

STATE OF MISSISSIPPI

GEORGE DALE  
Commissioner of Insurance  
State Fire Marshal

LEE HARRELL  
Deputy Commissioner of Insurance

RICKY DAVIS  
State Chief Deputy Fire Marshal

LARRY BARR  
State Fire Coordinator



DEPARTMENT OF INSURANCE  
**OFFICE OF THE FIRE MARSHAL**  
501 N. WEST STREET • 1001 WOOLFOLK BUILDING  
JACKSON, MISSISSIPPI 39201  
firemarshal@mid.state.ms.us  
Website: www.doi.state.ms.us

Post Office Box 79 (39205)  
Jackson, Mississippi  
State Fire Marshal's Office  
(601) 359-1061  
1-888-648-0877  
Fax: (601) 359-1076  
State Fire Coordinator  
(601) 359-1062

August 29, 2007

Mr. David J. Barts  
Account Manager  
NTA, Inc.  
Post Office Box 490  
Nappanee, IN 46550

Plan Review    Quality Manual    New    Revisions

**RE:   Oak Creek Homes – Lancaster**  
**Model# MS Cottages #1240**

Dear Mr. Barts:

Eugene Humphrey, Assistant Chief Deputy State Fire Marshal, has requested that I contact you concerning the above referenced project dated August 24, 2007.

The State Fire Marshal's Office evaluation of the manual using the codes checked below found said manual **in** compliance and is therefore **approved** as submitted to this office.

- International Residential Code Ed. 2003
- International Building Code Ed. \_\_\_\_\_
- National Electrical Code Ed, 2005
- NFPA Standard \_\_\_\_\_
- Other ASCE 7-02

If you should have any questions or concerns, please do not hesitate to contact our office.

Sincerely,

James Jackson, Deputy State Fire Marshal, I

Cc:   Ricky Davis, Chief, Deputy State Fire Marshal

JJ:sh

RECEIVED  
 AUG 3 2 2007  
 STATE MISSISSIPPI INSURANCE DEPT.

### Design Codes: (Mississippi)

2003 IBC/IRC, 2005 NEC  
 MISSISSIPPI MODULAR APPROVAL  
 PARK MODEL APPROVAL ANSI A119.5  
 FLOOR LIVE LOAD: 40 PSF TCDL = 7 PSF  
 FLOOR DEAD LOAD: 10 PSF BCDL = 7 PSF  
 GROUND SNOW LOAD: 30 PSF BCLL = 10 PSF  
**WIND LOAD:**  
 A. 150 MPH AT 3 SECOND GUST, EXPOSURE B  
 B.  $I_w = 1.0$  WIND IMPORTANCE FACTOR  
 C. B WIND EXPOSURE CATEGORY.  
 D.  $G_Cp_i = +/- 0.18$  INTERNAL PRESSURE COEFFICIENT.  
 E1.  $P_w = 54.2$  PSF (END ZONE) WALL COMPONENT & CLADDING LOAD.  
 E2.  $P_w = 43.9$  PSF (INTERIOR ZONE) WALL COMPONENT & CLADDING LOAD.  
 F1.  $P_r = 40.5$  PSF (INTERIOR ZONE) ROOF COMPONENT & CLADDING LOAD.  
 F2.  $P_r = 47.3$  PSF (END ZONE) ROOF COMPONENT & CLADDING LOAD.  
 F3.  $P_r = 47.3$  PSF (CORNER ZONE) ROOF COMPONENT & CLADDING LOAD.  
 G1. OVERHANG = 68.6 PSF (SIDE ZONE)  
 G2. OVERHANG = 68.6 PSF (CORNER ZONE)  
 H. THIS BUILDING IS NOT DESIGNED FOR PLACEMENT ON THE UPPER HALF OF A HILL OR ESCARPMENT EXCEEDING 15 FEET IN HEIGHT. WALL HEIGHT: 96 1/4" MAX. SEISMIC DESIGN CATEGORY : C

Drawing Description Index	Page #:	Drawing Description Index	Page #:
Typical Elevations	1A, 1B	Cross Section Details	10A, 10B
Floor Plan	2	Ship Loose Window Protectors	11
Electrical Plan	3	Framing details	12A, B, C, D & E
Pressure System	4	Shearwalls	13A, 13B, 13C
Drain System	5, 6	Connection Details	14A, 15B
HVAC System	7, 8	Porch Framing Details	15
Off-Frame Foundation Plans	9A, 9B	Trusses	16
On-Frame Foundation Plans	9C, 1-4, 9D, 9E	Calculation	17

P.E. Seal



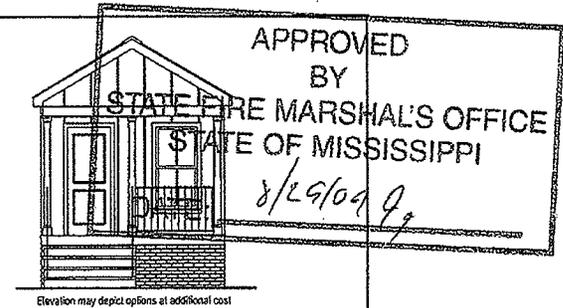
3rd Party Stamp

APPROVED BY  
 AUG 15 2007  
 NIA INC

### OAK CREEK HOMES

800 NORTH I-35 EAST LANCASTER, TEXAS 75145

1240



#### Thermal Design Criteria (Insulation):

R-11 Floors; R-19 Walls; R-30 Min. Roof (Doors - U=.40 min.; Windows - U=.35 or better)

#### Building Site Installation Requirements:

The following items have not been completed by the building manufacturer, have not been inspected by the third party inspection agency, and are not certified by the state modular label and/or certification. Code compliance for these items must be determined at the local level:

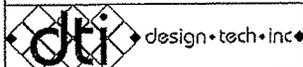
- 1). The completed foundation support system and tie down and/or anchorage system.
- 2). Electrical service hookup (including any feeders or service wires/cables, or the Service Panel if not installed in factory).
- 3). Building drains, cleanouts, and hookups to plumbing system, or a portion thereof, and any/and/or all finish plumbing.
- 4). Ramps, stairs, and general means of access to the building.
- 5). Install R-6.5 insulation on all piping installed in unconditioned spaces.
- 6). HVAC system crossover ducts and/or entire HVAC systems or a portion thereof. (Including but not limited to: below floor ducting, external heat pumps, A/C units, etc.)
- 7). Crawl space or basement light and switch.
- 8). Manufacturer's installation instructions shall be available on the job site at the time of inspection.

#### Additional Notes:

Typical foundation details provided w/ this drawing set. The design criteria herein is for this system only as shown. For other design deviations or special site requirements, consult a licensed Professional Engineer locally. If the foundation plans are designed by others, the designer of the building plans shall not be held responsible or liable for the foundation design and the consequential performance of the superstructure's structural components and systems related thereto.

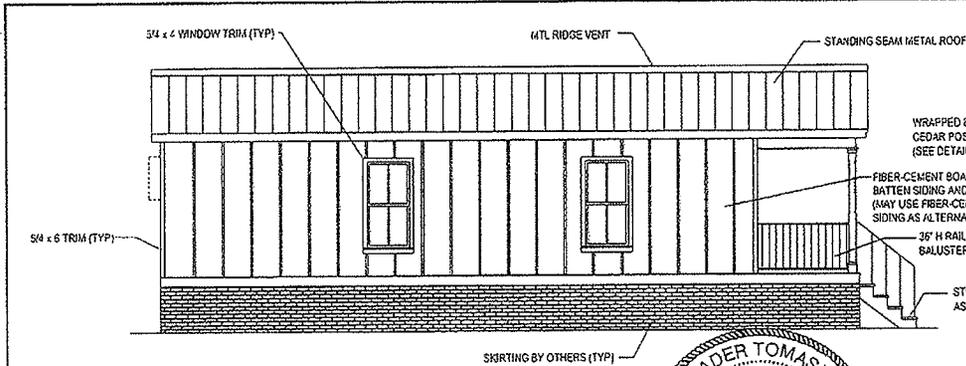
Areas within hurricane prone regions within one mile of the coastal mean high water line w/ wind speed of 110 or greater or a basic wind speed of 120 mph or greater must have window protection installed on-site by others. Window protection must meet the requirements of the code and the "Large Missile Test".

STRUCTURE NOT TO BE LOCATED IN FLOOD PLANE AREAS UNLESS A LOCAL P.E. DESIGNS FOUNDATION FOR SUCH AREAS.  
 ASCE 7-02 - Construction in areas where basic wind speeds exceed 110 mph to be designed by one of four methods described in section R301.2.1.1

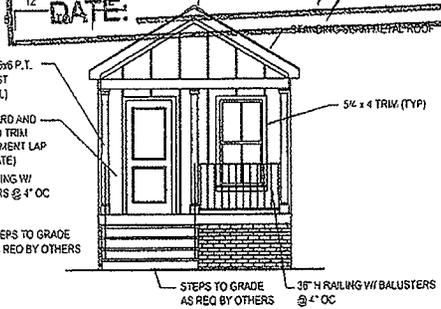


Disclaimer: These drawings have been prepared and reviewed in accordance with all applicable codes. This drawing set is not intended to be all inclusive, nor does this set detail every code required aspect of this building. Compliance with all applicable codes per local authority having jurisdiction whether detailed in this set or not must be met. This document is developed based on information provided by State of Mississippi Emergency Management Agency (project # STMS012507).

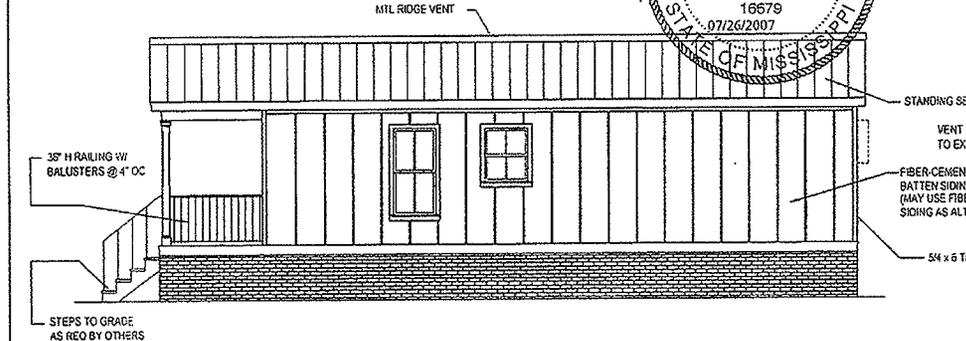
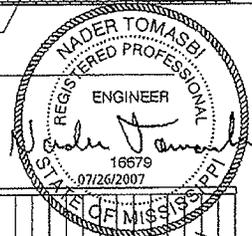
APPROVED  
BY  
STATE FIRE MARSHAL'S OFFICE  
STATE OF MISSISSIPPI  
DATE: 8/19/09



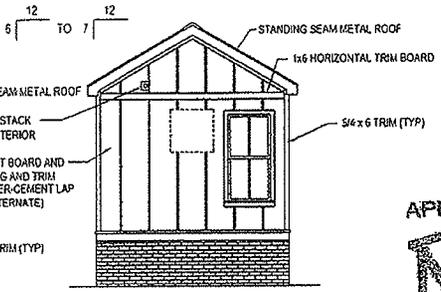
LEFT ELEVATION



FRONT ELEVATION



RIGHT ELEVATION

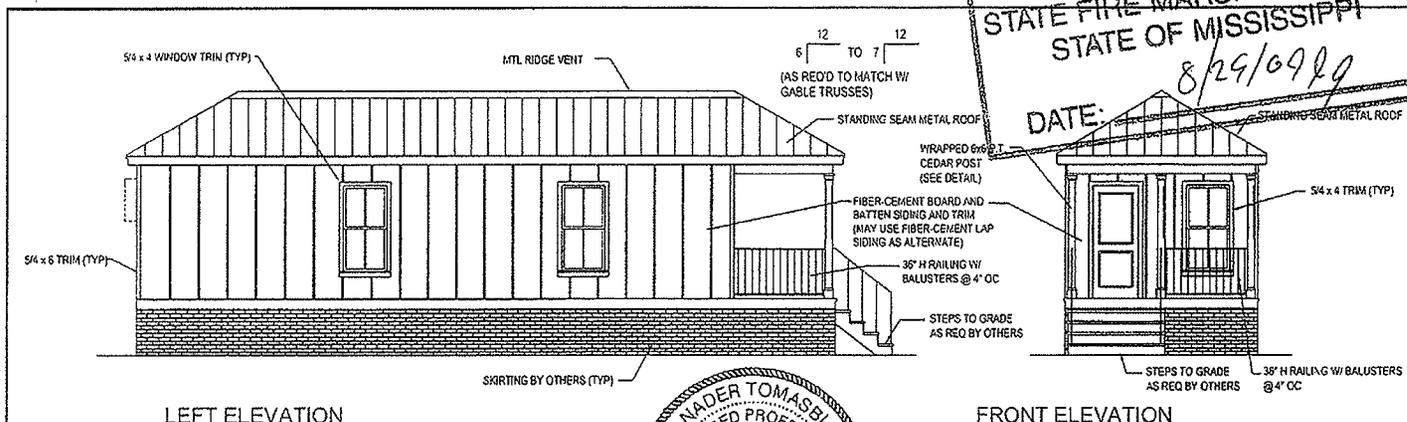


REAR ELEVATION

REQUIRED ATTIC VENTILATION 1/300 WITH VENTILATED RIDGE AND SOFFIT 1.32 SQ. FT.

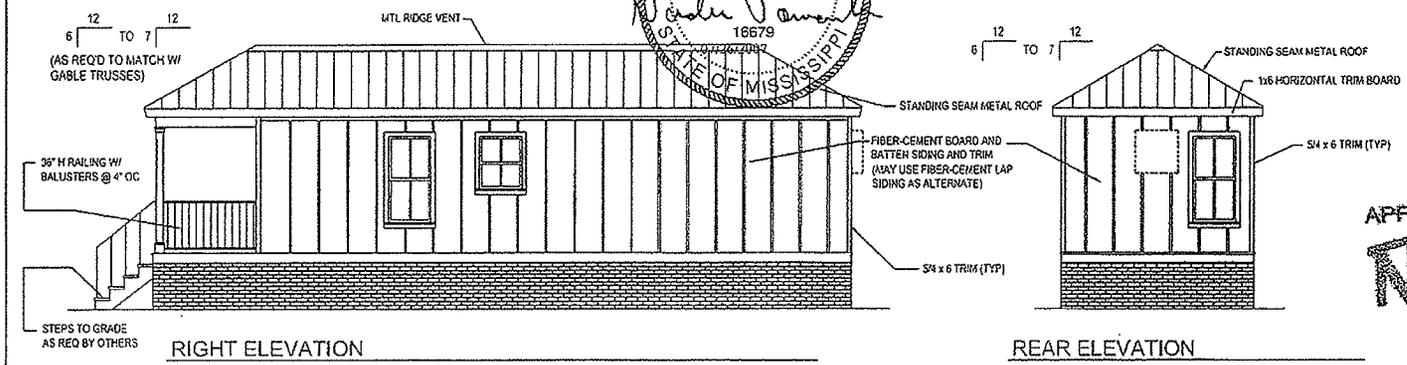
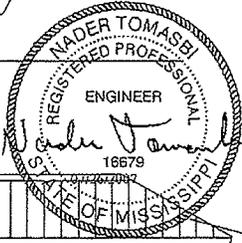
AUG 15 2007  
APPROVED BY  
NIA INC

APPROVED  
 BY  
 STATE FIRE MARSHAL'S OFFICE  
 STATE OF MISSISSIPPI  
 DATE: 8/29/09



LEFT ELEVATION

FRONT ELEVATION



RIGHT ELEVATION

REAR ELEVATION

AUG 15 2007  
 APPROVED BY  
 NIA INC.

REQUIRED ATTIC VENTILATION 1/360 WITH VENTILATED RIDGE AND SOFFIT 1.32 SQ. FT.

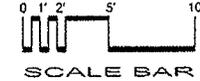
Must install 15/32\"/>

STMS012507 MS MODULAR	Title: Hip Roof Elevations		Drawn By: . Date: . Revised By: . Date: .	Model No. 1240	Pg. 1B
--------------------------	----------------------------	--	--	----------------	--------

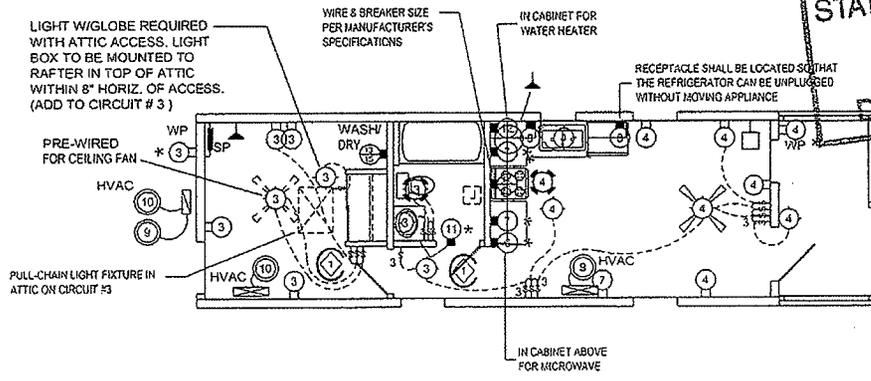


**SYMBOLS** X = CIRCUIT NUMBER

- ⊗ 15A RECEPT      ⊗ CEILING LIGHT      † SINGLE SWITCH      T THERMOSTAT      ⊕ AC/DC SMOKE ALARM, ALL TO BE INTERCONNECTED PER MANUFACTURER'S INSTRUCTIONS AND ALL APPLICABLE CODES
- ⊗ MECHANICAL FAN      ⊗ WALL MOUNTED LIGHT      † 3-WAY SWITCH      - - - SWITCH RUN      ⊕ COMBINATION SMOKE ALARM AND CARBON MONOXIDE ALARM, TO BE INTERCONNECTED PER MANUFACTURER'S INSTRUCTIONS AND ALL APPLICABLE CODES
- ⊗ 20A RECEPT      \* GFCI PROTECTED      † DOUBLE SWITCH      □ TV JACK      ⊕
- ⊔ J-BOX FOR ELECTRICAL CONNECTION      † PHONE JACK      ⊕
- ⊔ HVAC UNIT



**APPROVED**  
BY  
**STATE FIRE MARSHAL'S OFFICE**  
**STATE OF MISSISSIPPI**  
DATE: 8/29/09



LIGHT W/GLOBE REQUIRED WITH ATTIC ACCESS. LIGHT BOX TO BE MOUNTED TO RAFTER IN TOP OF ATTIC WITHIN 8" HORIZ. OF ACCESS. (ADD TO CIRCUIT # 3)

PRE-WIRED FOR CEILING FAN \* 3

HVAC

PULL-CHAIN LIGHT FIXTURE IN ATTIC ON CIRCUIT #3

WIRE & BREAKER SIZE PER MANUFACTURER'S SPECIFICATIONS

IN CABINET FOR WATER HEATER

RECEPTACLE SHALL BE LOCATED SUCH THAT THE REFRIGERATOR CAN BE UNPLUGGED WITHOUT MOVING APPLIANCE

IN CABINET ABOVE FOR MICROWAVE

AUG 15 2007  
APPROVED BY  
**NIA INC.**

**NOTE:**  
ALL HOMES ARE BUILT TO MEET THE 2005 NATIONAL ELECTRICAL CODE

**NOTES:**  
ALL SMOKE ALARMS W/ BATTERY BACK-UP TO BE INTERCONNECTED WITH A 14 GAUGE MIN. INTERCONNECTION WIRE OR EQUIVALENT PER MANUFACTURER'S RECOMMENDATIONS.

000 -BRKR./WIRE SIZES TO BE DETERMINED AND SUPPLIED ON-SITE BY OTHERS.  
ALL BRANCH CIRCUITS SUPPLYING 15A AND 20A OUTLETS IN BEDROOMS ARE PROTECTED BY AN ARC-FAULT CIRCUIT INTERRUPTER IN ACCORDANCE WITH SECTION 210.12 OF THE NEC.



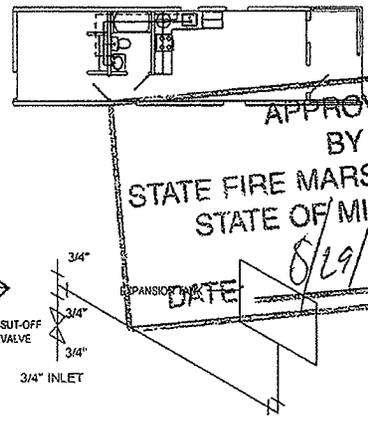
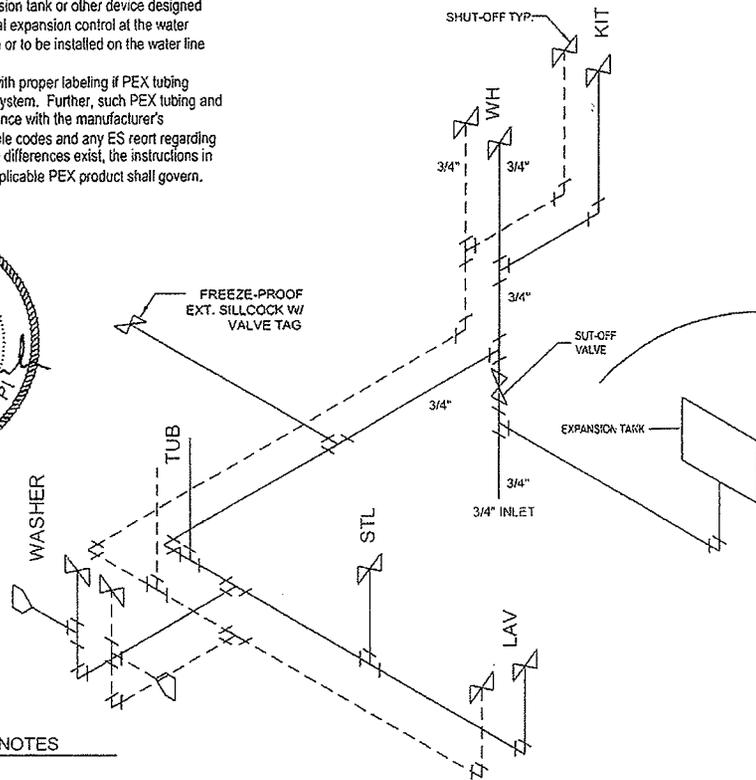
⊔ 22"X30" ATTIC ACCESS REQUIRED WHEN CLEAR HEIGHT OF ATTIC EXCEEDS 30".

SERVICE SIZE  
125 AMPERE

CIRCUIT LEGEND			
CIRCUIT NO.	DESCRIPTION	WIRE SIZE	BREAKER SIZE
1	GENERAL LIGHTING	14-2 W/GR.	15A-S. POLE
2	N/A	N/A	N/A
3	GENERAL LIGHTING	14-2 W/GR.	15A-S. POLE
4	GENERAL LIGHTING	14-2 W/GR.	15A-S. POLE
5	N/A	N/A	N/A
6	MICROWAVE	12-2 W/GR.	20A-D. POLE
7	APPLIANCE CIRCUIT	12-2 W/GR.	20A-S. POLE
8	APPLIANCE CIRCUIT	12-2 W/GR.	20A-S. POLE
9	HVAC SYSTEM INSTALLED PER MANUFACTURERS SPECS OR DESIGNED/INSTALLED BY OTHERS		
10			
11	BATH RECEPT CIRCUIT	12-2 W/GR.	30A-S. POLE
12	WATER HEATER	10-2 W/GR.	25A-S. POLE
13,15	ELECTRIC W/D	12-2 W/GR.	20A-D. POLE
14,16	ELECTRIC RANGE	8-3 W/GR.	40A-D. POLE

Ocean Springs - Provide an expansion tank or other device designed for intermittent operation for thermal expansion control at the water heater if a backflow preventer is on or to be installed on the water line or at the meter.

Long Beach - Provide a manifold with proper labeling if PEX tubing and fittings are installed on water system. Further, such PEX tubing and fittings shall be installed in accordance with the manufacturer's published instructions, the applicable codes and any ES report regarding the particular PEX product. Where differences exist, the instructions in any ES Report pertaining to the applicable PEX product shall govern.



APPROVED  
BY  
STATE FIRE MARSHAL'S OFFICE  
STATE OF MISSISSIPPI  
DATE 8/29/09

EXPANSION TANK AND SHUT-OFF VALVE LOCATIONS MAY BE SWITCHED IF ALLOWED PER MANUFACTURE'S INSTRUCTIONS AND LOCAL CODES.

**PRESSURE SYSTEM NOTES**

- COLD LINE
  - - - - - HOT LINE
  - ⊗ SHUT-OFF VALVE
  - ◻ MECHANICAL WATER HAMMER ARRESTOR
- ALL LINES 1/2" UNLESS NOTED  
SEE FITTING CHART FOR INDEX

**PIPE SUPPORT**

- VERTICAL PIPING SUPPORTS AT 10' O.C. MAX. OR BETWEEN FLOOR LEVELS.
- HORIZONTAL PIPING SUPPORTS AT 4' O.C. MAX., ENDS OF BRANCHES, AND AT CHANGES IN ELEVATION AND/OR DIRECTION.

THE FIXTURE PIPE SHALL BE EXTENDED TO WITHIN 12" OF THE POINT OF CONN. TO FIXTURE & BE WITHIN THE SAME AREA AND PHYSICAL SPACE AS THE POINT OF CONN. TO THE FIXTURE.

ALL TUBS, SHOWERS, AND TUB/SHWRS. TO BE TEMP. CONTROLLED (TEMP. SET 120 DEG. MAX.)

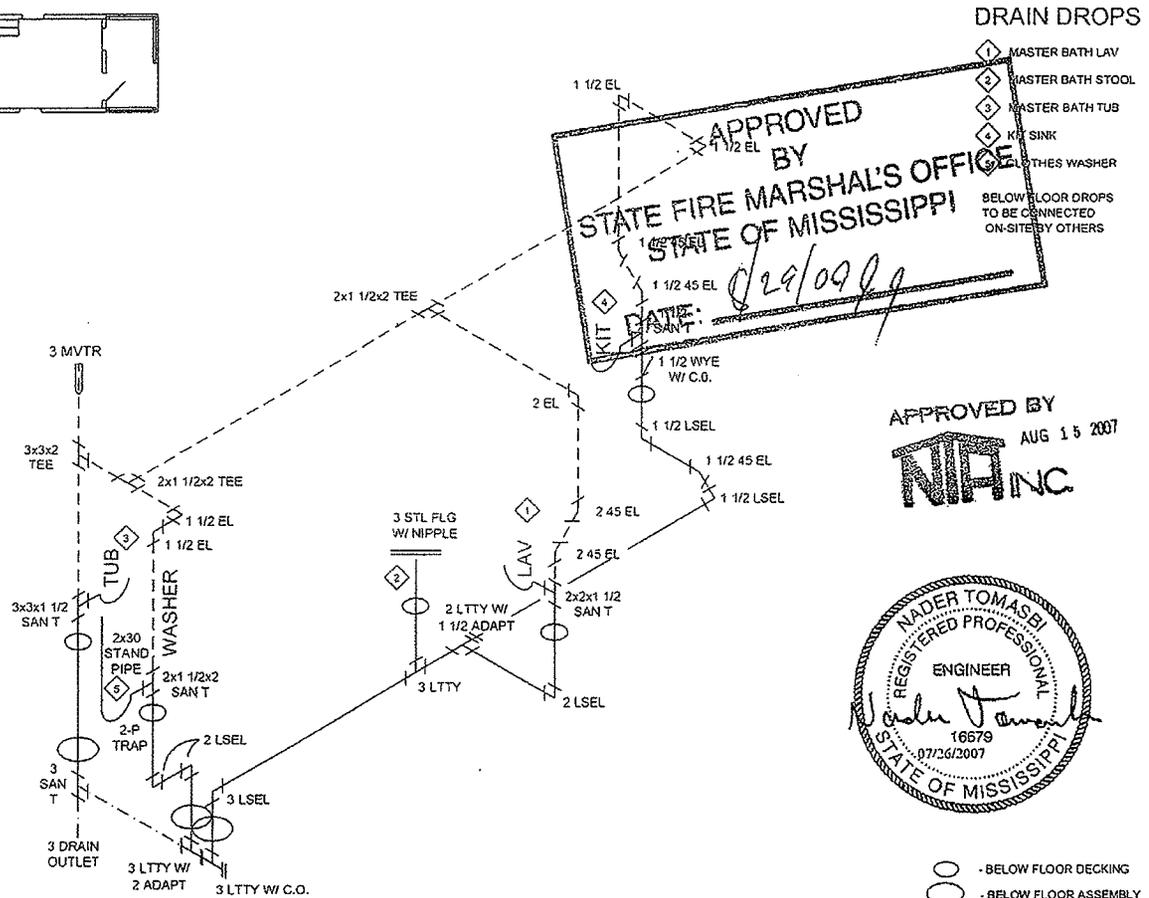
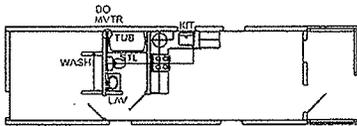
EXTERIOR WATER SPIGOT(S) TO BE FREEZELESS WITH VACUUM BREAK. LOCATION(S) MAY VARY.

PRESSURE SYSTEM PLUMBING TO BE PEX, CPVC OR EQUAL MATERIAL, APPROVED FOR FRESH WATER APPLICATIONS. ANY TRANSITIONS TO MATERIALS OTHER THAN THE SPECIFIED MATERIAL MUST INCORPORATE AN APPROVED FITTING FOR CONNECTION.

ALL BELOW FLOOR PLUMBING ILLUSTRATIONS ARE RECOMMENDATIONS ONLY. ON-SITE CONDITIONS AND/OR RESTRICTIONS MAY REQUIRE SOME MODIFICATIONS.

AUG 15 2007  
APPROVED BY  
NIA INC.

STMS012507 MS MODULAR	Title: Pressure System	design+tech+inc	Drawn By: .	Date: .	Model No. 1240	Pg. 4
			Revised By: .	Date: .		



APPROVED BY  
 STATE FIRE MARSHAL'S OFFICE  
 STATE OF MISSISSIPPI  
 DATE: 02/29/09

APPROVED BY  
 AUG 15 2007  
 NIA INC.



FOR CODES NOT ALLOWING AIR ADMITTANCE VALVES  
 SEE PAGE 6 FOR ADDITIONAL NOTES, SPECS, DETAILS, ETC.

STMS012507 MS MODULAR	Title: Drain Line		Drawn By: . Date: . Revised By: . Date: .	Model No. 1240	Pg. 5
--------------------------	-------------------	--	--	----------------	-------

APPROVED  
 BY  
 STATE FIRE MARSHAL'S OFFICE  
 STATE OF MISSISSIPPI  
 DATE: 8/29/09 JJA



APPROVED BY  
 AUG 15 2007  
 NIA INC.

**DRAIN SYSTEM NOTES**

- - BELOW FLOOR DECKING
- - BELOW FLOOR ASSEMBLY

ALL BELOW FLOOR PLUMBING BY OTHERS  
 ALL FITTINGS BELOW BOTTOM CAN BE SHIPPED LOOSE

ALL BELOW FLOOR PLUMBING ILLUSTRATIONS ARE RECOMMENDATIONS ONLY. ON-SITE CONDITIONS AND/OR RESTRICTIONS MAY REQUIRE SOME MODIFICATIONS.

OPT. GARBAGE DISPOSAL TO BE LOCATED ON KITCHEN SINK WASTE ASSEM.  
 ALL VENTS THRU ROOF TO BE 3", 12" MIN. ABOVE AND BELOW ROOF PENETRATION

ALL P-TRAPS TO BE 1 1/2 UNLESS NOTED  
 HORIZONTAL VENT SLOPE - 1/8" PER FOOT

HORIZONTAL DRAIN SLOPE - 1/4" PER FOOT

DRAIN, WASTE, AND VENT PLUMBING TO BE ABS PLASTIC, OR EQUAL, APPROVED FOR DWV APPLICATIONS.

ANY TRANSITIONS TO MATERIALS OTHER THAN THE SPECIFIED MATERIAL MUST INCORPORATE AN APPROVED FITTING FOR CONNECTION.

ALL PLUMBING TO MEET OR EXCEED CURRENT ADOPTED PLUMBING CODES

**NOTCHES OR HOLES IN STUDS.**

IN CONCEALED SPACES WHERE PIPING IS INSTALLED THROUGH HOLES OR NOTCHES IN STUDS LESS THAN 1 1/2" FROM EDGE FROM NEAREST EDGE OF THE MEMBER, THE PIPE SHALL BE PROTECTED BY SHIELD PLATES. PROTECTIVE SHIELD PLATES SHALL BE A MIN. OF 1/16" THICK STEEL. PLATES SHALL COVER AREA OF THE PIPE WHERE THE MEMBER IS NOTCHED OR BORED, AND SHALL EXTEND A MIN. OF 2" ABOVE SOLE PLATES AND BELOW TOP PLATES.

**HOLES IN JOISTS**

HOLES IN JOISTS, OR SIMILAR MEMBER MUST BE 2" MIN. FROM EDGE PER RCO & IRC 502.8 AND 502.7.1

**PIPE SUPPORT**

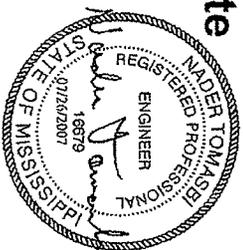
- VERTICAL PIPING — SUPPORTS AT 10' O.C. MAX. OR BETWEEN FLOOR LEVELS.
- HORIZONTAL PIPING — SUPPORTS AT 4' O.C. MAX., ENDS OF BRANCHES, AND AT CHANGES IN ELEVATION AND/OR DIRECTION.
- TRAP ARMS — SUPPORT LOCATED AS CLOSE TO TRAP AS POSSIBLE WHEN TRAP TO VENT EXCEEDS 3'.

SEE PAGE 5 FOR ADDITIONAL NOTES, SPECS., DETAILS, ETC.

APPROVED BY  
  
 AUG 15 2007  
 RTG INC



# REScheck Software Version 4.0.1 Compliance Certificate



Report Date: 04/19/07  
 Date filename: N:\MOD01 INDIANARESCHECKR-24 Wide\1240MS.rck

Energy Code: 2003 IECC  
 Location: Holly Springs (Marshall), Mississippi  
 Construction Type: Single Family  
 Glazing Area Percentage: 10%  
 Heating Degree Days: 3714

Construction Site:

Owner/Agent:

Designer/Contractor:

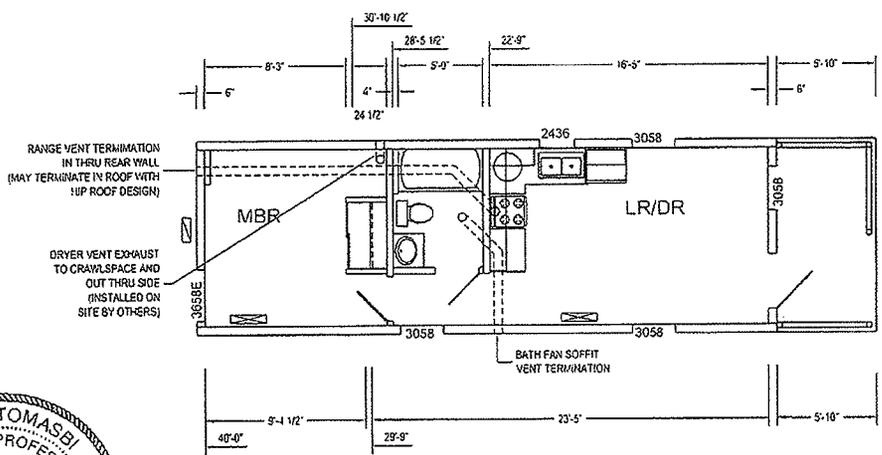
Compliance Passes: Maximum UA: 150, Air Home UA: 128, 147% Better Than Code (UA)

Assembly	Gross Area or Perimeter	Cavity R-Value	Cont. R-Value	Glazing or Door U-Factor	UA
Ceiling 1: Flat Ceiling or Scissor Truss:	387	30.0	0.0		14
Wall 1: Wood Frame, 16" o.c.:	728	19.0	0.0		38
Window 1: Metal Frame Double Pane with Low-E:	70			0.35	24.5
Door 1: Solid:	21			0.4	8.4
Furnace 1: All-Wood Joist/Truss/Over Unconditioned Space:	387	11.0	0.0		28
Air Conditioner 1: Electric Central Air: 13 SEER					

**Compliance Statement:** The proposed building design described here is consistent with the building plans, specifications, and other calculations submitted with the permit application. The proposed building has been designed to meet the 2003 IECC requirements in REScheck Version 4.0.1 and to comply with the mandatory requirements listed in the REScheck Inspection Checklist.

Name - Title \_\_\_\_\_ Signature \_\_\_\_\_ Date \_\_\_\_\_

APPROVED  
 BY  
 STATE FIRE MARSHAL'S OFFICE  
 STATE OF MISSISSIPPI  
 DATE: 8/29/09



APPROVED BY  
 NIA INC. AUG 15 2007

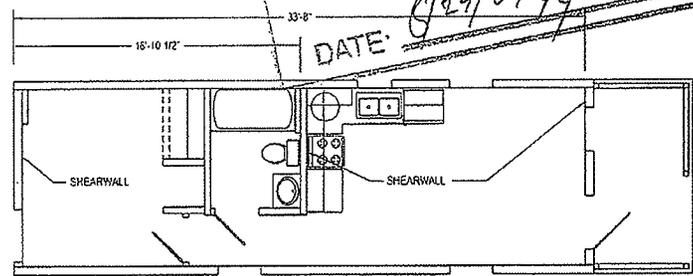
- OUTDOOR CONDENSING UNIT
- DUCTLESS INDOOR AC UNIT WITH ELECTRIC HEAT

<b>STMS012507</b> <small>MS MODULAR</small>	Title: <b>HVAC/Exhaust Fan Duct Plan</b>		Drawn By: . Date: . Revised By: . Date: .	Model No. <b>1240</b>	Pg. <b>8</b>
--	--	--	--	-----------------------	--------------

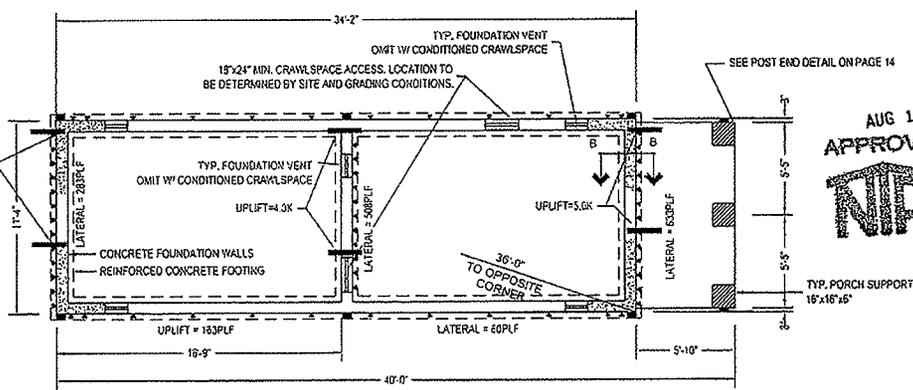
APPROVED  
BY  
STATE FIRE MARSHAL'S OFFICE  
STATE OF MISSISSIPPI  
DATE: 8/29/09



NOTES:  
FOUNDATION TO BE DESIGNED TO MEET THE NOTED LOADS  
FOUNDATION DESIGN & TIE DOWNS MUST BE APPROVED BY LOCAL  
LICENSE ENGINEER/ARCHITECT.



MAX. GROUND SNOW LOAD : 30 PSF  
MAX. WIND SPEED: 150 MPH  
WIND EXPOSURE: B  
MAX MEAN ROOF HEIGHT: 30'  
SEISMIC DESIGN CATEGORY: C  
FOUNDATION BASE ON  
2000 PSF SOIL



CRAWLSPACE VENTILATION REQUIRED: 2.68 SQ. FT.

- 3/8" X 1/4" X 1/2" W/ (13) 100 NAILS @ (8) X 2" TITAN
- SIMPSON LTP4 PLATE, FASTEN TO SILL PLATE AND RM4 JOIST W/ (6) 80x1 1/2" NAILS @ (6) PER EACH MEMBER

AUG 15 2007  
APPROVED BY  
NIA INC

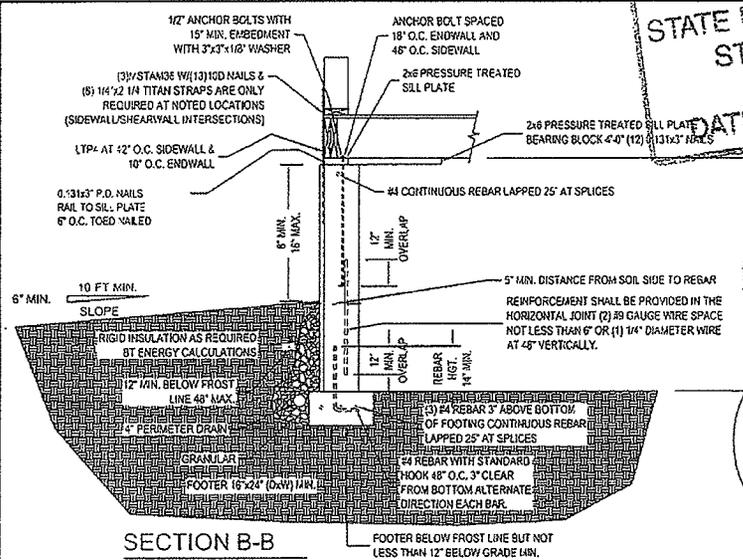
'OFF-FRAME' FOUNDATION NOTES:

- 1) FOUNDATION LAYOUT IS APPLICABLE TO NOTED MAXIMUM SNOW LOADING AND MINIMUM SOIL BEARING PRESSURE. REFER TO INSTALLATION INSTRUCTION MANUAL FOR OTHER APPLICABLE INFORMATION. CONSULT LOCAL OFFICIALS AND THE APPLICABLE LOCAL CODES FOR OTHER REQUIREMENTS (I.E. DRAINAGE, DAMP-PROOFING, BACKFILL SUPPORT, ETC.).
- 2) FOR DEVIATIONS AND/OR OTHER FOUNDATION DESIGNS CONSULT A LOCAL PROFESSIONAL ENGINEER AND YOUR LOCAL BUILDING OFFICIAL.
- 3) SILL PLATE FASTENING TO BE PER INSTALLATION INSTRUCTION AND/OR LOCAL CODES. SILL FASTENING REQUIREMENT IS PER APPLICABLE WIND SPEED AND SEISMIC ZONES. SEE YOUR HOME DATA PLATE FOR APPLICABLE ZONES.
- 4) CONCRETE COMPRESSIVE STRENGTH (FC): 3000 PSI.

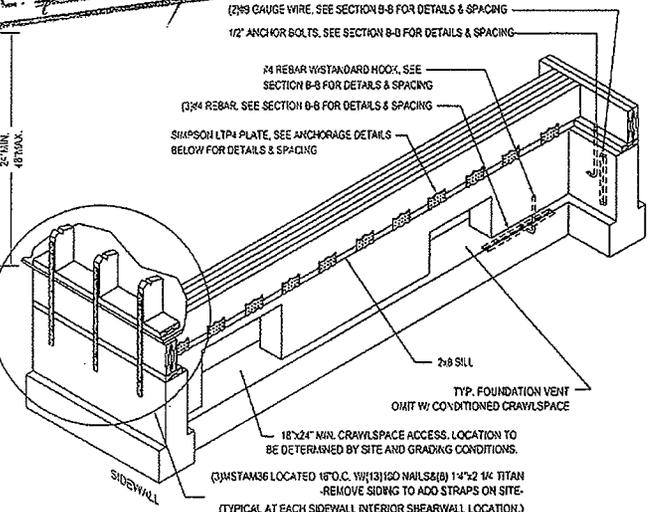
NOTE: SEE PAGE 9B  
FOR ADDITIONAL  
FOUNDATION INFORMATION

STMS012507 MS MODULAR	Title: Crawlspace Foundation (30psf)		Drawn By: .	Date: .	Model No. 1240	Pg. 9A
			Revised By: .	Date: .		

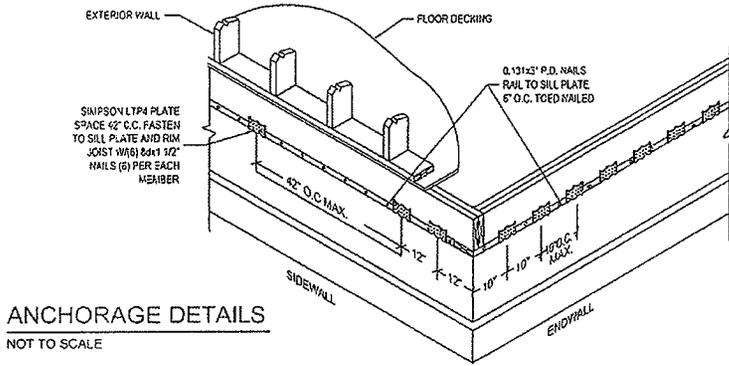
APPROVED  
BY  
STATE FIRE MARSHAL'S OFFICE  
STATE OF MISSISSIPPI  
DATE: 8/29/07



SECTION B-B



INTERIOR FOUNDATION SHEARWALL DETAIL  
NOT TO SCALE



ANCHORAGE DETAILS  
NOT TO SCALE



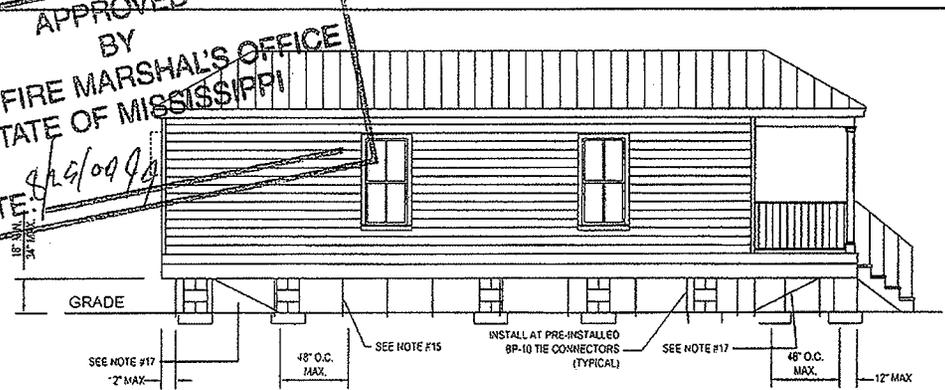
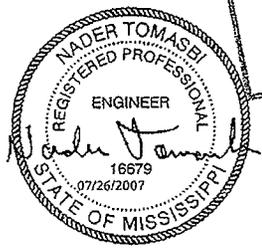
AUG 15 2007  
APPROVED BY  
**NIA** INC.

WIND SPEED 150 MPH  
SEISMIC DESIGN CATEGORY C  
SOIL CLASS: GW, GP, SW, AND SP.  
LATERAL SOIL LOAD: 30 PSF/FT  
MAX. HEIGHT: 4'-0"  
MAX. UNBALANCED FILL: 3'-4"

STMS012507 MS MODULAR	Title: Crawlspace Foundation (30psf)	design+tech+inc	Drawn By: . Date: . Revised By: . Date: .	Model No. 1240	Pg. 9B
--------------------------	---	-----------------	--	-------------------	-----------

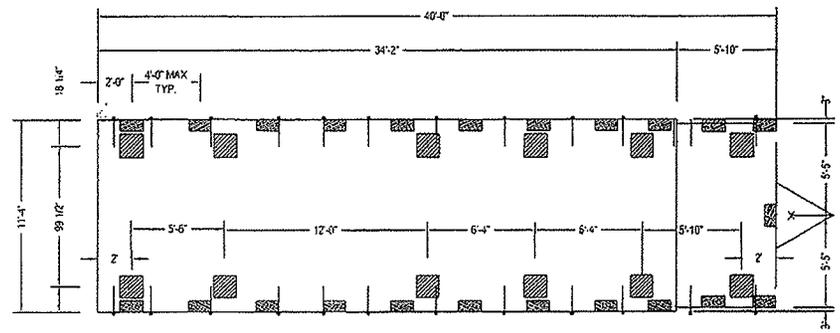
MAX. GROUND SNOW LOAD: 20 PSF  
 MAX. WIND SPEED: 150 MPH  
 WIND EXPOSURE: B  
 MAX MEAN ROOF HEIGHT: 36'  
 SEISMIC DESIGN CATEGORY: C

APPROVED  
 BY  
 STATE FIRE MARSHAL'S OFFICE  
 STATE OF MISSISSIPPI  
 DATE: 8/26/09



FOUNDATION BASE ON  
 800 PSF SOIL

ALL PERIMETER FOOTERS TO BE 16"x16"x6" CONCRETE OR EQUIVALENT RATED FOR 1100 lbs IN NOTED SOIL BEARING PRESSURE. (SEE NOTE #6).  
 ALL FRAME FOOTERS TO BE 24"x24"x6" OR EQUIVALENT RATED FOR 2467 lbs. IN NOTED SOIL BEARING PRESSURE.



\* NOTES PIER LOADS AT EACH LOCATION.  
 PERIMTER PIERS MAY ROTATED AS REQ.

ABS pads listed by independent testing agency may be used if the rated capacity is in excess of noted pier loads, properly approved for the site conditions and is acceptable to the Local Authority Having Jurisdiction"

'ON-FRAME STANDARD I-BEAM' FOUNDATION NOTES:

- 1) FOUNDATION LAYOUT IS APPLICABLE TO NOTED MAX. SNOW LOADING, WIND LOAD, SEISMIC CATEGORY & MIN. SOIL BEARING PRESSURE. REFER TO THE INSTALLATION INSTRUCTION MANUAL FOR OTHER APPLICABLE INFORMATION. CONSULT LOCAL OFFICIALS AND THE APPLICABLE LOCAL CODES FOR OTHER REQUIREMENTS (I.E. DRAINAGE, DAMP-PROOFING, BACKFILL SUPPORT, ETC.).
- 2) FOR DEVIATIONS &/OR OTHER FOUNDATION DESIGNS CONSULT A LOCAL PROFESSIONAL ENGINEER & YOUR LOCAL BUILDING OFFICIAL.
- 3) CONCRETE COMPRESSIVE STRENGTH (FC): 3000 PSI MINIMUM.
- 4) 6" CAST-IN-PLACE FOOTING WHEN SPECIFIED.
- 5) ALL FOOTINGS MUST BE 12" MIN. INTO NATURAL SOIL & MUST BE BELOW FROST LINE.
- 6) PERIMETER PIER SPACING MAY INCREASE TO 6'-0" O.C. W/ 24"x24"x6" FOOTING OR EQUIVALENT RATED FOR 2200 lbs.

NOTE: SEE PAGE 9D FOR ADDITIONAL FOUNDATION INFORMATION

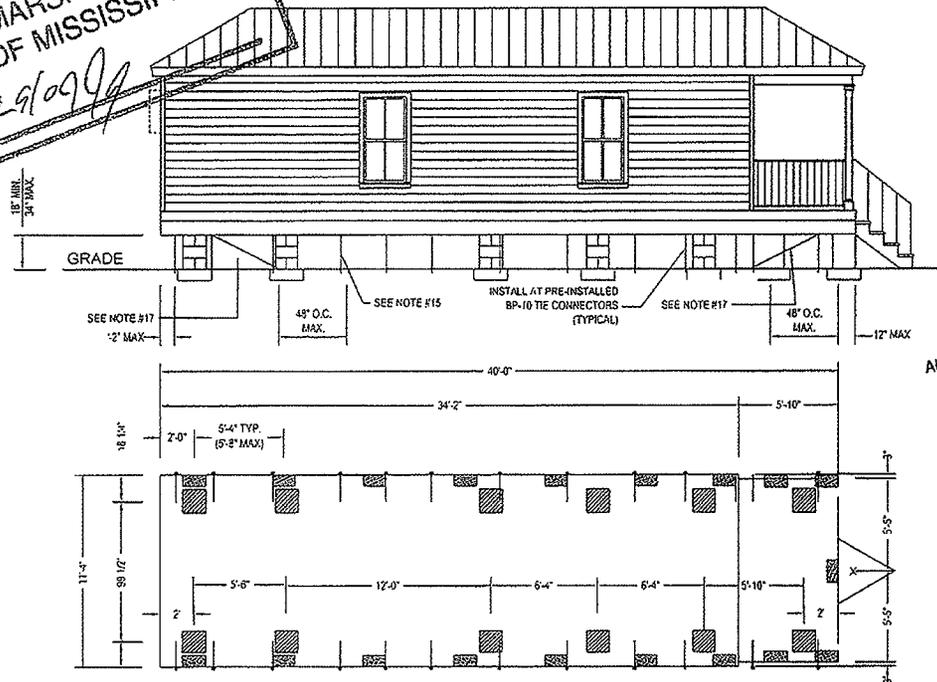
AUG 15 2009  
 APPROVED BY  
 NIA INC

STMS012507 MS MODULAR	Title: TEMP. FOUNDATION REQ		Drawn By: .	Date: .	Model No. 1240	Pg. 9C.1
			Revised By: .	Date: .		

MAX. GROUND SNOW LOAD : 20 PSF  
 MAX. WIND SPEED: 150 MPH  
 WIND EXPOSURE: B  
 MAX MEAN ROOF HEIGHT: 30'-0"  
 SEISMIC DESIGN CATEGORY: B



APPROVED BY  
 STATE FIRE MARSHAL'S OFFICE  
 STATE OF MISSISSIPPI  
 DATE: 8/29/09



AUG 15 2007  
 APPROVED BY  
 N/A INC

FOUNDATION BASE ON  
 1000 PSF SOIL

ALL PERIMETER FOOTERS TO BE 16"x16"x6" CONCRETE OR EQUIVALENT RATED FOR 1460 lbs IN NOTED SOIL BEARING PRESSURE. (SEE NOTE #6).  
 ALL FRAME FOOTERS TO BE 24"x24"x6" OR EQUIVALENT RATED FOR 2467 lbs. IN NOTED SOIL BEARING PRESSURE.

\* NOTES PIER LOADS AT EACH LOCATION. PERIMTER PIERS MAY ROTATED AS REQ.

ABS pads listed by independent testing agency may be used if the rated capacity is in excess of noted pier loads, properly approved for the site conditions and is acceptable to the Local Authority Having Jurisdiction"

**'ON-FRAME STANDARD I-BEAM' FOUNDATION NOTES:**

- 1) FOUNDATION LAYOUT IS APPLICABLE TO NOTED MAX. SNOW LOADING, WIND LOAD, SEISMIC CATEGORY & MIN. SOIL BEARING PRESSURE. REFER TO THE INSTALLATION INSTRUCTION MANUAL FOR OTHER APPLICABLE INFORMATION. CONSULT LOCAL OFFICIALS AND THE APPLICABLE LOCAL CODES FOR OTHER REQUIREMENTS (I.E. DRAINAGE, DAMP-PROOFING, BACKFILL SUPPORT, ETC.).
- 2) FOR DEVIATIONS &/OR OTHER FOUNDATION DESIGNS CONSULT A LOCAL PROFESSIONAL ENGINEER & YOUR LOCAL BUILDING OFFICIAL.
- 3) CONCRETE COMPRESSIVE STRENGTH (FC): 3000 PSI MINIMUM.
- 4) 6" CAST-IN-PLACE FOOTING WHEN SPECIFIED.
- 5) ALL FOOTINGS MUST BE 12" MIN. INTO NATURAL SOIL & MUST BE BELOW FROST LINE.
- 6) PERIMETER PIER SPACING MAY INCREASE TO 8'-0" O.C. W/ 24"x24"x6" FOOTING OR EQUIVALENT RATED FOR 2209 lbs.

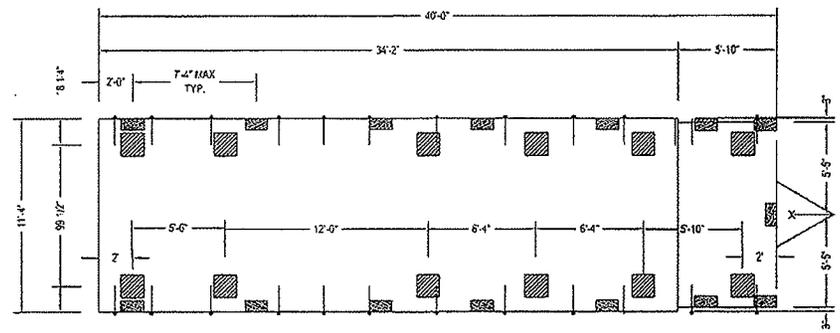
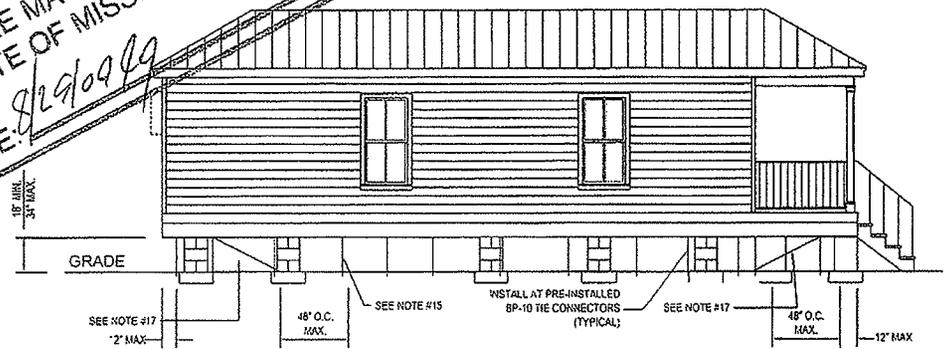
NOTE: SEE PAGE 9D FOR ADDITIONAL FOUNDATION INFORMATION

STMS012507 MS MODULAR	Title: TEMP. FOUNDATION REQ	dti design+tech+inc	Drawn By: .	Date: .	Model No. 1240	Pg. 9C.2
			Revised By: .	Date: .		

MAX. GROUND SNOW LOAD : 20 PSF  
 MAX. WIND SPEED: 150 MPH  
 WIND EXPOSURE: B  
 MAX MEAN ROOF HEIGHT: 30'  
 SEISMIC DESIGN CATEGORY: C



APPROVED BY  
 STATE FIRE MARSHAL'S OFFICE  
 STATE OF MISSISSIPPI  
 DATE: 8/29/07



FOUNDATION BASE ON  
 1200 PSF SOIL

ALL PERIMETER FOOTERS TO BE 16"x16"x6" CONCRETE OR EQUIVALENT RATED FOR 1810 lbs IN NOTED SOIL BEARING PRESSURE. (SEE NOTE #6).  
 ALL FRAME FOOTERS TO BE 24"x24"x6" OR EQUIVALENT RATED FOR 2467 lbs. IN NOTED SOIL BEARING PRESSURE.

\* NOTES PIER LOADS AT EACH LOCATION.  
 PERIMTER PIERS MAY ROTATED AS REQ.

ABS pads listed by independent testing agency may be used if the rated capacity is in excess of noted pier loads, properly approved for the site conditions and is acceptable to the Local Authority Having Jurisdiction"

- 'ON-FRAME STANDARD I-BEAM' FOUNDATION NOTES:**
- 1) FOUNDATION LAYOUT IS APPLICABLE TO NOTED MAX. SNOW LOADING, WIND LOAD, SEISMIC CATEGORY & MIN. SOIL BEARING PRESSURE. REFER TO THE INSTALLATION INSTRUCTION MANUAL FOR OTHER APPLICABLE INFORMATION. CONSULT LOCAL OFFICIALS AND THE APPLICABLE LOCAL CODES FOR OTHER REQUIREMENTS (I.E. DRAINAGE, DAMP-PROOFING, BACKFILL SUPPORT, ETC.).
  - 2) FOR DEVIATIONS &/OR OTHER FOUNDATION DESIGNS CONSULT A LOCAL PROFESSIONAL ENGINEER & YOUR LOCAL BUILDING OFFICIAL.
  - 3) CONCRETE COMPRESSIVE STRENGTH (FC): 3000 PSI MINIMUM.
  - 4) 6" CAST-IN-PLACE FOOTING WHEN SPECIFIED.
  - 5) ALL FOOTINGS MUST BE 12" MIN. INTO NATURAL SOIL & MUST BE BELOW FROST LINE.
  - 6) PERIMETER PIER SPACING MAY INCREASE TO 10'-0" O.C. W/ 24"x24"x6" FOOTING OR EQUIVALENT RATED FOR 2470 lbs.

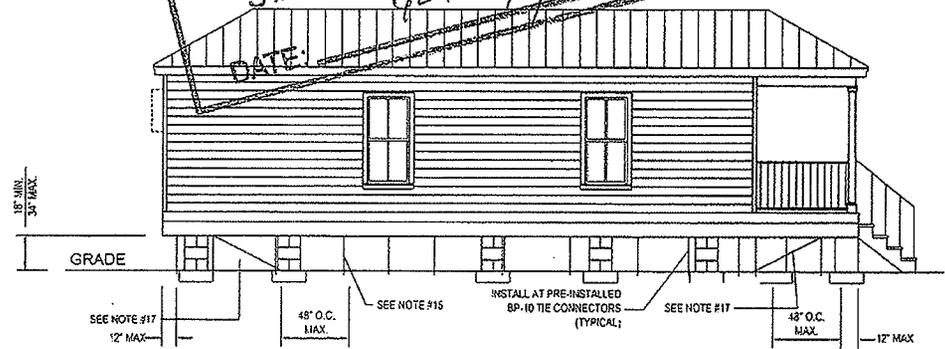
NOTE: SEE PAGE 9D FOR ADDITIONAL FOUNDATION INFORMATION

AUG 15 2007  
 APPROVED BY  
 NIA INC.

STMS012507 MS MODULE	Title: TEMP. FOUNDATION REQ		Drawn By: .	Date: .	Model No. 1240	Pg. 9C.3
			Revised By: .	Date: .		

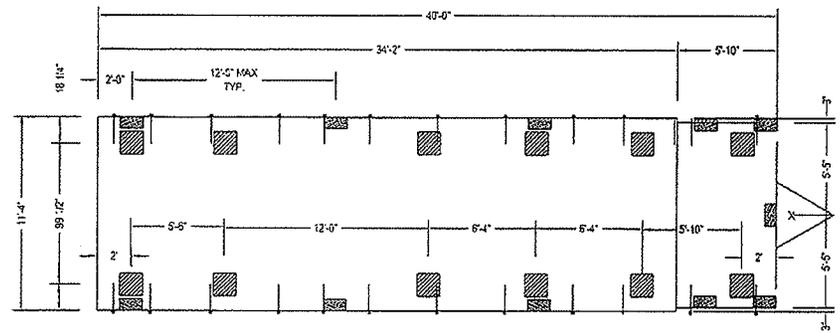
APPROVED  
BY  
STATE FIRE MARSHAL'S OFFICE  
STATE OF MISSISSIPPI  
DATE: 8/29/07

MAX. GROUND SNOW LOAD : 20 PSF  
MAX. WIND SPEED: 150 MPH  
WIND EXPOSURE: B  
MAX MEAN ROOF HEIGHT: 30'  
SEISMIC DESIGN CATEGORY: C



FOUNDATION BASE ON  
2000 PSF SOIL

ALL PERIMETER FOOTERS TO BE 16"x16"x6"  
CONCRETE OR EQUIVALENT RATED FOR  
3280 lbs IN NOTED SOIL BEARING  
PRESSURE. ALL FRAME FOOTERS TO BE  
24"x24"x6" OR EQUIVALENT RATED FOR  
2467 lbs. IN NOTED SOIL BEARING  
PRESSURE.



AUG 15 2007  
APPROVED BY  
NIA INC

\* NOTES PIER LOADS AT EACH LOCATION.  
PERIMTER PIERS MAY ROTATED AS REQ.

ABS pads listed by independent testing agency  
may be used if the rated capacity is in excess of  
noted pier loads, properly approved for the site  
conditions and is acceptable to the Local  
Authority Having Jurisdiction"

- 'ON-FRAME STANDARD I-BEAM' FOUNDATION NOTES:
- 1) FOUNDATION LAYOUT IS APPLICABLE TO NOTED MAX. SNOW LOADING, WIND LOAD, SEISMIC CATEGORY & MIN. SOIL BEARING PRESSURE. REFER TO THE INSTALLATION INSTRUCTION MANUAL FOR OTHER APPLICABLE INFORMATION. CONSULT LOCAL OFFICIALS AND THE APPLICABLE LOCAL CODES FOR OTHER REQUIREMENTS (I.E. DRAINAGE, DAMP-PROOFING, BACKFILL SUPPORT, ETC.).
  - 2) FOR DEVIATIONS &/OR OTHER FOUNDATION DESIGNS CONSULT A LOCAL PROFESSIONAL ENGINEER & YOUR LOCAL BUILDING OFFICIAL.
  - 3) CONCRETE COMPRESSIVE STRENGTH (FC): 3000 PSI MINIMUM.
  - 4) 6" CAST-IN-PLACE FOOTING WHEN SPECIFIED.
  - 5) ALL FOOTINGS MUST BE 12" MIN. INTO NATURAL SOIL & MUST BE BELOW FROST LINE.

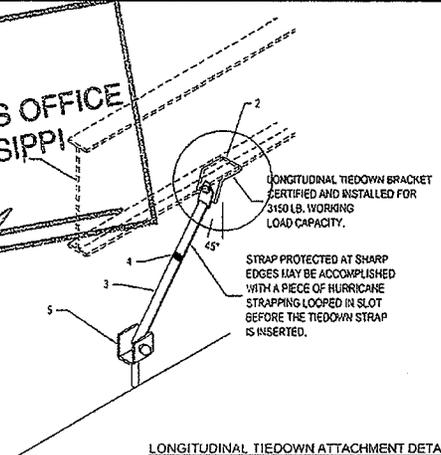
NOTE: SEE PAGE 9D FOR ADDITIONAL  
FOUNDATION INFORMATION

STMS012507 MS HOLOGRAM	Title: TEMP. FOUNDATION REQ	design+tech+inc	Drawn By: .	Date: .	Model No. 1240	Pg. 9C.4
			Revised By: .	Date: .		

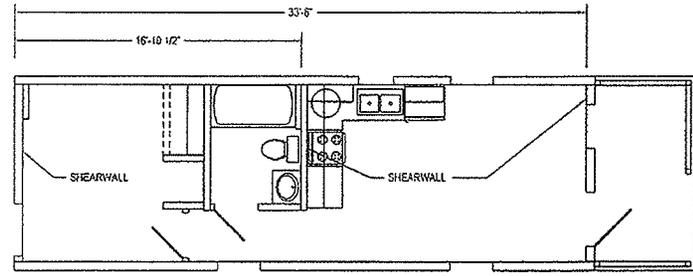
NOTES:

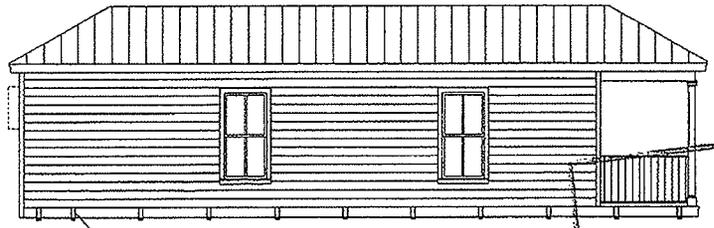
1. ALL ORGANIC AND DECAYABLE MATERIAL, SUCH AS GRASS, ROOTS, SCRAP WOOD MUST BE REMOVED BELOW THE HOME.
2. THE SITE SHALL BE PROPERLY GRADED TO PERMIT WATER TO DRAIN AWAY FROM THE HOME.
3. 6-MIL POLYETHYLENE SHEETING VAPOR BARRIER MUST BE INSTALLED COVERING THE ENTIRE AREA BENEATH THE HOME. THE SHEETING SHALL OVERLAP AT LEAST 6" AT ALL JOINTS.
4. THE FOOTINGS MUST BE PRE-CAST OR POUR-IN-PLACE CONCRETE AT LEAST 12" THICK OR DESIGNED BY A REGISTERED ENGINEER FOR THE LOCAL SOIL CONDITIONS.
5. PIERS TO BE DOUBLE 8"x16" BLOCK, MORTAR OR EXTERIOR STRUCTURAL COATING WHEN REQUIRED BY LOCAL OFFICIALS / CODES.
6. THE PIER SHALL BE CAPPED WITH 2" MAXIMUM HIGH CONCRETE OR WOOD CAP BLOCKS AND 4"x8" HARDWOOD SHIMS TO LEVEL THE HOME. THE SHIMS SHALL COVER THE ENTIRE WIDTH OF THE CAP BLOCKS AND USED IN PAIRS AND SET TIGHTLY SO THEY DO NOT OCCUPY MORE THAN ONE INCH OF VERTICAL SPACE.
7. THE PIER SHALL BE SPACED A MAXIMUM OF 2 FEET FROM EACH END OF HOME AND A MAXIMUM OF 8 FEET ON CENTER.
8. ADDITIONAL PIERS SHALL BE LOCATED UNDER THE POSTS.
9. THE ANCHOR STRAP SHALL BE A MINIMUM TYPE 1, FINISH B, GRADE ONE STEEL STRAPPING, 1 1/4" WIDE AND 0.035 INCHES THICK CERTIFIED BY A REGISTERED ENGINEER CONFORMING WITH ASTM STANDARD D3953.91.
10. THE GROUND ANCHORS MUST HAVE A MINIMUM DESIGN CAPACITY FOR THE SOILS INTENDED OF 3150# CERTIFIED BY A REGISTERED ENGINEER.
11. THE GROUND ANCHORS MUST BE INSTALLED PER THE MANUFACTURERS INSTALLATION REQUIREMENTS.
12. THE TIE-DOWN STRAPS MUST BE PRE-TENSIONED PER THE MANUFACTURERS INSTALLATION INSTRUCTIONS.
13. ALL GROUND ANCHORS MUST BE LOCATED 12" ABOVE THE WATER TABLE.
14. ALL GROUND ANCHORS MUST BE INSTALLED BELOW THE FROST LINE.
15. VERTICAL AND DIAGONAL TIES 12" FROM PORCH END AND 4'-0" O.C. AND IN LINE WITH DIAGONAL TIES.
16. ADDITIONAL VERTICAL TIES SHALL BE LOCATED AT INTERIOR SHEARWALL LOCATIONS.
17. LONGITUDINAL TIES AT EACH I-BEAM EACH END.

APPROVED  
BY  
STATE FIRE MARSHAL'S OFFICE  
STATE OF MISSISSIPPI  
DATE: 8/29/09 JJA



APPROVED BY  
AUG 15 2007  
NIA INC





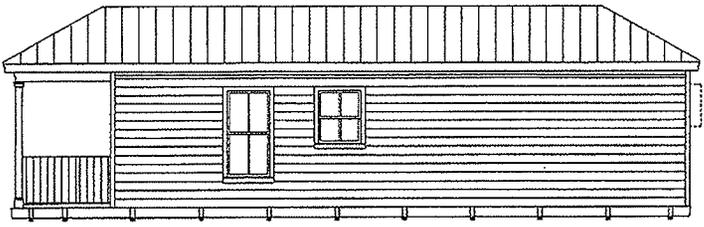
LEFT ELEVATION

INSTALL BP-10 TIE CONNECTOR BY BUILDING TECHNOLOGIES  
 (FASTEN TO BOTTOM PLATE WITH #9x3" SCREWS) OR  
 16 GA. RIM JOIST BRACKET BY MASTERCRAFT  
 FASTEN TO RIM JOIST 131x1 1/2" NAILS OR  
 (5#5x1 1/2" SCREWS) OR EQUIVALENT 48" O.C.

48" TYP.

APPROVED  
 BY  
 STATE FIRE MARSHAL'S OFFICE  
 STATE OF MISSISSIPPI  
 DATE: 8/29/09 *lg*

- NOTE:  
 1. MAY USE ANY OTHER EQUIVALENT METHODS FOR VERTICAL STRAPS.  
 2. CONNECTORS SHOWN ARE ONLY FOR TEMPORARY INSTALLS AND  
 MUST BE REMOVED FOR PERMANENT SET UP.



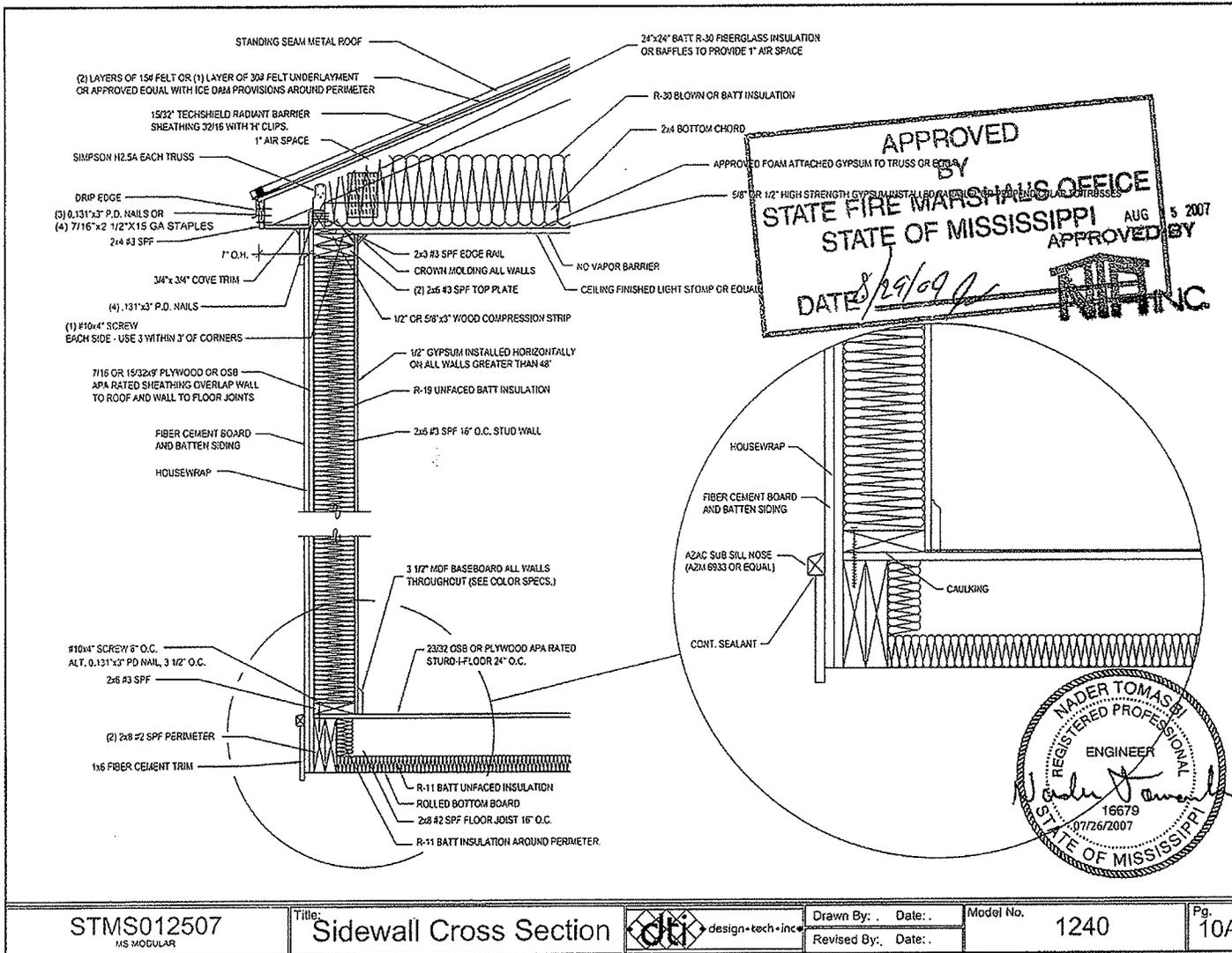
RIGHT ELEVATION

TEMPORARY



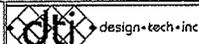
AUG 15 2007  
 APPROVED BY  
 NIA INC.

STMS012507 MS MODULAR	Title: Temporary Foundation Tie down Strapping		Drawn By: . Date: .	Model No. 1240	Pg. 9E
			Revised By: . Date: .		



STMS012507  
MS MODULAR

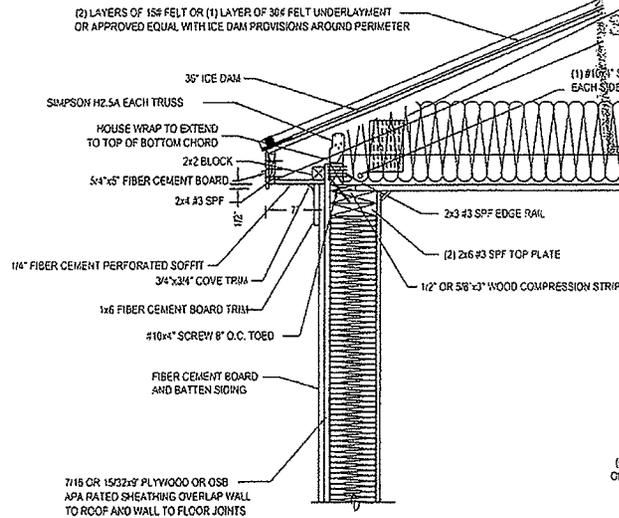
Title: Sidewall Cross Section



Drawn By: . Date: .  
Revised By: . Date: .

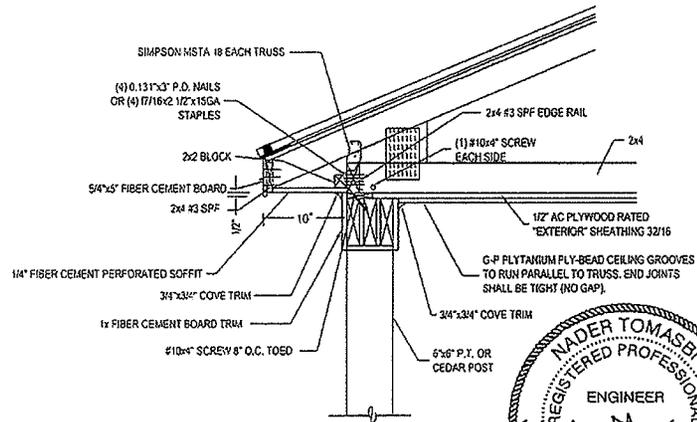
Model No. 1240

Pg. 10A



STANDARD SIDEWALL OVERHANG

NOT TO SCALE



PORCH SIDEWALL OVERHANG

NOT TO SCALE

APPROVED  
 24\"/>

STATE FIRE MARSHAL'S OFFICE  
 STATE OF MISSISSIPPI  
 APPROVED BY  
 DATE: 8/26/09  
 APPROVED BY  
 NIA INC AUG 15 2007

NADER TOMASEI  
 REGISTERED PROFESSIONAL  
 ENGINEER  
 10679  
 07/26/2007  
 STATE OF MISSISSIPPI

3x6 MAX. WINDOW SIZE x 54.2 PSF=975.2#  
 SCREWS: 82x1.6x1" PENT. = 131#  
 975.2/13=7.4 OR 8 SCREWS.

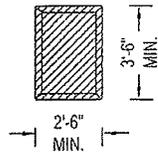
PERIMETER OF SMALLEST WINDOW (2+3)x2x12-120"

120/8=15' O.C.

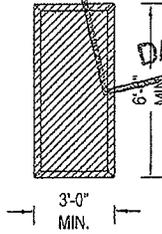
APPROVED BY  
 STATE FIRE MARSHAL'S OFFICE  
 STATE OF MISSISSIPPI  
 DATE: 8/29/09 *JJ*

HOMES INSTALLED IN WIND-DEBRIS REGIONS MUST HAVE PROVISIONS TO PROTECT THE EXTERIOR GLAZING IN WINDOWS AND DOOR. LOCAL OFFICIAL MUST BE CONSULTED TO DETERMINE IF YOUR SPECIFIC AREA IS LOCATED IN WIND-DEBRIS REGIONS. THE PROTECTION FOR EXTERIOR GLAZING MAY BE PROVIDED.

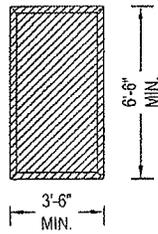
A 7/16" MINIMUM APA RATE SHEATHING SHALL MUST BE PROVIDED. SHEATHING SHALL BE PRECUT SO THEY SHALL BE ATTACHED TO THE FRAMING SURROUNDING THE OPENING CONTAINING THE PRODUCT WITH THE GLAZED OPENING. PANEL SHALL BE PREDRILLED AS REQUIRED FOR THE FASTENING AND ALL REQUIRED HARDWARE SHALL BE PROVIDED.



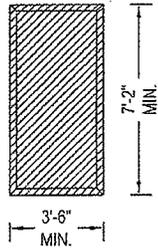
**KITCHEN WINDOW**  
 1-REQ.  
 1x3 EDGES FRAMING SQUARE OR 45° CUT WITH 7/16" OSB COVERING MINIMUM



**LIVING & DINING ROOM WINDOW**  
 4-REQ.  
 1x3 EDGES FRAMING SQUARE OR 45° CUT WITH 7/16" OSB COVERING MINIMUM



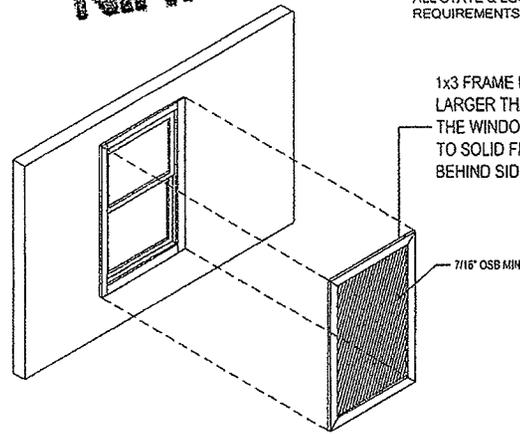
**BEDROOM WINDOW**  
 1-REQ.  
 1x3 EDGES FRAMING SQUARE OR 45° CUT WITH 7/16" OSB COVERING MINIMUM



**OPTIONAL FRONT DOOR**  
 1-REQ.  
 1x3 EDGES FRAMING SQUARE OR 45° CUT WITH 7/16" OSB COVERING MINIMUM

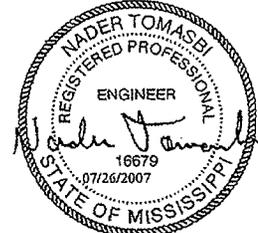
APPROVED BY  
 NIA INC AUG 15 2007

NOTE:  
 PRE-ENGINEERED WINDOW/DOOR PROTECTORS MAY BE INSTALL ON-SITE BY OTHERS. (MUST MEET ALL STATE & LOCAL CODE REQUIREMENTS)



WIND BORNE DEBRIS PROTECTION DETAIL

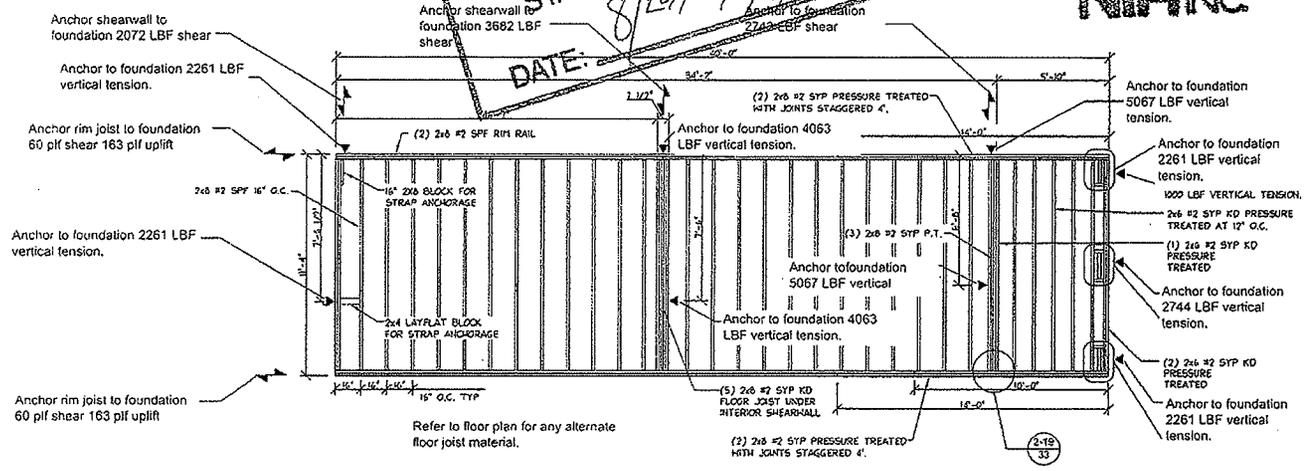
USE #8 SCREWS (1" MIN. PENETRATION INTO RECEIVING MEMBER) 15' O.C. MAX.



STMS012507 MS MODULAR	Title: Ship Loose Window Protectors		Drawn By: . Date: .	Model No. 1240	Pg. 11
			Revised By: . Date: .		

APPROVED  
BY  
STATE FIRE MARSHAL'S OFFICE  
STATE OF MISSISSIPPI  
DATE: 8/29/09

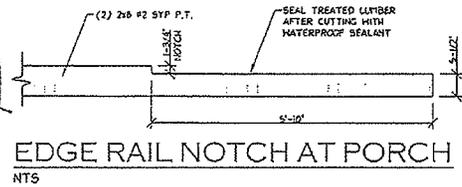
APPROVED BY  
AUG 15 2007  
NIA INC



- FRAMING NOTES:**
- PERIMETER RAIL TO TRANSVERSE JOIST (B) 18x3" P.D. NAILS.
  - PERIMETER SPLICE 4x4x20 GA CONNECTOR EACH SIDE OR EQUAL.
  - RIM RAIL MEMBERS FASTENED TOGETHER WITH 18x3" P.D. NAILS 2 ROWS 1' O.C. STAGGERED.
  - 2x3/2 OSB OR PL14000 APA RATED STURD-I-FLOOR 24' O.C. DECKING TO JOIST 7/16x1-3/4x15 GA STAPLE OR .099x2" P.D. NAILS 4' O.C. EDGE 9' O.C. FIELD WITH 1002 ADHESIVE.
  - ADHESIVE REQUIRED ON TIC AND PERIMETER RAILS.
  - COMPOSITE DECK BOARD TO JOIST (2) 6x2" PER JOIST (COMPOSITE DECK BOARD TO BE INSTALLED PER MANUFACTURERS INSTRUCTIONS).
  - BOTTOM BOARD (17/8" SHEPHARD MOBILE FLEX OR EQUAL) FASTENED WITH 1 1/2x4"x16 GA STAPLES 4' O.C.
  - ALL FASTENERS AND CONNECTOR PLATES INTO TREATED LUMBER MUST BE STAINLESS STEEL OR GALVANIZED STEEL APPROVED FOR TREATED LUMBER.
  - BOTTOM BOARD AND INSULATION NOT INSTALLED IN PORCH AREA.
  - MULTIPLE JOIST FASTENED TOGETHER WITH (2) ROWS OF 18x3" P.D. NAILS OR 7/8"x12 1/2"x15GA. STAPLES 6' O.C. WITH 1002 ADHESIVE.
  - NOTCHES IN JOIST TO BE PER IRC R502.6

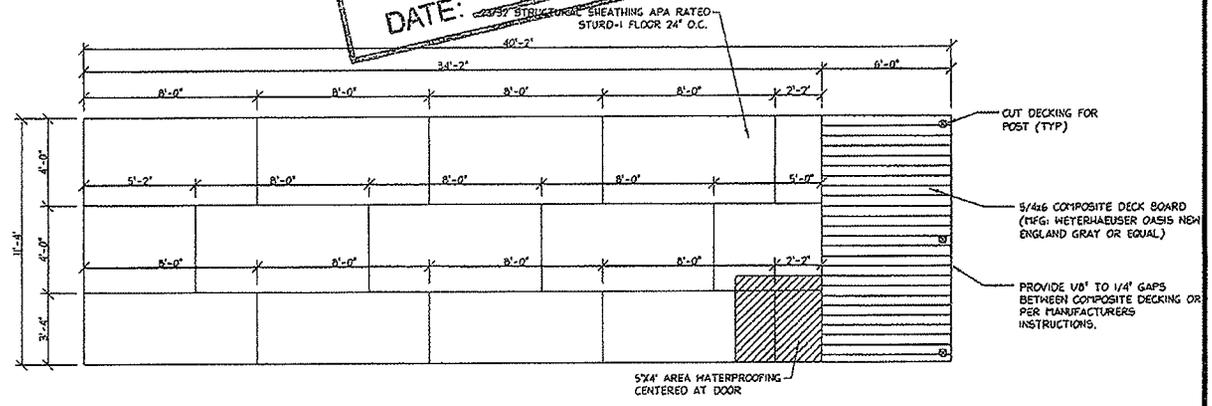


**FLOOR FRAMING**  
SCALE: 3/16"=1'-0"



Harrison County - Provide that wood joists or the bottom of a wood structural floor when closer than 18" or wood gridders when closer than 12" to the exposed ground in crawl spaces or unexcavated area located within the periphery of the building foundation shall be treated.

APPROVED  
 BY  
 STATE FIRE MARSHAL'S OFFICE  
 STATE OF MISSISSIPPI  
 DATE: 8/29/09



FLOOR DECKING

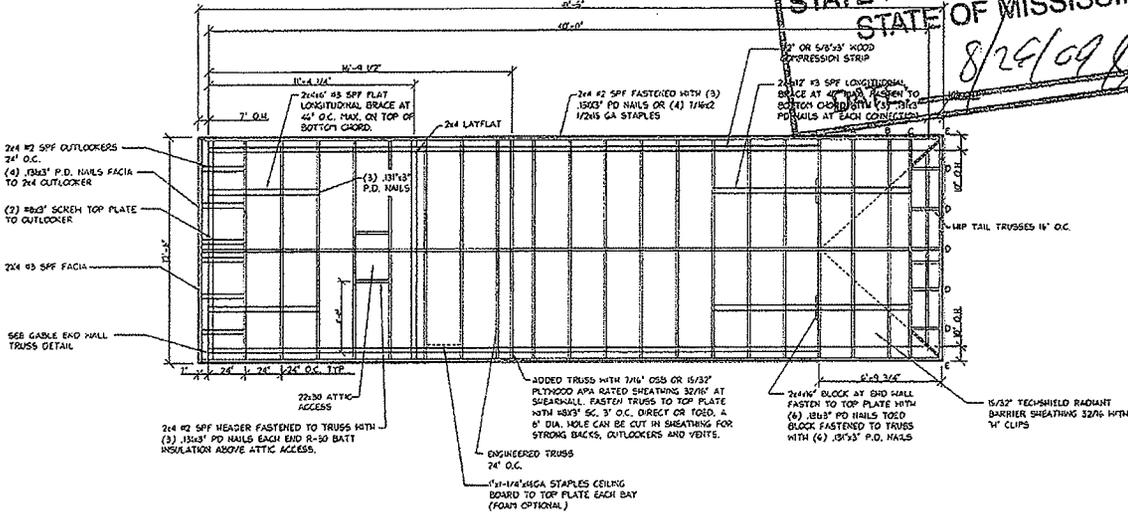
- FRAMING NOTES:
1. PERIMETER RAIL TO TRANSVERSE JOIST (8) J31x3" P.D. NAILS.
  2. PERIMETER SPLICE 4x4x20 GA CONNECTOR EACH SIDE OR EQUAL.
  3. DOUBLE JOIST J31x3" P.D. NAILS 2 ROWS 1" O.C. STAGGERED.
  4. 2x3/2 OSB OR PLYWOOD APA RATED STURD-I-FLOOR 24" O.C. DECKING TO JOIST 7/16x1-3/4x15 GA STAPLE OR .09x2" P.D. NAILS 4" O.C. EDGE 8" O.C. FIELD WITH 100% ADHESIVE.
  5. ADHESIVE REQUIRED ON T&G AND PERIMETER RAILS.
  6. COMPOSITE DECK BOARD TO JOIST (2) #8x2" SCREWS PER JOIST (COMPOSITE DECK BOARD TO BE INSTALLED PER MANUFACTURERS INSTRUCTIONS).
  7. BOTTOM BOARD (MFG. SHEPARD MOBILEFLEX OR EQUAL) FASTENED WITH 1-3/4"x1/8 GA STAPLES 4" O.C.
  8. ALL FASTENERS AND CONNECTORS INTO TREATED LUMBER MUST BE STAINLESS STEEL OR GALVANIZED STEEL APPROVED FOR TREATED LUMBER.
  9. BOTTOM BOARD AND INSULATION NOT INSTALLED IN PORCH AREA.
  10. MULTIPLE JOIST FASTENED TOGETHER WITH (2) ROWS OF J31"x3" P.D. NAILS, OR 7/16"x2 1/2"x15GA, STAPLES 6" O.C. WITH 100% ADHESIVE.
  11. ALL DECKING SEAMS MUST BE SANDED UNDER LINOLEUM OR TILE



APPROVED BY  
 NIA INC. AUG 15 2007



APPROVED  
 BY  
 STATE FIRE MARSHAL'S OFFICE  
 STATE OF MISSISSIPPI  
 8/24/09 *lg*



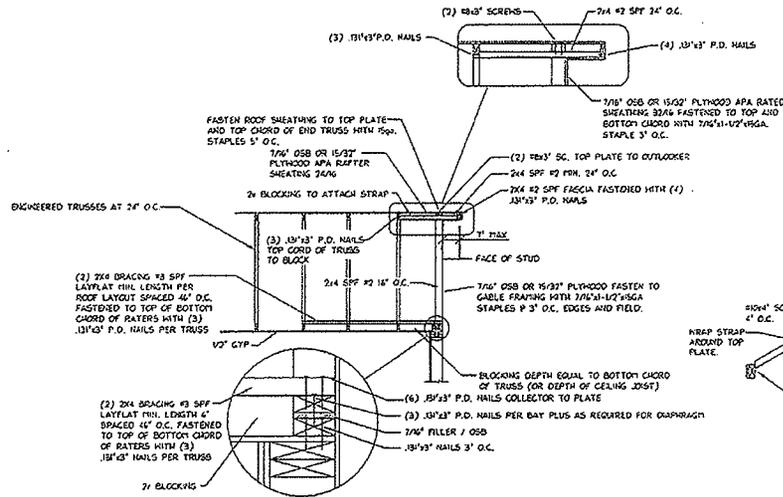
AUG 15 2007  
 APPROVED BY  
**NIA INC.**

**ROOF FRAMING - PARK MODEL 1A ELEVATION A**

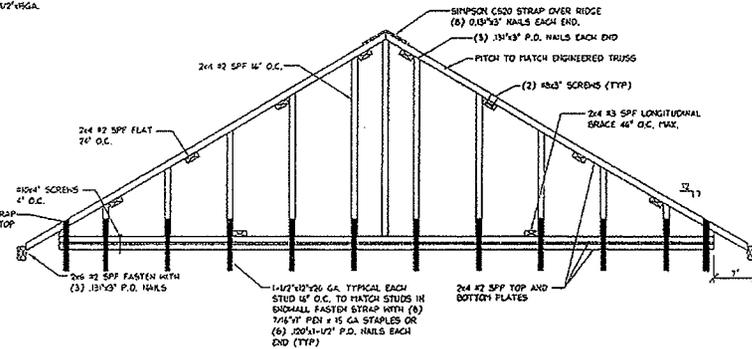
1. 7/16\"/>
2. 7/16\"/>
3. 1/2\"/>



APPROVED  
BY  
STATE FIRE MARSHAL'S OFFICE  
STATE OF MISSISSIPPI  
DATE: 8/29/07

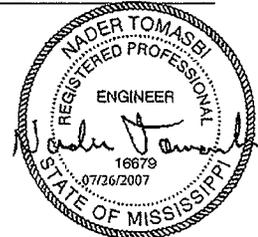


GABLE END BLOCKING AND BRACING DETAIL (REAR END DETAIL)  
SCALE: NONE



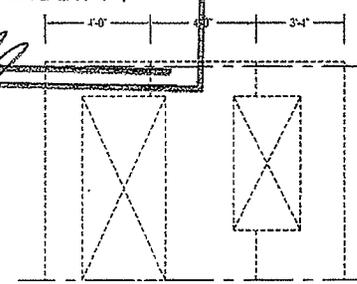
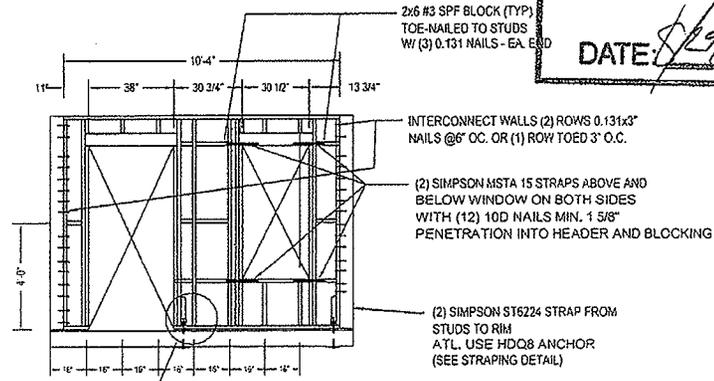
GABLE END WALL TRUSS FRONT VIEW  
SCALE: NONE

AUG 15 2007  
APPROVED BY  
NIA INC



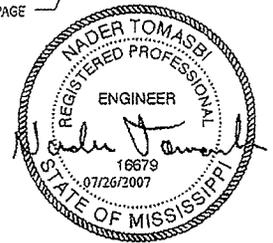
APPROVED  
BY  
STATE FIRE MARSHAL'S OFFICE  
STATE OF MISSISSIPPI

DATE: *8/29/07*

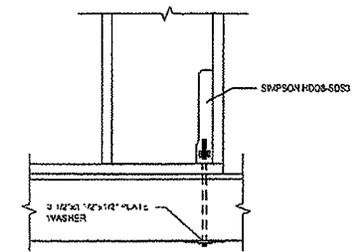


7/16" APA RATED SHEATHING WITH STUDS AT 16" O.C. OR 15/32" APA RATED SHEATHING ON BOTH FACES, WITH .131x3" NAILS AT 4" O.C. EDGE AND 6" O.C. FIELD, 15GA STAPLES 3" O.C. PANEL FORCE 633 PLF.

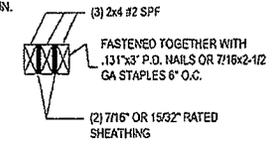
SEE TIE DOWN DETAIL THIS PAGE



- WALL FRAMING NOTES:**
1. FASTEN BOTTOM PLATE TO JOIST WITH .131x3" NAILS OR #8x3" SCREWS AT 3" O.C. (16 PER BAY)
  2. FASTEN 1/2" DRYWALL TO STUDS WITH #6 X 1 1/4" DRY WALL SCREWS OR 1 5/8" DRYWALL NAILS 8" O.C. EDGES 16" O.C. FIELD WITH 80% ADHESIVE
  3. FASTEN TOP AND BOTTOM PLATES TO STUDS WITH (3) .131x3" P.D. NAILS OR (4) 7/16 X 2 1/2 X 15 GAUGE STAPLES
  4. FASTEN DOUBLE TOP PLATES WITH 0.131 X 3" P.D. NAILS 6" O.C. OR 7/16 X 2 1/2 X 15 GAUGE STAPLES 4" O.C.
  5. FASTENING OF SHEATHING TO PERIMETER FLOOR JOIST AND ROOF EDGE RAIL 7/16 X 1 1/2 X 15 GAUGE STAPLES 3" O.C.
  6. FASTEN SHEATHING TO ENDWALLS AND WITHIN 4" OF CORNER ON SIDE WALLS WITH 7/16 X 2 1/2 X 15 GAUGE STAPLES 3" O.C. EDGE, 6" O.C. FIELD MIN.
  7. HEADERS AND SILLS FASTEN TO STUD WITH (5) .131x3" P.D. NAILS OR (7) 7/16 X 2 1/2 X 15 GAUGE STAPLES EACH AND EACH MEMBER.
  8. MULTIPLE STUDS FASTEN ON TOGETHER WITH .131 X 3" P.D. NAILS OR 7/16 X 2 1/2 X 15 GAUGE STAPLE 2" O.C.
  9. WALL TO WALLS FASTENED TOGETHER WITH .131 X 3" P.D. NAILS OR #8 X 3" SC. 10" O.C.
  10. STRAP EACH STUD TO RIM JOIST AT DOORS AND WINDOWS WITH 1 1/2 X 12" X 26 GAUGE, STRAP FASTENERS WITH (8) 7/16 X 1 PEN X 15 GA STAPLES OR (8) .120 X 1 1/2 P.D. NAIL EACH END.
  11. HOUSE WRAP INSTALLED PER MANUFACTURERS INSTRUCTIONS.
  12. EXTERIOR SIDING INSTALLED PER MANUFACTURERS INSTRUCTIONS FOR HIGH WIND
  13. WINDOWS INSTALLED PER MANUFACTURERS INSTRUCTIONS FOR DP RATING 52.5 MIN.
  14. SPLICE BOTTOM PLATE AND LOWER TOP PLATE 3X5X20 GAUGE CONNECTOR PLATE EACH SIDE OR 12" 2x6 BLOCK.
  15. FASTEN ENDWALL TO SIDEWALL TOP PLATES WITH 3"x6"x.035 PLATE WITH (4) .13x3" NAILS EACH SIDE EQUAL.



ALTERNATIVE  
TIE DOWN DETAIL  
SCALE: NONE



HEADER SECTION  
SCALE: NONE

AUG 15 2007  
APPROVED BY  
**NIA INC**

STMS012507 <small>MS MODULAR</small>	Title: <b>Front Shearwall</b>		Drawn By: . Date: . Revised By: . Date: .	Model No. <b>1240</b>	Pg. <b>13A</b>
---	-------------------------------	--	--	--------------------------	-------------------

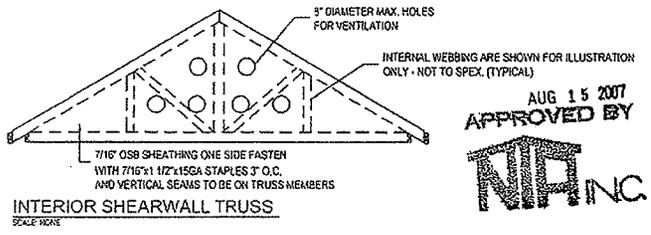
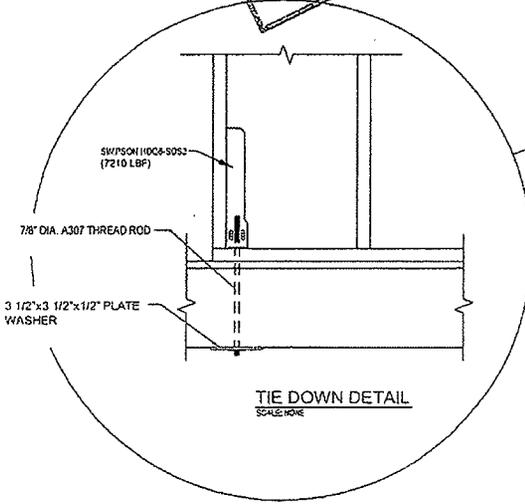
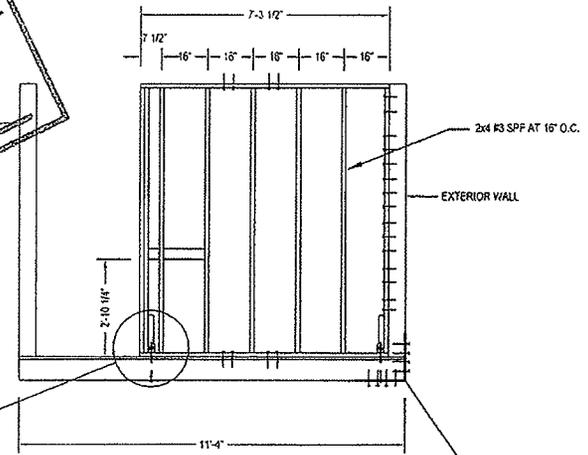
**WALL FRAMING NOTES:**

1. FASTEN WALL TO FLOOR AND WALL TO CEILING WITH (7) #8x3" SCREWS PER BAY
2. FASTEN 1/2" DRYWALL TO STUDS WITH #6 X 1 1/4" DRY WALL SCREWS OR 1 5/8" DRYWALL NAILS 8" O.C. EDGES 16" O.C. FIELD WITH 100% ADHESIVE
3. FASTEN TOP AND BOTTOM PLATES TO STUDS WITH (3) 0.131x3" P.D. NAILS OR (3) 7/16"x2 1/2"x15 GAUGE STAPLES
4. HEADERS FASTEN TO STUD WITH (3) 0.131x3" P.D. NAILS OR (3) 7/16"x2 1/2"x15 GAUGE STAPLES EACH AND EACH MEMBER.
5. WALL TO WALLS FASTENED TOGETHER WITH 0.131x3" P.D. NAILS OR #8x3" SC. 4" O.C. DIRECT OR TOED.

7/16" APA RATED SHEATHING WITH STUDS AT 16" O.C. OR 15/32" APA RATED SHEATHING ON ONE SIDE, WITH 0.131x3" NAILS AT 3" O.C. EDGE AND 6" O.C. FIELD OR 15 GA STAPLES 2" O.C. AND 6" FIELD. STAGGER NAILS IN DOUBLE STUDS AT PANEL EDGES SHEARWALL (DOUBLE STUDS REQUIRED ONLY W/ 15 GA. STAPLES). PANEL FORCE 508 PL.

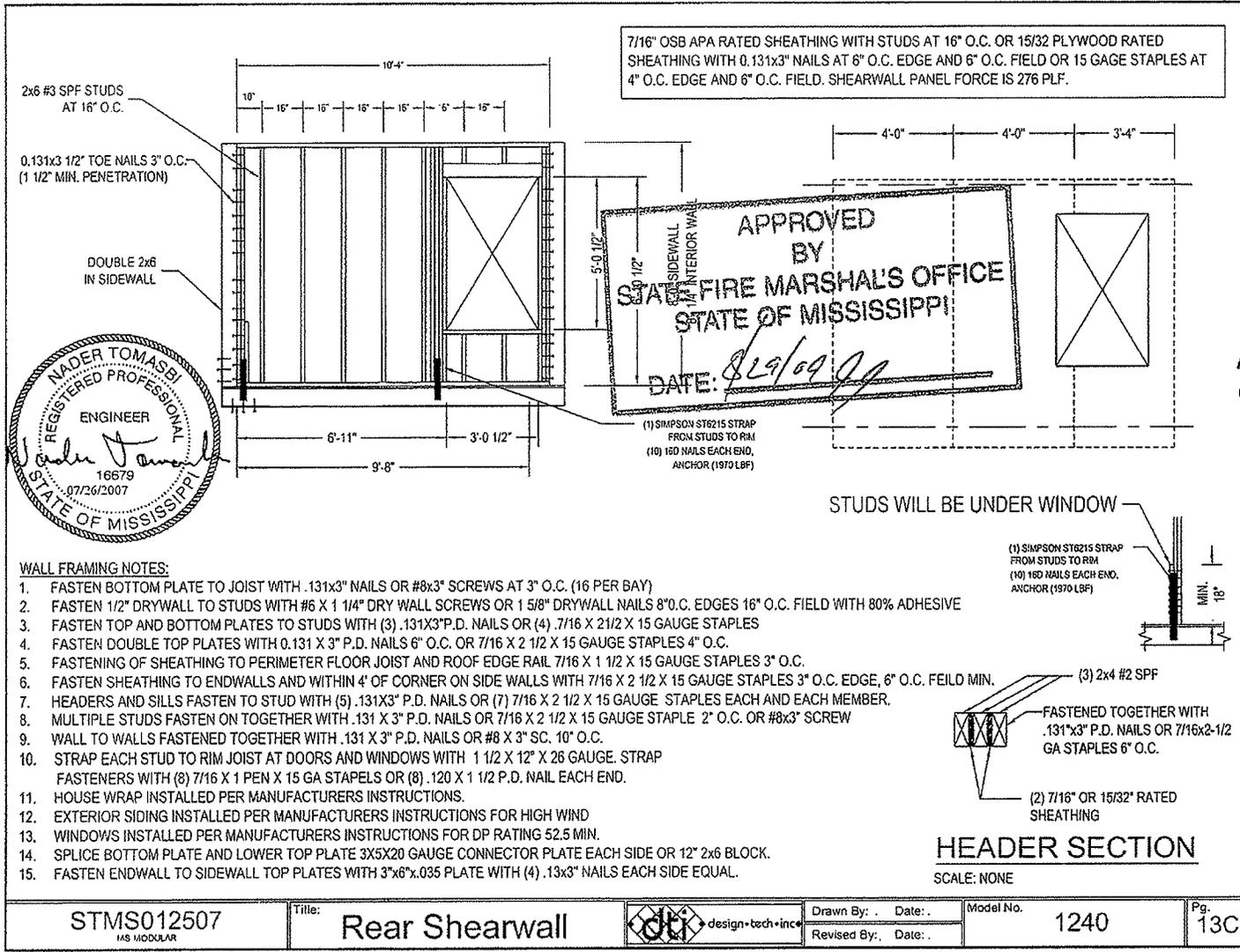


APPROVED BY  
STATE FIRE MARSHAL'S OFFICE  
STATE OF MISSISSIPPI  
DATE: 8/29/07



AUG 15 2007  
APPROVED BY  
NIA INC.

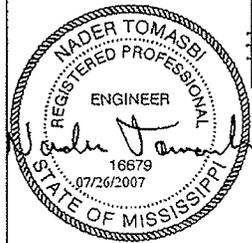
STMS012507 MS MODULAR	Title: Interior Shearwall	design+tech+inc.	Drawn By: . Date: .	Model No. 1240	Pg. 13B
			Revised By: . Date: .		



7/16" OSB APA RATED SHEATHING WITH STUDS AT 16" O.C. OR 15/32 PLYWOOD RATED SHEATHING WITH 0.131x3" NAILS AT 6" O.C. EDGE AND 6" O.C. FIELD OR 15 GAGE STAPLES AT 4" O.C. EDGE AND 6" O.C. FIELD. SHEARWALL PANEL FORCE IS 276 PLF.

2x6 #3 SPF STUDS AT 16" O.C.  
0.131x3 1/2" TOE NAILS 3" O.C. (1 1/2" MIN. PENETRATION)

DOUBLE 2x6 IN SIDEWALL

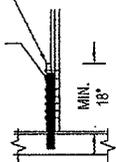


APPROVED BY  
STATE FIRE MARSHALS OFFICE  
STATE OF MISSISSIPPI  
DATE: 8/29/09

(1) SIMPSON ST6215 STRAP FROM STUDS TO RIM (10) 16D NAILS EACH END, ANCHOR (1970 LBF)

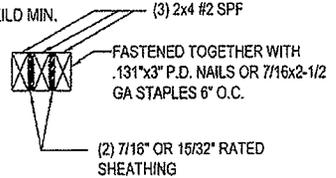
STUDS WILL BE UNDER WINDOW

(1) SIMPSON ST6215 STRAP FROM STUDS TO RIM (10) 16D NAILS EACH END, ANCHOR (1970 LBF)



**WALL FRAMING NOTES:**

1. FASTEN BOTTOM PLATE TO JOIST WITH .131x3" NAILS OR #8x3" SCREWS AT 3" O.C. (16 PER BAY)
2. FASTEN 1/2" DRYWALL TO STUDS WITH #6 X 1 1/4" DRY WALL SCREWS OR 1 5/8" DRYWALL NAILS 8" O.C. EDGES 16" O.C. FIELD WITH 80% ADHESIVE
3. FASTEN TOP AND BOTTOM PLATES TO STUDS WITH (3) .131x3" P.D. NAILS OR (4) 7/16 X 2 1/2 X 15 GAUGE STAPLES
4. FASTEN DOUBLE TOP PLATES WITH 0.131 X 3" P.D. NAILS 6" O.C. OR 7/16 X 2 1/2 X 15 GAUGE STAPLES 4" O.C.
5. FASTENING OF SHEATHING TO PERIMETER FLOOR JOIST AND ROOF EDGE RAIL 7/16 X 1 1/2 X 15 GAUGE STAPLES 3" O.C.
6. FASTEN SHEATHING TO ENDWALLS AND WITHIN 4' OF CORNER ON SIDE WALLS WITH 7/16 X 2 1/2 X 15 GAUGE STAPLES 3" O.C. EDGE, 6" O.C. FIELD MIN.
7. HEADERS AND SILLS FASTEN TO STUD WITH (5) .131x3" P.D. NAILS OR (7) 7/16 X 2 1/2 X 15 GAUGE STAPLES EACH AND EACH MEMBER.
8. MULTIPLE STUDS FASTEN ON TOGETHER WITH .131 X 3" P.D. NAILS OR 7/16 X 2 1/2 X 15 GAUGE STAPLE 2" O.C. OR #8x3" SCREW
9. WALL TO WALLS FASTENED TOGETHER WITH .131 X 3" P.D. NAILS OR #8 X 3" SC. 10" O.C.
10. STRAP EACH STUD TO RIM JOIST AT DOORS AND WINDOWS WITH 1 1/2 X 12" X 26 GAUGE. STRAP FASTENERS WITH (8) 7/16 X 1 PEN X 15 GA STAPELS OR (8) .120 X 1 1/2 P.D. NAIL EACH END.
11. HOUSE WRAP INSTALLED PER MANUFACTURERS INSTRUCTIONS.
12. EXTERIOR SIDING INSTALLED PER MANUFACTURERS INSTRUCTIONS FOR HIGH WIND
13. WINDOWS INSTALLED PER MANUFACTURERS INSTRUCTIONS FOR DP RATING 52.5 MIN.
14. SPLICE BOTTOM PLATE AND LOWER TOP PLATE 3X5X20 GAUGE CONNECTOR PLATE EACH SIDE OR 12" 2x6 BLOCK.
15. FASTEN ENDWALL TO SIDEWALL TOP PLATES WITH 3"x6"x.035 PLATE WITH (4) .13x3" NAILS EACH SIDE EQUAL.



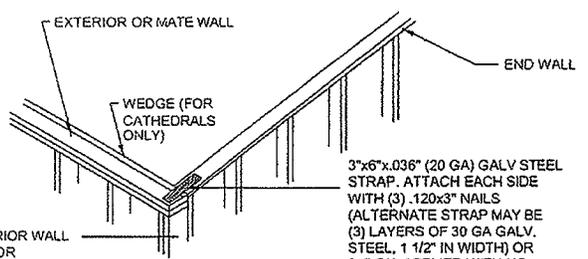
**HEADER SECTION**

SCALE: NONE

AUG 15 2007  
APPROVED BY  
NIA INC

STMS012507 1AS MODULAR	Title: Rear Shearwall		Drawn By: . Date: .	Model No. 1240	Pg. 13C
			Revised By: . Date: .		

APPROVED  
BY  
STATE FIRE MARSHAL'S OFFICE  
STATE OF MISSISSIPPI  
DATE: 8/19/07



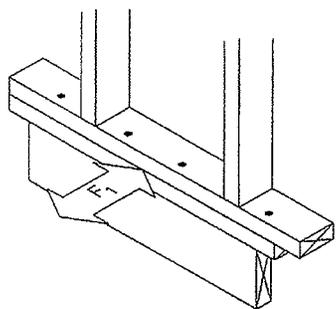
ATTACH INTERIOR WALL  
TO INTERIOR OR  
EXTERIOR WALL WITH  
.131x3" NAILS OR  
#8x3" SCREWS AT 16" OC

3"x6"x.036" (20 GA) GALV STEEL  
STRAP. ATTACH EACH SIDE  
WITH (3) .120x3" NAILS  
(ALTERNATE STRAP MAY BE  
(3) LAYERS OF 30 GA GALV.  
STEEL, 1 1/2" IN WIDTH) OR  
3x5 GN. APPLIED WITH NO  
BOUNCE HAMMER

CONNECTION		
PARAMETERS	FASTENER (MINIMUM LENGTH AND DIAMETER OR STAPLE SIZE)	QUANTITY PER CONNECTION OR SPACING
STUD SPACING = 16" O.C.	3"x0.131" P.D. NAIL	3
	2 1/2"x15 GA. STAPLE	4

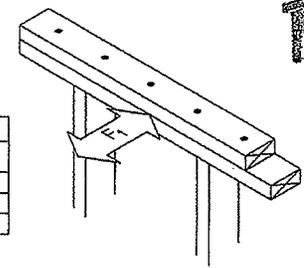
EXTERIOR WALL OR MATE WALL  
SCALE: NONE

AUG 15 2007  
APPROVED BY  
NIA INC



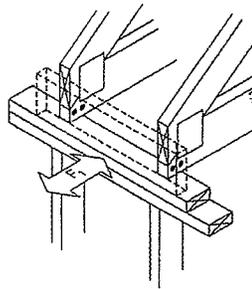
CONNECTION		
PARAMETERS	FASTENER (MINIMUM LENGTH AND DIAMETER OR STAPLE SIZE)	QUANTITY PER CONNECTION OR SPACING
STUD SPACING = 16" O.C.	3"x0.131" P.D. NAIL	3
	2 1/2"x15 GA. STAPLE	4

NAJIB TOMASSI  
REGISTERED PROFESSIONAL  
ENGINEER  
16679  
07/26/2007  
STATE OF MISSISSIPPI



CONNECTION		
PARAMETERS	FASTENER (MINIMUM LENGTH AND DIAMETER OR STAPLE SIZE)	QUANTITY PER CONNECTION OR SPACING
STUD SPACING = 16" O.C.	#8x3" SCREW	3 PER BAY
	3"x0.131" P.D. NAIL	3 PER BAY
	2 1/2"x15 GA. STAPLE	4 PER BAY

CONNECTION	PARAMETERS	QUANTITY PER CONNECTION OR SPACING
CORNER STUDS EDGE WALL/STUD... INTERSECTION	3"x0.131" P.D. NAIL	16" O.C.
	2 1/2"x15 GA. STAPLE	16" O.C.
ALL LOCATIONS		SEE SHEARWALL DETAILS
DOUBLE STUDS OR JAG TO JAG STUDS	3"x0.131" P.D. NAIL	8" O.C.
	2 1/2"x15 GA. STAPLE	3" O.C.
ALL LOCATIONS		

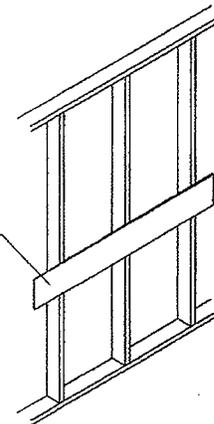


APPROVED  
BY  
STATE FIRE MARSHAL'S OFFICE  
STATE OF MISSISSIPPI  
DATE: 8/16/09 *JP*

ALTERNATE CONNECTION		
PARAMETERS	FASTENER (MINIMUM LENGTH AND DIAMETER OR STAPLE SIZE)	QUANTITY PER CONNECTION OR SPACING
		136' FLOOR
TRUSS SPACING = 24" O.C.	#10x4" SCREW	1 EACH SIDE OF TRUSS TO TOP PLATE
	#10x4" SCREW	FROM RAIL TO TOP PLATE, EVERY 5"

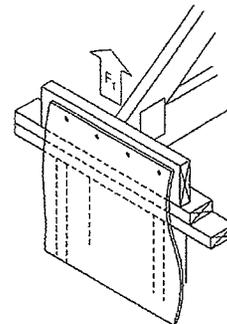
CONNECTION		
PARAMETERS	FASTENER (MINIMUM LENGTH AND DIAMETER OR STAPLE SIZE)	QUANTITY PER CONNECTION OR SPACING
		136' FLOOR
TRUSS SPACING = 16" O.C.	3"x0.131" P.D. NAIL	3
	#10x4" SCREW	2 AT INTERIOR & 3 WITHIN 3' OF CORNERS

CONTINUOUS JAPAN BELTRAIL, SURFACE MOUNTED.  
VALID FOR EXTERIOR AND INTERIOR WALLS.  
MAY BE FULL HT LOADING



BELTRAIL DETAIL

AUG 15 2007  
APPROVED BY  
**NIA INC.**



CONNECTION		
PARAMETERS	FASTENER (MINIMUM LENGTH AND DIAMETER OR STAPLE SIZE)	QUANTITY PER CONNECTION OR SPACING
		136' FLOOR
SHEATHING TYPE: 15G2" APA RATED PLYWOOD OR OSB	3"x0.131" P.D. NAIL	2" O.C.
	1 1/2"x15 GA. STAPLE	2" O.C.
	1 1/2"x16 GA. STAPLE	2" O.C.

STMS012507  
MS MODULAR

Title:

Connection Details



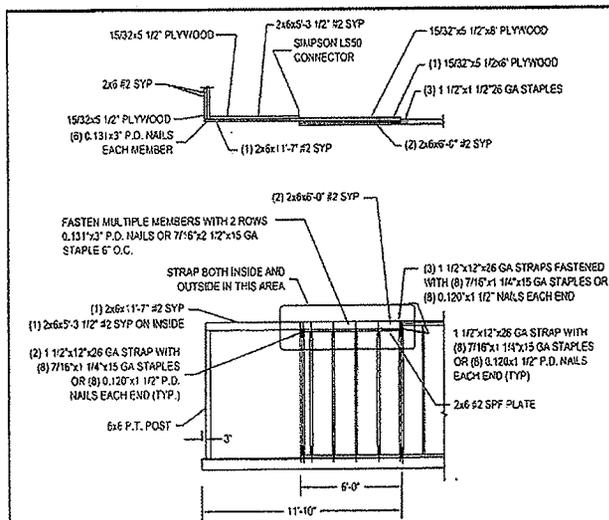
Drawn By: . Date: .  
Revised By: . Date: .

Model No. 1240

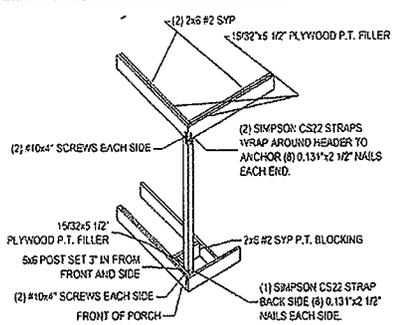
Pg. 14B

APPROVED  
BY  
STATE FIRE MARSHAL'S OFFICE  
STATE OF MISSISSIPPI

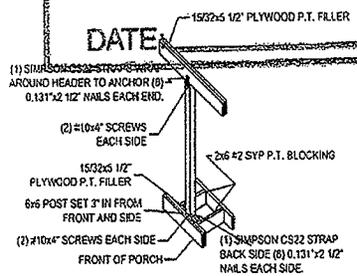
DATE: *8/15/07*



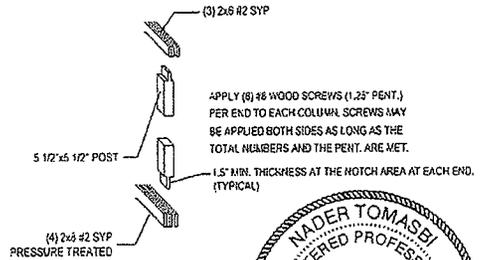
**PORCH FRAMING DETAIL**  
SCALE: NONE



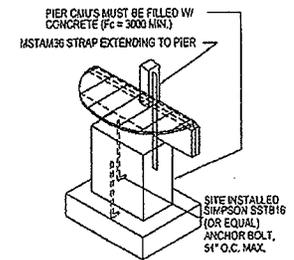
**CORNER POST DETAIL**  
SCALE: NONE



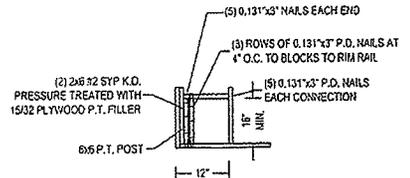
**MIDDLE POST DETAIL**  
SCALE: NONE



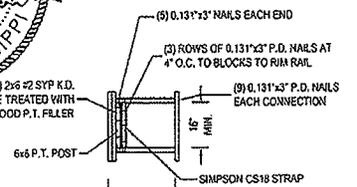
**ALT. POST DETAIL**  
SCALE: NONE



**POST END DETAIL**  
APPLIES TO PERMANENT HOME SET

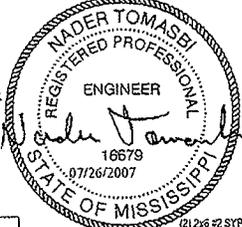


**BLOCKING FOR POST CORNER DETAIL**  
SCALE: NONE



**BLOCKING FOR POST MIDDLE DETAIL**  
SCALE: NONE

NOTE:  
ALL PLYWOOD 15/32 APA RATED SHEATHING 32/16  
ALL EXPOSED PLYWOOD PRESSURE TREATED



AUG 15 2007  
APPROVED BY  
NIA INC