

September 3, 2020

Champion Home Builders, Inc. P. O. Box 2097 Lake City, FL 32025

RE: Manufacturer: Champion Home Builders, Inc.

S/N Size & Occupancy: 261-C-MR9483B; 29'-0" X 48'-0"; SFD

HWC Plan#: 1R 2425-0810F

## To Whom It May Concern:

This is to certify that the plans for the referenced manufactured building have been reviewed and approved as being in compliance with the 2017 Florida Codes as noted on the approved drawings, subject to the following limitations:

- 1. Approval covers factory-built structure only. (Note: Any alterations to factory built structure on site voids state approval)
- 2. Items installed at the site are subject to review, approval, and inspection by the local authority having jurisdiction.
- 3. The Chapter 633 Plan Review and Inspection shall be conducted by the local fire safety inspector.
- 4. Signed and sealed plans shall be on file with HWC Engineering.
- 5. NOT Approved for High Velocity Hurricane Zone (i.e. Broward and Dade Counties)

Sincerely,

HILBORN, WERNER, CARTER & ASSOCIATES, INC.

Plan Reviewer

# CHAMPION

MANUFACTURED BEAUTIFULLY

CHAMPION HOME BUILDERS, INC. P.O. BOX 2097 (1915 SE STATE ROAD 100) LAKE CITY, FL 32056

## SHEET INDEX

### SHEET INDEX CONT.

COVER SHEET **GE-101 GENERAL NOTES**  SW-101 ROOF DIAPHRAGM-SHEARWALL LAYOUT SW-102 SHEARWALL DETAILS

GE-102 ELECTRIC PANEL **EV-101 ELEVATIONS** 

SW-103 CONNECTION DETAIL

AE-101 FLOOR PLAN M-101 DUCT PLAN

D-101 DWV PLAN WATER LINE PLAN

SE-101 TYPICAL CROSS SECTION - ON FRAME TYPICAL CROSS SECTION - OFF FRAME

PIER FOUNDATION PLAN

PERIMETER FOUNDATION PLAN

**BUILDING INSULATION VALUES:** 

WALLS: FLOOR: R-19 R-11

**CEILING:** 

R-30

WINDOWS:

U = 0.30 / SHGC = 0.25

9.28 SQUARE FEET NET FREE AREA OF ATTIC VENTILATION TO BE PROVIDED BY SOFFIT AND RIDGE VENTS/ROOF VENTS.

9.28 SQUARE FEET NET FREE AREA OF CRAWL SPACE VENTILATION TO BE PROVIDED BY FOUNDATION CONTRACTOR.

1st-FLOOR IS 1,392 SQ. FT. - TOTAL CONDITIONED FLOOR AREA.

#### NOTE:

COMPLETION OF THIS BUILDING TO BE IN COMPLIANCE WITH ALL STATE AND LOCAL DESIGN CODES, ALL WORK TO BE COMPLETED BY A LICENSED CONTRACTOR AND INSPECTED BY A LOCAL BUILDING OFFICIAL.

"STRUCTURE HAS BEEN DESIGNED FOR INSTALLATION ON SITE - BUILT PERMANENT FOUNDATION AND IS NOT INTENDED TO BE MOVED, ONCE SO INSTALLED."

C-MR9483B 1,392 Sq.Ft.

CODE SUMMARY:								
STATE	RESIDENTIAL	ELECTRICAL	MECHANICAL	PLUMBING	ENERGY	FIRE PREVENTION	FUEL	ACCESSIBILITY
FLORIDA	2017 FLORIDA RESIDENTIAL BUILDING CODE 6th EDITION	2014 NATIONAL ELECTRICAL CODE	2017 FLORIDA RESIDENTIAL BUILDING CODE 6th EDITION	2017 FLORIDA RESIDENTIAL BUILDING CODE 6th EDITION	2017 FLORIDA RESIDENTIAL BUILDING CODE ENERGY CONSERVATION 6th EDITION	2017 FLORIDA FIRE PREVENTION 6th Edition	2017 FLORIDA RESIDENTIAL BUILDING CODE 6th EDITION	2017 FLORIDA ACCESSIBILITY (INCORPORATES 2010 ADA)



	1-STORY					
	TRUSS PACKAG	-				
_	UNIVERSAL FOREST PRODUCTS  14'-6" WIDE MODULES					
TRU	TRUSS # / PITCHES					
M6961	M696106 (2.2/12 FLAT)					
M696107	M696107 (2.2/12 FLAT-TRAY)					
'M67	3407 (3/12 FLAT)	YES				

#### NOTES:

ALL MATERIALS COVERED BY THE FLORIDA BUILDING COMMISSION 61 G20-3.006 RULES SHALL HAVE CURRENT FLORIDA PRODUCT APPROVAL

Den 4:3.2020 Mar No. 18 2425-08:0F DATA PLATE AND STATE INSIGNIA'S ARE LOCATED IN or ON THE PANEL BOX OF THE HOME BY SOUTH S. FRANCIS

SEALED PRINTS ARE ON FILE IN THE OFFICE OF HWC, INC.

PLAN REVIEW AND INSPECTION REQUIRED BY CHAPTER 633 F.S., TO BE HANDLED BY LOCAL FIRE SAFETY INSPECTOR.

THIS BUILDING IS ON A PERMANENT FOUNDATION AND IS NOT INTENDED TO BE MOVED ONCE SO INSTALLED.

Manual Take of Free Strands SEE THE STATE APPROVED CONSTRUCTION PACKAGE FOR ROOF CONSTRUCTION DETAILS AND TYPICAL CONSTRUCTION DETAILS.

ADDITIONAL HINGED ROOF DETAILS MUST BE INCLUDED WHEN HOME IS BUILT WITH HINGED ROOF. ACTUAL CONSTRUCTION METHOD AND PRODUCTS MAY VARY FROM DETAILS CONTAINED IN THIS DOCUMENT PROVIDED THE METHOD OF CONSTRUCTION AND PRODUCTS ARE ADDRESSED IN THE DBPR QUALITY ASSURANCE AND BUILDING SYSTEMS MANUAL LOCATED AT THE MANUFACTURING FACILITY.

#### SITE INSTALLED ITEMS:

THAT THIS LIST DOES NOT NECESSARILY LIMIT THE ITEMS OF WORK AND MATERIALS THAT MAY BE REQUIRED FOR A COMPLETE INSTALLATION, ALL SITE RELATED ITEMS ARE SUBJECT TO LOCAL JURISDICTION APPROVAL

- THE COMPLETE FOUNDATION SUPPORT AND TIE DOWN SYSTEM.
- RAMPS, STAIRS AND GENERAL ACCESS TO THE BUILDING.
- PORTABLE FIRE EXTINGUISHER(S).
- BUILDING DRAINS, CLEANOUTS, AND HOOK-UP TO PLUMBING SYSTEM.
- ELECTRICAL SERVICE HOOK-UP (INCLUDING FEEDERS) TO THE BUILDING.
- THE MAIN ELECTRICAL PANEL AND SUB-FEEDERS (MULTI-UNITS ONLY).
- CONNECTION OF ELECTRICAL CIRCUITS CROSSING OVER MODULE MATING LINE(S) (MULTI-UNITS ONLY). STRUCTURAL AND AESTHETIC INTERCONNECTIONS BETWEEN MODULES (MULTI-UNITS ONLY).
- DORMERS, AND ANY OTHER AESTHETIC CONNECTIONS.
- FOUNDATION SILL PLATE ANCHORAGE.
- FLOOR INSULATION MAY BE SITE INSTALLED
- 12. POTABLE WATER SERVICE, MAIN SHUT OFF VALVE.
- OPENING PROTECTION IN WIND DEBRIS REGIONS I.E. WINDOWS, DOORS, SHUTTERS.
- 14. PLAN REVIEW AND INSPECTION REQUIRED BY CHAPTER 633 F.S., TO BE HANDLED BY LOCAL FIRE SAFETY INSPECTOR.
- 15. ROOFING MATERIAL, METAL ROOF, EVE DRIP.
- 16. GABLE ENDWALL FRAMING
- 17. A/C UNIT
- 18. GAS LINES WILL BE STUBBED OUT. CONNECTIONS AND INSTALLATION TO BE DONE BY OTHERS ON SITE. (WHERE APPLICABLE)
  19. A.A.V. (AIR ADMITTANCE VALVE TEST) AFTER DWV TEST
- 20. COMMUNICATION OUTLET PER NEC 800-156
- 21. PORCH PORTICO ARE TO BE COMPLETED ON SITE PER INCULDED DETAILS AND LOCAL CODES. (WHERE APPLICABLE)
- 22. BLOWER DOOR TEST AND WHOLE HOUSE VENTILATION SYSTEM (IF REQUIRED)
- 23. DRYER VENT AND/OR 20A-120v LAUNDRY RECEPT [PER NEC 210.52(F)]

## 2017 FLORIDA RESIDENTIAL **BUILDING CODE** 6TH EDITION

#### **FLORIDA** STRUCTURAL LOAD LIMITATIONS:

### EXPOSURE C

MEAN ROOF HEIGHT: 20 FT FLOOR LIVE LOAD: ROOF LIVE LOAD:

20 PSF WIND LOAD:

WIND SPEED. 116 MPH 2. lw = 1.0 3. C WIND IMPORTANCE FACTOR. WIND EXPOSURE CATEGORY

Pr = ROOF COMPONENT & CLADDING LOAD.(EA10PSF)

ZONE 1 = -28.7 PSF ZONE 2 = -49.9 PSF ZONE 3 = -73.8 PSF ROOF OVERHANG (EA10) ZONE 2 = -58.4 PSF ZONE 3 = -98.2 PSF

Pw = WALL COMPONENT & CLADDING LOAD (FA10)

PW = WALL COMPONENT & CLADDING LOAD, (EA10)
WALL: (WINDOWS, DOORS)
ZONE 4 = -34.0 PSF
ZONE 5 = -41.9 PSF
PW = WALL COMPONENT & CLADDING LOAD, (EA40)

WALL: ( SLIDING GLASS DOORS)

- 5. THIS BUILDING IS NOT DESIGNED FOR PLACEMENT ON THE OF A HILL OR ESCARPMENT EXCEEDING 15 FEET IN HEIGHT.
- 6. FLOOD LOAD:
  THIS BUILDING SHALL NOT BE INSTALLED BELOW THE BASE FLOOD
  ELEVATION IN ANY FLOOD HAZARD AREA OR ZONE, BUT THE
  HOME MAY BE LOCATED IN A FLOOD HAZARD AREA OP ZONE, WHEN SET ON A FOUNDATION DESIGNED FOR USE IN THAT AREA OR VATION OF THE FOUNDATION SHALL BE DESIGNED BY AN ENGINEER REGIS IN THE STATE (BY OTHERS, NOT CHAMPION HOME BUILDERS), THIS FOUNDATION SHALL BE DESIGNED AND CONSTRUCTED TO RESIST ALL LOADS THAT MAY BE EXERTED ON THE STRUCTURE: NO LOADS APPLIED TO THE FOUNDATION SHALL BE TRANSFERRED TO THE HOME.
- 7. THIS BUILDING MAY NOT BE LOCATED SEAWARD OF THE COASTAL CONSTRUCTION CONTROL LINE.

# CHAMPION

MANUFACTURED BEAUTIFULLY

P.O. BOX 2097 HWY 100 EAST LAKE CITY, FL 32056

ENGINEER'S / ARCHITECT'S SEAL STE. EN : DAME P.E. STATE OF 7070NALENT 09/02/2020

APPRO\	ERS SEAL		
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	CUPANCY	SFD	
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	ALLUTAL FLOOR	40	TES :
	APPROUGL DATE	4.3.20	≶∂
	MANUFACTURER	Chempion Home Builders	È N S
	HIGH BLC 4TY HURRICANE 1 XF	NO	HIRD PARTY: HILBORN, WERNER, CARTER AND ASSOCIATES (HWC)
	1	IWG	E .

**MODIFICATIONS** 

261-C-MR9483B 29'-0" x 48'-0" 3 BD, 2 BTH

TITLE: **COVER SHEET** 

DRAWN BY: GAT DATE: 07-24-20 SCALE: FILENAME: C-MR9483B

C-101

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# 2017 FLORIDA RESIDENTIAL BUILDING CODE 6TH EDITION ALL GLAZING WITHIN 24 INCH ARC OF DOORS, WHOSE BOTTOM EDGE IS LESS THAN 60 INCHES ABOVE THE FLOOR, AND ALL GLAZING IN DOORS SHALL BE SAFETY, TEMPERED OR ACRYLIC PLASTIC SHEET. OCCUPANT LOAD IS BASED ON 1 PERSON PER 200 SOUARE FEET OF FLOOR AREA. MINIMUM CORRIDOR WIDTH IS 36 INCHES. WINDOWS, GLASS, DOORS, SHALL COMPLY WITH AAMA / NWWDA 101 / I.S.2. ALL MATERIALS USE IN THIS CONSTRUCTION OF THE BUILDING WHICH ARE COVERED BY THE FLORIDA BUILDING COMMISSION CHAPTER 61 G20-3,006 RULES SHALL HAVE CURRENT FLORIDA PRODUCT APPROVAL. ALL CONSTRUCTION, MATERIALS AND INSTALLATION SHALL BE IN ACCORDANCE WITH THE CODES SPECIFIED ON THE DRAWINGS. 2017 FLORIDA RESIDENTIAL BUILDING CODE ENERGY CONSERVATION 6TH EDITION LIGHTING - (R404.1) 75% OF PERMANENTLY INSTALLED LIGHTING FIXTURES OR LAMPS SHALL BE HIGH EFFICACY LAMPS MECHANICAL NOTES: 2017 FLORIDA RESIDENTIAL BUILDING CODE 6TH EDITION ALL SUPPLY AIR REGISTERS ARE ADJUSTABLE, EXCEPT WHERE OTHERWISE SPECIFIED. INTERIOR DOORS SHALL BE UNDERCUT 1.5 INCHES ABOVE FINISHED FLOOR FOR AIR RETURN AND/OR AS NOTED ON FLOOR PLAN. PRESSURE DIFFERENTIAL ACROSS CLOSED DOORS SHALL BE LIMITED TO .01 INCH WC (2.5 PASCALS) OR LESS. RESTROOM VENT FANS SHALL PROVIDE 50 CFM MINIMUM OF VENTILATION INTERMITTENT OR

- 20 CFM CONTINUOUS.4. VENT FANS SHALL BE DUCTED TO THE EXTERIOR AND TERMINATE AT AN APPROVED VENT CAP.
- IF THIS BUILDING IS LOCATED IN A JURISDICTION THAT HAS ADOPTED THE ORDINANCE FOR RADON-RESISTANT CONSTRUCTION, RULE -9B-52, FLORIDA STATUTE 553.98, RETURN DUCTS AND PLENUMS SHALL NOT BE LOCATED IN THE CRAWL SPACES.
- 6. MECHANICAL VENTILATION SHALL BE PROVIDED PER R403.6 OF THE RES. ENERGY CODE.

#### RIDGE BEAM CONSTRUCTION NOTES

- 1. LVL F  $_{\rm B}$ = 2800 PSI, MOE = 2,000,000 PSI., MICROLLAM 2.0 SP OR BETTER.
- 2. LVL OR OTHER SIMILAR MATERIAL MUST BE CONTINUOUS OVER CLEARSPAN(S).
- BEAMS SUPPORTED BY ENDWALL COLUMNS MUST EXTEND CONTINUOUS OVER COLUMNS TO EXTERIOR FACE OF ENDWALL.
- 4. INSTALL (2x4) x 20" SPF #3 RIDGE BEAM BEARING STIFFENER OVER SUPPORT COLUMNS WHEN SPECIFIED ON FLOOR PLAN: FASTEN THE FACE OF THE STIFFENER TO THE RIDGE BEAM WITH 100% GLUE COVERAGE AND 8-15 GA x 2 1/2" STAPLES.

#### ELECTRICAL NOTES: 2014 NEC

- ALL CIRCUITS AND EQUIPMENT SHALL BE GROUNDED IN ACCORDANCE WITH THE APPROPRIATE ARTICLES OF THE NATIONAL ELECTRICAL CODE (NEC).
- WHEN LIGHT FIXTURES ARE INSTALLED IN CLOSETS THEY SHALL BE SURFACE MOUNTED OR RECESSED. INCANDESCENT FIXTURES SHALL HAVE COMPLETELY ENCLOSED LAMPS. SURFACE MOUNTED INCANDESCENT FIXTURES SHALL HAVE A MINIMUM CLEARANCE OF 12 INCHES AND ALL OTHER FIXTURES SHALL HAVE A MINIMUM CLEARANCE OF 6 INCHES FROM "STORAGE AREA" AS DEFINED BY NEC 410.2.
- 3. WHEN WATER HEATERS ARE INSTALLED THEY SHALL BE PROVIDED WITH READILY ACCESSIBLE DISCONNECTS ADJACENT TO THE WATER HEATERS SERVED. THE BRANCH CIRCUIT SWITCH OR CIRCUIT BREAKER SHALL BE PERMITTED TO SERVE AS THE DISCONNECTING MEANS ONLY WHERE THE SWITCH OR CIRCUIT BREAKER IS WITHIN SIGHT FROM THE WATER HEATER OR IS CAPABLE OF BEING LOCKED IN THE OPEN POSITION.
- HVAC EQUIPMENT SHALL BE PROVIDED WITH READILY ACCESSIBLE DISCONNECTS ADJACENT TO THE EQUIPMENT SERVED. A UNIT SWITCH WITH A MARKED "OFF" POSITION THAT IS A PART OF THE HVAC EQUIPMENT AND DISCONNECTS ALL UNGROUNDED CONDUCTORS SHALL BE PERMITTED AS THE DISCONNECTING MEANS WHERE OTHER DISCONNECTING MEANS ARE ALSO PROVIDED BY A READILY ACCESSIBLE CIRCUIT BREAKER.
- PRIOR TO ENERGIZING THE ELECTRICAL SYSTEM THE INTERRUPTING RATING OF THE MAIN BREAKER MUST BE DESIGNED AND VERIFIED AS BEING IN COMPLIANCE WITH SECTION 110-9 OF THE NEC BY LOCAL ELECTRICAL CONSULTANT.
- THE MAIN ELECTRICAL PANEL AND FEEDERS ARE DESIGNED BY OTHERS, SITE INSTALLED AND SUBJECT TO LOCAL JURISDICTION APPROVAL.
- ALL CIRCUITS CROSSING OVER MODULE MATING LINE(S) SHALL BE SITE CONNECTED WITH APPROVED ACCESSIBLE JUNCTION BOXES, OR CABLE CONNECTORS.
- 8. ALL OUTLETS LOCATED WITHIN 6 FEET OF A SINK OR BASIN SHALL BE EQUIPPED WITH GFCI PROTECTION.
- SMOKE DETECTORS SHALL BE WIRED SO THAT THE OPERATION OF ANY ONE SMOKE DETECTOR WILL CAUSE SIMULTANEOUS ACTIVATION OF ALL OTHERS (IN ANY ONE DWELLING UNIT).
- PROVIDE COMBINATION SMOKE/CARBON MONOXIDE DETECTORS WHEN ANY FOSSIL FUEL APPLIANCES, FIRE PLACES OR ATTACHED GARAGE ARE PROVIDED. (FLORIDA 9B-3.0472)(OUTSIDE OF SLEEPING AREAS)
- 11. ALL RECEPTACLES INSTALLED IN WET LOCATIONS (EXTERIOR) SHALL BE IN WEATHER PROOF (WP) ENCLOSURES, THE INTEGRITY OF WHICH IS NOT AFFECTED WHEN AN ATTACHMENT PLUG CAP IS INSERTED OR REMOVED.
- ALL BRANCH CIRCUITS SUPPLYING 15 AND 20 AMPERE OUTLETS IN ALL AREAS EXCEPT BATHROOMS ARE PROTECTED BY AN ARC- FAULT CIRCUIT INTERRUPTER IN ACCORDANCE WITH SECTION 210.12.2014 NEC.
- 13. PROVIDE TAMPER RESISTANT RECEPTACLES IN ACCORDANCE WITH SECTION 406.12. 2014 NEC.

#### PLUMBING NOTES: 2017 FLORIDA RESIDENTIAL BUILDING CODE 6TH EDITION

- ALL PLUMBING FIXTURES SHALL HAVE SEPARATE SHUT-OFF VALVES.
- WATER HEATER SHALL HAVE SAFETY PAN WITH 1 INCH DRAIN TO EXTERIOR, T & P RELIEF VALVE WITH DRAIN TO EXTERIOR, AND A SHUT OFF VALVE WITHIN 3 FEET ON A COLD WATER SUPPLY LINE.
- 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 AN UNCONDITIONED ATTIC SHALL BE INSULATED.
- DWV SYSTEM SHALL BE PVC DWV.
- WATER SUPPLY LINES SHALL BE PEX WITH THE MAXIMUM WATER HEATER TEMPERATURE SETTING IS 180° F. THE PEX PIPE SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURERS LIMITATIONS AND INSTRUCTIONS
- BUILDING DRAIN AND CLEANOUTS ARE DESIGNED AND SITE INSTALLED BY OTHERS, SUBJECT TO LOCAL JURISDICTION APPROVAL.
- TUB ACCESS PROVIDED UNDER HOME, UNLESS OTHERWISE NOTED.
- SHOWER STALLS SHALL BE COVERED WITH NON-ABSORBENT MATERIAL TO A HEIGHT OF 72 INCHES
  ABOVE FINISH FLOOR.
- SHOWERS SHALL BE CONTROLLED BY AN APPROVED MIXING VALVE WITH A MAXIMUM WATER OUTLET TEMPERATURE OF 120° F. (48.8° C)
- THERMAL EXPANSION DEVICE, IF REQUIRED BY WATER HEATER MANUFACTURER SHALL BE SITE INSTALLED BY OTHERS, SUBJECT TO LOCAL APPROVAL.
- A WATER HAMMER ARRESTOR SHALL BE INSTALLED WHERE QUICK-CLOSING VALVES ARE UTILIZED, UNLESS OTHERWISE APPROVED. WATER HAMMER ARRESTORS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS SPECIFICATIONS.
- THIS UNIT MUST BE CONNECTED TO PUBLIC WATER SUPPLY AND SEWER SYSTEM IF THESE ARE AVAILABLE.
- 13. BACKFLOW PREVENTERS ARE TYPICAL ON ALL EXTERIOR HOSE BIBS
- HOT WATER PIPE WHEN REQUIRED BY R403.5.3 OF THE RES. ENERGY CODE SHALL BE INSULATED WITH R3 INSULATION
- 15. HEAT TRAPS (R.403.5.5)

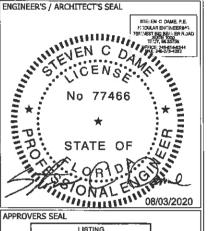
#### FOUNDATION:

FOUNDATION IS DESIGNED BY OTHERS. DETAILS CONTAINED IN THESE TYPICAL DRAWINGS ARE SUPPLEMENTAL AND MUST BE EVALUATED BY FOUNDATION DESIGNER FOR COMPATIBILITY WITH THE FOUNDATION DESIGN.

# CHAMPION

MANUFACTURED BEAUTIFULLY

P.O. BOX 2097 HWY 100 EAST LAKE CITY, FL 32056



APPROVERS SEAL

LISTING
AGENCY APPROVAL
THESE PRINTS COMPANY WITH THE FLORIDA
MANUFACTURED BUILDING ACT OF 1978
CONSTRUCTION COCKE AND ADMERS TO THE
PROCESSOR OF COMPANY SEAL OF COMPANY
COMPANY SED

MODIFICATIONS

261-C-MR9483B 29'-0" x 48'-0" 3 BD, 2 BTH

GENERAL NOTES

DRAWN BY: GAT DATE: 07-24-20

SCALE: FILENAME: C-MR9483B\_RECOVER

SHEET:

GE-101

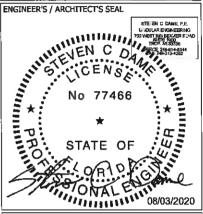
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ELEC	TRICA	L SCHEDULE			PANEL SIZING		
BRKR.	NO.	NOMENCLATURE	VOLTS	WIRE CU. NM		STANDARD WH	TANKLESS WH
20	1	PORTABLE APPLIANCE	120	12/2 GFCI, AFCI	DESCRIPTION	KVA	KVA
20	2	PORTABLE APPLIANCE	120	12/2 GFCI, AFCI	FLOOR AREA 1,392 SF X 3 VA ÷ 1000 =	4.18	4.18
20	3	GFCI RECEPTACLES	120	12/2 GFCI	2 SMALL APPLIANCES AT 1500 VA. ÷ 1000 =	3.0	3.0
15	4	GENERAL LIGHTING	120	14/2 AFCI	RANGE AT 8.0 KW. =	8.0	8.0
15	5	GENERAL LIGHTING	120	14/2 AFCI	WATER HEATER AT 5.5 KW =	5.5	
15	6	GENERAL LIGHTING	120	14/2 AFCI	GAS TANKLESS WATER HEATER AT 0.16 KW =		0.16
15	7	GENERAL LIGHTING	120	14/2 AFCI	DISHWASHER AT 1.4 KW. =	1.4	1.4
15	8	GENERAL LIGHTING	120	14/2 AFCI	WASHER AT 1500 VA./1000 =	1.5	1.5
15	9	GENERAL LIGHTING	120	14/2 AFCI	DRYER AT 5.0 KW. =	5.0	5.0
15	10	GENERAL LIGHTING	120	14/2 AFCI	FREEZER AT 1.9 KW. =	1.9	1.9
30 (2P)	11	WATER HEATER	240	10/2	MICROWAVE AT 1.5 KW. =	1.5	1.5
15	11	GAS TANKLESS WATER HEATER	120	14/2 GFCI			
20	12	WASHER	120	12/2 GFCI, AFCI			
30 (2P)	13	DRYER	240	10/3			
20	14	DISHWASHER	120	12/2 GFCI, AFCI			
40 (2P)	15	RA <b>NG</b> E	240	8/3			
	16	SPARE			TOTAL LOAD	31.98	26.64
	17	SPARE			FIRST 10 KVA AT 100%	10.0	10.0
	18	SPARE			REMAINDER AT 40%	8.79	6.65
	19	HVAC COMPRESSOR	SIZED PE	R MFR. SPECS.	HVAC AT 100%	15.8	15.8
	20	HVAC BLOWER	SIZED PE	R MFR. SPECS.			
15	21	SMOKE DETECTOR	120	14/3 AFCI	TOTAL =	34.59	32.45
	22	SPARE			TOTAL X 1000 240	144.13	135.23
	23	SPARE			INSTALL 200 AMP PANEL		
20	24	MICROWAVE	120	12/2 AFCI	WITH 200 AMP MAIN BREAKER		
						1	1

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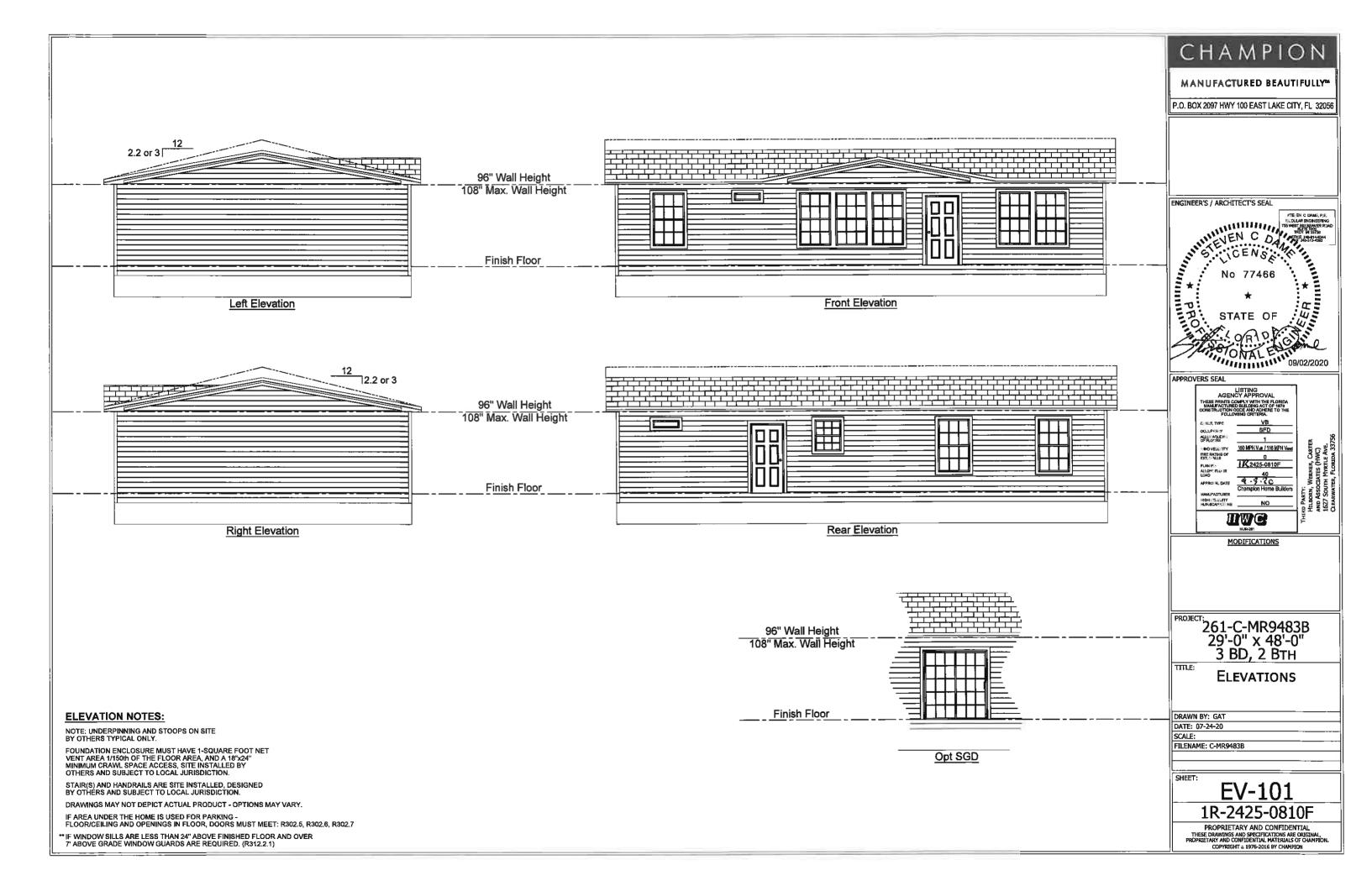
ELECTRICAL PANEL

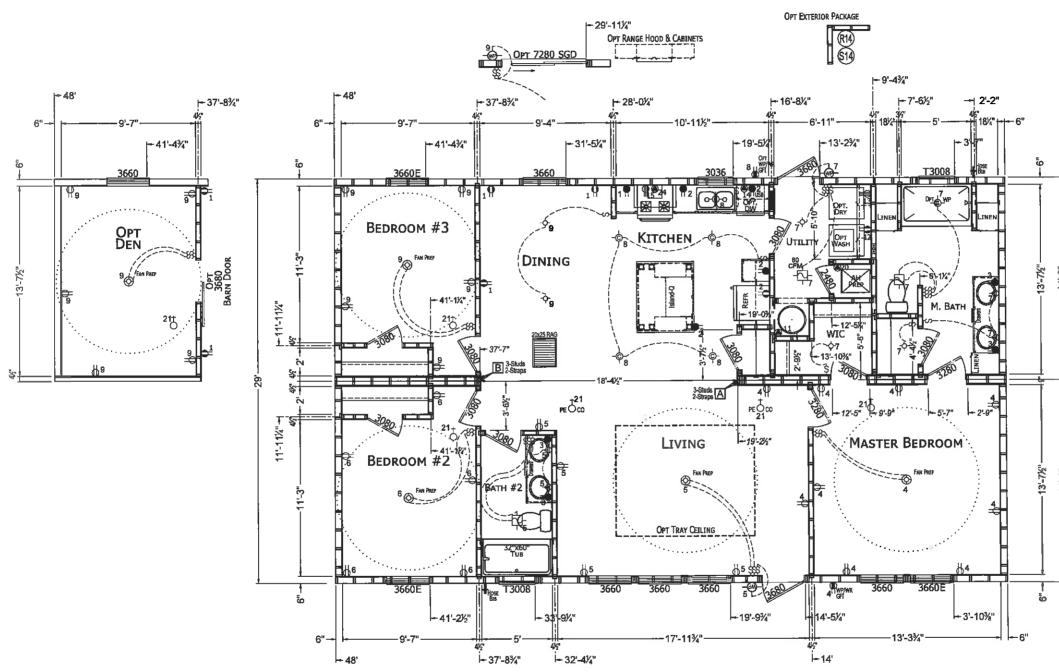
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SCALE:
FILENAME: C-MR9483B\_RECOVER

SHEET:

GE-102 R 2425-0810F

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ELECTRICAL LEGEND							
GENERAL LIGHTING RECEPTACLE	# 240 VOLT RECEPTABLE	中 CEILING VENT FAN WITH LIGHT	CEILING VENT FAN				
120 VOLT - 20 AMP			FLUORESCENT LIGHT				
SMALL APPLIANCE RECEPTACLE 120 VOLT - 20 AMP	O∞ SMOKE ALARM	-Q- WALL LIGHT	\$ SINGLE POLE SWITCH (3 DENOTES 3-WAY)				
G.F.I. PROTECTED RECEPTACLE 120 VOLT - 20 AMP	MAIN PANEL	SPECIAL PURPOSE CONNECTION	HEAT TAPE RECEPTACLE				
① JUNCTION BOX	COMBINATION CARBON MONOXIDE/SMOKE ALAR	PE DENOTES  PHOTO-ELECTRIC	OCYVHOLE HOUSE VENTALATION				
WHOLE HOUSE VENT FAN							

NOTE: - POWER RANGE HOOD STANDARD.
- ALL EXTERIOR RECEPTS AND LIGHTS ARE WEATHER PROOF

- CIRCUIT NUMBERS MAY VARY AND NOT ALL CIRCUITS ARE IN USE - CIRCUITS 1& 2 ARE SMALL APPLIANCE CIRCUITS,

ADDITIONAL HINGED ROOF DETAILS MUST BE INCLUDED WHEN HOME IS BUILT WITH HINGED ROOF. IF WINDOW SILLS ARE LESS THAN 24" ABOVE FINISHED FLOOR AND OVER 7' ABOVE GRADE WINDOW GUARDS ARE REQUIRED.

FLOOR

- 1. ALL INTERIOR PASSAGE DOORS TO BE A MM. 2 % 6 UNLESS OTHERWISE NOTED.
- 2. HOME MAY BE BUILT IN MIRROR IMAGE.

#### INTERIOR FINISH MATERIAL

CEILING - 1/2" MINIMUM GYPSUM BOARD INSTALLED PER MANUFACTURER'S SPECIFICATIONS.

WALL - 1/2" MIN. GYPSUM BOARD INSTALLED PER MANUFACTURER'S SPECIFICATIONS.

- BLOCK TILE OR LINOLEUM MAY BE USED IN WET AREAS. CARPET, BLOCK TILE, OR LINOLEUM MAY BE INSTALLED IN ALL OTHER AREAS.

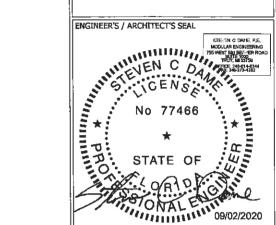
- ALL COLUMN STUDS TO BE #3 SPF AND SHALL BE GLUED AND NAILED TOGETHER.
- COLUMN STUDS SHALL NOT BE NOTCHED OR BORED. INSTALL 20 ga. COLUMN STRAPS AS NOTED ON THE FLOOR
- MARRIAGE WALL STRAPPING REQ'D @ 16" OC RIDGE BEAM:

Material: LVL: 1 1/2" x 14" For Spans: A to B

# CHAMPION

MANUFACTURED BEAUTIFULLY

P.O. BOX 2097 HWY 100 EAST LAKE CITY, FL 32056



I		ottines	
l	APPROVERS SEAL		
	AGEN	LISTING CY APPROVAL DAPLY WITH THE FLORIDA D BUILDING ACT OF 1979 CODE AND ADHERE TO THE MIG CRITERIA,	
l	CONST. TYPE	VB	l
Ì	GACUPANCY	SFD	l
l	ALLC' ABLE NO. OF FL 'O. 3	1	<u>#</u>
I	WIND ELT- TTY	150 MPH Vult / 116 MPH Vasd	E.
l	FIRE RATING OF EXT. WALLS	0	WERNER, CARTER
I	PLAN N.:	2425-0810F	× ÷
l	ALLO - FLT UR L VAD	40	N 1
I	APPRIS Y LIDATE	Champion Home Builders	
ı	MANUFACTURER		5 5 5
ĺ	HIGH VEL: CITY HURRICANE ZONE	NO	ED PARTY: HILBORN, AND ASSO
	I	WG	THIRD PARTY HILBORN, AND ASSE

MODIFICATIONS

261-C-MR9483B 29'-0" x 48'-0" 3 BD, 2 BTH

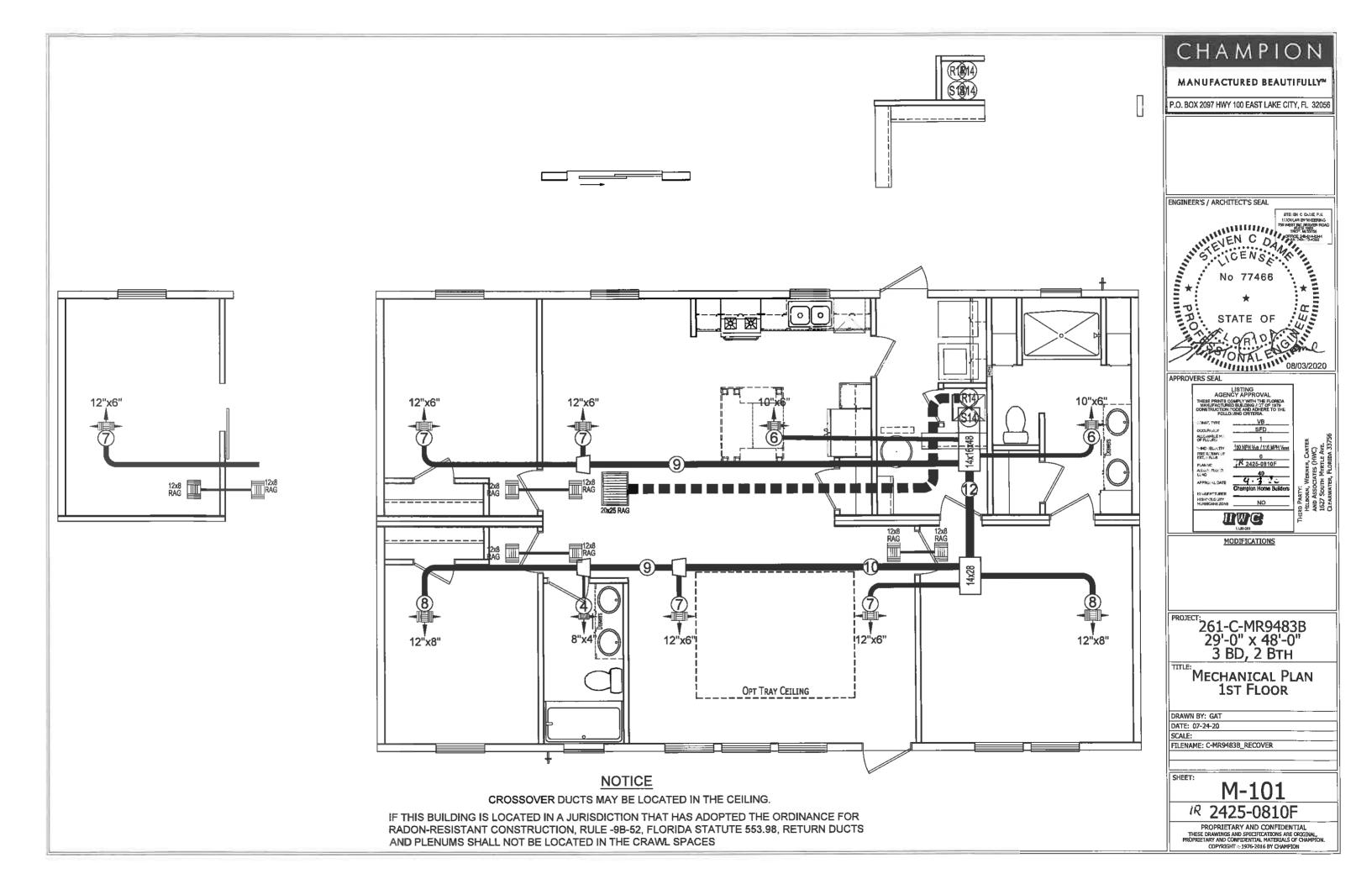
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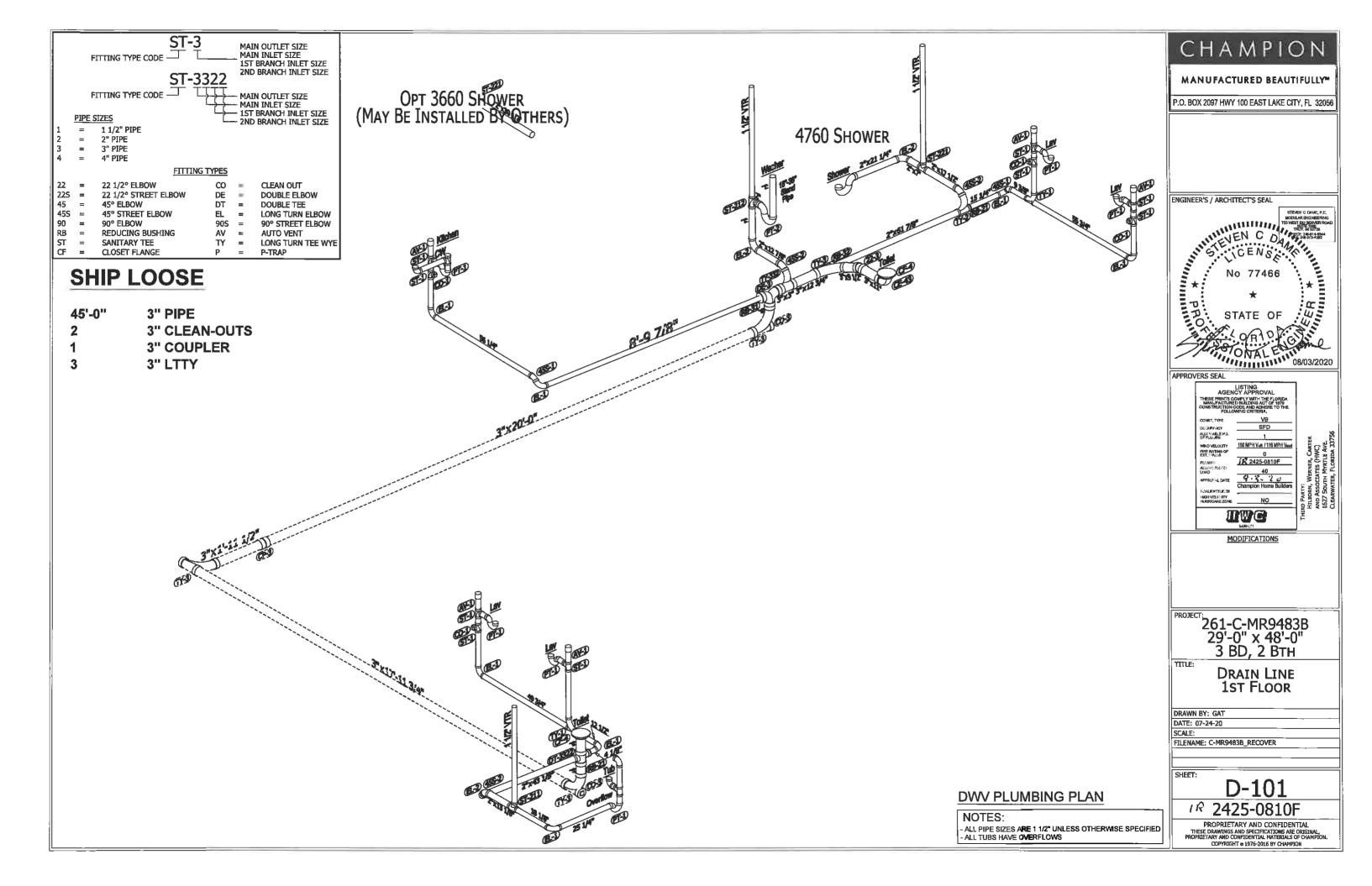
FLOOR PLAN 1ST FLOOR

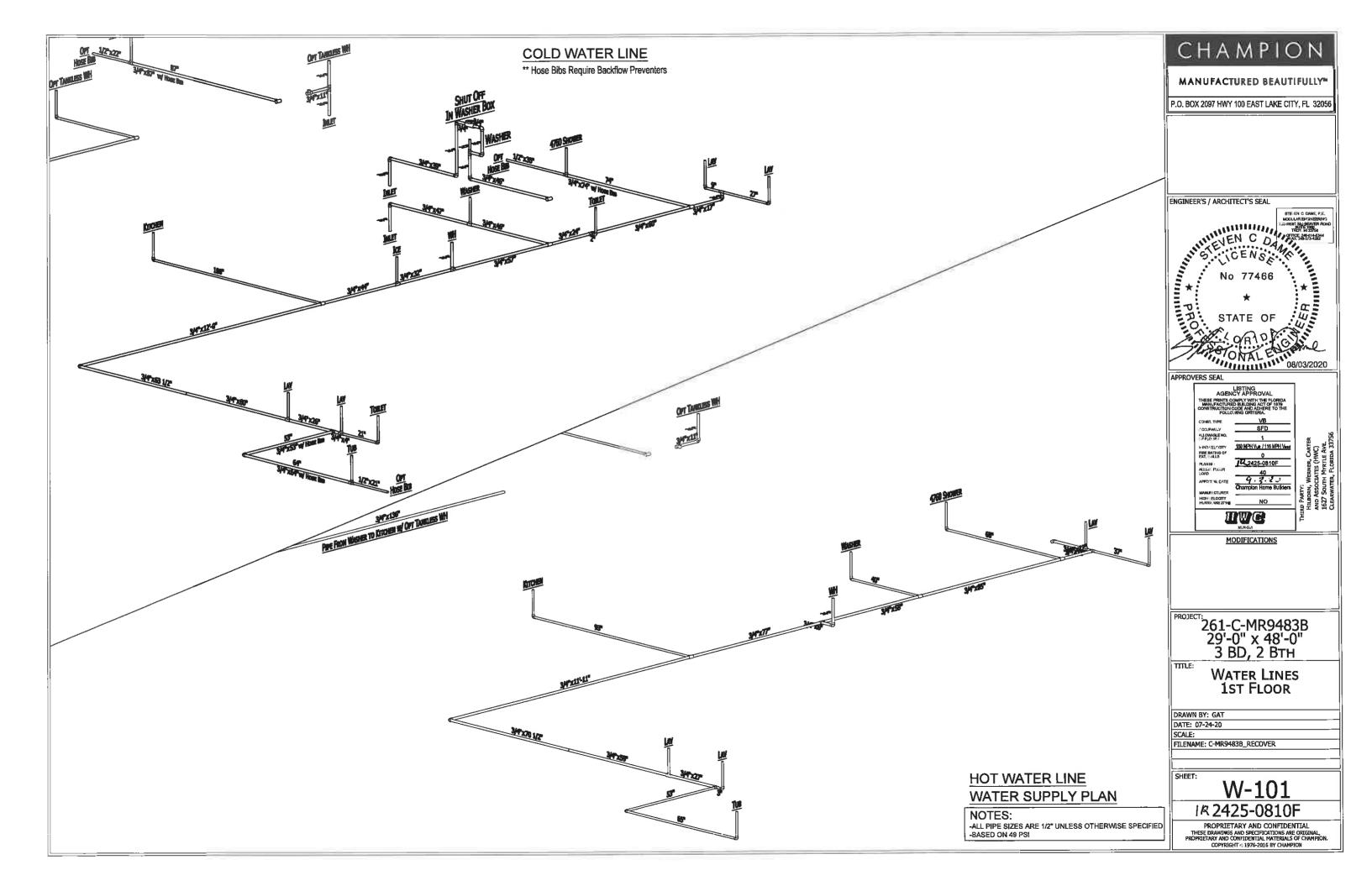
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DATE: 07-2	1-20	_	
SCALE:			
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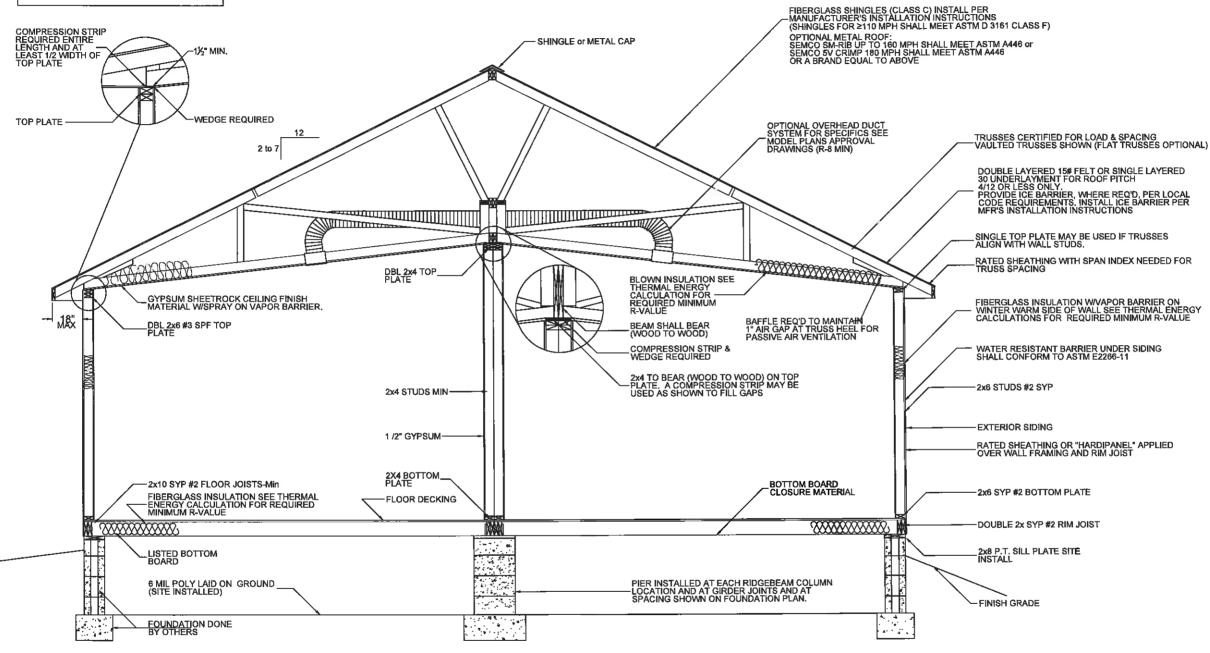
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NOTE: COMPRESSION STRIP SHALL BE RATED SHEATHING I.e. PLYWOOD OR OSB. WEDGE SHALL BE RIPPED LUMBER #3 SPF OR BETTER



## NOTES:

FOR EXTERIOR WALL AND CENTER LINE PIERS SEE TYPICAL FOUNDATION.

- 1. JOINTS IN CENTERLINE JOIST TO FALL OVER PIERS.
- 2. ATTIC VENTILATION TO BE PROVIDED AT THE RATE OF 1.0 SF OF VENT PER 300 SF OF ATTIC AREA. VENTILATION TO BE PROVIDED BY MEANS OF CONTINUOUS EAVE VENTS, ROOF VENTLATORS ON THE HIGH SIDE OF THE ROOF, AND WHEN NEEDED GABLE EAVE VENTS.

COMPLETE FOUNDATION DESIGN IS TO BE DONE BY A LICENSED ENGINEER SEE F-102 FOR REFERNCE

# CHAMPION

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P.O. BOX 2097 HWY 100 EAST LAKE CITY, FL 32056

ENGINEER'S / ARCHITECT'S SEAL

STE (N C DAME PE MOUNTAIN DESIGNED PE DAME PE MOUNTAIN DESIGNED PE DAME PE DAME

APPROVERS SEAL

LISTING
AGENCY APPROVAL
THESE PRINTS COMPLY WITH THE FLORIDA
MANUFACTITIES BELIDING ACT OF 1979
CONSTRUCTION CODE AND ADHERE TO THE
POLICION COTTENA.

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MODIFICATIONS

IIWG

261-C-MR9483B 29'-0" x 48'-0" 3 BD, 2 BTH

TYPICAL CROSS-SECTION

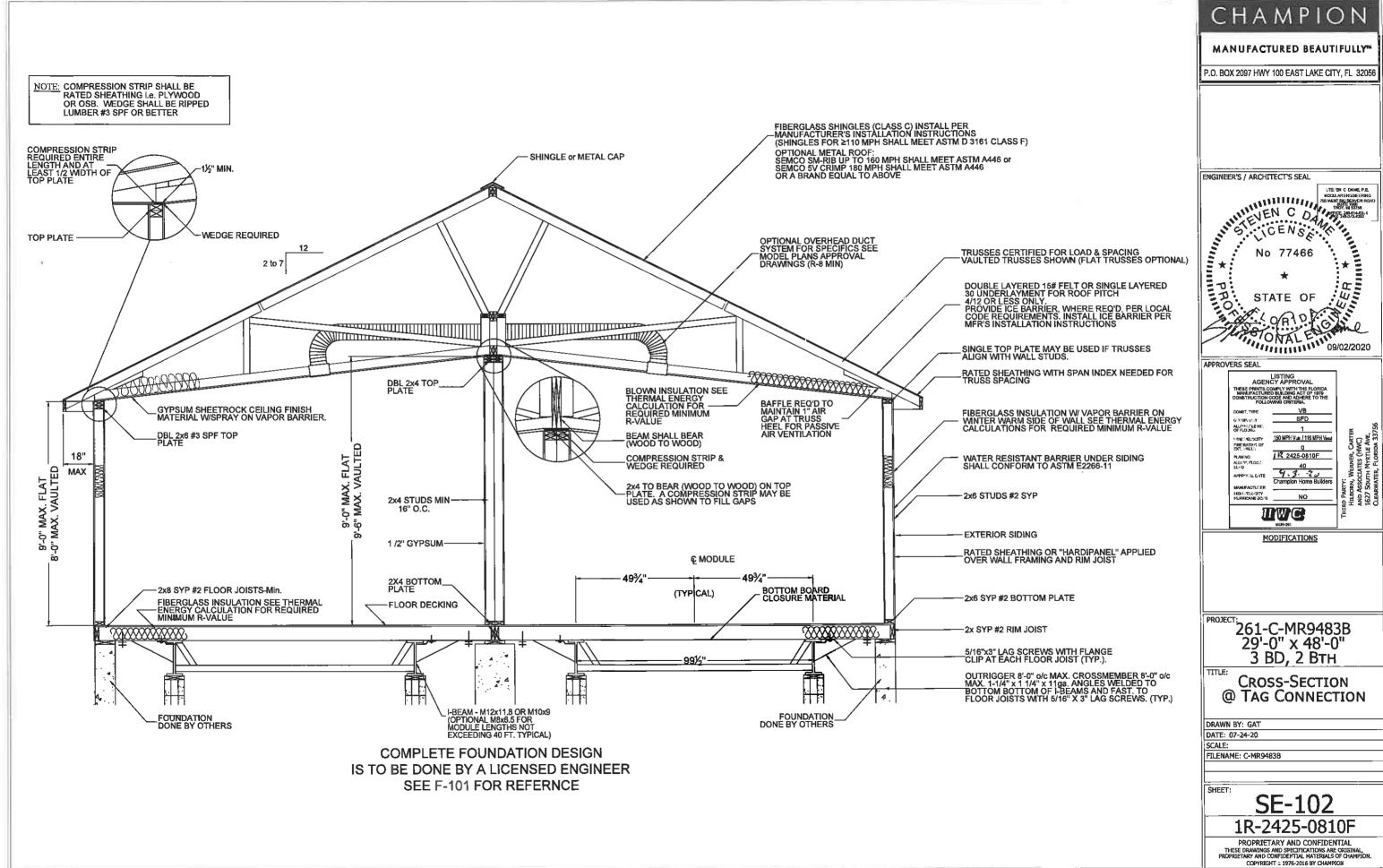
DRAWN BY: GAT
DATE: 07-24-20
SCALE:
FILENAME: C-MR9483B

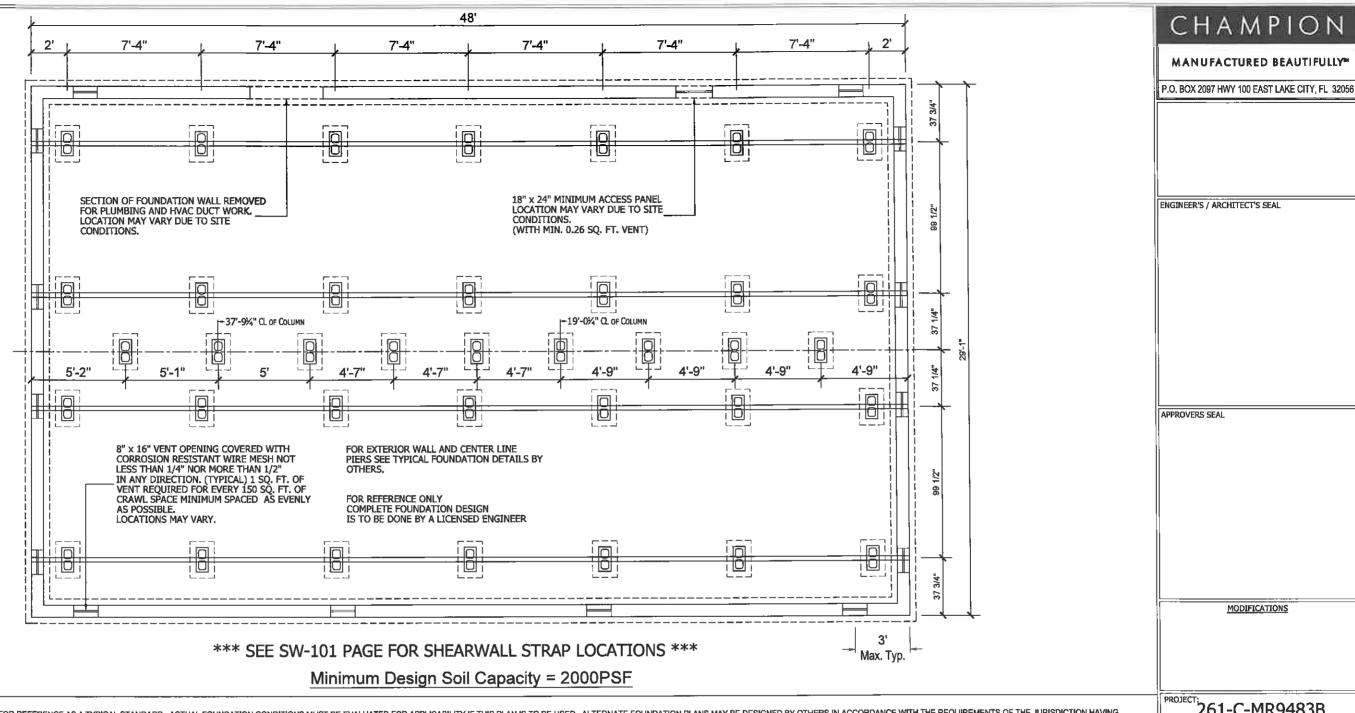
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#### FOUNDATION NOTES:

- 1. THIS FOUNDATION PLAN IS PROVIDED FOR REFERENCE AS A TYPICAL STANDARD, ACTUAL FOUNDATION CONDITIONS MUST BE EVALUATED FOR APPLICABILITY IF THIS PLAN IS TO BE USED. ALTERNATE FOUNDATION PLANS MAY BE DESIGNED BY OTHERS IN ACCORDANCE WITH THE REQUIREMENTS OF THE JURISDICTION HAVING AUTHORITY. IF FOUNDATION PLANS ARE DESIGNED BY OTHERS, THE ENGINEER 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.
- 2. ALL FOUNDATION CONSTRUCTION MATERIALS AND INSTALLATION SHALL BE IN ACCORDANCE WITH ALL APPLICABLE STATE AND LOCAL CODES.
- 3. EXCAVATE AN ADDITIONAL 1 TO 2 INCHES AT BOTTOM AND SIDES OF ALL FOOTINGS THAT ARE POURED DIRECTLY AGAINST EARTH.
- 4. ALL PIERS SHALL BE CONSTRUCTED OF 8" X 8" X 16" NOMINAL STANDARD WEIGHT CONCRETE MASONRY UNITS LAID IN RUNNING BOND PATTERN AND CONFORMING TO ASTM C90 HAVING A UNIT COMPRESSIVE STRENGTH OF 1900 PSI (fm = 1500 PSI). MASONRY UNITS SHALL BE FULLY LAID IN TYPE M OR S MORTAR OR COVERED WITH SURFACE BONDING CEMENT COMPLYING WITH ASTM C887 AND APPLIED IN STRICT ACCORDANCE WITH THE CEMENT MANUFACTURER'S INSTRUCTIONS, WITH THE BOTTOM COARSE FULLY LAID IN TYPE M OR S MORTAR. REINFORCEMENT BARS AND PIER FOOTINGS SHALL BE DESCRIBED ON THE FOUNDATION PLAN AND IN THE PIER DETAILS.

  5. CONCRETE SHALL BE STANDARD WEIGHT (150 PCF) WITH A MINIMUM COMPRESSIVE STRENGTH 3000 PSI AT 28 DAYS. MORTAR SHALL COMPLY WITH ASTM C476 AND HAVE A MINIMUM COMPRESSIVE STRENGTH OF 2500 PSI.
- 6. ALL REINFORCEMENT BARS SHALL COMPLY WITH ASTM A615, GRADE 60. REINFORCEMENT BARS SHALL BE UNCOATED DEFORMED BARS (NO EPOXY). REINFORCEMENT BARS SHALL BE QUALLY SPACED AND PLACED WITH 3" CLEARANCE FROM BOTTOM AND SIDES OF THE FOOTING. AT SPLICES LAP ALL #4 BARS 24 INCHES MINIMUM. AND LAP ALL #5 BARS 30 INCHES MINIMUM. OFF SET ALL SPLICES 30 INCHES MINIMUM.
- 7. ALL PIERS SHALL BE CAPPED WITH 4 INCHES OF SOLID MASONRY OR CONCRETE OR THE CAVITIES OF THE TOP COURSE SHALL BE FILLED WITH CONCRETE OR GROUT, PIERS SHALL PROVIDE A TRUE AND EVEN BEARING SURFACE.
- 8. THE CENTERLINE OF EACH PIER SHALL BE LOCATED DIRECTLY BELOW THE MATE LINE CENTERLINE WITH 1 INCH MAXIMUM TOLERANCE.
- 9. SOIL BEARING CAPACITY IS ASSUMED TO BE 2000 PSF MINIMUM. IF THE ACTUAL SOIL BEARING CAPACITY IS LESS THAN 2000 PSF, THE ENGINEER MUST BE CONSULTED FOR REQUIRED ALTERNATE FOUNDATION DESIGN. FOOTINGS SHALL BE PLACED ON NON-EXPANSIVE SOILS ONLY. IT IS THE RESPONSIBILITY OF THE SITE OR AHJ CONTRACTOR TO OBTAIN PROFESSIONAL VERIFICATION OF THE SOIL BEARING CAPACITY FOR THE ACTUAL SITE.
- 10. THE AREA UNDER FOOTINGS AND FOUNDATIONS SHALL HAVE ALL VEGETATION, STUMPS, ROOTS, AND FOREIGN MATERIALS REMOVED PRIOR TO THEIR CONSTRUCTION.
- 11. THE PERIMETER GRADE SHALL BE SLOPED AWAY FROM THE BUILDING TO PROVIDE POSITIVE DRAINAGE. THE GRADE OF THE GROUND UNDER THE BUILDING.
  12. ALL STAIRS, RAMPS, DECKS AND OTHER SITE WORK NOT SHOWN ON THESE DRAWINGS ARE DESIGNED BY OTHERS AND SUBJECT TO THE APPROVAL OF THE JURISDICTION HAVING AUTHORITY.
- 13. TERMITE PROTECTION SHALL BE PROVIDED IN ACCORDANCE WITH THE APPLICABLE CODES WHEN REQUIRED BY SUCH CODES,
- 14. THE FOUNDATION DIMENSIONS SHOWN INCLUDE AN INCREASE IN MODULE WIDTH DUE TO MODULE EXPANSION, SETTING TOLERANCES, ETC. THE FOUNDATION CONTRACTOR SHOULD CONSULT WITH THE MANUFACTURER OF THE MODULES PRIOR CONSTRUCTION OF THE FOUNDATION TO DETERMINE THE APPROPRIATE AMOUNT OF INCREASED WIDTH TO BE ADDED TO THE NOMINAL DIMENSIONS SHOWN ON THE FOUNDATION PLAN.
- 15. THIS FOUNDATION IS NOT DESIGNED FOR LOCATION IN A FLOOD ZONE.
- 16. GROUND SURFACE IN CRAWLSPACE SHALL BE COVERED WITH AN APPROVED VAPOR RETARDED.
- 17. SEE MODEL PLAN FOR SHEAR WALL TIE DOWN AND FOUNDATION UPLIFT DETAILS AND SEE TYPICAL PACKAGE FOR GENERAL TIE DOWN REQUIREMENTS AND ADDITIONAL CONSTRUCTION REQUIREMENTS.
- 18. THIS FOUNDATION PLAN IS ONLY APPLICABLE TO THE MODEL NUMBER SPECIFIED IN THE TITLE BLOCK. FOUNDATION PLAN IS NOT VALID FOR ANY MODEL CHANGES MADE AFTER THE CERTIFICATION DATE OF THIS FOUNDATION DESIGN. SEE MODEL PLAN COVER SHEET FOR STRUCTURAL LOAD LIMITATIONS.
- 19. THIS FOUNDATION DESIGN MUST INCORPORATE ALL CAST IN PLACE STRAPS AND ANCHOR BOLTS AS SHOWN ON ATTACHED SHEARWALL CALCULATIONS AND DRAWINGS IN ORDER TO COMPLETE THE LOAD PATH ASSOCIATED WITH THE MAIN WIND FORCE RESISTING SYSTEM OF THIS HOME. ANY VARIATION IN RECOMMENDED CONNECTIONS MUST BE DESIGNED BY AN ENGINEERING PROFESSIONAL.

261-C-MR9483B 29'-0" x 48'-0" 3 BD, 2 BTH

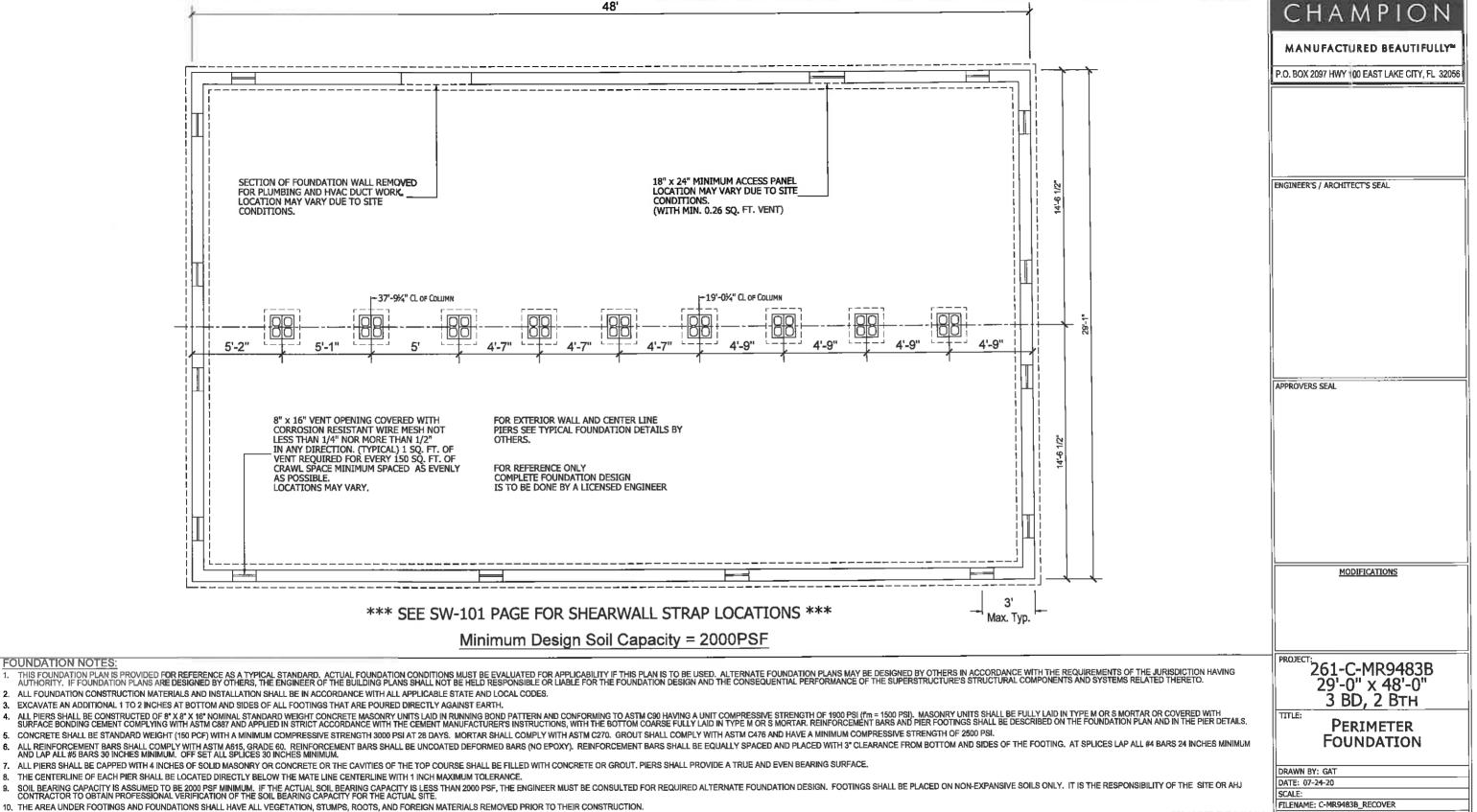
PIER FOUNDATION

DRAWN BY: GAT
DATE: 07-24-20
SCALE:
FILENAME: C-MR9483B\_RECOVER

SHEET:

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17. SEE MODEL PLAN FOR SHEAR WALL TIE DOWN AND FOUNDATION UPLIFT DETAILS AND SEE TYPICAL PACKAGE FOR GENERAL TIE DOWN REQUIREMENTS AND ADDITIONAL CONSTRUCTION REQUIREMENTS

12. ALL STAIRS, RAMPS, DECKS AND OTHER SITE WORK NOT SHOWN ON THESE DRAWINGS ARE DESIGNED BY OTHERS AND SUBJECT TO THE APPROVAL OF THE JURISDICTION HAVING AUTHORITY.

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19. THIS FOUNDATION DESIGN MUST INCORPORATE ALL CAST IN PLACE STRAPS AND ANCHOR BOLTS AS SHOWN ON ATTACHED SHEARWALL CALCULATIONS AND DRAWINGS IN ORDER TO COMPLETE THE LOAD PATH ASSOCIATED WITH THE MAIN WIND FORCE RESISTING SYSTEM OF THIS HOME. ANY VARIATION IN RECOMMENDED CONNECTIONS MUST BE DESIGNED BY AN ENGINEERING PROFESSIONAL.

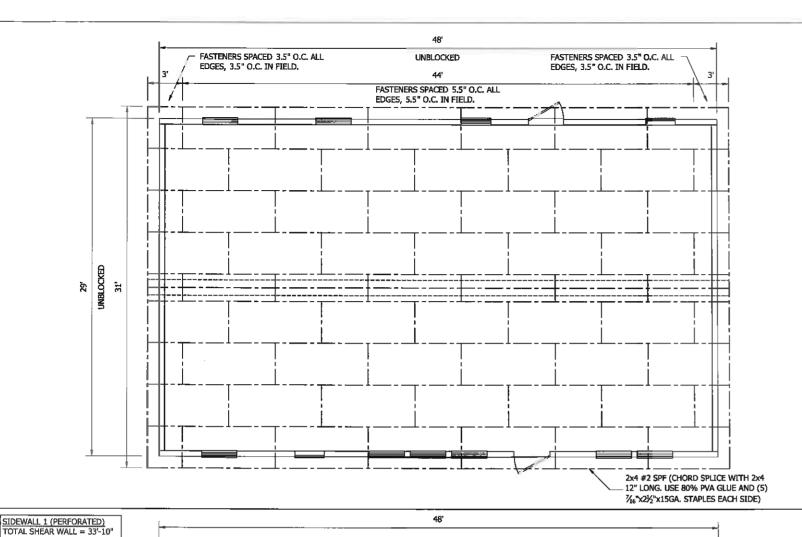
11. THE PERIMETER GRADE SHALL BE SLOPED AWAY FROM THE BUILDING TO PROVIDE POSITIVE DRAINAGE, THE GRADE OF THE GROUND UNDER THE BUILDING SHALL NOT BE LOWER THAN THE LOWEST SURROUNDING FINISHED LOT AREA GRADE IN ORDER TO PREVENT THE ACCUMULATION AND STANDING OF WATER UNDER THE BUILDING.

14. THE FOUNDATION DIMENSIONS SHOWN INCLUDE AN INCREASE IN MODULE WIDTH DUE TO MODULE EXPANSION, SETTING TOLERANCES, ETC. THE FOUNDATION CONTRACTOR SHOULD CONSULT WITH THE MANUFACTURER OF THE MODULES PRIOR CONSTRUCTION OF THE FOUNDATION TO DETERMINE THE APPROPRIATE AMOUNT OF INCREASED WIDTH TO BE ADDED TO THE NOMINAL DIMENSIONS SHOWN ON THE FOUNDATION PLAN.

SHEET:

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DESIGN PROFILE				
SEISMIC DESIGN CATEGORY:	С			
WIND SPEED DESIGN CATEGORY: (STRENGTH DESIGN PER ASCE7-10)	150 MPH			
WIND SPEED DESIGN CATEGORY: (NOMINAL DESIGN PER ASCET-0.5)	116 MPH			
EXPOSURE CATEGORY:	C			
MEAN ROOF HEIGHT:	20'-0"			
ROOF PITCH:	3/12			
WALL HEIGHT:	108 IN.			

#### DIAPHRAGM LAYOUT

- USE ½6" RATED SHEATHING FOR TRUSSES @ 16" O.C. & ½2" RATED SHEATHING FOR TRUSSES @ 24" O.C.
- FASTENERS SHALL BE  $\frac{7}{16}$ "x1 $\frac{3}{4}$ "x15GA, STAPLES (MIN.) SPACED AS INDICATED ABOVE
- DIAPHRAGM WITH SPF FRAMING RATED FOR: 178 PLF UNBLOCKED PER ESR-1539 WITH 40% INCREASE PER IBC 2015 / 2017 FBC WIND LOAD ONLY.
- CALCULATIONS OUTLINE THE MWFRS (PER ASCE7-10) ONLY. REFERENCE STATE APPROVED DESIGN MANUAL FOR ADDITIONAL STRUCTURAL INFORMATION
- FOUNDATION DESIGN PERFORMED BY OTHERS BASED ON SITE CONDITIONS AND MUST ACCOMMODATE ALL UPLIFT AND LATERAL FORCES AS NOTED.

SHEAR WALL	SHEAR WALL CAPACITY
END WALL 1	127 PLF (6" O.C. EDGE)
END WALL 2	127 PLF (6" O.C. EDGE)
SIDEWALL 1	127 PLF (6" O.C. EDGE)
SIDEWALL 2	193 PLF (4" O.C. EDGE)

THESE ALLOWABLE STRENGTHS INCLUDE A 40% INCRE/SE WHERE APPLICABLE FOR WIND FORCES PER IBC 2015

#### SHEAR WALL LAYOUT

NOTES: SHEAR WALLS SHALL BE CONSTRUCTED OF RATED SHEATHING WITH SPF#2 FRAMING AT 16" O.C. WITH FASTENING AS FOLLOWS:

127 <u>PLF:</u> %<sub>6</sub>x1¾"x15 GA STAPLES, 6" O.C. AT PANEL EDGES AND 10.5" O.C. IN FIELD. STANDARD DETAIL PAGE 02.

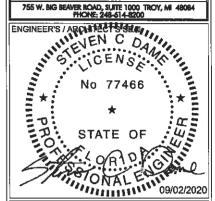
193 <u>PLF:</u> ½6x1¾"x15 GA STAPLES, 4" O.C. AT PANEL EDGES AND 10.5" O.C. IN FIELD. STANDARD DETAIL PAGE 02.

UPLIFT MARK	UPLIFT LOAD
(A)	0#
B	0#
1	

UPLIFT CONNECTION REQUIRED AS INDICATED BY \*. SEE TABLE BELOW FOR UPLIFT VALUES UPLIFT CONNECTION DETAILS PER PAGES 02 & 03.

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APPROVER'S SEAL



MODIFICATIONS

# **ROOF DIAPHRAGM** SHEARWALL LAYOUT

MODEL: 2017 - C-MR9483B

DATE: 07-22-20 SCALE: DRAWN BY: GAT CHECKED BY: Re:PM0483A

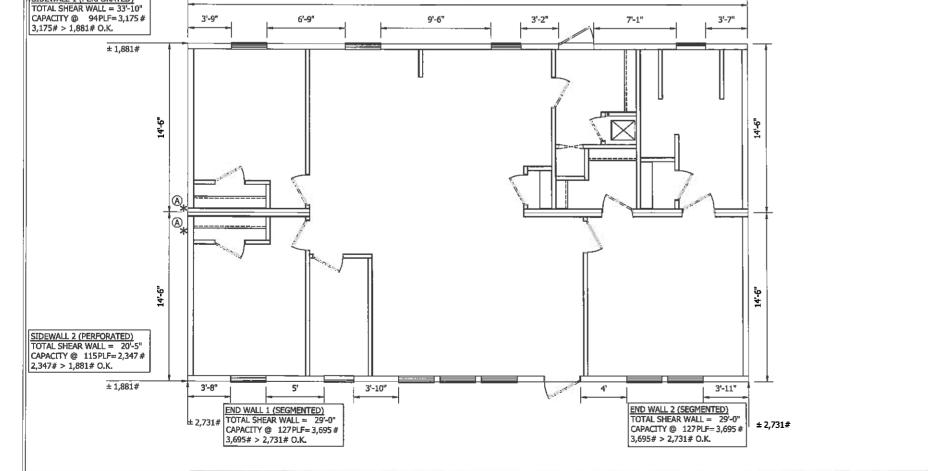
FILENAME: 2017 - C-MR9483B (3-12) (150MPH, EXP, C)

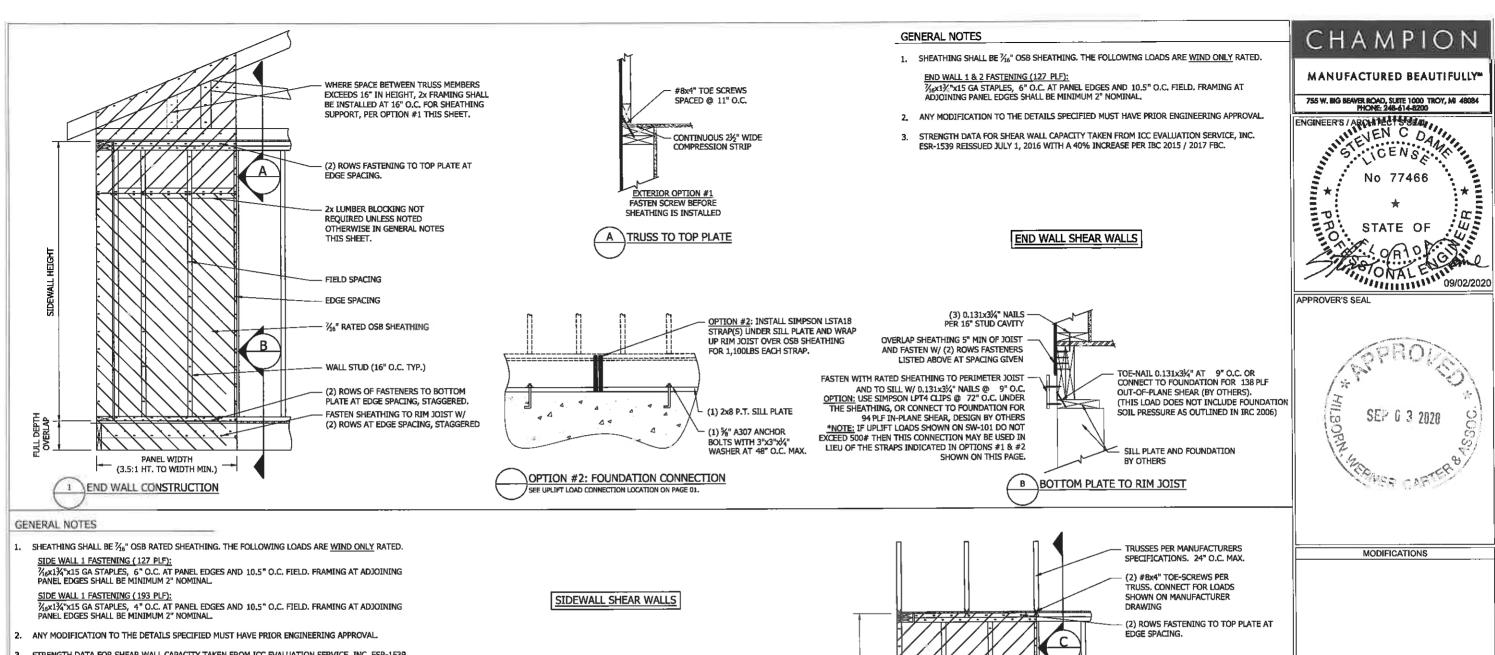
SW-101

PAGE:

1 OF 1

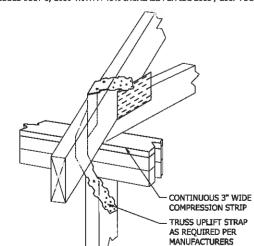
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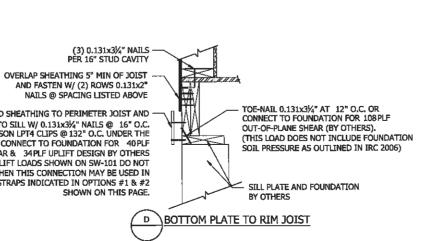
3. STRENGTH DATA FOR SHEAR WALL CAPACITY TAKEN FROM ICC EVALUATION SERVICE, INC. ESR-1539 REISSUED JULY 1, 2016 WITH A 40% INCREASE PER IBC 2015 / 2017 FBC.

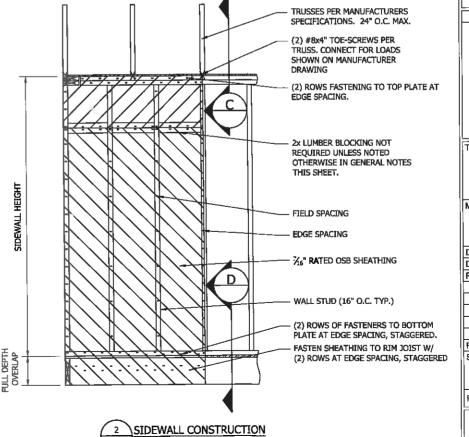
TRUSS DRAWING.



AND FASTEN W/ (2) ROWS 0.131x2\* NAILS @ SPACING LISTED ABOVE FASTEN WITH RATED SHEATHING TO PERIMETER JOIST AND TO SILL W/ 0.131x31/4" NAILS @ 16" O.C. OPTION: USE SIMPSON LPT4 CLIPS @ 132" O.C. UNDER THE SHEATHING, OR CONNECT TO FOUNDATION FOR 40 PLF IN-PLANE SHEAR & 34 PLF UPLIFT DESIGN BY OTHERS \*NOTE: IF UPLIFT LOADS SHOWN ON SW-101 DO NOT EXCEED 500# THEN THIS CONNECTION MAY BE USED IN LIEU OF THE STRAPS INDICATED IN OPTIONS #1 & #2

C TRUSS TO TOP PLATE TRUSS TO TOP PLATE CONNECTION

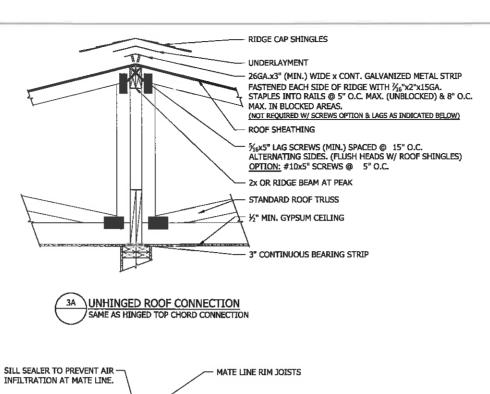




MODIFICATIONS SHEAR WALL **END WALL DETAILS** 2017 - C-MR9483B DATE: 07-22-20 SCALE: DRAWN BY: GAT CHECKED BY: Re:PM0483A FILENAME: 2017 - C-MR9483B (3-12) (150MPH, EXP. SHEET NO .: SW-102 PAGE: 1 OF 1 PROPRIETARY AND CONFIDENTIAL HESE DRAWINGS AND SPECIFICATIONS ARE ORIGINA PROPRIETARY AND CONFIDENTIAL MATERIALS OF CHAMPION HOME BUILDERS, INC. COPYRIGHT = 2018 F/ CHAMPION

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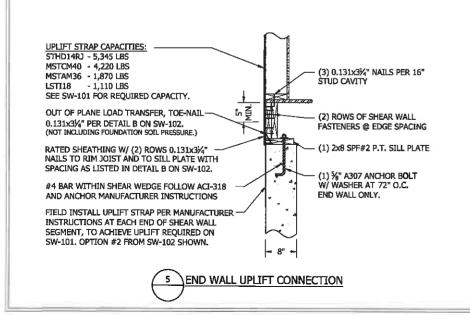


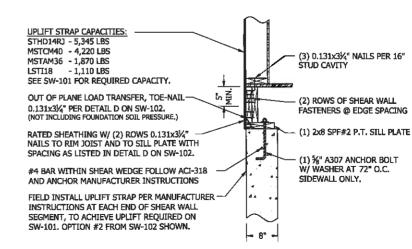
mar nu funni u co %6x5" (MIN.) TOE-LAGS BOTTOM OF FLOOR JOIST

NOTE: THIS CONNECTIONS DOES NOT ACCOMMODATE UPLIFT LOADS DUE TO PIER SET. SEE PAGE 2 FOR EXTRA LOADING. CONNECTION MUST BE DESIGNED BY OUTSIDE ENGINEERING PROFESSIONAL



THIS MWFRS PACKAGE ASSUMES A PERIMETER FOUNDATION SET, FOR ALL OTHER FOUNDATION TYPES, DESIGN BY OTHERS.





SIDEWALL UPLIFT CONNECTION

MODIFICATIONS CONNECTION DETAILS 2017 - C-MR9483B 3 Bd, 2 Bth (3-12 Roof) DATE: 07-22-20 SCALE: DRAWN BY: GAT CHECKED BY: Re:PM0483A FILENAME: 2017 - C-MR9483B (3-12) (150MPH, EXP.C) SHEET NO .: SW-103 PAGE. 1 OF 1 PROPRIETARY AND CONFIDENTIAL THESE DRAWINGS IND SPECIFICATIONS ARE ORIGINAL PROPRIETARY AND CONFIDENTIAL MATERIALS OF CHAMPION HOME BUILDERS, INC. COPYRIGHT >> 2018 BY CHEMPION

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APPROVER'S SEAL

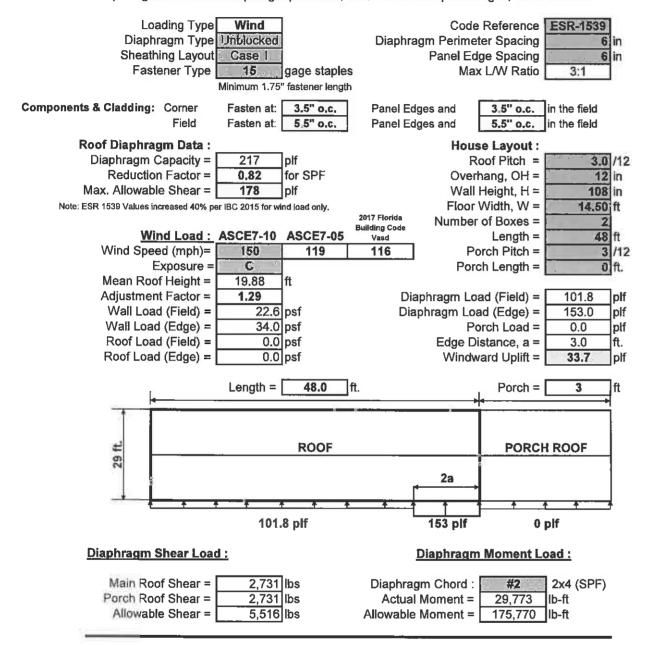
09/02/2020

#### Unblocked, 7/16" Wood Roof Diaphragm

Model:

C-MR9483B

Spacing at 6 in. o.c. at diaphragm perimeter, 6 in, o.c. at other panel edges, 12 in. o.c. field



#### Change from Blocked to Unblocked Diaphragm Not Required

Diaphragm Capacity = 217 plf

Max. Shear for Unblocked Diaphragm = 178 plf (for SPF)

Maximum Roof Shear = 2,731 lbs

Length from Blocked to Unblocked = -18.22 ft. (From Roof Edge)

#### **Blocking Not Required**

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Roof Diaphragm C-MR9483B SW Calcs (3-12) .xlsx 9/2/2020

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Home Builders, inc.

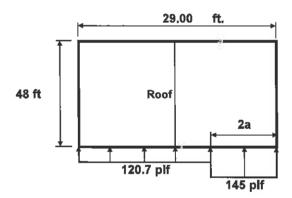
#### Unblocked, 7/16" Wood Roof Diaphragm

Model:

C-MR9483B

Spacing at 6 in. o.c. at diaphragm perimeter, 6 in. o.c. at other panel edges, 12 in. o.c. field

Loading Type Diaphragm Type Sheathing Layout Fastener Type	Unblocked Case 3 15	gage staples		Code Reference agm Perimeter Spacing Panel Edge Spacing Max L/W Ratio	6	վ.
Roof Diaphragm Data :	IVIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	' fastener length		House Layout :		
Diaphragm Capacity =	161	plf		Roof Pitch =		/12
Reduction Factor =		for SPF		Overhang, OH =		in
Max. Shear =	132	plf		Wall Height, H =	108	in
Note: ESR 1539 Values increased 40% per IBC	2015 for wind lo	ad only.		Floor Width, W =	14.50	ft
			2017 Florida Building Code	Number of floors =	2	2
Wind Load :	ASCE7-10	ASCE7-05	Vasd	Length =	48.00	) ft
Wind Speed =	150	119	116			
Exposure =	C		Dia	aphragm Load (Field) =	120.7	plf
Mean Roof Height =	19.88	ft	Dia	aphragm Load (Edge) =	145.0	plf
Adjustment Factor =	1.29	]		Windward Uplift =	8.2	plf
Wall Load (Field) =	18.3	psf		Edge Distance, a =	3.0	ft.
Wall Load (Edge) =	27.6	psf			<u>-</u>	



#### **Span Calculation:**

Allowable Shear Load = 6,337 lbs
Maximum Span = 114.6 ft.

B. Chord Force = 5,670 lbs

Moment due to Chord = 272,160 ft-lbs

Maximum Span = 134.2 ft.

Diaphragm Chord: #2

#2 2x4 (SPF)

SEP 0 3 2020

#### Change from Blocked to Unblocked Diaphragm Not Required

Diaphragm Capacity = 161 plf

Max. Shear for Unblocked Diaphragm = 132 plf (for SPF)

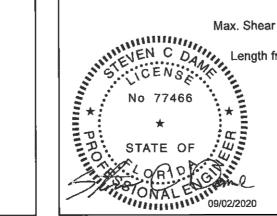
Maximum Reaction = 1,881 lbs

Length from Blocked to Unblocked = -30.73 ft. (From Roof Edge)

### **Blocking Not Required**

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Roof Diaphragm (Endwall) C-MR9483B SW Calcs (3-12) .xlsx



ar Load Connection: From Diaphragm	(ESR-1539)
. Metal Strip with 15 Ga. Staples	
ed across Joint = 95 plf	
arallel to Grain =92 lbs/staple	
Spacing = 11 in o.c.	
otion; (no metal strip required) (NDS)	
Connect With = #10 x 4" Screws	1
ad across Joint = 95 plf	

ESR-	-1539)			
	1	X	7	,
1		X		

ALCOST. SEP 0 3 7021

**OHAMPION** 

home tuilders. inc.

Spacing =	1
Anchor Bolt Shear:	(NDS

Screw Option; (no metal strip

Total Load across Joint =

Capacity Parallel to Grain =

Number of Sill Plates = 5/8 in. dia, Anchor Bolt Fastener = 94.2 Shear Parallel to Grain = Shear Perpendicular to Grain = 137.3 Capacity Parallel to Grain = 1552 Capacity Perpendicular to Grain = lbs/bolt Spacing = 72 in. oc.

145 lbs/screw

18 in o.c.

Segmented (Endwell) C-MR9483B SW Calcs (3-12) .xlsx

C-MR9483B 7/16" Rated Shearwall at Endwall Model: End Wall 1 Connected by: 15 ga. Staples spaced @ 6 in. o.c. (edge), 12 in. o.c. (field) Minimum 1.75" fastener length Code Reference ESR-1539 Loading Type = Wind Shearwall Data: Stud Spacing Components & Cladding 16 in o.c. Edge Field
Corner 6" o.c. 10.5" o.c. Shearwall Capacity = Unblocked Horz, Seems 0.6 Factor Field 6" o.c. 12" o.c. Note: ESR 1533 Values increased 40% per IBC 2015 for wind load only. Length = 48.0 ft. Porch = 3 PORCH ROOF MAIN ROOF 29 ft. 153 plf 101.8 plf 0 plf Total Shear at Endwall = 2,731 lbs Shear Wall Required = 21.43 ft. Available Wall = 29 00 ft. Actual Shear Value 3,695 lbs Shear Capacity = (0) - Simpson (or EQ.) Overturning Moment: Anchor Capacity = 0 Anchor Uplift Force = O MSTCM40 @ 4,220# tension ea. **Shearwall to Roof Truss Connection:** (Out of Plane) Fasteners = #8x4" Toe-Screws (NDS) Fastener Capacity = 103.6 lbs/screw Shear Load = 112.4 plf Fasteners req'd @ 11.0 in, oc. In Plane and Out of Plane Shear Option: Without OSB overlap (OSB seam at BC of truss) Shear Load = 206.5 plf
Fasteners req'd @ 6.0 in. oc. Bottom Plate to Rim Joist Connection: (Out of Plane) Fasteners = 0.131 x 3.25" Nails (NDS) Fastener Capacity = 100,2 lbs/nail

Shear Load = 113.1 plf
Nails req'd @ 10.5 in. oc.
Number per cavity ≈ 5.0 nails

No 77466 77,ONAL 09/02/2020

> Segmented (Endwall) C-MR9483B SW Calcs (3-12) .xisx

7/16" Rated Shearwal (127 plf Wal		Model	: C-MR9483B End Wall 2	
Shear wall to rim joist connection: (in Plane)  Fastener = 15	(ESR-1539) Staple	Minimum 1.75" fastener length		
Fastener Capacity = 72.0 Shear Load ≃ 94.2 Fasteners req'd @ 9.0	lbs/staple plf in. oc.			
use (2) rows: 6.0	in, oc. stagg	ered		
Bottom Half Wall Shear Connection (Out of Plane)  Fastener = 0.131 x 3.25  Fastener Capacity = 108.9  Shear Load = 137.3  Nails req'd @ 9.0		SR-1539)		
Shear Transfer from Rim Joist to Si (In Plane)	Staple ibs/nail plf plf in. oc.	(ESR-1539) Minimum 1.75" fastener length		
Roof Joint Connection: (NDS)		Angle = 45	deg.	
Shear Capacity = 239 lbs/bolt Withdrawl Capacity = 440 lbs/bolt Combined Capacity = 309.7 lbs/bolt	Withdra	Angle = 0.7854 #10  aar Capacity = 131  wi Capacity = 204  ed Capacity = 131.5	rad. Screws Ibs/bolt Ibs/bolt Ibs/bolt	
Roof Uplift Connection:   Uplift = 34.8 plf     Roof Trib = 179.36 in.     Moment = 3660 lbs-ft     Moment Arm: = 13.40 ft     Tension Force = 273.2 plf	Spacing = Spacing =	Alternating Sides #10 Screws	×	
Capacity Parallel to Grain = 9 Spacing = 11  Screw Option: (no metal strip required Connect With = #10 x 4" Sc Total Load across Joint = 9	ples 5 plf 12 lbs/staple in o.c. ) (NDS)	(ESR-1539)		SEP 0 3 2020
Anchor Bolt Shear: (NDS)  Number of Sill Plates = 5/8 Fastener = 5/8 Shear Parallel to Grain = 94.2 Shear Perpendicular to Grain = 1552 Capacity Parallel to Grain = 928 Spacing = 72	in. dia. And plf plf lbs/bolt lbs/bolt in, oc.	hor Bolt		CARTER

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Segmented (Endwall 2)

C-MR9483B SW Calcs (3-12) .xlsx

No 77466

\*
STATE OF 09/02/2020 Segmented (Endwall 2) C-MR9483B SW Calcs (3-12) .xlsx

7/16" Rated Shearwall at Endwall Model: C-MR9483B End Wali 2 Connected by: 15 ga. Staples spaced @ 6 in. o.c. (edge), 12 in. o.c. (field) Minimum 1.75" fastener length

Loading Type = Wind Code Reference ESR-1539 Stud Spacing
15 in c.c.
Unblocked Horz. Seems
0.6 Factor 
 Components & CladdIng

 Edge
 Field

 6" o.c.
 10.5" o.c.

 Field
 6" o.c.
 12" o.c.
 Shearwall Data: rwall Capacity = 259 plf duction Factor = 0.82 for SPF Max. Shear = 127 plf Shearwall Capacity = Reduction Factor = Note: ESR 1539 Values increased 40% per IBC 2015 for wind load only. Length = 48.0 ft. Porch ≈ 3 ft MAIN ROOF 29 ft. PORCH ROOF 101.8 plf 0 plf 153 plf Endwall Total Shear at Endwall = 2,731 lbs Shear Wall Required = 21.43 ft. Available Wall = 29.00 ft. Actual Shear Value = Shear Capacity = 3,695 lbs Overturning Moment: Anchor Capacity = (0) - Simpson (or EQ.) MSTCM40 @ 4,220# Anchor Uplift Force = tension ea. Shearwall to Roof Truss Connection: (Out of Plane) Fasteners = #8x4" Toe-Screws (NDS) Fastener Capacity = 103.6 lbs/screw
Shear Load = 112.4 plf
Fasteners req'd @ 11.0 in. oc. In Plane and Out of Plane Shear Option:

Without OSB overlap (OSB seam at BC of truss)

Shear Load = 206.5 plf

Fasteners req'd @ 6.0 in. oc. Bottom Plate to RIm Joist Connection: (Out of Plane) Fasteners = 0,131 x 3,25" Nails (NDS) Fastener Capacity = 100.2 Ibs/nail
Shear Load = 113.1 plf
Nails req'd @ 10.5 in. oc.
Number per cavity = 3.0 nails

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C-MR9483B Sidewall 1

Stud Spacing

in o.c.

Connected by: 15 ga. Staples @ 6 in. o.c. (edge), 12 in. o.c. (field)

Minimum 1.75" fastener length Loading Type = Wind

Loading Factor =

Shearwall Data:

Shearwall Capacity = 259 Reduction Factor = 0.82 for SPF Maximum Shear =

Unblocked Horz. Seems ESR-1539 0.6 Factor Components & Cladding

plf (for SPF) 127 Note: ESR 1539 Values increased 40% per IBC 2015 for wind load only. Wall Height, H = 198

Edge Field Corner 6" o.c. 10.5" o.c. Field 6" o.c. 12" o.c.

Wall Segment Lengths

	ft	in	ft	h/bs	% Capacity	Strength (plf)
1	3	9	3.75	2.40	100%	127
2	6	9	6.75	1.33	100%	127
3 .	9	6	9.50	0.95	100%	127
4	3	2	3.17	2.84	100%	127
5	7	1	7.08	1.27	100%	127
6	3	7	3.58	2.51	100%	127
7			0.00	0.00	0%	127
8			0.00	0.00	0%	127
			33.83			127

Total Shear @ Wall = 1.881 lbs Actual Shear Wall Segment Lengths = 33.83 Perforated Shear Wall Length = 48.00 Actual Shear Value =

Percent Full Height Sheathing

Lower Bound =

Upper Bound =

0.70			
0.70			
0.80			

CHAMPION HOME BUILDERS, INC.

Maximum	Opening	Height

	80	in
	0.74	
Lower Bound =	0.67	7
Upper Bound =	0.83	

	1/3 h	1/2 h	2/3 h	5/6 h	1 h
10%	1.00	0.69	0.53	0.43	0.36
20%	1 00	0.71	0.56	0.45	0.38
30%	1.00	0.74	0.59	0.49	0.42
40%	1 00	0.77	0.63	0.53	0.45
50%	1.00	0.80	0.67	0.57	0.50
60%	1 00	0.83	C 71	0 63	0.56
70%	1.00	0.87	0.77	0.69	0.63
80%	1.00	0.91	0.83	0.77	0.71
90%	1.00	0.95	0.91	0.87	0.83
100%	1 00	1.00	1.00	1.00	1.00

#### Interpolation

0.77	0.69
0.83	0.77

0.73
0.80

0.74 Perforated Capacity = 94 Allowable Shear Force = 3175 Anchor Uplift Force = O

No 7746 09/02/2020

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CHAMPION

Home Tuilders, Ing.

#### 7/16 in. Thick Rated Shear Wall

Model:

C-MR9483B Sidewall 1

#### Roof Truss to Top Plate Connection:

Fasteners = 0.131 x 3.25" Toe Nails (NDS) Fastener Capacity = 108.9 lbs/nail 39.2 Parellel Shear Load = plf

Perpendicular Shear Load = 87.6 plf No. of nails req'd = 2 per truss



#### Bottom Plate to Rim Joist Connection:

Fasteners = 0.131 x 3.25" Nails (NDS) Fastener Capacity = 100.2 lbs/nail

100.7 Shear Load = plf Nails reg'd @ 11,5 in, oc. Nails reg'd @ 3 per stud cavity



#### **Bottom Half Wall Shear Connection:**

(Out of Plane)

Fastener = 0.131 x 3.25" Toe Nail (ESR-1539)

108.9 Fastener Capacity = lbs/nail 107.1 Shear Load = Dlf 12.0 Nails reg'd @ in. oc.



#### Shear Transfer from Rim Joist to Sill Plate:

Staple Fastener = 15 Fastener Capacity = 72 lbs/each

Lateral Shear Load = 39.2 plf Uplift Shear Load = 33.7 plf 16.0 Nails req'd @ lin. oc. Minimum 1.75" fastener length

ESR-1539



Anchor Bolt Shear and Uplift:

Option: LTP4 Clips =

(NDS)

132.0 in. o.c.

# of Sill Plates = Fastener = 5/8 in. dia. Anchor Bolt

39.2 plf Shear Parallel to Grain = Shear Perpendicular to Grain = 107.1 plf Capacity Parallel to Grain = 1552 lbs/bolt (NDS Table 11E SPF) (NDS Table 11E SPF) Capacity Perpendicular to Grain = 928 lbs/bolt Required Shear Spacing = 72 in. oc.

Uplift = 33.7 plf Washer Area = 2.03 Cb = 1.21 425 Fcp = psi Anchor Bolt Uplift Capacity = 1050 lbs/bolt 372 in. oc. Required Uplift Spacing =



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Perforated (Sidewall) C-MR9483B SW Calcs (3-12) xlsx Field

10.5" o.c.

12" c.c.

Model:

C-MR9483B

15 ga. Staples @

Sidewall 2 in. o.c. (edge), 12 in. o.c. (field)

Loading Type = Wind

Connected by:

Loading Factor = 1.

Shearwall Data:

Shearwall Capacity = 392 plf
Reduction Factor = 0.82 for SPF
Maximum Shear = 193 plf (for SPF)

ESR-1539

Stud Spacing

16 in o.c.

Unblocked Horz. Seems

0.6 Factor

Components & Cladding

Edge

Note: ESR 1539 Values increased 40% per IBC 2015 for wind load only

Wall Height, H = 108

Corner 4" o.c.

A/all	Coan		1	atha	
/vall	Segn	nent	Len	gtns	

	ft	in	n ft	h/bs	% Capacity	Strength (plf)
1	3	8	3.67	2.45	100%	193
2	5	0	5.00	1.80	100%	193
3	3	10	3.83	2.35	100%	193
4	4	0	4.00	2.25	100%	193
5	3	11	3.92	2.30	100%	193
6			0.00	0.00	0%	193
7			0.00	0.00	0%	193
8	,		0.00	0.00	0%	193
_			20.42			193

Total Shear @ Wall =	1.881	lbs
Actual Shear Wall Segment Lengths =	20.42	ft.
Perforated Shear Wall Length =	48.00	ft.
Actual Shear Value =	154.6	— <sub>nlf</sub>

Percent Full Height Sheathing

0.43 Lower Bound = 0.40 Upper Bound = 0.50 Maximum Opening Height

0.74 Lower Bound = 0.67 Upper Bound = 0.83

	1/3 h	1/2 h	2/3 h	5/6 h	1 h
10%	1.00	0.69	0.53	0.43	0.36
20%	1.00	0.71	0.56	0.45	0.38
30%	1.00	0.74	0.59	0.49	0.42
40%	1 00	0.77	0 63	0.53	0.45
50%	1.00	0.80	0.67	0.57	0.50
60%	1 00	0.83	0.71	0.63	0.56
70%	1.00	0.87	0.77	0.69	0.63
80%	1 00	0.91	0.83	0.77	0.71
90%	1.00	0.95	0.91	0.87	0.83
100%	i 00	1.00	1.00	1.00	1.00

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Co =	0.60	
Perforated Capacity =	115	plf
Allowable Shear Force =	2347	lbs
Anchor Uplift Force =	- 0	lbs

Interpolation

0.63	0.53
0.67	0.57

0.59 0.63

No 77466

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C-MR9

Perforated (Sidewall) (2) C-MR9483B SW Calcs (3-12) ,xlsx 9/2/2020

Champion Home fuilders, ing.

7/16 in. Thick Rated Shear Wall

Model:

C-MR9483B Sidewall 2

### Roof Truss to Top Plate Connection:

Fasteners = 0.131 x 3.25" Toe Nails (NDS)

Fastener Capacity = 108.9 | lbs/nail | Parellel Shear Load = 39.2 | plf | Perpendicular Shear Load = 87.6 | plf | No. of nails req'd = 2 | per truss



#### **Bottom Plate to Rim Joist Connection:**

Fasteners = 0.131 x 3.25" Nails (NDS)

Fastener Capacity = 100.2 | lbs/nail |
Shear Load = 100.7 | plf |
Nails req'd @ 11.5 | in. oc. |
Nails req'd @ 3 | per stud cavity



### **Bottom Half Wall Shear Connection:**

(Out of Plane)

Fastener = 0.131 x 3.25" Toe Nail (ESR-1539)

Fastener Capacity = 108.9 | lbs/nail | Shear Load = 107.1 | plf | in. oc.



#### Shear Transfer from Rim Joist to Sill Plate:

Fastener = 15 Staple
Fastener Capacity = 72 lbs/each

Fastener Capacity = 72 lbs/ear
Lateral Shear Load = 39.2 plf
Uplift Shear Load = 33.7 plf
Nails req'd @ 16.0 in. oc.

Option: LTP4 Clips = 132.0 in. o.c.



#### Anchor Bolt Shear and Uplift:

Required Uplift Spacing =

(NDS)

# of Sill Plates = 1 Fastener = 5/8 in. dia. Anchor Bolt

Shear Parallel to Grain = 39.2 plf 107.1 Shear Perpendicular to Grain = plf Capacity Parallel to Grain = 1552 lbs/bolt (NDS Table 11E SPF) Capacity Perpendicular to Grain = 928 lbs/bolt (NDS Table 11E SPF) Required Shear Spacing = 72 in. oc. 33.7 Uplift = 2.03 Washer Area = 1.21 Cb = Fcp = 425 1050 Anchor Bolt Uplift Capacity = lbs/bolt

372

in. oc.



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ESR-1539

Minimum 1.75" fastener length

Perforated (Sidewall) (2) C-MR9483B SW Calcs (3-12) .xlsx



## REScheck Software Version 4.6.5

# **Compliance Certificate**

**Project** 261-C-MR9483B

**Energy Code:** 2017 Florida Building Code, Energy Conservation

Location: Port Saint Joe, Florida

Construction Type: Single-family Project Type: **New Construction** 

Conditioned Floor Area: 1,392 ft2 Glazing Area 11%

Climate Zone: 2 (1429 HDD)

Permit Date: Permit Number:

Designer/Contractor: Construction Site: Owner/Agent:

Port St Joe, FL

Compliance Envelope passes UA trade-off. Additional mandatory requirements apply. Complete the REScheck inspection

Compliance: 23.7% Better Than Code

Maximum UA: 358

Maximum SHGC: 0.25

Your SHGC: 0.25

08/03/2020

The % Better or Worse Than Code Index reflects how close to compliance the house is based on code trade-off rules. It DOES NOT provide an estimate of energy use or cost relative to a minimum-code home.

# **Envelope Assemblies**

Assembly	Gross Area or Perimeter	Cavity R-Value	Cont. R-Value	U-Factor	UA
Ceiling 1: Flat Ceiling or Scissor Truss	1,392	30.0	0.0	0.035	49
Wall 1: Wood Frame, 16" o.c.	1,386	19.0	0.0	0.060	71
Window 1: Vinyl Frame:Double Pane with Low-E SHGC: 0.25	116			0.300	35
Door-Front: Solid	40			0.134	5
Door 2: Glass SHGC: 0.25	40			0.330	13
Floor 1: All-Wood Joist/Truss:Over Unconditioned Space	1,392	11.0	0.0	0.072	100

# Mechanical Equipment

Description		Fuel type Efficiency	
Air Source			7.7 HSPF, 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 2017 Florida Building Code, Energy Conservation requirements in REScheck Version 4.6.5 and to comply with the mandatory requirements listed in the REScheck Inspection Checklist.

Gerald Thomas - Draftsman

Name - Title

Signature

7/22/20

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Project Title: 261-C-MR9483B

Data filename: K:\ENG\REScheck Models\C-MR9483B-SGD.re

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Report date: 07/22/20

Page 1 of 11



## REScheck Software Version 4.6.5

# **Compliance Certificate**

**Project** 

261-C-MR9483B

**Energy Code:** 

2017 Florida Building Code, Energy Conservation

Location:

Port Saint Joe, Florida

Construction Type:

Single-family

Project Type: Conditioned Floor Area: 1,392 ft2

**New Construction** 

Glazing Area

10%

Climate Zone:

2 (1429 HDD)

Permit Date:

Permit Number:

Construction Site:

Port St Joe, FL

Owner/Agent:

Designer/Contractor:

Compliance: Envelope passes UA (gade off, Additional mandatory requirements apply. Complete the REScheck inspection

Compliance: 22.7% Better Than Code

Maximum UA: 344

Your UA: 266

Maximum SHGC: 0.25

Your 5HGC: 0.25

The % Better or Worse Than Code Index reflects how close to compliance the house is based on code trade-off rules. It DOES NOT provide an estimate of energy use or cost relative to a minimum-code home.

## **Envelope Assemblies**

Assembly	Gross Area or Perimeter	Cavity R-Value	Cont. R-Value	U-Factor	UA
Ceiling 1: Flat Ceiling or Scissor Truss	1,392	30.0	0.0	0.035	49
Wall 1: Wood Frame, 16" o.c.	1,386	19.0	0.0	0.060	73
Window 1: Vinyl Frame:Double Pane with Low-E SHGC: 0.25	131			0.300	39
Door-Front: Solid	40			0.134	5
Floor 1: All-Wood Joist/Truss:Over Unconditioned Space	1,392	11.0	0.0	0.072	100

# Mechanical Equipment

	Description	Fuel type	Efficiency
Air Source			7.7 HSPF, 13 SFFR

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 2017 Florida Building Code, Energy Conservation requirements in REScheck Version 4.6.5 and to comply with the mandatory requirements listed in the REScheck Inspection Checklist.

Gerald Thomas - Draftsman

Name - Title

Project Title: 261-C-MR9483B

Data filename: K:\ENG\REScheck Models\C-MR9483B.rck

Report date: 07/22/20

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Page 1 of 10

Job Trues Truss Type Qty Champion Homes 216 86527 M673407 MONO TRUSS 1 1 030112-01 Universal Forest Products Inc., Grand Rapids, MI 49525, Mike Patten 8.030 e Oct 5 2016 MiTek Industries, Inc. Mon Jan 30 08:26:12 2017 Copyright © 2017 Universal Forest Products, Inc. All Rights Reserved 1-0-0 3-9-1 3-9-11 3-2-2 2.5x3 || 6 نهدا 3x3 = 10-10-7 5 3.00 12 3x3 = 1-0-0 Opt. Ave = Cut-off 410-3 3 1x3 || 10 2x5 II g 8 7 1x3 3x3 3x3 4v4 3.9.1 3-9-11 15-3-0 Plate Offsets (X,Y)- [3:0-2-4,Edge], [4:0-0-7,0-1-4], [5:0-0-5,0-1-0], [6:Edge,0-1-4], [8:0-1-4,0-1-4], [11:0-2-4, Edge

LOADING TOLL TODL BOLL BODL	(psf) 20.0 6.0 0.0 * 5.0	SPACING-         2-0-0           Plate Grip DOL         1.26           Lumber DOL         1.26           Rep Stress Incr         YES           Code FBC2014/7P12007	CS1 TC 0.39 BC 0.56 WB 0.63 Matrix-R	DEFL. in (loc) Vdefl L/d Vert(LL) 0.12 9-10 >999 240 Vert(TL) -0.13 8-9 >999 180 Horz(TL) -0.05 7 n/a n/a	PLATES GRIP MT20 197/144
			IN SILIK-I		Meight 35 lb ST - 00s

BRACING.

TOP CHORD

BOT CHORD

LUMBER-TOP CHORD 2x3 SPF No.2 BOT CHORD 2x2 SPF No.2

WERS 2x2 SPF Stud \*Except\*

WB: 2x3 SPF Stud, W1: 2x3 SPF No.3, W2: 2x4 SPF No.3

REACTIONS. (lb/size) 7=431/Mechanical, 11=502/0-3-8 (min. 0-1-8) Max Horz 11=263(LC 7) Max Uplit7=-483(LC 7), 11=-508(LC 5)

FORCES. (lb) - Maximum Compression/Maximum Tension

TOP CHORD

BOT CHORD

Maximum - Compression Naximum - Firsion 1-2=-73/87, 2-3=-97/120, 3-4=-70/17/5, 4-5=366/343, 5-6=-29/10, 6-7=85/102, 1-12=-56/0 11-12=-78/76, 10-11=-1066/780, 9-10=-1066/781, 8-9=-872/660, 7-8=-429/328 3-10=0/104, 4-9=-70/146, 5-8=-258/247, 3-9=-131/210, 4-8=-387/619, 5-7=-476/626, 3-11=-770/798, 2-11=-172/308 WEBS

NOTES1) This truss has been checked for uniform roof live load only, except as noted.
2) Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=116mph; TCDL=2.4psf; BCDL=2.0psf; h=30ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cartillever left exposed; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom

- chord and any other members.

  5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 483 ib uplift at joint 7 and 508 ib uplift at joint 11.

6) Based on M673405 7) FBC 2014

Structural wood sheathing directly applied or 5-9-9 oc purilins, except end verticals [P] Rigid celling directly applied or 3-7-15 oc bracing.

ORIDACINATION ORIDACINATION ON ALENGALISM 1/30/2017

The professional engineering seal indicates that a licensed professional has reviewed the design under the standards referenced within this document, not necessarily the current state building code. The engineering seal is not an approval to use in a specific state. The final determination on whether a truss design is acceptable under the locally adopted building code rest with the building official or designated appointee.

WARNING - Verify design parameters and READ NOTES PHONE (616)-364-8161 FAX (616)-365-0060 Truss shall not be cut or modified without approval of the truss design engineer

2801 EAST BELTLINE RD, NE GRAND RAPIDS, MI 49525

This component has only been designed for the loads noted on this drawing. Construction and lifting forces have not been considered. The builder is responsible for lifting methods and system design. Builder responsibilities are defined under TPI1. This design is based only upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of building designer - not truss designer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to insure stability during construction as the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult BCSI 1-06 from the Wood Truss Council of America and Truss Plate Institute Recommendation available from WTCA, 6300 Enterprise LN, Madison, WI 53719 J \supportMitekSupp\templates\ufp.tpe

