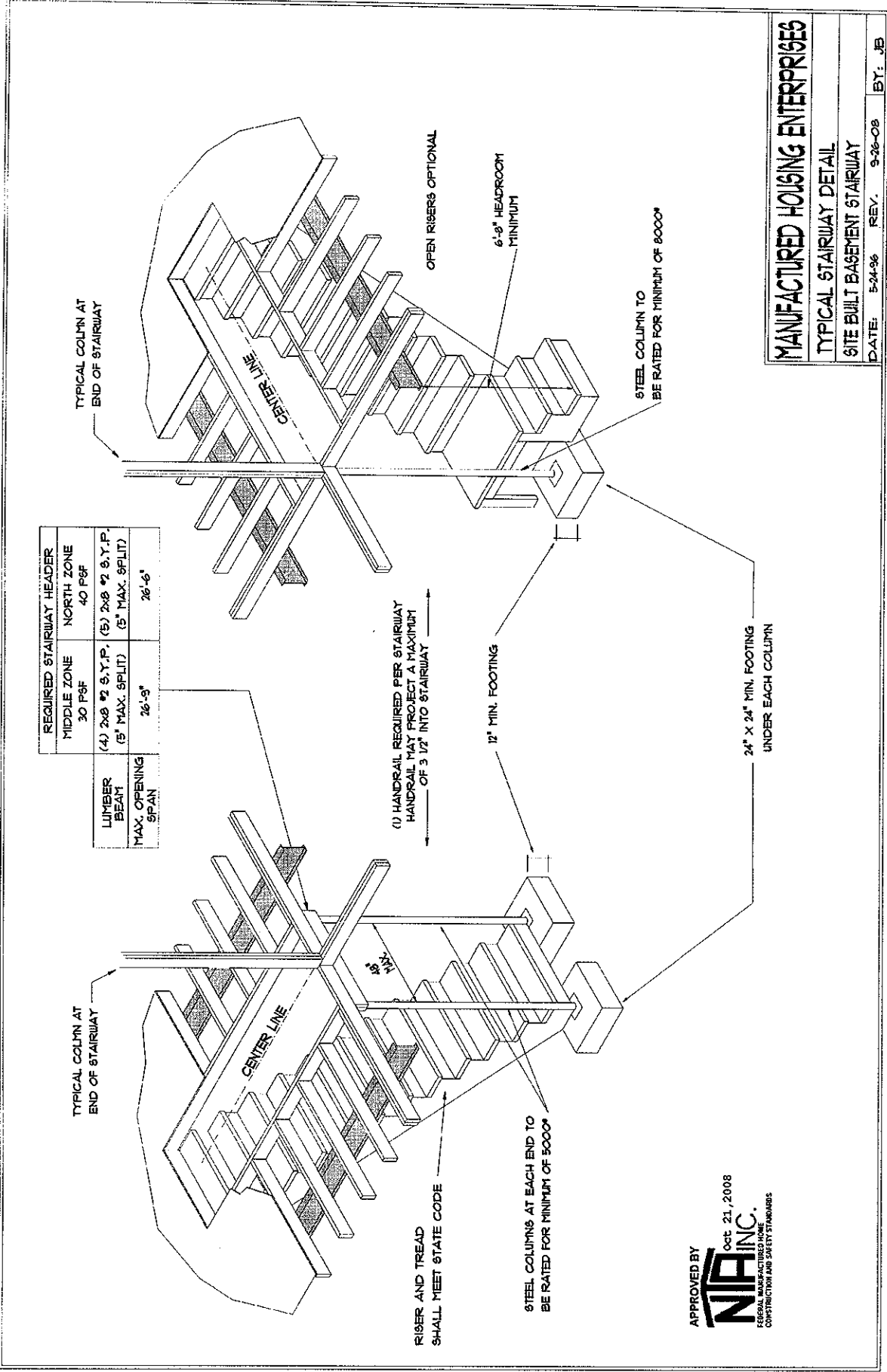
NOTE  
TYPICAL BASEMENT SHOWN. HOME MAY BE SET ON A CRAWLSPACE FOUNDATION WITH CONCRETE CENTERLINE PIERS.

NOTE  
IN THE ABSENCE OF LOCAL CODES, USE THE ONE & TWO FAMILY DWELLING CODE OR THE ANSI A-223.1 MANUFACTURED HOME INSTALLATIONS, 1992.

DETAIL A  
ANCHORING INFORMATION



Manufactured Housing Enterprises, Inc. 09502 State Route 6 Bryan, Oh. 43506	
FOUNDATION CROSS-SECTION WITH 2 X 10 FLOOR JOISTS TYPICAL ANCHORING INFORMATION	
Scale:	Page Number:
Date: 7-15-98	Rev. 3-12-99
By: BH	

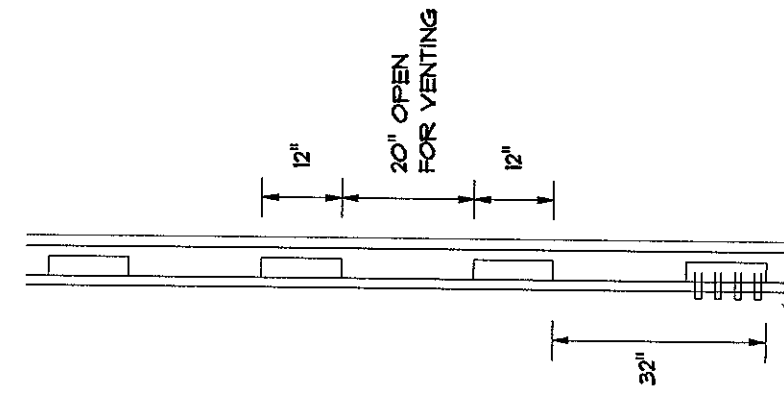


**MANUFACTURED HOUSING ENTERPRISES**  
**TYPICAL STAIRWAY DETAIL**  
**SITE BUILT BASEMENT STAIRWAY**  
 DATE: 5-24-96 REV. 9-26-08 BY: JEB

APPROVED BY  
**NIA INC.**  
 Oct 21, 2008  
 FEDERAL MANUFACTURED HOME  
 CONSTRUCTION AND SAFETY STANDARDS

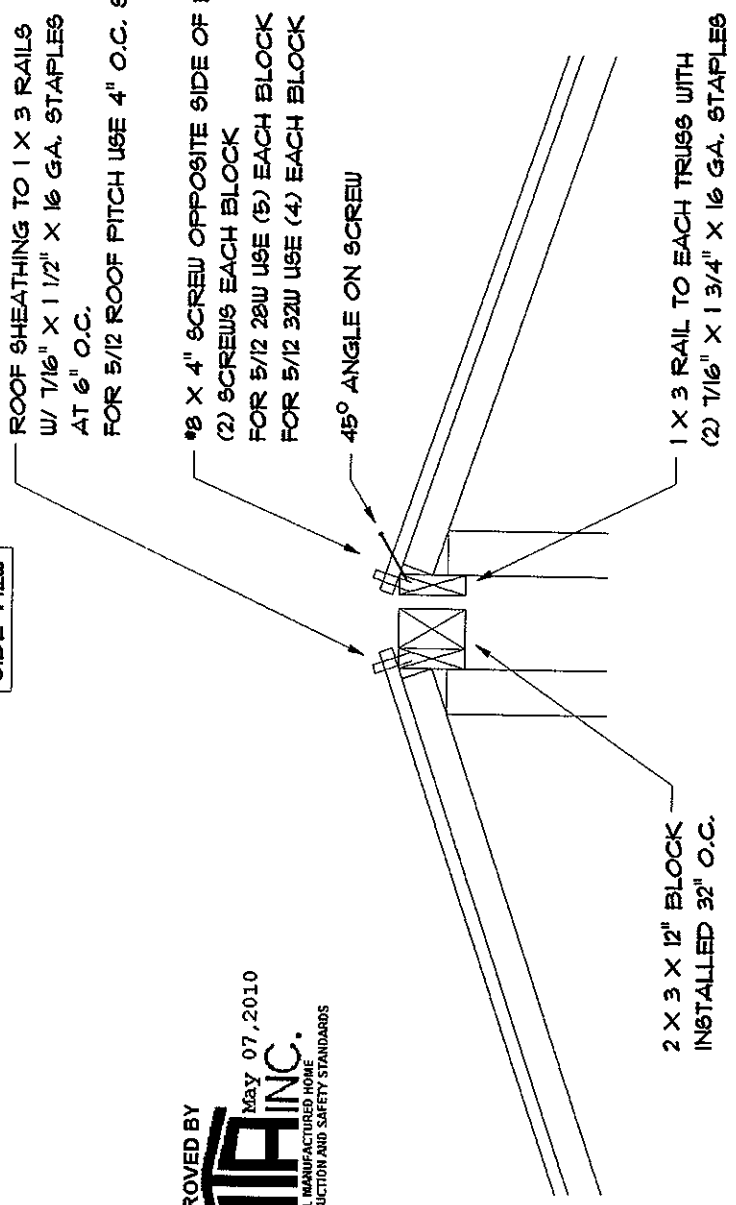


TOP VIEW



1 X 3 RAIL FASTENED ONE SIDE TO EACH BLOCK  
 IN FACTORY W/ (4) 1/16" X 1 3/4" X 16 GA. STAPLES.  
 FOR 5/12 ROOF PITCH USE (8) STAPLES.

SIDE VIEW



ROOF SHEATHING TO 1 X 3 RAILS  
 W/ 1/16" X 1 1/2" X 16 GA. STAPLES  
 AT 6" O.C.  
 FOR 5/12 ROOF PITCH USE 4" O.C. SPACING

\*8 X 4" SCREW OPPOSITE SIDE OF BLOCK  
 (2) SCREWS EACH BLOCK  
 FOR 5/12 28W USE (5) EACH BLOCK  
 FOR 5/12 32W USE (4) EACH BLOCK

45° ANGLE ON SCREW

2 X 3 X 12" BLOCK  
 INSTALLED 32" O.C.

1 X 3 RAIL TO EACH TRUSS WITH  
 (2) 1/16" X 1 3/4" X 16 GA. STAPLES

APPROVED BY  
**NIA INC.**  
 May 07, 2010  
 FEDERAL MANUFACTURERS HOME  
 CONSTRUCTION AND SAFETY STANDARDS

CALC. PER CA-X-6.0



MANUFACTURED HOUSING ENTERPRISES, INC.  
 06302 STATE ROUTE 6 - BRYAN, OH 43506

SECTIONAL ROOF RIDGE DETAIL

PAGE: 1-48

SERIES:

DATE: 5-5-10

REV:

BY: JEB

## Site Installation Checklist for Energy Star Qualified Manufactured Homes

Home Manufacturer:

Manufactured Housing Enterprises, Inc. 09302 St. Rt. 6 Bryan, Ohio 43506  
 Contact: John Bailey: 419-630-2452



Home Serial Number: \_\_\_\_\_

**Instructions for manufacturer's field representative:**

1. Fill in retailer and homeowner contact information.
2. Verify that all ENERGY STAR CONSTRUCTION REQUIREMENTS listed below have been successfully completed.
3. Confirm that the EPA ENERGY STAR and MHRA Quality Assured™ labels are affixed to the home (near the HUD data plate or the main electrical panel).
4. When all ENERGY STAR construction requirements have been successfully completed:
  - Sign and date this form.
  - Sign and date the MHRA Quality Assured™ label.
  - Promptly return this completed form to the manufacturer.

If there are any discrepancies, contact the manufacturer immediately.

**Retailer\***

Company	Contact	Email address	
Address	City	State	Zip
			Telephone

**Homeowner\***

Name	Telephone
Address	City
	State
	Zip
	County

### ENERGY STAR CONSTRUCTION REQUIREMENTS

**Marriage Line Seal**

The marriage line areas must be filled with a continuous non-porous insulating gasket creating a permanent air barrier at joints in the ceiling, walls and floor. Acceptable gaskets can be one or two-part systems, including proprietary gaskets, foams, insulation wrapped in poly, and insulation covered by butyl or other long-life tape on one side. In addition there must be no visible signs of gaps or tears.

**Tears in Bottom Board Material Repaired**

All tears in the bottom board material must be sealed with a durable, permanent patch to prevent air leakage. (Foam sealant can be used on lag bolt and other small holes.)

**Exterior Duct Installation**

For multi-section homes, the crossover duct is located in the floor system and must be sealed with a permanent connection. Identify that the following item has been completed:

- There are two in-floor crossovers; a gasket provided by the manufacturer is installed at each location.

**Field Installed Heat Pump**

- Heating equipment efficiency meets or exceeds the following specifications: HSPF- \_\_\_\_\_.

**For Homes Installed Over Basements (One of the following must be checked)**

- This home has an UNHEATED basement. All interior stairwells from the heated space into the basement are constructed in the same manner as an exterior wall with full insulation and a weather-stripped, insulated exterior door.
- This home has a HEATED basement. The basement wall insulation level is a minimum of: R-\_\_\_\_\_.

Signature (Manufacturer's Representative)	Print Name	Date
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Fax this completed form to \_\_\_\_\_ or mail to the home manufacturer at the address above.

\* The retailer and/or homeowner may be contacted as part of the ENERGY STAR for Homes quality assurance program.