

Crystal Valley

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

October 10, 2007

Mr. David J. Barts
Account Manager
NTA, Inc.
305 North Oakland Avenue/P. O. Box 490
Nappanese, Indiana 46550

(X) **Plan Review** () **Quality Manual**

**Re: Plan Review – Patriot Homes
Model Name – Park Model 1240**

Dear Mr. Barts:

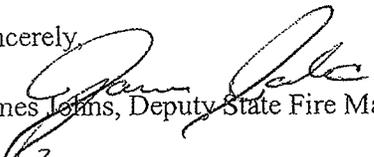
Eugene Humphrey, Assistant State Chief Deputy Fire Marshal has requested that I contact you in regards to the above referenced project dated October 5, 2007.

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

- () International Fire Code Ed. 2003
- (X) International Residential Code Ed. 2003
- () International Building Code Ed. 2003
- (X) National Electrical Code Ed. 2005
- () NFPA Standard _____
- (X) Other ASCE7-02

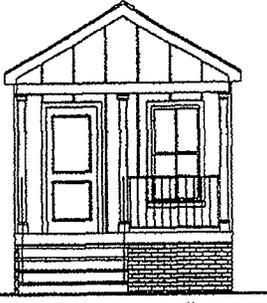
If you should have any questions or concerns, please do not hesitate to contact our office.

Sincerely,


James Johns, Deputy State Fire Marshal I

JJ:sh

cc: Ricky Davis, Chief, State Deputy Fire Marshal



Elevation may depict options at additional cost

ALL INFORMATION AND DESIGN IN THIS PACKAGE IS SOLE PROPERTY OF DESIGN TECH INC.

STMS012507
MS MODULAR

1240

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

APPROVED BY
STATE FIRE MARSHAL'S OFFICE
STATE OF MISSISSIPPI

DATE: 10/3/07

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. $G_{Cpi} = +/- 0.18$ 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

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 variations 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, 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.

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	
Reserved	4		Shearwalls	13A, 13B, 13C	
Plumbing Plan, Notes	5, 6		Connection Details	14A, 14B	
HVAC System	7, 8		Porch Framing Details, Calcs	15A, 15B, 1, 15.2	
Off-Frame Foundation Plans	9A, 9B		Trusses	16	
On-Frame Foundation Plans	9C, 1-4, 9D, 9E		Calculation	17	

STATE MISSISSIPPI INSURANCE DEPARTMENT
FIRE MARSHAL'S OFFICE

3rd Party Stamp

APPROVED BY

SEP - 4 2007

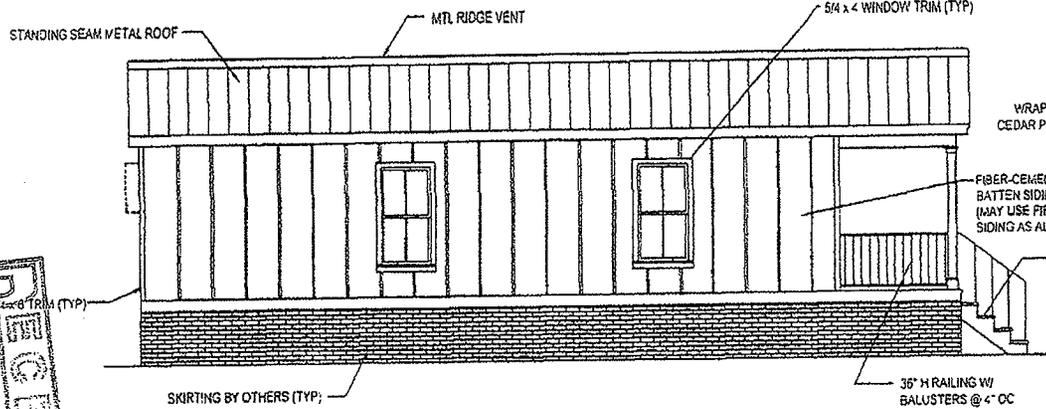
NIA INC

P.E. Seal

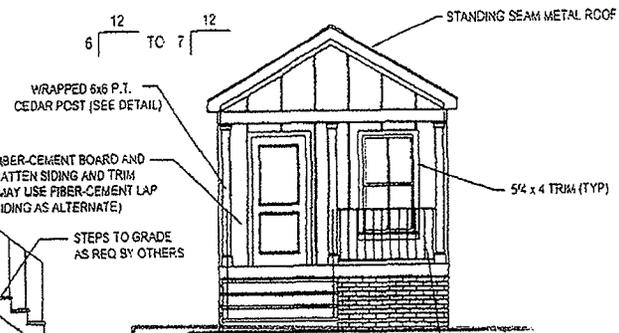


Disclaimer: These drawings have been prepared and reviewed in accordance with all applicable codes. This drawing set is not intended to be all inclusive, nor does this set detail every code required aspect of this building. Compliance with all applicable codes per local authority having jurisdiction 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).

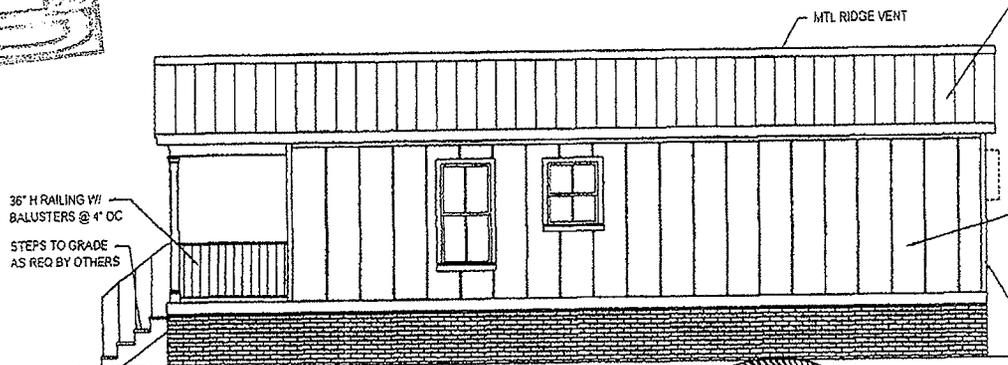
MISSISSIPPI
 STATE FIRE MARSHAL'S OFFICE
 OCT 04 2007



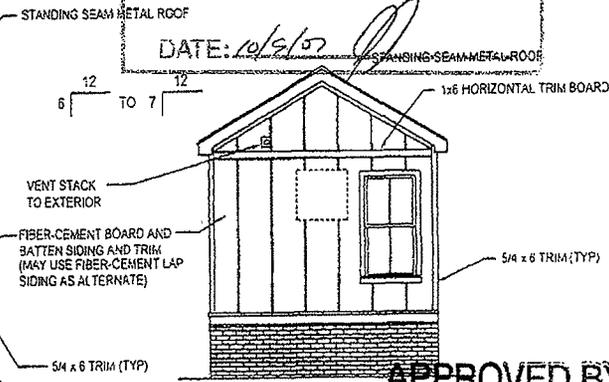
LEFT ELEVATION



APPROVED
 FRONT ELEVATION
 STATE FIRE MARSHAL'S OFFICE
 STATE OF MISSISSIPPI
 DATE: 10/2/07



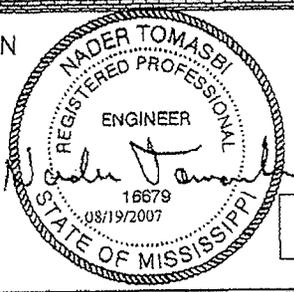
RIGHT ELEVATION



REAR ELEVATION

APPROVED BY
 SEP - 4 2007

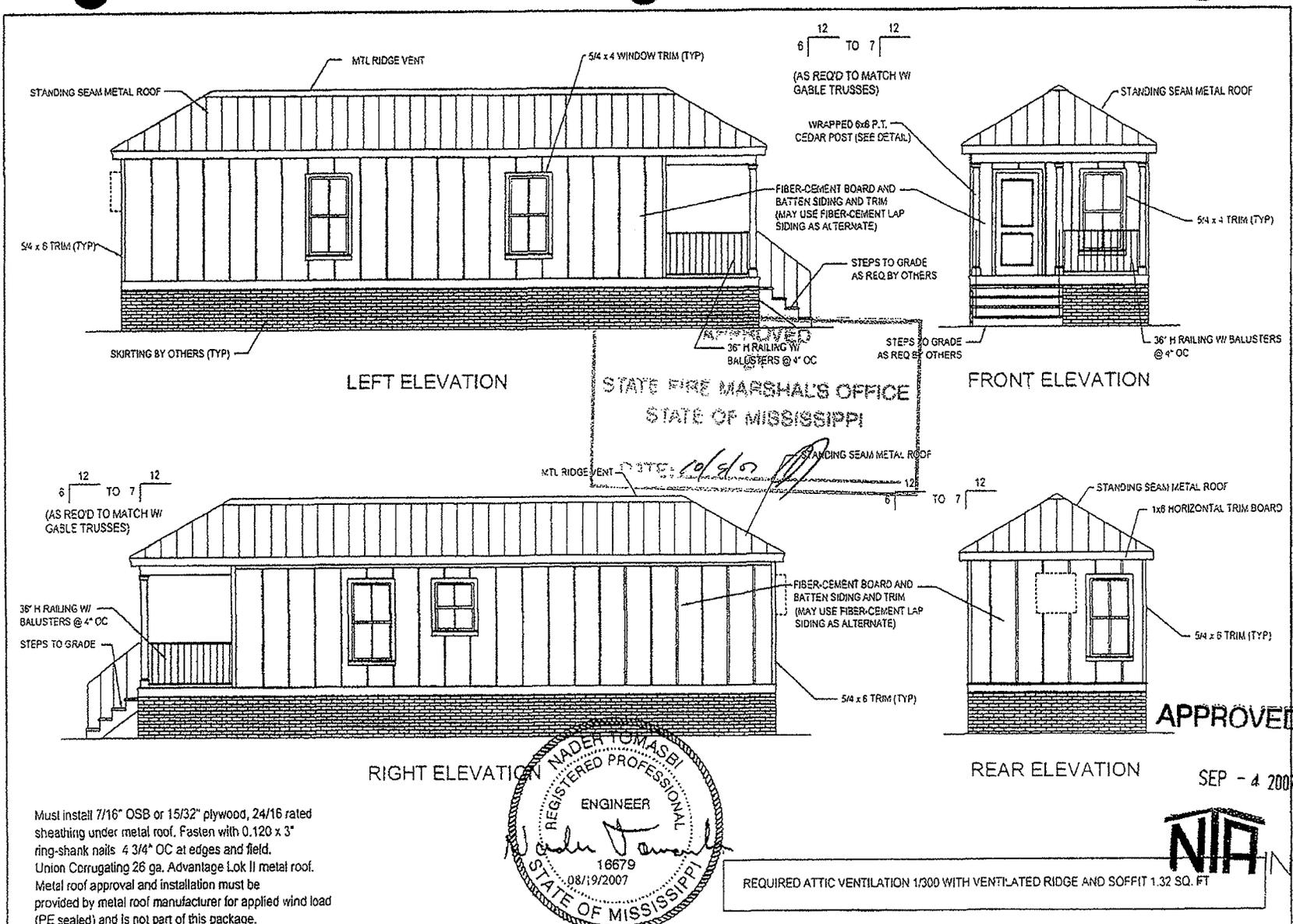
Must install 7/16" OSB or 15/32" plywood, 24/16 rated sheathing under metal roof. Fasten with 0.120 x 3" ring-shank nails 4 3/4" OC at edges and field. Union Corrugating 26 ga. Advantage Lok II metal roof. Metal roof approval and installation must be provided by metal roof manufacturer for applied wind load (PE sealed) and is not part of this package.



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



ALL INFORMATION AND DESIGN IN THIS PACKAGE IS SOLE PROPERTY OF DESIGN TECH INC.	STMS012507 MS MODULAR	Title: Elevations		Drawn By: . . . Date: . . .	Model No. 1240	Pg. 1A
				Revised By: . . . Date: . . .		



APPROVED
 STATE FIRE MARSHAL'S OFFICE
 STATE OF MISSISSIPPI
 DATE: 10/2/07

APPROVED BY
 SEP - 4 2007



Must install 7/16" OSB or 15/32" plywood, 24/16 rated sheathing under metal roof. Fasten with 0.120 x 3" ring-shank nails 4 3/4" OC at edges and field. Union Corrugating 26 ga. Advantage Lok II metal roof. Metal roof approval and installation must be provided by metal roof manufacturer for applied wind load (PE sealed) and is not part of this package.

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

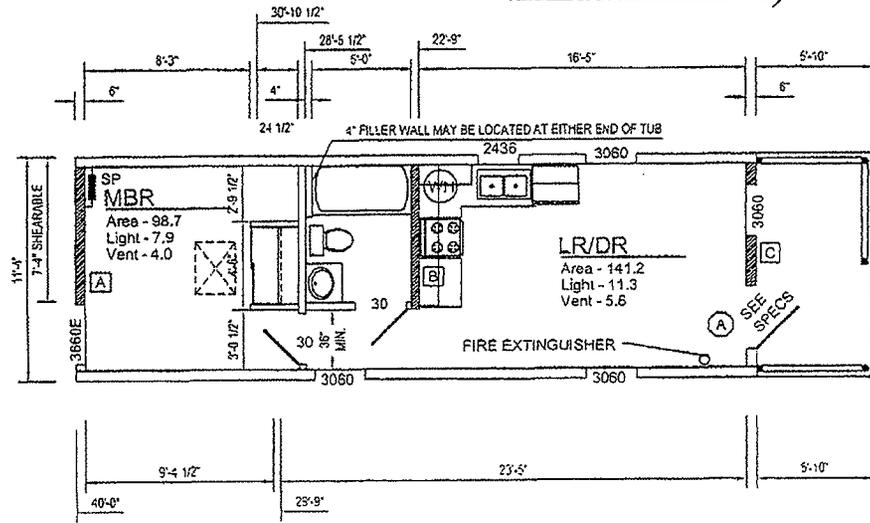
ALL INFORMATION AND DESIGN IN THIS PACKAGE IS SOLE PROPERTY OF DESIGN TECH INC.	STMS012507	Title: Hip Roof Elevations	design+tech+inc	Drawn By: . . . Date: . . .	Model No. 1240	Pg. 1B
	MS MODULAR			Revised By: . . . Date: . . .		



MAY USE #2 SPF IN PLACE OF #2 SYP FOR STANDARD FLOOR JOISTS.
 NOT APPLICABLE TO FLOOR JOISTS AT PORCH AREA OR FOR FLOOR JOISTS UNDER SHEARWALLS.

APPROVED
 BY
 STATE FIRE MARSHAL'S OFFICE
 STATE OF MISSISSIPPI
 DATE: 10/3/07

- A TOTAL SHEAR LENGTH=88"
 150 MPH, EXP. 'B'=283 PLF
 2-FLOOR #2 SYP JOIST
 UNDER SHEARWALL
- B TOTAL SHEAR LENGTH=87"
 150 MPH, EXP. 'B'=508 PLF
 5-FLOOR #2 SYP JOIST
 UNDER SHEARWALL
- C TOTAL SHEAR LENGTH=75"
 150 MPH, EXP. 'B'=633 PLF
 3-FLOOR #2 SYP JOIST
 1-FLOOR #2 SYP PT JOIST
 UNDER SHEARWALL



- (A) -36" MIN. DOOR WIDTH
- TOTAL WINDOW AREA - 68.90 SQ. FT.
- 'E' - INDICATES EGRESS WINDOW
- DATA PLATE LOCATION - KITCHEN BASE COVER
- STATE LABEL LOCATION - KITCHEN SINK BASE CABINET
- THIRD PARTY LOCATION - KITCHEN SINK BASE CABINET
- SECONDARY STATE LABEL LOCATION-MASTER BATH LAV CABINET
- ALL WALLS 4 1/2" THICK UNLESS NOTED
- 22"X30" ATTIC ACCESS REQUIRED
 WHEN CLEAR HEIGHT OF ATTIC EXCEEDS 30".

APPROVED BY

SEP - 4 2007



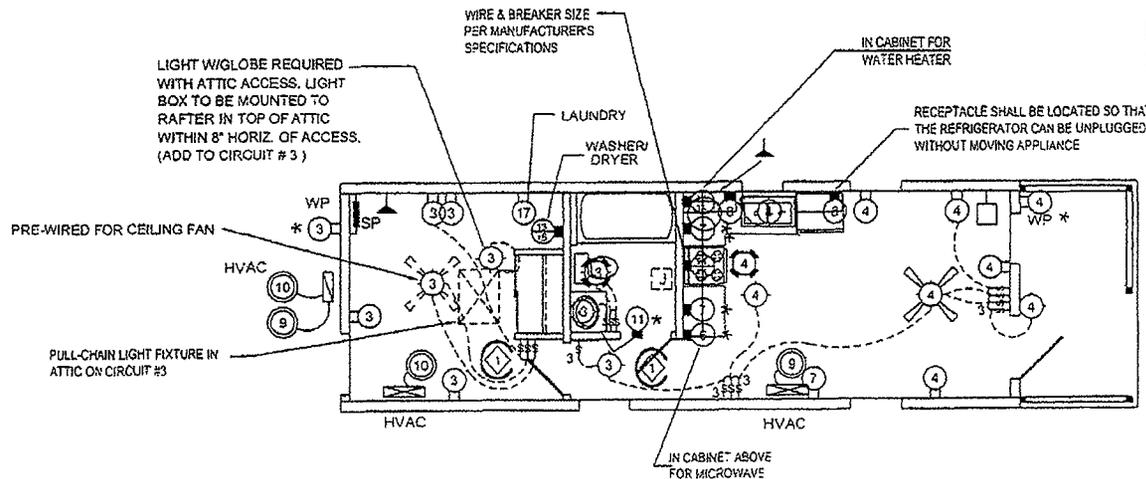
ALL INFORMATION AND DESIGN IN THIS PACKAGE IS SOLE PROPERTY OF DESIGN TECH, INC.	STMS012507	Title: Floor Plan	design+tech+inc	Drawn By: . Date: .	Model No. 1240	Pg. 2
				Revised By: . Date: .		



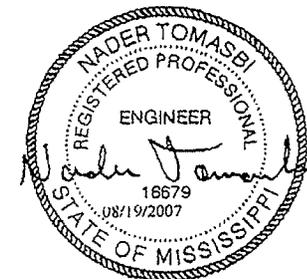
APPROVED
BY
STATE FIRE MARSHAL'S OFFICE
STATE OF MISSISSIPPI
DATE: 10/17/07

SYMBOLS X = CIRCUIT NUMBER

- (X) 15A RECEPT
- (X) MECHANICAL FAN
- (X) 20A RECEPT
- HVAC UNIT
- † SINGLE SWITCH
- 3† 3-WAY SWITCH
- †† DOUBLE SWITCH
- ▶ PHONE JACK
- (X) CEILING LIGHT
- (X) WALL MOUNTED LIGHT
- * GFCI PROTECTED
- (T) THERMOSTAT
- SWITCH RUN
- TV JACK
- (14/10)
- [] - J-BOX FOR ELECTRICAL CONNECTION



- (X) AC/DC SMOKE ALARM, ALL TO BE INTERCONNECTED PER MANUFACTURER'S INSTRUCTIONS AND ALL APPLICABLE CODES
- (X) COMBINATION SMOKE ALARM AND CARBON MONOXIDE ALARM, TO BE INTERCONNECTED PER MANUFACTURER'S INSTRUCTIONS AND ALL APPLICABLE CODES



CIRCUIT LEGEND		SERVICE SIZE 125 AMPERE	
CIRCUIT No.	DESCRIPTION	WIRE SIZE	BREAKER SIZE
1	GENERAL LIGHTING	14-2 WGR.	15A-S. POLE
2	N/A	N/A	N/A
3	GENERAL LIGHTING	14-2 WGR.	15A-S. POLE
4	GENERAL LIGHTING	14-2 WGR.	15A-S. POLE
5	N/A	N/A	N/A
6	MICROWAVE	12-2 WGR.	20A-D. POLE
7	APPLIANCE CIRCUIT	12-2 WGR.	20A-S. POLE
8	APPLIANCE CIRCUIT	12-2 WGR.	20A-S. POLE
9	HVAC SYSTEM INSTALLED PER MANUFACTURERS SPECS OR DESIGNED/INSTALLED BY OTHERS		
10			
11	BATH RECEPT CIRCUIT	12-2 WGR.	20A-S. POLE
12,14	WATER HEATER	10-2 WGR.	25A-D. POLE
13,15	ELECTRIC W/O	10-3 WGR.	30A-D. POLE
16,18	ELECTRIC RANGE	8-3 WGR.	40A-D. POLE
17	LAUNDRY	12-2 WGR.	20A-S. POLE

APPROVED BY

SEP - 4 2007



NOTES:

ALL HOMES ARE BUILT TO MEET THE 2005 NATIONAL ELECTRICAL CODE

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

-BRKR/WIRE SIZES TO BE DETERMINED AND SUPPLIED ON-SITE BY OTHERS.

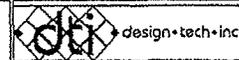
ALL BRANCH CIRCUITS SUPPLYING 15A AND 20A OUTLETS IN BEDROOMS ARE PROTECTED BY AN ARC-FAULT CIRCUIT INTERRUPTER IN ACCORDANCE WITH SECTION 210.12 OF THE NEC.

(X) 22"x30" ATTIC ACCESS REQUIRED WHEN CLEAR HEIGHT OF ATTIC EXCEEDS 30".

ALL INFORMATION AND DESIGN IN THIS PACKAGE IS SOLE PROPERTY OF DESIGN TECH, INC.

STMS012507
MS MODULAR

Title: Electrical Plan



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

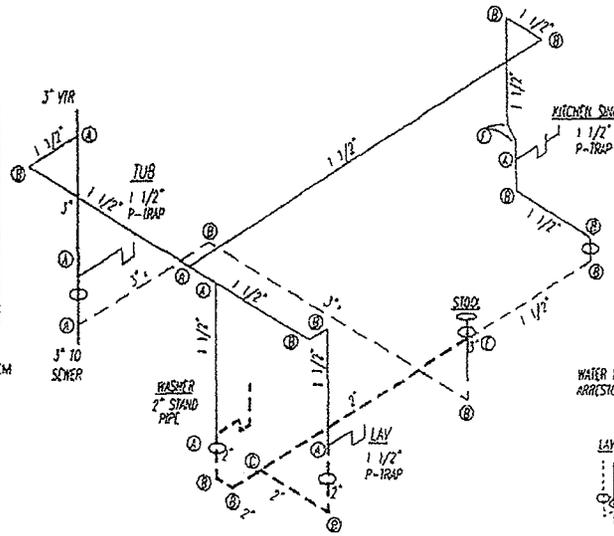
Model No. 1240

Pg. 3

FITTING LEGEND	
Ⓐ	SANITARY TEE
Ⓑ	LONG TURN ELL
Ⓒ	LONG TURN TEE WYE
Ⓓ	LONG TURN TEE WYE W/CLEANOUT
Ⓔ	DOUBLE SANITARY TEE
Ⓛ	45° ELL
Ⓜ	DOUBLE ELL
Ⓐ	LONG TURN TEE WYE W/45° ST. ELL
Ⓣ	LONG TURN ELL W/45° ST. ELL
Ⓝ	SAN TEE W/CLEANOUT
Ⓚ	CLOSET BEND
Ⓛ	SAN TEE W/90° LEFT INLET

NOTES:

- 1.) - - - - - INDICATES 1 1/2" DRAIN SYSTEM
- 2.) - - - - - INDICATES 2" DRAIN SYSTEM
- 3.) - - - - - INDICATES 3" DRAIN SYSTEM
- 4.) - - - - - 3" SITE INSTALLED

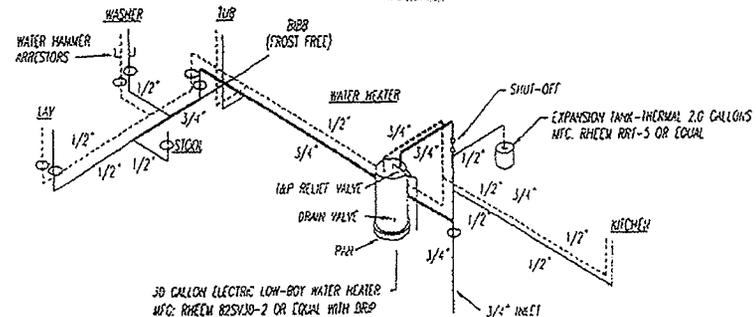


APPROVED
BY
STATE FIRE MARSHAL'S OFFICE
STATE OF MISSISSIPPI
DATE: 10/2/07

ALTERNATE:
A STUDOR VENT MAY BE USED AT
THE KITCHEN SINK IN PLACE OF
THE LOOP VENT THAT IS SHOWN.

1/2" COLD
1/2" HOT
3/4" COLD
3/4" HOT

FLOOR DECKING HOLE
WATER HAMMER ARRESTOR



DRAIN WASTE VENT
NOT TO SCALE

- NOTE:**
1. DRAIN OUTLET SHALL BE IN THE REAR PART OF UNIT AND WITH IN 18" OF THE ROADSIDE
 2. WATER INLET ALSO TO BE ON THE ROADSIDE.

APPROVED BY

SEP - 4 2007



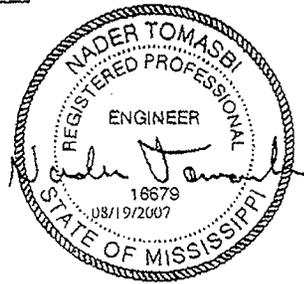
NOTE:
LAV AND SINK TO HAVE A SEPARATE SHUT-OFF VALVE ON BOTH HOT AND COLD WATER LINES.

NOTE:
WATER CLOSET TO HAVE A SEPARATE SHUT-OFF VALVE ON COLD WATER LINE

WATER SUPPLY
NOT TO SCALE

PLUMBING NOTES:

1. ALL PLUMBING FIXTURES SHALL HAVE SEPARATE SHUT OFF VALVES.
2. WATER HEATER SHALL HAVE SAFETY PAN WITH 3/4" DRAIN TO EXTERIOR, TAP RELIEF VALVE WITH DRAIN TO UNDER HOME, AND A SHUT OFF VALVE WITHIN 3 FEET ON A COLD WATER SUPPLY LINE.
3. WATER PIPES INSTALLED IN A WALL EXPOSED TO THE EXTERIOR SHALL BE LOCATED ON THE HEATED SIDE OF THE WALL INSULATION. WATER PIPING INSTALLED IN UNCONDITIONED ATTIC SHALL BE INSULATED WITH AN INSULATION OF R-8.5 MINIMUM.
4. DRY SYSTEM SHALL BE ABS OR PVC - SCHEDULE 40
5. WATER SUPPLY LINES SHALL BE CPVC OR PEX. SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURERS LIMITATIONS AND INSTRUCTIONS.
6. BUILDING DRAIN AND CLEANOUTS ARE DESIGNED AND SITE INSTALLED BY OTHERS, SUBJECT TO LOCAL JURISDICTION APPROVAL.
7. TUB ACCESS PROVIDED UNDER HOME, UNLESS OTHERWISE NOTED.
8. SHOWER STALL SHALL BE COVERED WITH NON-ABSORBENT MATERIAL TO A HEIGHT OF 72" ABOVE FINISH FLOOR.
9. THE MINIMUM SIZE WATER SERVICE PIPE SHALL BE 3/4"
10. THERMAL EXPANSION TANK REQUIRED AT WATER HEATER.
11. ALL PENETRATIONS IN FLOORS FOR PIPING MUST BE CAULKED OR FLOATED.



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 802.7.1

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'.

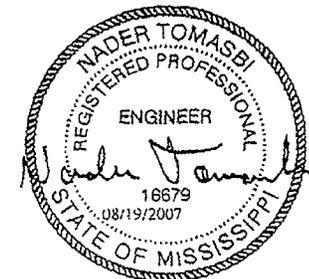
SEE PAGE 5 FOR ADDITIONAL NOTES, SPECS., DETAILS, ETC.



APPROVED BY

SEP - 4 2007

NIA INC



ALL INFORMATION AND
DESIGN IN THIS PACKAGE
IS SOLE PROPERTY OF
DESIGN TECH, INC.

STMS012507
MS MODULAR

Title:

Drain Line Notes



design+tech+inc

Drawn By: . Date: .

Revised By: . Date: .

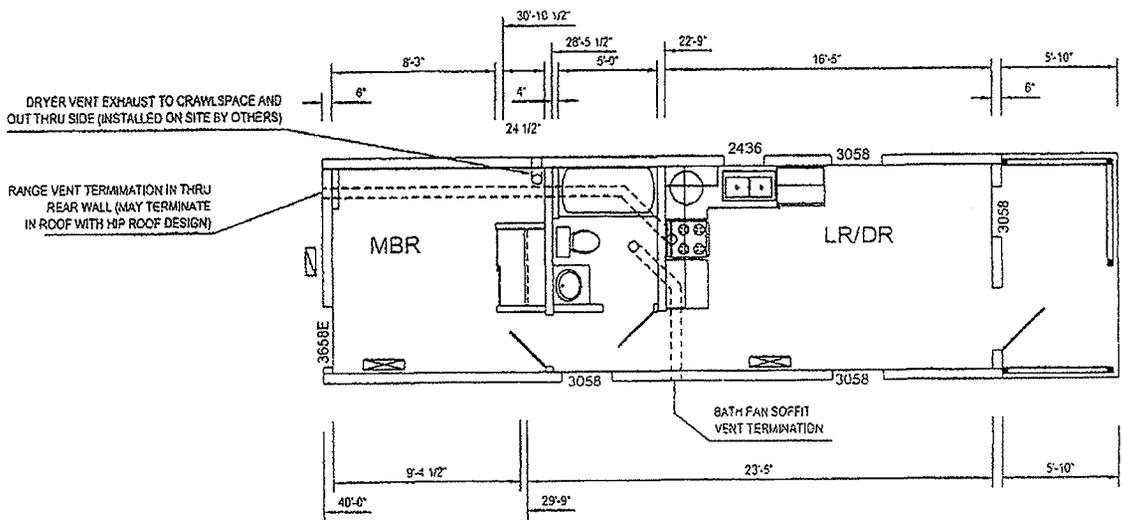
Model No.

1240

Pg.

6

APPROVED
 BY
 STATE FIRE MARSHAL'S OFFICE
 STATE OF MISSISSIPPI
 DATE: 10/2/07



APPROVED BY
 SEP - 4 2007



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

ALL INFORMATION AND DESIGN IN THIS PACKAGE IS SOLE PROPERTY OF DESIGN TECH, INC.	STMS012507 MS MODULAR	Title: HVAC/Exhaust Fan Duct Plan	design+tech+inc	Drawn By: . . . Date: . . .	Model No. 1240	Pg. 8
				Revised By: . . . Date: . . .		

NOTES:

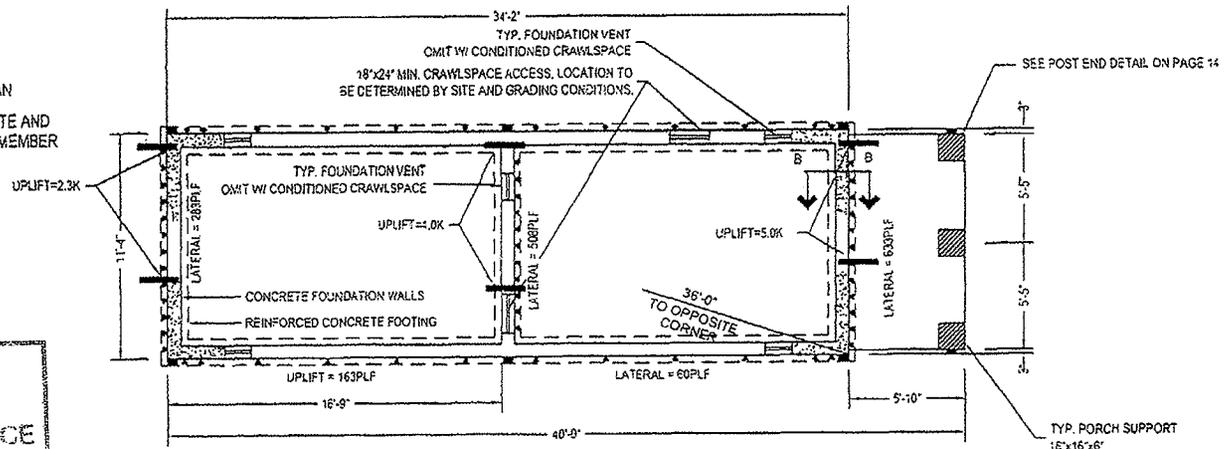
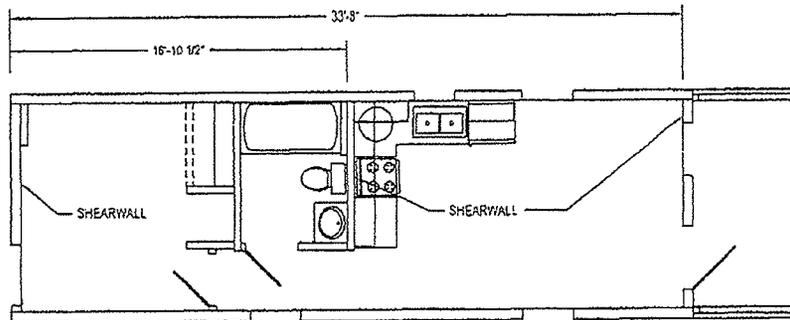
FOUNDATION TO BE DESIGNED TO MEET THE NOTED LOADS
 FOUNDATION DESIGN & TIE DOWNS MUST BE APPROVED BY LOCAL
 LICENSE ENGINEER/ARCHITECT.

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

**FOUNDATION BASE ON
 2000 PSF SOIL**

NOTE: SEE PAGE 9B
 FOR ADDITIONAL
 FOUNDATION INFORMATION

- (3)MSTAM36 W/(13)10D NAILS&(8)w"x2w TITAN
- SIMPSON LTP4 PLATE, FASTEN TO SILL PLATE AND RIM JOIST W/(6) 8Dx1r" NAILS (8) PER EACH MEMBER



**APPROVED
 BY**
 STATE FIRE MARSHAL'S OFFICE
 STATE OF MISSISSIPPI
 DATE: 10/9/07

CRAWLSPACE VENTILATION REQUIRED: 2.68 SQ. FT.

'OFF-FRAME' FOUNDATION NOTES:

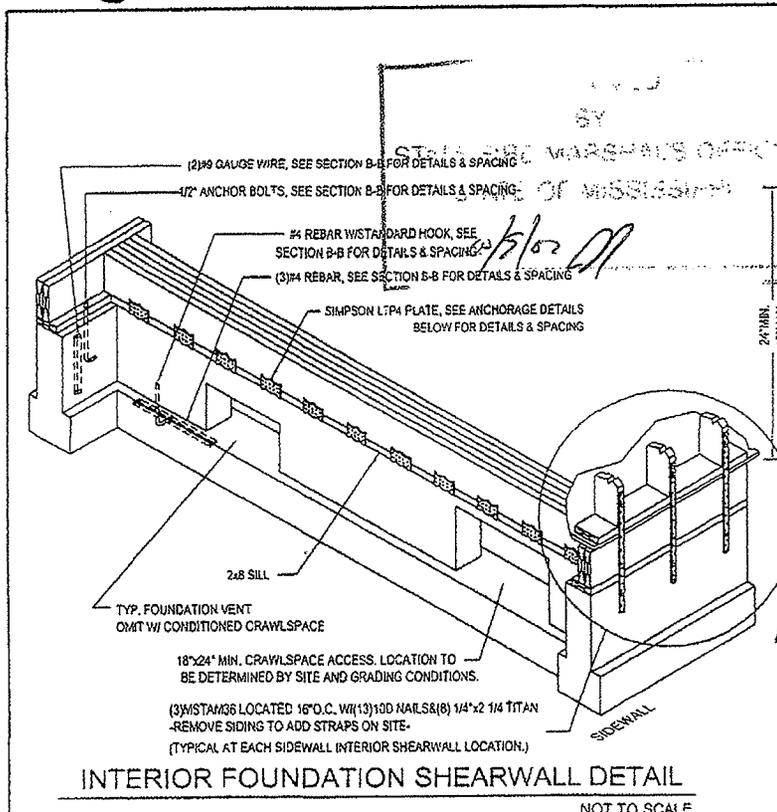
- 1) FOUNDATION LAYOUT IS APPLICABLE TO NOTED MAXIMUM SNOW LOADING AND MINIMUM SOIL BEARING PRESSURE. REFER TO INSTALLATION INSTRUCTION MANUAL FOR OTHER APPLICABLE INFORMATION. CONSULT LOCAL OFFICIALS AND THE APPLICABLE LOCAL CODES FOR OTHER REQUIREMENTS (I.E. DRAINAGE, DAMP-PROOFING, BACKFILL SUPPORT, 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.

APPROVED BY

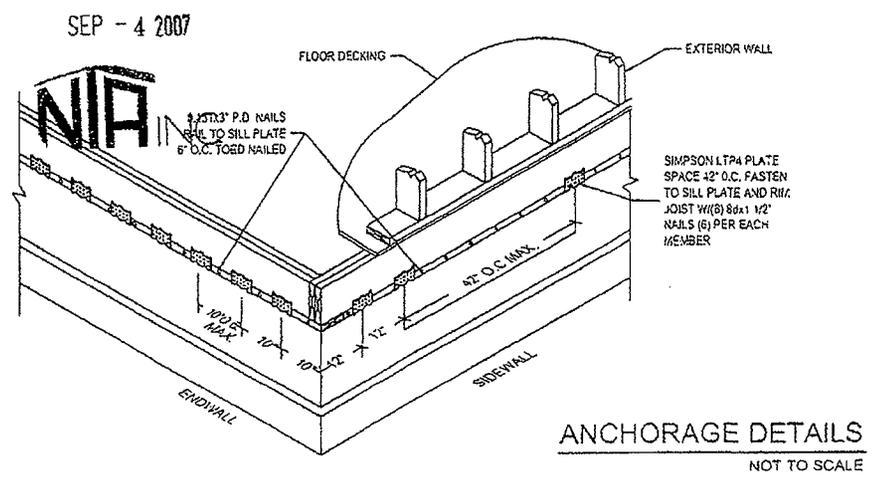
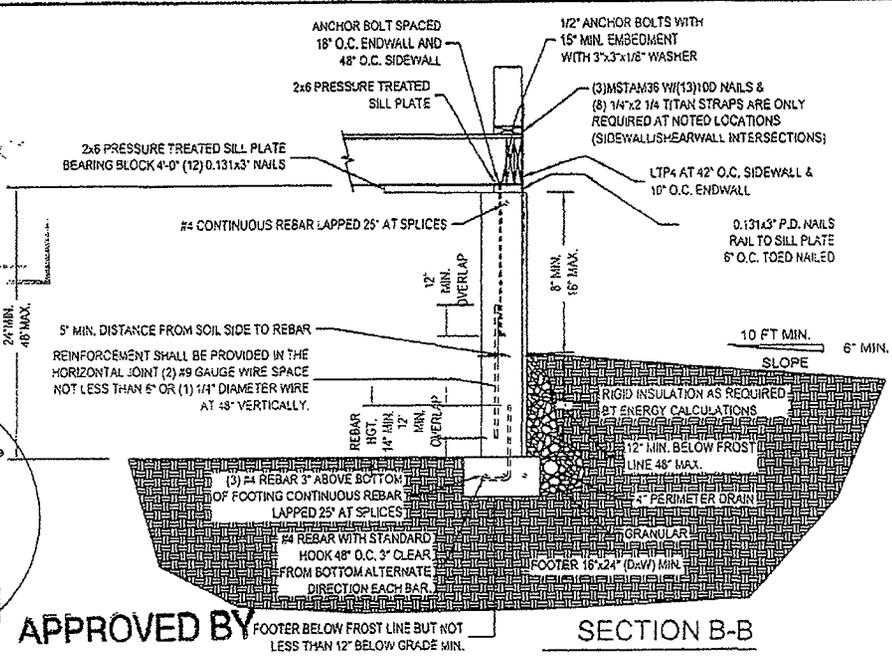
SEP - 4 2007



ALL INFORMATION AND DESIGN IN THIS PACKAGE IS SOLE PROPERTY OF DESIGN TECH INC.	STMS012507 <small>MS MODAAR</small>	Title: Crawlspace Foundation (30psf)	design+tech+inc	Drawn By: . . . Date: . . .	Model No. 1240	Pg. 9A
				Revised By: . . . Date: . . .		



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"



**FOUNDATION BASE ON
800 PSF SOIL**

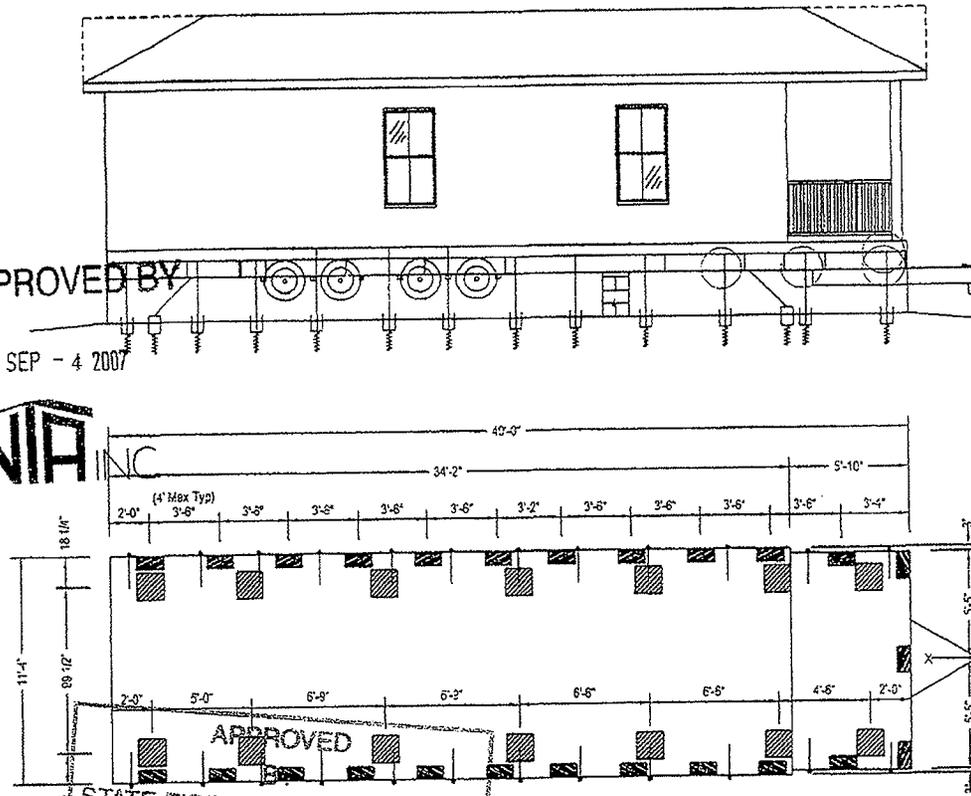
MAX. GROUND SNOW LOAD : 30 PSF
 MAX. WIND SPEED: 150 MPH
 WIND EXPOSURE: B
 MAX MEAN ROOF HEIGHT: 30'
 SEISMIC DESIGN CATEGORY: C

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.

APPROVED BY

SEP - 4 2007



APPROVED
 STATE FIRE MARSHAL'S OFFICE
 STATE OF MISSISSIPPI
 DATE: 10/3/07

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 2200 lbs.

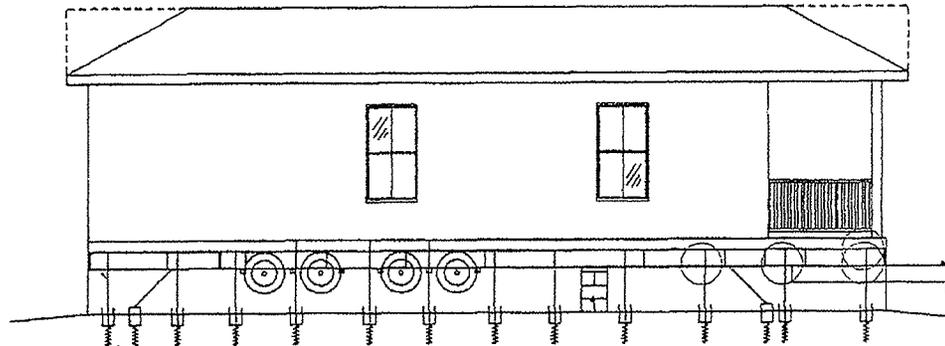
ABS pads listed by independent testing agency may be used if the rated capacity is in excess of noted pier loads, properly approved for the site conditions and is acceptable to the Local Authority Having Jurisdiction"

NOTE: SEE PAGE 9D FOR ADDITIONAL FOUNDATION INFORMATION

<small>ALL INFORMATION FIG DESIGN IN THIS PACKAGE IS SOLE PROPERTY OF DESIGN TECH INC.</small>	STMS012507 <small>MS MODULAR</small>	Title: TEMP. FOUNDATION REQ		Drawn By: . Date: .	Model No. 1240	Pg. 9C.1
				Revised By: . Date: .		

**FOUNDATION BASE ON
1000 PSF SOIL**

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



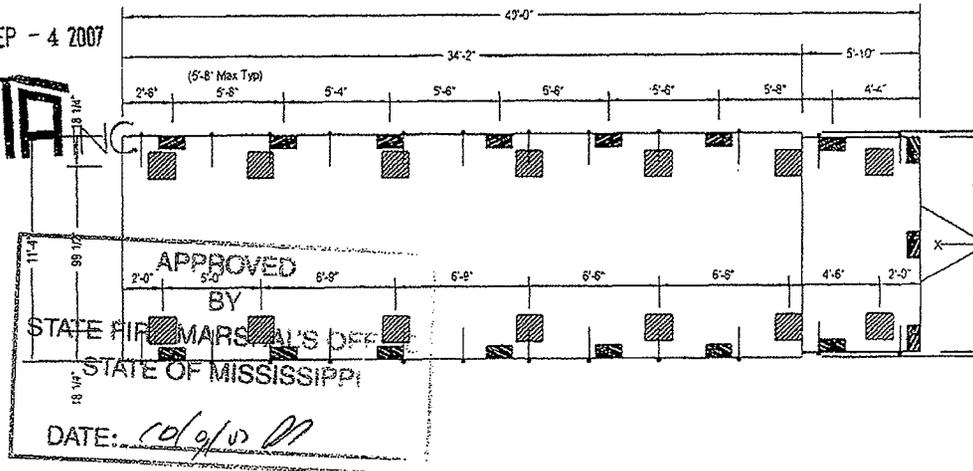
APPROVED BY

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



SEP - 4 2007

NIA



'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 2200 lbs.

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"

**NOTE: SEE PAGE 9D FOR ADDITIONAL
FOUNDATION INFORMATION**

ALL INFORMATION AND DESIGN IN THIS PACKAGE IS SOLE PROPERTY OF DESIGN TECH, INC.	STMS012507 MS MODULAR	Title: TEMP. FOUNDATION REQ		Drawn By: . . . Date: .	Model No. 1240	Pg. 9C.2
				Revised By: . . . Date: .		

FOUNDATION BASE ON

1200 PSF SOIL

MAX. GROUND SNOW LOAD : 30 PSF

MAX. WIND SPEED: 150 MPH

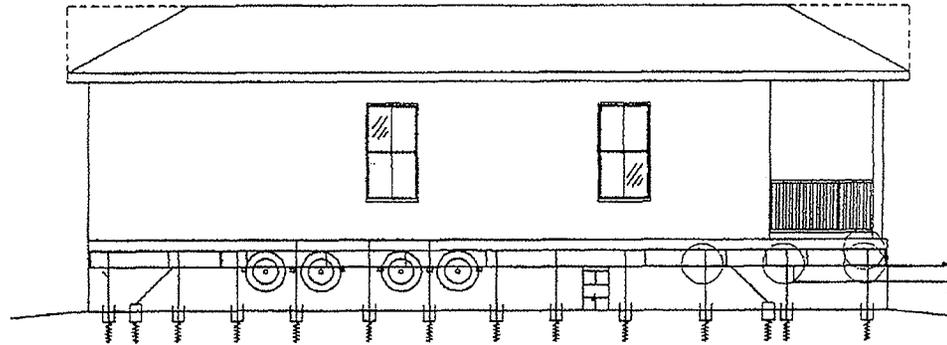
WIND EXPOSURE: B

MAX MEAN ROOF HEIGHT: 30'

SEISMIC DESIGN CATEGORY: C

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.

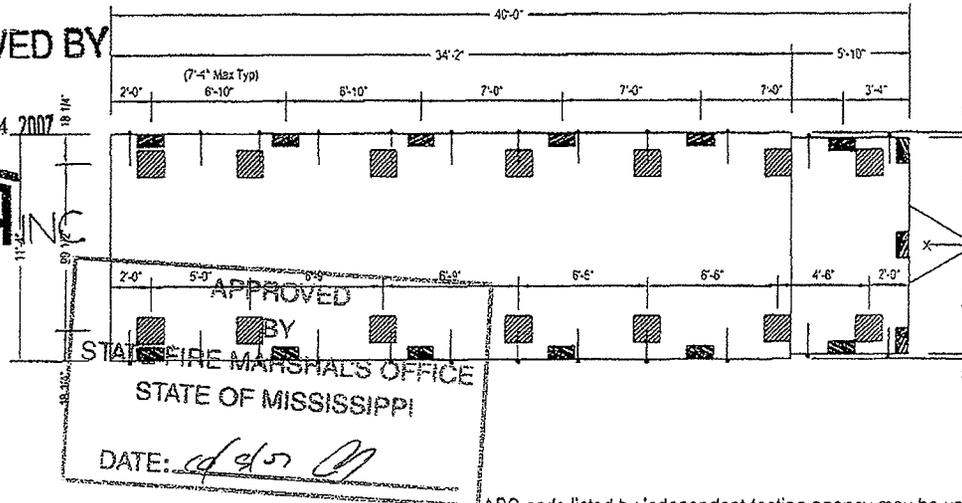
* NOTES PIER LOADS AT EACH LOCATION.
PERIMTER PIERS MAY ROTATED AS REQ.



APPROVED BY

SEP - 4 2007

NIA INC



'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 2200 lbs.

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"

NOTE: SEE PAGE 9D FOR ADDITIONAL FOUNDATION INFORMATION

ALL INFORMATION AND DESIGN IN THIS PACKAGE IS SOLE PROPERTY OF DESIGN TECH INC.

STMS012507
HS MODULAR

FILE: TEMP. FOUNDATION REQ



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

Model No. 1240

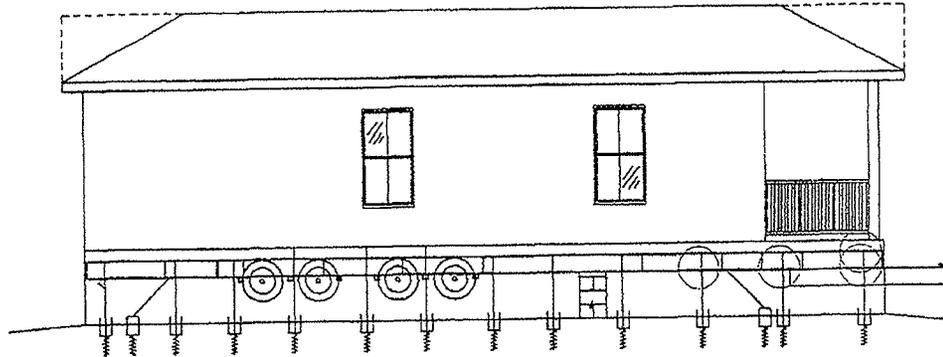
Pg. 9C.3

**FOUNDATION BASE ON
2000 PSF SOIL**

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

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.

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



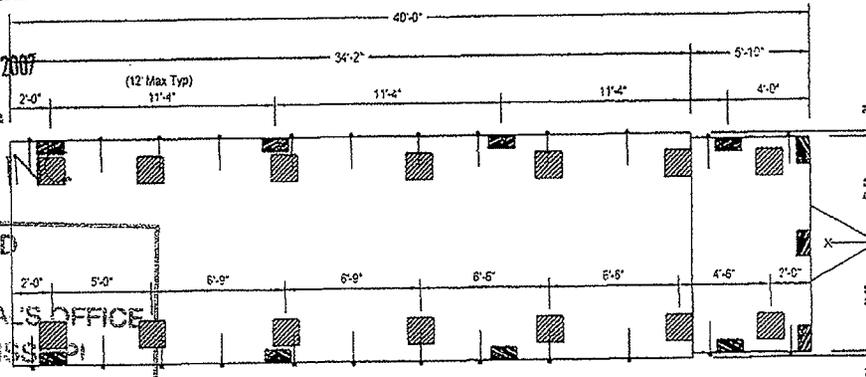
APPROVED BY

SEP - 4 2007



NIA

APPROVED BY
 STATE FIRE MARSHAL'S OFFICE
 STATE OF MISSISSIPPI
 DATE: 10/9/07



'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 2200 lbs.

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"

**NOTE: SEE PAGE 9D FOR ADDITIONAL
FOUNDATION INFORMATION**

ALL INFORMATION AND
 DESIGN IN THIS PACKAGE
 IS SOLE PROPERTY OF
 DESIGN TECH INC.

STMS012507
 MS MODULAR

Title: TEMP. FOUNDATION REQ



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

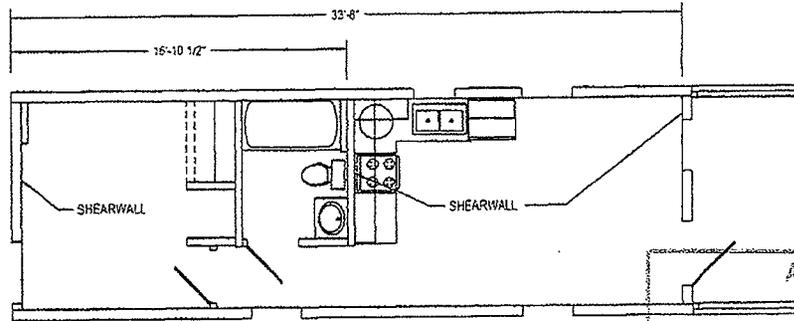
Model No. 1240

Pg. 9C.4

APPROVED BY

SEP - 4 2007

NIA INC

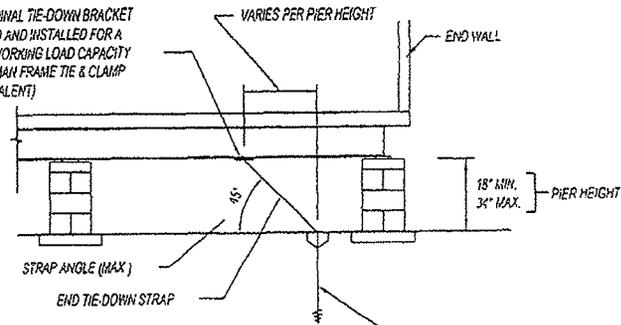


APPROVED BY
STATE FIRE MARSHAL'S OFFICE
STATE OF MISSISSIPPI
DATE: 10/3/07

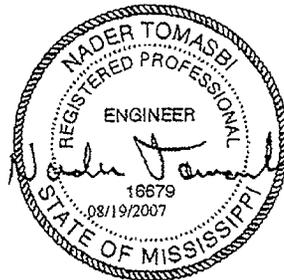
NOTES:

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 FOOTING MUST BE PRE-CAST OR POUR-IN-PLACE CONCRETE AT LEAST 6" 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 DRIVEN 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 REGISTER 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 PRETENSIONED 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.

LONGITUDINAL TIE-DOWN BRACKET
CERTIFIED AND INSTALLED FOR A
3150 LB. WORKING LOAD CAPACITY
(MINUTE MAIN FRAME TIE & CLAMP
OR EQUIVALENT)



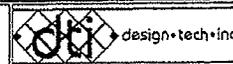
GROUND ANCHOR w/STABILIZING
DEVICE (TYPICAL)
NOTE: ANCHORS SHALL BE CERTIFIED
BY THE MANUFACTURER AND INSTALLED
PER THE MANUFACTURER'S INSTRUCTIONS.



ALL INFORMATION AND
DESIGN IN THIS PACKAGE
IS SOLE PROPERTY OF
DESIGN TECH INC.

STMS012507
MS MODULAR

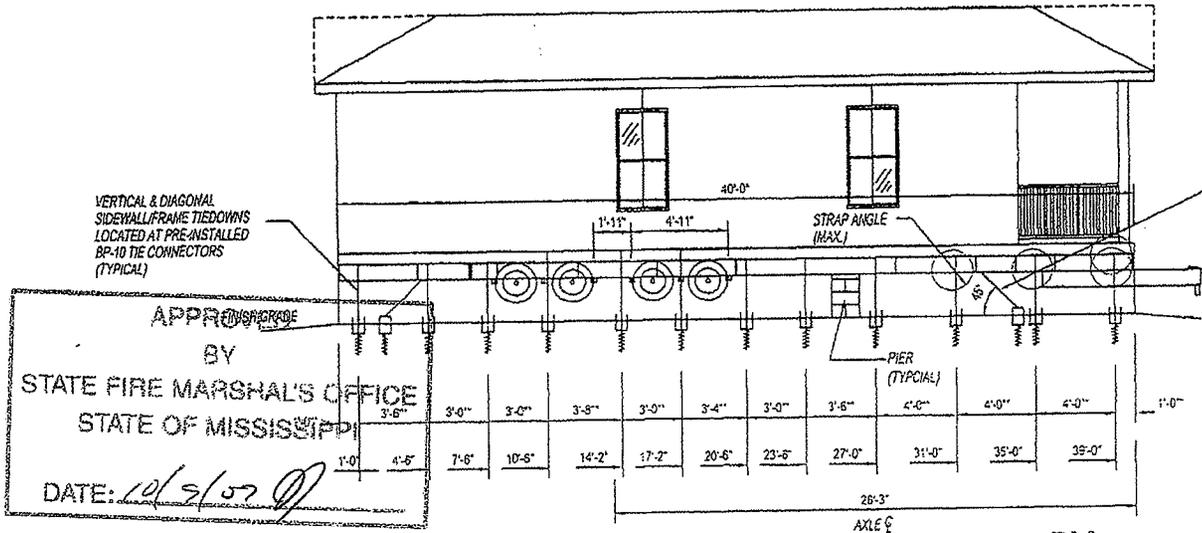
Title: TEMP. FOUNDATION REQ



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

Model No. 1240

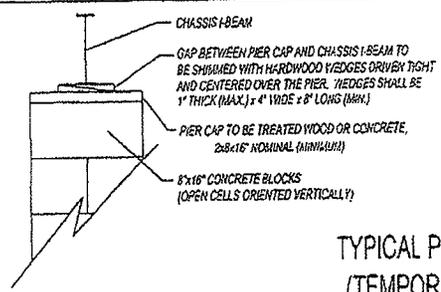
Pg. 9D



APPROVED BY
 STATE FIRE MARSHAL'S OFFICE
 STATE OF MISSISSIPPI
 DATE: 10/5/07

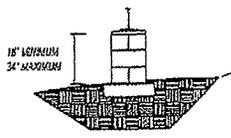


APPROVED BY



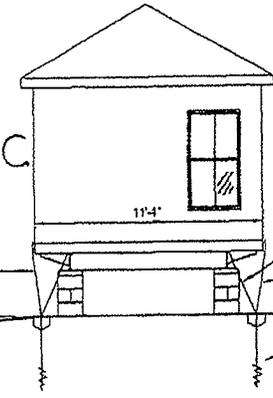
TYPICAL PIER CONSTRUCTION
 (TEMPORARY FOUNDATION)

- GENERAL NOTES:**
1. ALL ORGANIC AND DECAYABLE MATERIAL, SUCH AS GRASS, ROOTS, SCRAP WOOD, ETC., MUST BE REMOVED FROM BENEATH THE FOOTINGS AND HOME.
 2. THE SITE SHALL BE PROPERLY GRADED TO PERMIT WATER TO DRAIN AWAY FROM THE HOME.
 3. A 6-MIL POLYETHYLENE SHEETING VAPOR RETARDER MUST BE INSTALLED TO COVER THE ENTIRE AREA BENEATH THE HOME. THE SHEETING SHALL OVERLAP A MINIMUM OF 6" AT ALL SEAMS.
 4. THE FOOTINGS MUST BE PRE-CAST OR POUR-IN-PLACE CONCRETE WITH A COMPRESSIVE STRENGTH (FC) OF 3000 PSI MINIMUM. (ABS PADS LISTED BY AN INDEPENDENT TESTING AGENCY MAY BE USED IF THE RATED CAPACITY IS IN EXCESS OF THE REQUIRED PIER LOADS, PROPERLY APPROVED FOR THE SITE CONDITIONS AND IS ACCEPTABLE TO THE LOCAL AUTHORITY HAVING JURISDICTION.)
 5. PIERS TO BE DOUBLE 8"x15" CONCRETE BLOCKS, MORTAR OR EXTERIOR STRUCTURAL COATINGS WHEN REQUIRED BY LOCAL OFFICIALS AND/OR CODES.
 6. REFERENCE DETAIL 44.5 FOR ADDITIONAL PIER AND FOOTING REQUIREMENTS.



FINAL GRADE AND BACK FILL TO BE INSTALLED WITH A CROWN TO ENSURE THAT SURFACE WATER FLOWS AWAY FROM THE HOME AND PREVENT ANY WATER FROM OCCUMULATING UNDER THE PIER.

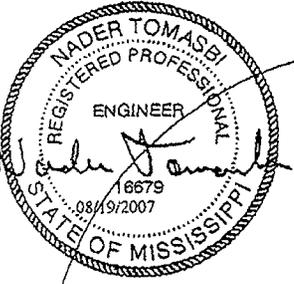
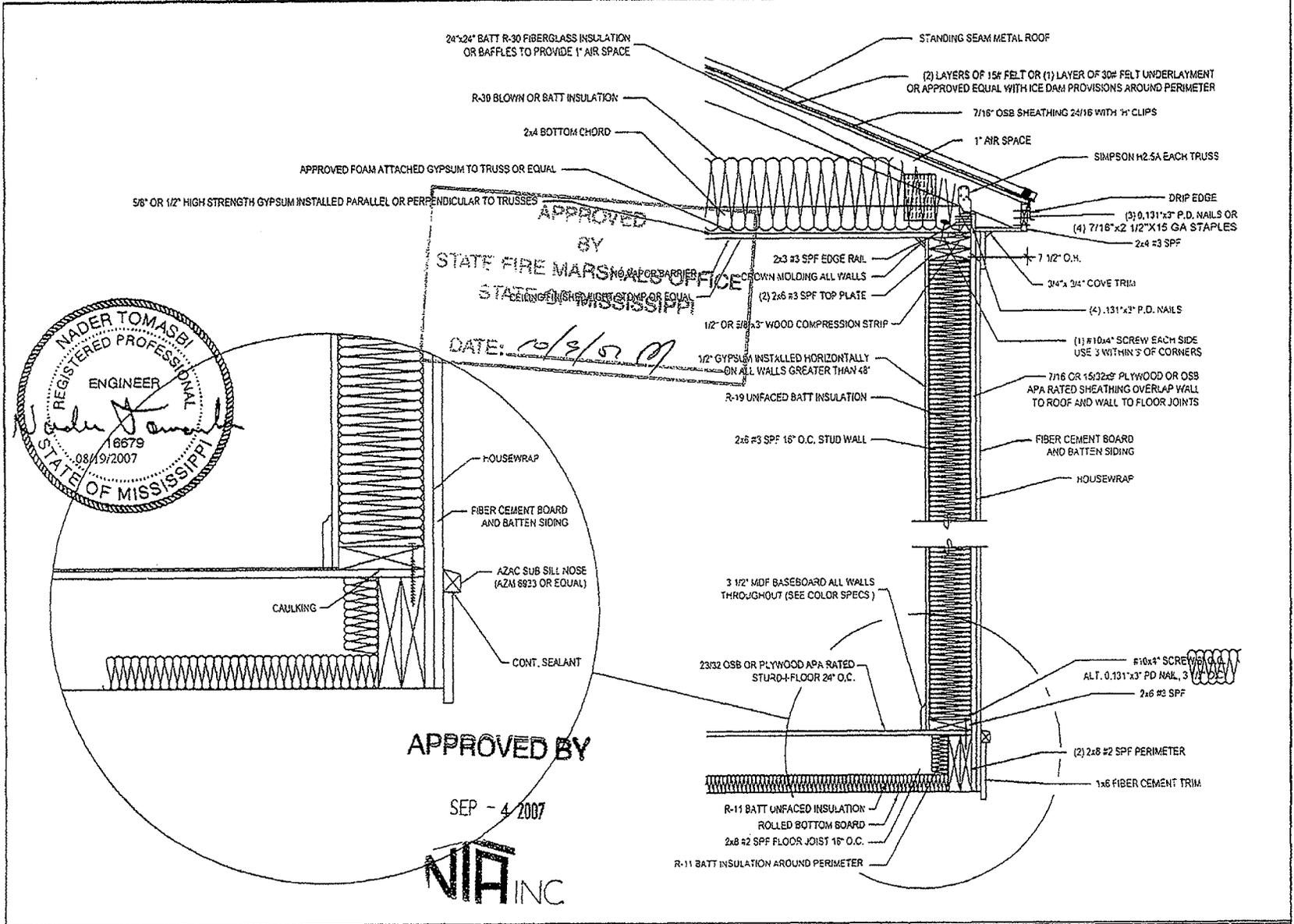
SEP - 4 2007



NOTE: ANCHORS SHALL BE CERTIFIED BY MANUFACTURER AND INSTALLED PER MANUFACTURER'S INSTRUCTIONS



ALL INFORMATION AND DESIGN IN THIS PACKAGE IS SOLE PROPERTY OF DESIGN TECH, INC.	STMS012507 HMS MODULAR	Title: Tie-Down Design Details (Temporary Set)	design • tech • inc	Drawn By: . . . Date: . . .	Model No. 1240	Pg. 9E
				Revised By: . . . Date: . . .		



APPROVED BY
 STATE FIRE MARSHAL'S OFFICE
 STATE OF MISSISSIPPI
 DATE: 10/3/07

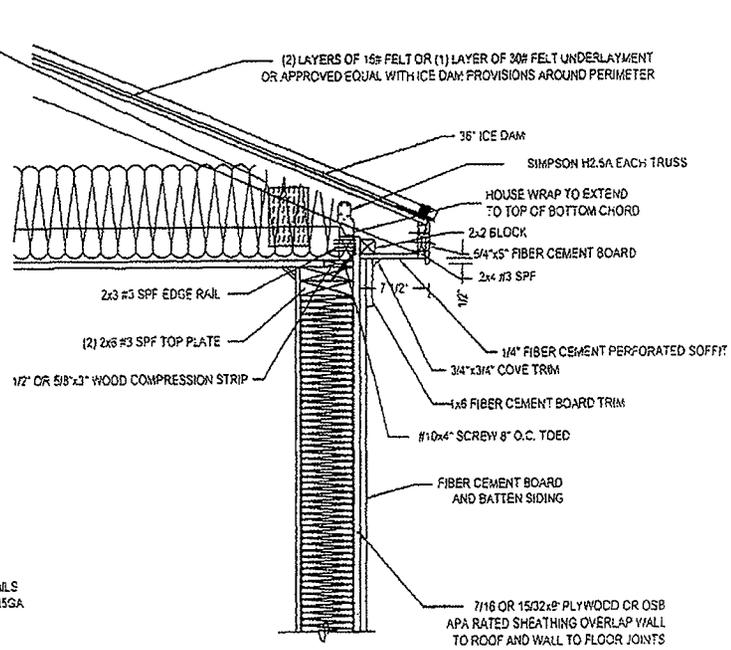
APPROVED BY

SEP - 4 2007



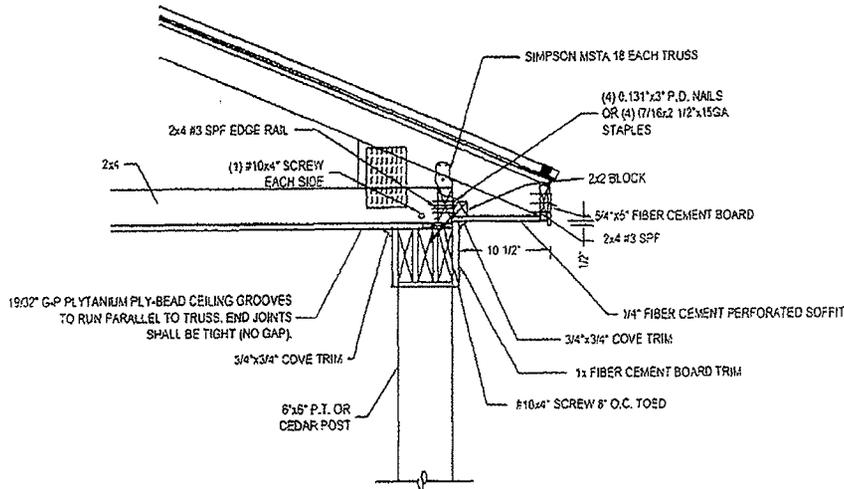
<small>ALL INFORMATION AND DESIGN IN THIS PACKAGE IS SOLE PROPERTY OF DESIGN TECH INC.</small>	STMS012507 <small>MS HDD-LAR</small>	Title: Sidewall Cross Section design • tech • inc	Drawn By: . . . Date: . . . Revised By: . . . Date: . . .	Model No. 1240	Pg. 10A

APPROVED
BY
STATE FIRE MARSHAL'S OFFICE
STATE OF MISSISSIPPI
DATE: 10/2/07



STANDARD SIDEWALL OVERHANG

NOT TO SCALE



PORCH SIDEWALL OVERHANG

NOT TO SCALE

APPROVED BY

SEP - 4 2007

NIA INC



ALL INFORMATION AND DESIGN IN THIS PACKAGE IS SOLE PROPERTY OF DESIGN TECH INC.

STMS012507
MS MODULAR

Title: Alternate Cross Section



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

Model No. 1240

Pg. 10B

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.

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

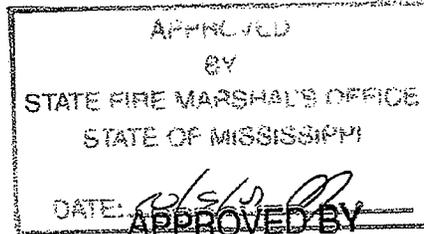
1x3 FRAME BOARD INSIDE DIMENSION TO BE LARGER THAN OUTSIDE DIMENSION OF THE WINDOW FRAME AND FASTENED TO SOLID FRAMING MEMBER BEHIND SIDING.
1x3 FRAME BOARD MAY BE ELIMINATED WHERE OSB CAN BE ATTACHED DIRECTLY TO THE FRAMING WITHOUT ANY OBSTRUCTIONS

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

7/16" OSB MIN.



WIND BORNE DEBRIS PROTECTION DETAIL



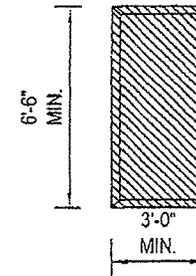
SEP - 4 2007



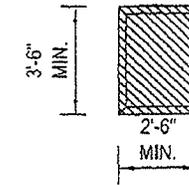
3'x6' MAX. WINDOW SIZE x 54.2 PSF=975.2#
SCREWS: 82x1.6x1" PENT. = 131#
975.2/13=7.4 OR 8 SCREWS.

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

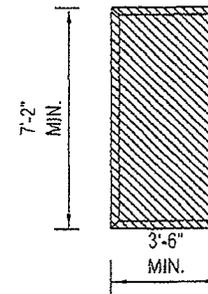
120/8=15" O.C.



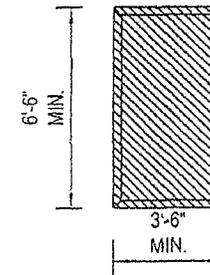
LIVING & DINING ROOM WINDOW
4-REQ.
1x3 EDGES FRAMING SQUARE OR 45° CUT WITH 7/16" OSB COVERING MINIMUM



KITCHEN 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



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

ALL INFORMATION AND DESIGN IN THIS PACKAGE IS SOLE PROPERTY OF DESIGN TECH INC.

STMS012507
MS MODULAR

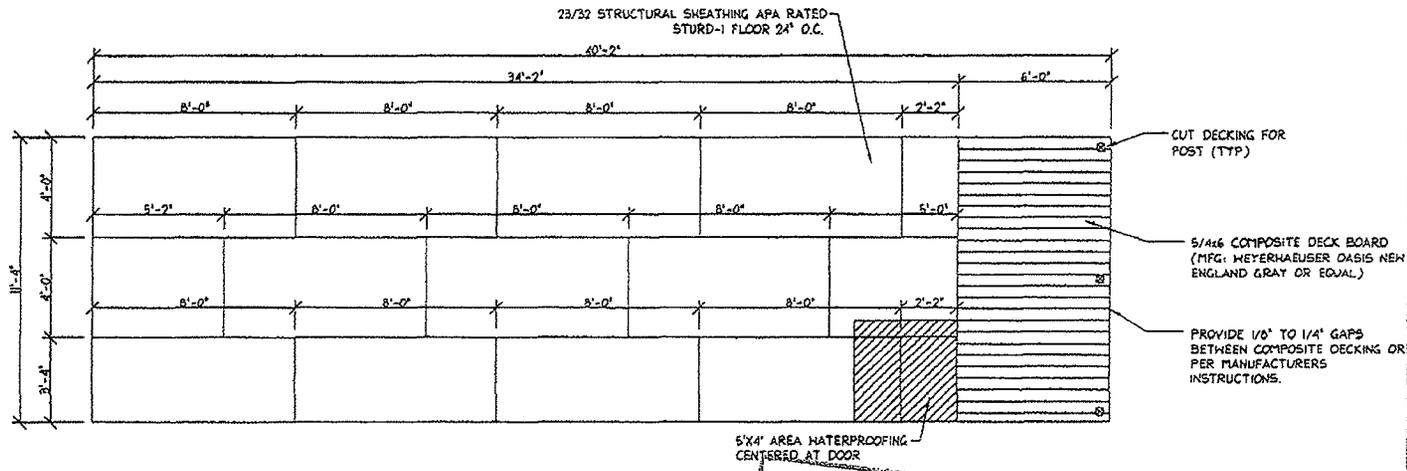
Title: Ship Loose Window Protectors



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

Model No. 1240

Pg. 11



ERAZING NOTES:

1. PERIMETER RAIL TO TRANSVERSE JOIST (8) 131x3 P.D. NAILS.
2. PERIMETER SPLICE 4x4x20 GA CONNECTOR EACH SIDE OR EQUAL.
3. DOUBLE JOIST 131x3 P.D. NAILS 2 ROWS 12" O.C. STAGGERED.
4. 23/32 OSB OR PLYWOOD APA RATED STURD-1-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 (7) #8x2' SCREWS PER JOIST (COMPOSITE DECK BOARD TO BE INSTALLED PER MANUFACTURERS INSTRUCTIONS).
7. BOTTOM BOARD (MFG. SHEPARD MOBILEFLEX OR EQUAL) FASTENED WITH 1"x3/4"x16 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 131"x3" P.D. NAILS, OR 7/16"x2 1/2"x15GA, STAPLES 6" O.C. WITH 100% ADHESIVE.
11. ALL DECKING BEAMS MUST BE SANDED UNDER LINOLEUM OR TILE

FLOOR DECKING

APPROVED BY

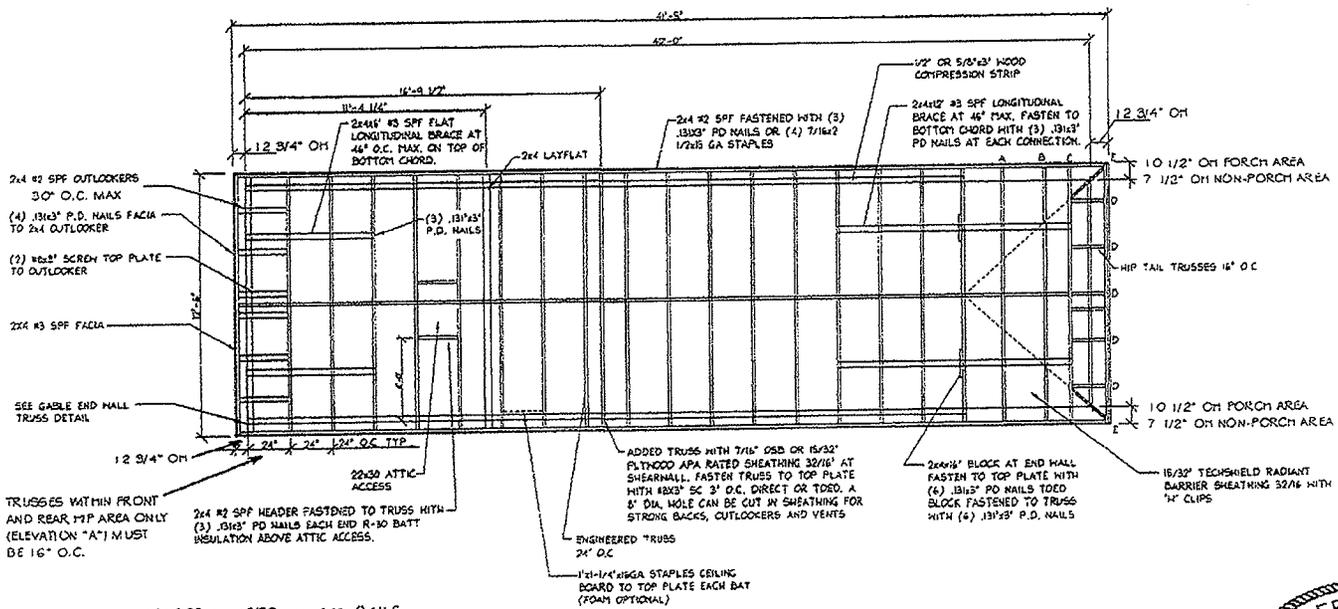
SEP - 4 2007



APPROVED BY
 STATE FIRE MARSHAL'S OFFICE
 STATE OF MISSISSIPPI
 DATE: 4/2/07



Floor decking layout
 Page 12B



- MUST INSTALL 7/16" OSB OR 1 5/32" PLYWOOD, 2 4/16 RATED SHEATHING UNDER METAL ROOF. FASTEN WITH 0.120 X 3" RING-SHANK NAILS 4 3/4" O.C. AT EDGES AND FIELD. UNION CORRUGATING 26 GA. ADVANTAGE LOK II METAL ROOF. METAL ROOF APPROVAL AND INSTALLATION MUST BE PROVIDED BY METAL ROOF MANUFACTURER FOR APPLIED WIND LOAD (PE SEALED) AND IS NOT PART OF THIS PACKAGE.
- 7/16" OSB OR 1 5/32" PLYWOOD APA RATED SHEATHING 32/16" FASTENED TO END TRUSSES AT SHEARWALL AND AT INTERIOR SHEARWALL WITH 7/16" X 1 1/2" GA STAPLES 3' O.C. TOP AND BOTTOM CHORD.
- 1/2" OR 5/8" X 3" WOOD COMPRESSION STRIP ON TOP OF SIDERALLS ONLY (CUT BACK 1/2" OR 5/8" GYPSUM CEILING BOARD)
- ELEVATION "A" REQUIRES A HP DESIGN AT BOTH ENDS AND ELEVATION "B" REQUIRES A GABLE ROOF DESIGN AT BOTH ENDS.

ROOF FRAMING

APPROVED BY

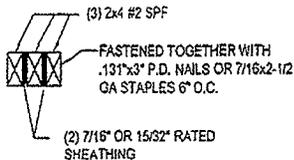
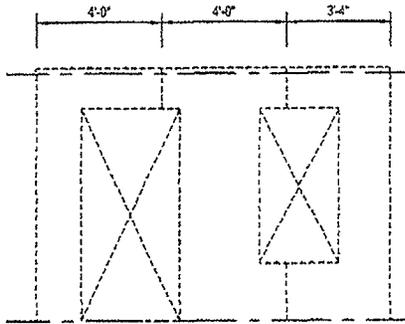
SEP - 4 2007



APPROVED BY
STATE FIRE MARSHAL'S OFFICE
STATE OF MISSISSIPPI
DATE: 10/6/07

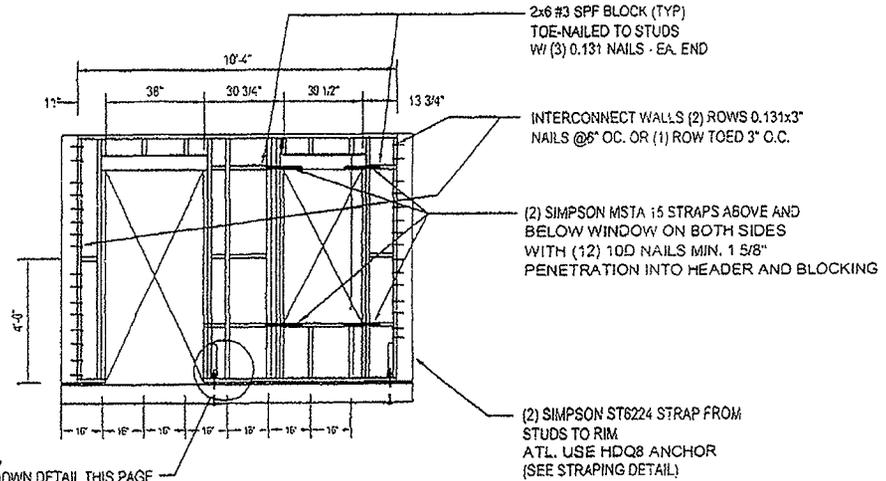


7/16" APA RATED SHEATHING WITH STUDS AT 16" O.C. OR 15/32" APA RATED SHEATHING ON BOTH FACES, WITH .131x3" NAILS AT 4" O.C. EDGE AND 6" O.C. FIELD, 15GA STAPLES 3" O.C. PANEL FORCE 633 PLF.



HEADER SECTION

SCALE: NONE



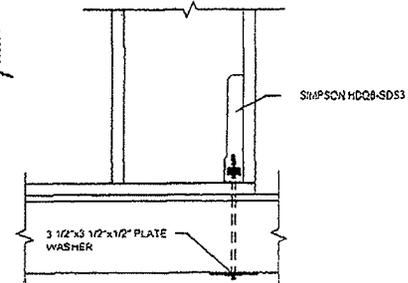
APPROVED BY [Signature] SEE TIE DOWN DETAIL THIS PAGE

SEP - 4 2007

NIA INC



APPROVED BY [Signature] FIRE MARSHAL'S OFFICE STATE OF MISSISSIPPI DATE: 10/9/07



ALTERNATIVE TIE DOWN DETAIL SCALE: NONE

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 3" O.C.
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 3" 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. EDGE 6" O.C. FIELD MIN.
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 END AND EACH END.
8. MULTIPLE STUDS FASTEN ON TOGETHER WITH .131 X 3" P.D. NAILS OR 7/16 X 2 1/2 X 15 GAUGE STAPLE 3" 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.

ALL INFORMATION AND DESIGN IN THIS PACKAGE IS SOLE PROPERTY OF DESIGN TECH INC.

STMS012507 MS MODULAR

Title:

Front Shearwall

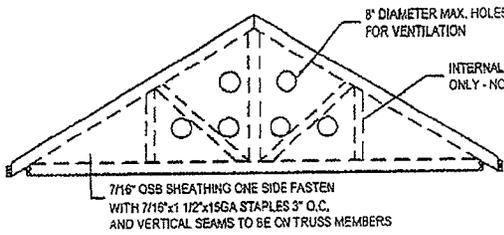


Drawn By: . Date: .
Revised By: . Date: .

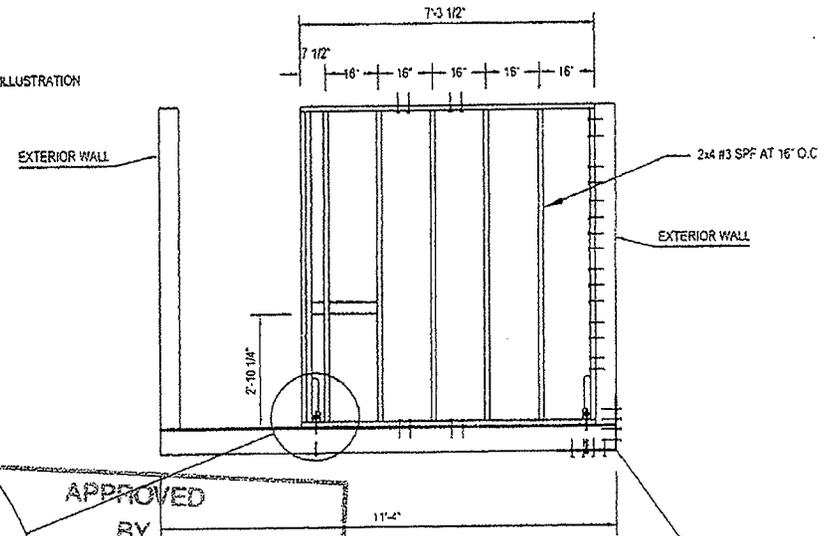
Model No.

1240

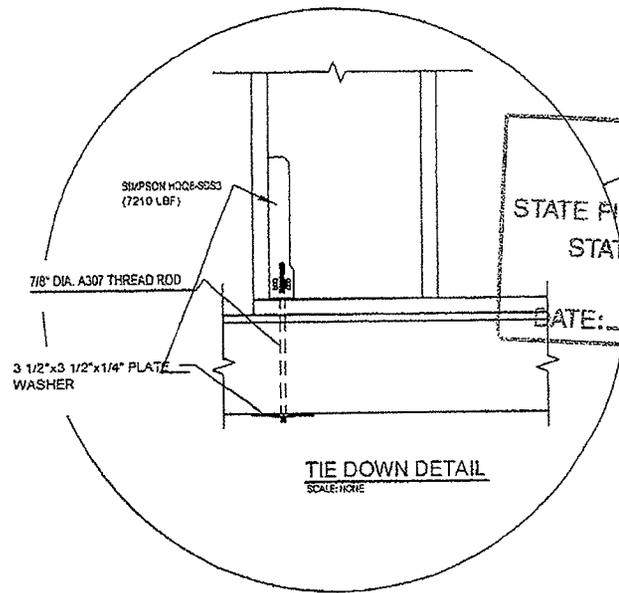
Pg. 13A



INTERIOR SHEARWALL TRUSS
SCALE: NONE



SIMPSON CMST14 STRAP (OPTIONAL WHEN SIMPSON HDQ8 IS USED)
(4x) 0.131x2 1/2" NAILS EACH END, 40" MIN. LENGTH EACH END OF JOIST WRAP AROUND BAND JOIST TO ANCHOR (5138 LBF)



APPROVED BY
STATE FIRE MARSHAL'S OFFICE
STATE OF MISSISSIPPI
DATE: 9/3/07

APPROVED BY

SEP - 4 2007



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.

ALL INFORMATION AND DESIGN IN THIS PACKAGE IS SOLE PROPERTY OF DESIGN TECH, 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.

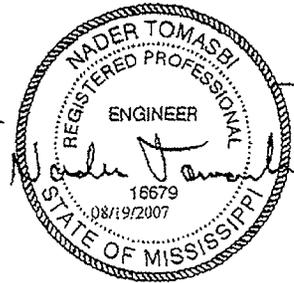
4'-0" 4'-0" 3'-4"

APPROVED BY
STATE FIRE MARSHAL'S OFFICE
STATE OF MISSISSIPPI

DATE: *10/2/07*

APPROVED BY

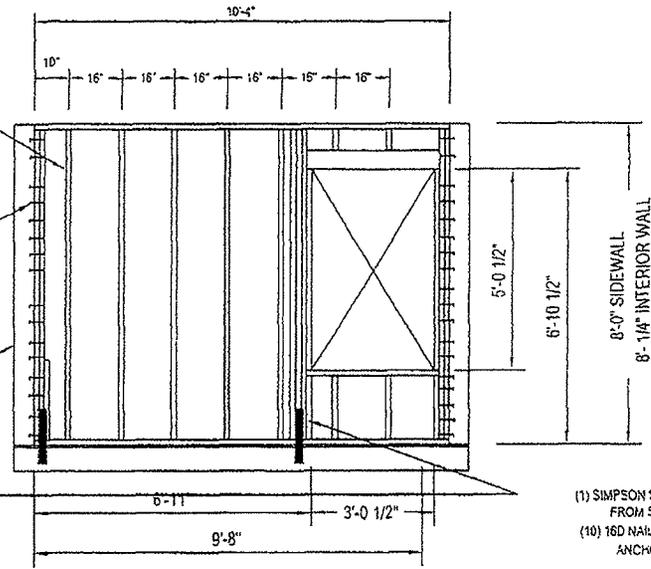
SEP - 4 2007



2x6 #3 SPF STUDS AT 16" O.C.

0.131x3 1/2" TOE NAILS 3" O.C. (1 1/2" MIN. PENETRATION)

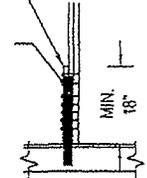
DOUBLE 2x6 IN SIDEWALL



(1) SIMPSON ST8215 STRAP FROM STUDS TO RIM
(10) 16D NAILS EACH END, ANCHOR (1970 LBF)

STUDS WILL BE UNDER WINDOW

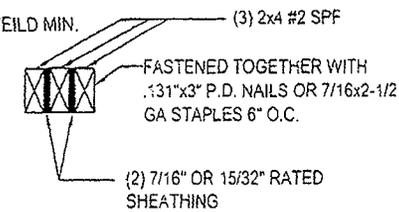
(1) SIMPSON ST6215 STRAP FROM STUDS TO RIM
(10) 16D NAILS EACH END, ANCHOR (1970 LBF)



WALL FRAMING NOTES:



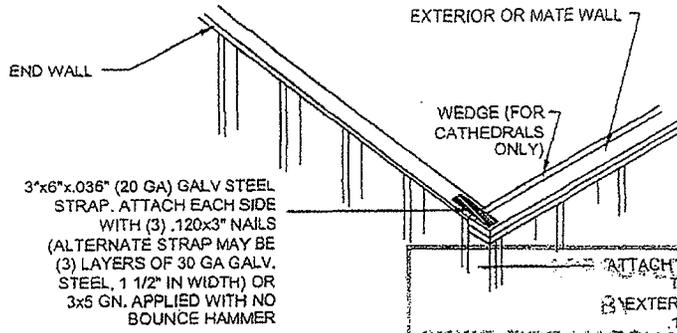
1. FASTEN BOTTOM PLATE TO JOIST WITH .131x3" NAILS OR #8x3" SCREWS AT 3" O.C. (16 PER BAY)
2. FASTEN 1/2" DRYWALL TO STUDS WITH #6 X 1 1/4" DRY WALL SCREWS OR 1 5/8" DRYWALL NAILS 8" O.C. EDGES 16" O.C. FIELD WITH 80% ADHESIVE
3. FASTEN TOP AND BOTTOM PLATES TO STUDS WITH (3) .131X3" P.D. NAILS OR (4) 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. FEILD 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

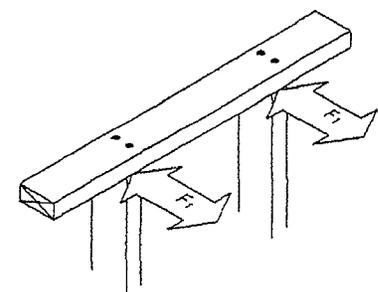
SCALE: NONE

<small>ALL INFORMATION AND DESIGN IN THIS PACKAGE IS SOLE PROPERTY OF DESIGN TECH INC.</small>	STMS012507 MS MODULAR	Title: Rear Shearwall		Drawn By: . Date: .	Model No. 1240	Pg. 13C
				Revised By: . Date: .		



APPROVED BY

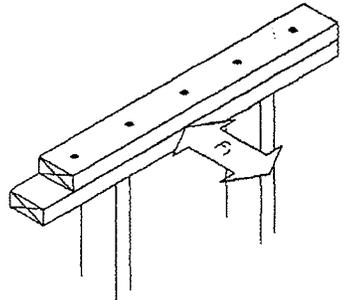
SEP - 4 2007



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

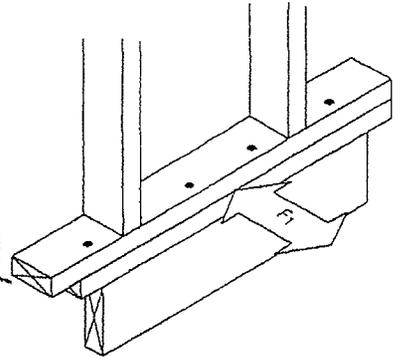
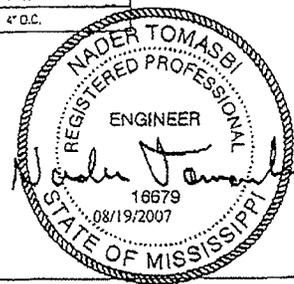
ATTACH INTERIOR WALL TO INTERIOR OR EXTERIOR WALL WITH .131x3" NAILS OR 3x5 GN. SCREWS AT 16" O.C.
 STATE FIRE MARSHAL'S OFFICE
 STATE OF MISSISSIPPI
 SCALE: NONE
 DATE: 10/3/07

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

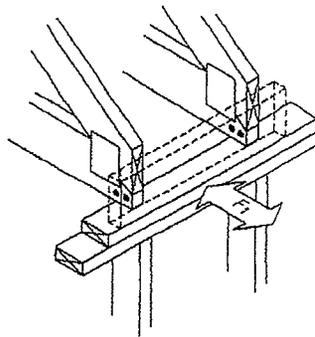


CONNECTION		
PARAMETERS	FASTENER (MINIMUM LENGTH AND DIAMETER OR STAPLE SIZE)	QUANTITY PER CONNECTION OR SPACING
	3"x0.131" P.D. NAIL	136" FLOOR
	2 1/2"x15 GA. STAPLE	8" O.C.
		4" O.C.

CONNECTION	PARAMETERS	QUANTITY PER CONNECTION OR SPACING
CORNER STUD SIDEWALL/ENDWALL INTERSECTION 		3"x0.131" P.D. NAIL 16" O.C.
		2 1/2"x15 GA. STAPLE 16" O.C.
DOUBLE STUDS OR JACK TO JAMB STUDS 	ALL LOCATIONS	SEE SHEAR/WALL DETAILS
		2 1/2"x15 GA. STAPLE 5" O.C.



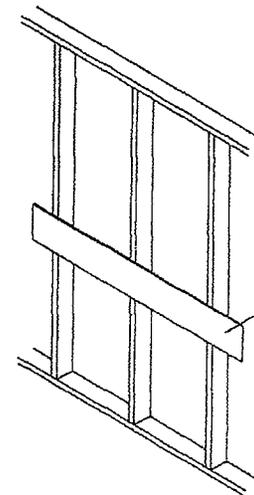
CONNECTION		
PARAMETERS	FASTENER (MINIMUM LENGTH AND DIAMETER OR STAPLE SIZE)	QUANTITY PER CONNECTION OR SPACING
STUD SPACING = 16" O.C.	#8x3" SCREW	3 PER BAY
	3"x0.131" P.D. NAIL	3 PER BAY
	2 1/2"x15 GA. STAPLE	4 PER BAY



ALTERNATE CONNECTION		
PARAMETERS	FASTENER (MINIMUM LENGTH AND DIAMETER OR STAPLE SIZE)	QUANTITY PER CONNECTION OR SPACING
TRUSS SPACING = 24" O.C.	#10x4" SCREW	136" FLOOR
		1 EACH SIDE OF TRUSS TO TOP PLATE (WITHIN 3' OF CORNERS)
		FROM RAIL TO TOP PLATE, EVERY 5'

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

APPROVED
BY
STATE FIRE MARSHAL'S OFFICE
STATE OF MISSISSIPPI
DATE: 10/9/07



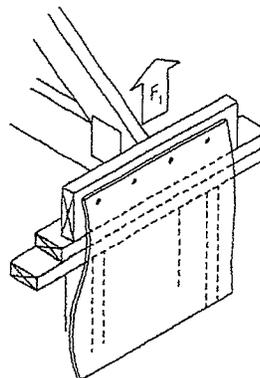
CONTINUOUS LAMIN BELTRAIL, SURFACE MOUNTED
VALID FOR EXTERIOR AND INTERIOR WALLS.
(MAY BE FULL HT. LAMIN)

BELTRAIL DETAIL

APPROVED BY

SEP - 4 2007

NIA INC.



CONNECTION		
PARAMETERS	FASTENER (MINIMUM LENGTH AND DIAMETER OR STAPLE SIZE)	QUANTITY PER CONNECTION OR SPACING (AT TOP & BOTTOM)
SHEATHING TYPE: 15/32" APA RATED PLYWOOD OR OSB	3"x0.131" P.D. NAIL	196" FLOOR
	1 1/2"x16 GA. STAPLE	2" O.C.
	1 1/2"x16 GA. STAPLE	2" O.C.



ALL INFORMATION AND
DESIGN IN THIS PACKAGE
IS SOLE PROPERTY OF
DESIGN TECH INC.

STMS012507
MS MODULAR

Title:

Connection Details



design•tech•inc

Drawn By: Date:

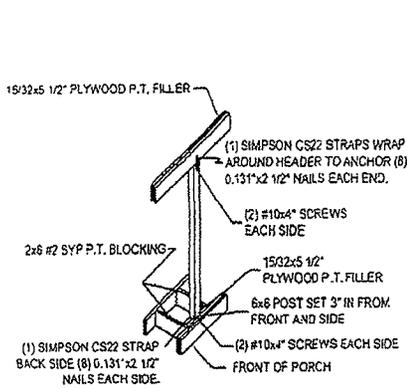
Revised By: Date:

Model No.

1240

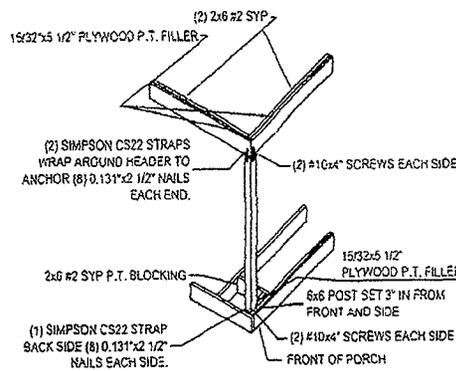
Pg.

14B



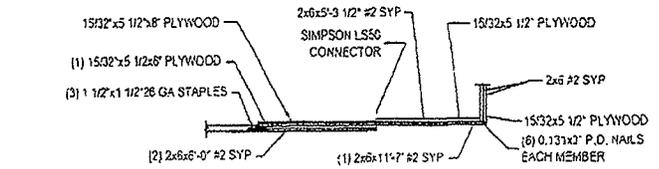
MIDDLE POST DETAIL

SCALE: NONE



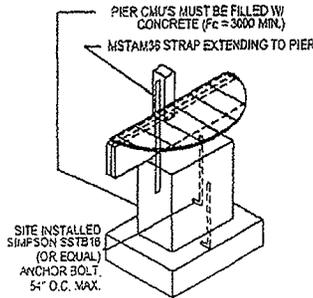
CORNER POST DETAIL

SCALE: NONE



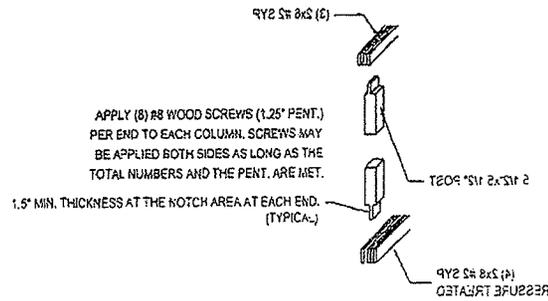
PORCH FRAMING DETAIL

SCALE: NONE



POST END DETAIL

APPLIES TO PERMANENT HOME SET

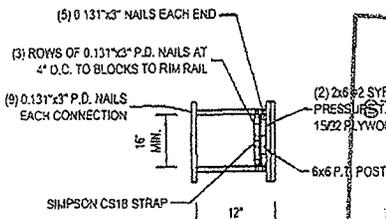
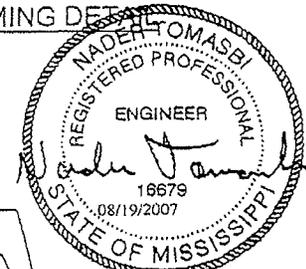


ALT. POST DETAIL

SCALE: NONE

APPROVED BY

SEP - 4 2007



BLOCKING FOR POST MIDDLE DETAIL

SCALE: NONE

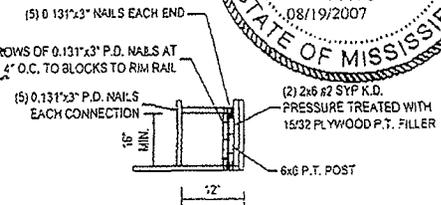
APPROVED

BY

STATE OF MISSISSIPPI

DATE: 10/5/07

NOTE:
ALL PLYWOOD 15/32 APA RATED SHEATHING 3216
ALL EXPOSED WOOD PRESSURE TREATED



BLOCKING FOR POST CORNER DETAIL

SCALE: NONE

ALL INFORMATION AND DESIGN IN THIS PACKAGE IS SOLE PROPERTY OF DESIGN TECH INC.

STMS012507
MS MODULAR

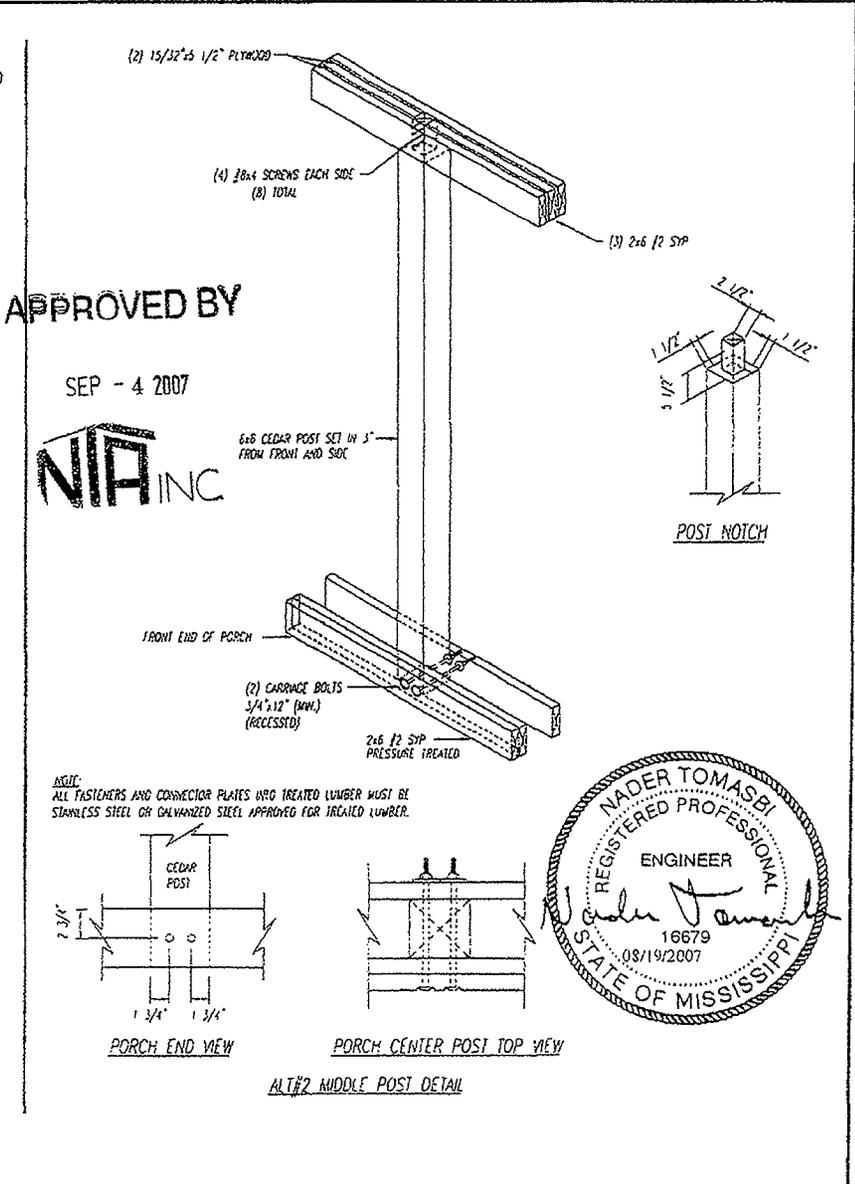
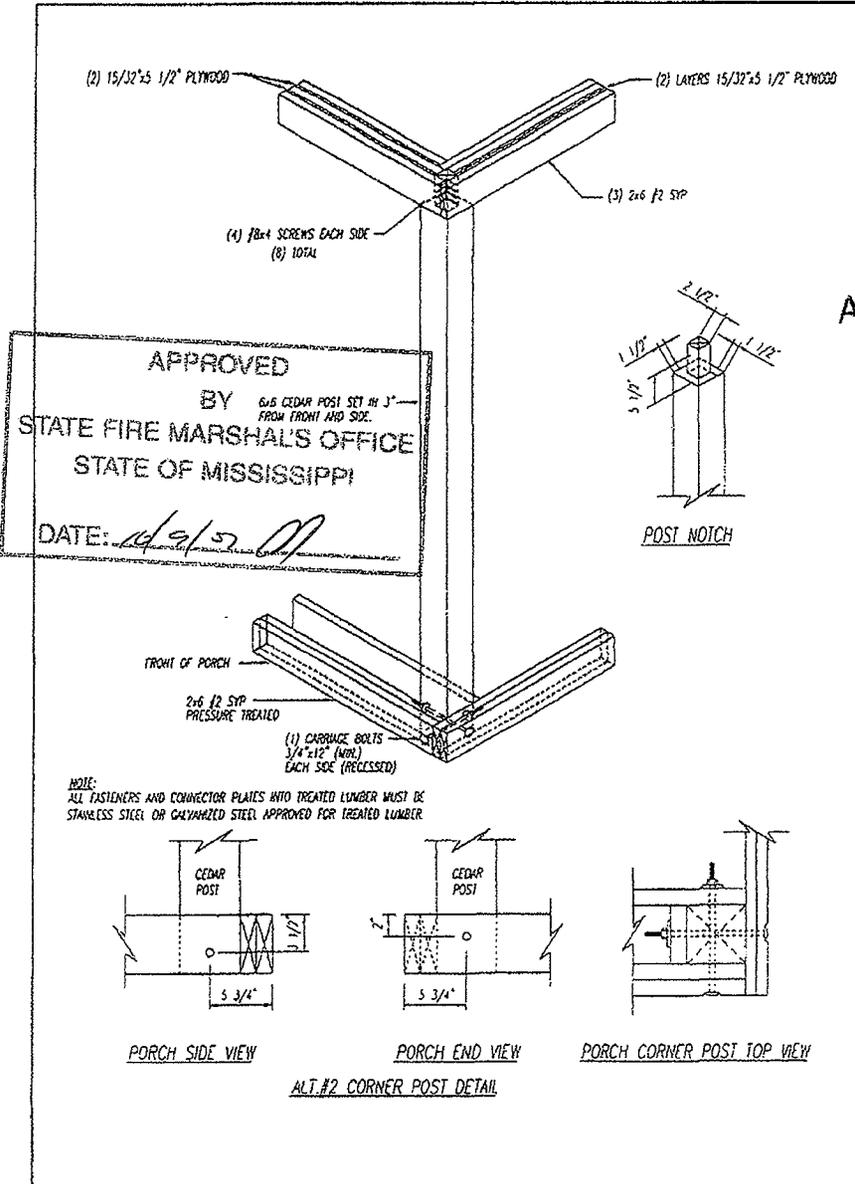
Title: **Porch Framing Details**



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

Model No. 1240

Pg. 15A



ALL INFORMATION AND DESIGN IN THIS PACKAGE IS SOLE PROPERTY OF DESIGN TECH INC.

STMS012507
MS MODULAR

Title: Porch Framing Details



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

Model No. 1240

Pg. 15B.1