HWC

ENGINEERING • INSPECTIONS
CERTIFICATIONS • TESTING

April 22, 2019

Palm Harbor Homes
605 South Frontage Road
Plant City, FL 33563

RE: Manufacturer: Palm Harbor Homes
S/N Size & Occupancy: 340TL30683AMO, 30'-0" x 68'-0". SFD
HWC Plan #: 1R 2102-1375F

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 and Standards, 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)

COLUMBIA COUNTY BUILDING DEPARTMENT
Received for FILE COPY
Code Compliance
PLANS EXAMINER

Sincerely,
HILBORN, WERNER, CARTER & ASSOCIATES, INC.

Plan Reviewer

HILBORN, WERNER, CARTER AND ASSOCIATES, INC.
1627 SOUTH MYRTLE AVENUE CLEARWATER, FLORIDA 33756
(727) 584-8151
FAX: (727) 586-3343 Modular / (727) 585-2382 Depts / (727) 587-0447 Inspection

Model #:340TL30683AMO
Pelican Bay

DISCIPLINE DESIGNATOR			
A	ARCHITECTURAL	O	OPERATIONS
B	GEOTECHNICAL	P	PLUMBING
C	CIVIL	Q	EQUIPMENT
D	PROCESS	R	RESOURCE
E	ELECTRICAL	S	STRUCTURAL
F	FIRE PROTECTION	T	TELECOMMUNICATIONS
G	GENERAL	U	USER DEFINED
H	HAZARDOUS MATERIAL	V	SURVEY / MAPPING
I	INTERIORS	X	OTHER DISCIPLINES
L	LANDSCAPE	Z	CONTRACTOR / SHOP PRINTS
M	MECHANICAL		

SHEET TYPE DESIGNATORS		
0	GENERAL	SYMBOLS, LEGENDS, NOTES, ETC.
1	PLANS	HORIZONTAL VIEWS
2	ELEVATIONS	VERTICAL VIEWS
3	SECTIONS	SECTIONAL VIEWS & WALL SECTIONS
4	LARGE-SCALE VIEWS	PLANS, ELEVATIONS, STAIR SECTIONS, OR SECTIONS THAT ARE NOT DETAILS.
5	DETAILS	
6	SCHEDULES & DIAGRAMS	
7	USER DEFINED	
8	USER DEFINED	
9	3D REPRESENTATION	ISOMETRICS, PERPSPECTIVES, PHOTOGRAPHS

Date 4-22-19 Plan No. 1R2102-1375F
Approved By SCOTT S. FRANCIS

Module Building Plans Examiner
Florida License No. 57942

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A2.02	Right & Left Elevations
~~A3.01~~	~~On Frame Cross Section~~
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Plant Number 69

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P.E. William H. "Rob" Roberts, P.E.
607 South Alexander Street Suite #201
Plant City, Florida 33563
Plant Information

Palm Harbor Homes, Inc.
605 S. Frontage Road
Plant City, Florida 33566

Drawing Information
Model Number: 340TL30683AMO
Status Name: PELICAN BAY
Series: TIMBERLAND
Drawn by: GRS/BB
Date: 03/03/17
Serial #: --

Dealer: --
--

Customer:
--

3rd Party
Hilborn, Werner, Carter and Associates(HWC)
1627 South Myrtle Ave
Clearwater, FL 33756

State:
LISTING AGENCY APPROVAL
These prints comply with the Florida Manufactured Building Act of 1979 Construction Code and adhere to the following criteria:

CONST. TYPE	VB
OCCUPANCY	SFD
ALLOWABLE NO. OF FLOORS	1
WIND VELOCITY	150 ULTI3 SEC)
FIRE RATING OF EXT. WALLS	0
PLAN NO.	1R-2102-1375F
ALLOW. FLOOR LOAD	40
APPROVAL DATE	4.22.19
MANUFACTURER	PHH
HIGH VELOCITY HURRICANE ZONE	NO

MUR 261 HWC

Sheet Title: TITLE SHEET ON
Sheet Number: G0.01
Sheet: 1 of --
Plan #: 1R-2102-1375F

FLORIDA
STRUCTURAL LOAD LIMITATIONS:

1. FLOOR LIVE LOAD = 40 PSF
2. ROOF LIVE LOAD = 20 PSF
3. WIND LOAD: 150 mph (Ult) WIND SPEED (3 sec gusts)(Refer to floorplan)
4. BUILDING IS RISK CATEGORY II.
5. WIND EXPOSURE CATEGORY "D"
6. GCpi = 0.18 INTERNAL PRESSURE COEFFICIENT (ENCLOSED)
7. D.W.P. FOR C/C PSF
8. THIS BUILDING IS NOT DESIGNED FOR PLACEMENT ON THE UPPER HALF OF A HILL OR ESCARTMENT EXCEEDING 15 FEET IN HEIGHT.
9. FLOOD LOAD: THIS BUILDING MAY BE LOCATED IN A FLOOD HAZARD AREA PROVIDED NO MODULAR PORTION OF THE BUILDING IS LOCATED BELOW A BASE FLOOD ELEVATION.

On Frame Notes: On-frame, piered units (stacked units where frames remain in place) are limited to 160 mph (Ult) and non-elevated design pressures only. Elevated pressures and pressures over 160 (Ult) do not apply to on-frame, piered units.

ASCE 7-10

Design Wind Pressures for C&C (PSF)

Pn=Roof C&C load (EA=20)							
Wind speed:	150						
Zone 1	-27.9						
Zone 2	-45.9						
Zone 3	-68.9						
Roof Overhang (EA=10)							
Zone 2	-58.4						
Zone 3	-98.3						
Pw= Wall C&C load, Wdws & Doors (EA=10)							
Zone 4	31.4						
Zone 5	31.4						
Zone 4	-34.0						
Zone 5	-41.9						
Porch - (EA=20,Main) (EA=10, Eave)							
Main Zone 1	-37.0						
Zone 2	-55.5						
Zone 3	-78.0						
Eave Zone 1							
Zone 2	-72.7						
Zone 3	-72.7						

Design pressures (DP) apply only for wind speeds > 114 mph. See appropriate Risk Cat Table.
Wind Speeds in Table Header are Ultimate 3-Sec.Gusts per ASCE 7-10
Window and Door DP ratings must meet or exceed those listed above for
Zone 5 (within 4ft of ea corner), or Zone 4 (interior), for desired wind speed.

General Notes – FBC 6th EDITION (2017) RESIDENTIAL
1. Designs per the Florida Building Code in effect at time of production.
2. Reserved
3. Reserved.
4. Occupancy is Residential (SFD)
5. Construction is type V-B.
6. Occupant load is based upon one person for each 200 sq. ft. of floor area.
7. Floor Live Load = 40 p.s.f.
8. Roof Live Load = 20 p.s.f.
9. Wind speed – See details in this approved package for specifics.
11. All materials covered by the Florida Building Commission chapter 61 G20-3.006 rules shall have current Florida Product Approvals.
13. 75% of all permanently installed lighting fixtures shall have high efficacy lamps
14. Unless specifically noted on the approved plans and details, this building is NOT designed (nor intended) to be located in "High Velocity Hurricane Zones" (Dade and Broward Counties).

It is the responsibility of the contractor and/or retailer to verify that each home is installed in the region for which it has been designed and constructed and that NO home is installed into "High Velocity Hurricane Zones" (Dade or Browad county). This modular building may be sited in "Regulatory Flood Plain Areas" and/or "V-Zone Areas" only when the foundation has been designed, engineered and constructed to comply with the Florida Building Codes governing those specific zones, areas or regions. No part of the modular building may be placed below base flood elevation. Palm Harbor Homes and its third party approval agency(s), along with the architect and/or the engineer of the building plans, shall not be held responsible or liable, if a contractor and/or retailer installs a home into a region for which it has not been designed and/or constructed. The contractor and/or retailer shall bear sole responsibility.
15. Data plate, state label shall be located on the inside cover of or near the electrical panel.
16. Raised seal prints are on file in the office of HWC, Inc.
17. Plan review and inspection required by Chapter 633 F.S. to be handled by local fire inspector.
18. This building is designed for a permanent foundation and is NOT intended to be moved once so installed.
19. These plans may be mirrored or flipped about any axis without reapproval.

Mechanical Notes – FBC 6th EDITION (2017) RESIDENTIAL
1. All supply air registers are adjustable, except where otherwise specified on the plans.
2. Whole house ventilation will be applied based on FBCR, R303.4 & M1507.3
3. Restroom vent fans shall provide 50 cfm minimum of ventilation.
4. Vent fans shall be ducted to the exterior of home.
5. Reserved
6. ALL ducts and duct system components installed in the attic area with insulation are a minimum R-value of R-6.0 (based on simulated performance method of compliance).
7. ALL ducts and duct system components installed on the exterior of the building (including the crawl space below), shall have a minimum R-value of R-6.0. NOTE:If this building is located in a jurisdiction that has adopted the ordinance for RADON RESISTANT CONSTRUCTION, RULE 9B-67, FLORIDA STATUTE 553.98, return air ducts and plenums shall be not be located in the crawl spaces.

Attention Local Building Inspections Department:
The following items have not been completed by the manufacturer, have not been inspected by HWC and are not certified by the State of Florida, Department of Business & Professional Regulations insignia (abel). Note: This list does not necessarily limit the items, work and/or materials that may be required for a complete installation. ALL SITE INSTALLED ITEMS ARE SUBJECT TO APPROVAL BY THE LOCAL JURISDICTION HAVING AUTHORITY. Code compliance for those site installed items shall be determined at the local level and are the responsibility of the licensed contractor installing the building and NOT Palm Harbor Homes

Plumbing Systems – FBC 6th EDITION (2017) RESIDENTIAL
1. All systems shall be constructed with the materials listed in FBC, Residential – Plumbing with materials listed in chapters 25 through 33.
2. DWV systems may be ABS OR PVC piping.
3. Tub access provided under home, unless otherwise noted.
4. Building drain and clean-outs, when designed and site installed by others, are subject to local jurisdiction approval.
5. Water heater shall have a safety pan with 3/4 inch minimum drain to the exterior.
6. Water heater T & P relief valve to drain to exterior.
7. Thermal Expansion device, if required by water heater installation instructions, and if NOT shown on the approved plumbing plan, shall be designed and installed on-site, by others and is subject to local approval.
8. All plumbing fixtures to have separate shutoff valves.
9. Shutoff valve to be installed within three feet of the fresh water inlet to the home (site installed, by others).
10. Water supply pipes installed in a wall exposed to the exterior shall be located on the heated side of the wall insulation. Water lines located in unconditioned spaces to be insulated with minimum R-6.5 insulation.
11. Water supply lines shall be PEX, polybutylene, CPVC or copper.
12. ALL supply 'crossover' piping to be connected on-site by others.
13. Shower stalls shall be covered with a nonabsorbent material to a height of 70 inches above finished floor (may be on-site).
14. Showers shall be controlled by an approved mixing valve with a maximum outlet temperature of 120° F (49° C).
15. ALL on-site plumbing shall be installed by a licensed plumbing contractor. ALL on-site plumbing is subject to inspection and approval by the local authority having jurisdiction.
16. Water hammer arrestors are required when flow velocity will cause water hammer.
17. Provide heat traps if required per FLORIDA ENERGY CODE 403.5.5

Site Installed Items:
(This list contains examples and shall not be considered all inclusive)
1. The complete foundation and tie-down systems.
2. Ramps, stairs and general access to the building.
3. Building drains, clean-outs and hookup to the plumbing system.
4. Any portable fire extinguisher(s) that may be required.
5. Electrical service hookup (including feeders) to the building.
6. The main electrical panel and sub-feeders (multi-section units).
7. Structural and aesthetic interconnections between modules (multi-section units).
8. Exterior siding and/or roofing may be installed in the factory or left off to be installed on-site, by-others.
9. Exterior wall finish and soffit materials.
10. Window protection, storm shutters.
11. Bottom of floor wind protection (when required).
12. Crossover duct and connections (HVAC) if multi section only.
13. HVAC disconnect.
14. Fireplace chimney.
15. Gable wall framing, chimney.
16. HVAC equipment.
17. Combustion Gas Venting, Combustion Air Intake.
18. A.A.V. (Air Admittance Valves)
19. Optional elevator is designed and installed on site by others.
20. Blower door test and whole house ventilation (if required).

Some of these items may be installed in the factory at the discretion of plant management. If the items are installed and inspected at the production facility, then local approval is not required.

Site module interconnections
See NON_INDEXED attached pages:
1. For floor mating line structural interconnections see attached page: IM.01
2. For endwall mating line structural interconnections see attached page: IM.02
3. For roof fixed truss mating line structural interconnections see attached page: IM.03
4. For 2-story module interconnections see attached page: IM.06 (if applicable)

CODE SUMMARY

STATE: FLORIDA

RESIDENTIAL: FBC 6th EDITION (2017) RESIDENTIAL	FIRE PREVENTION: 2017 FFPC 6th Edition FL. FIRE PREVENTION
ELECTRICAL: 2014 N.E.C.	
MECHANICAL: FBC 6th EDITION (2017) RESIDENTIAL	FUEL: FBC 6th EDITION (2017) RESIDENTIAL
PLUMBING: FBC 6th EDITION (2017) RESIDENTIAL	ACCESSIBILITY: FBC 6th EDITION (2017) ACCESSIBILITY
ENERGY: FBC 6th EDITION (2017) RESIDENTIAL	

Approximate Square Footage of Building:
(see table on A0.02)

Florida product approvals are on file with third party.

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P.E.: William H. "Rob" Roberts, P.E. 607 South Alexander Street, Suite #201 Plant City, Florida 33563 Plant Information

Plant Number: 69

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Palm Harbor Homes, Inc. 605 S. Frontage Road Plant City, Florida 33566

Drawing Information
Model Number: 340TL30683AMO
Sales Name: PELICAN BAY
Series: TIMBERLAND
Drawn by: GRS/BB
Date: 03/03/17
Serial #: --

Dealer: --
--

Customer:
--

3rd Party
Hilborn, Werner, Carter and Associates(HWC)
1627 South Myrtle Ave
Clearwater, FL. 33756

State:
LISTING AGENCY APPROVAL
These prints comply with the Florida Manufactured Building Act of 1979 Construction Code and adhere to the following criteria:

CONST. TYPE	VB
OCCUPANCY	SFD
ALLOWABLE NO. OF FLOORS	1
WIND VELOCITY	150 ULT(3 SEC)
FIRE RATING OF EXT. WALLS	0
PLAN NO.	1R-2102-1375F
ALLOW. FLOOR LOAD	40
APPROVAL DATE	5-22-19
MANUFACTURER	PHH
HIGH VELOCITY HURRICANE ZONE	NO

MUR 281 HWC

Sheet Title: CODE SHEET ON
Sheet Number: A0.01
Sheet: 1 of --
Plan #: 1R-2102-1375F

General Notes:

1. The building may be constructed in an exact mirror image about its axis without any re-approval of the plans (building may be "flipped" side to side and/or front to rear).
2. Optional horizon windows may be added at any location without re-approval. The energy calculations shall be revised to include the added horizon windows
3. Minimum corridor width is 36".
4. All glazing within a 24 inch arc of doors, whose bottom edge is less than 60 inches above the floor, and all glazing in doors shall be tempered or acrylic plastic sheet.
5. Shearwalls are designed either worst case or plan specific. When designed to worst case, shearwalls are designed with sidewalls @ 108" height and 6-12 roof pitch. When shearwalls are designed plan specific, see floorplan (typically page A1.01) for sidewall and roof pitch limitations.
6. Please refer to the code sheet of this package for additional notes and requirements.See shear wall notes and shearwall tables for shear wall construction requirements.
7. Exterior walls are no more than 9'-0" max unless otherwise noted.
8. When roof construction is cathedral ceilings, attic access shown on the plans are not required when the dimension between chord members is less than 30".
9. When designing your own foundation, add 2" to overall width shown on floor plan per module to accommodate growth from sheathing and strapping.
10. Sidewalls are 4" or 6" up to 150 mph (Ult). Sidewalls are 6" for winds above 150 mph (Ult).
6. Nationwide homes is a division of Palm Harbor Homes. Any construction in this unit not included in this package must be done in accordance with the Palm Harbor Homes of Florida Manual..
7. Unless otherwise indicated on truss design, trusses spaced per chart:
8. For truss tiedown and attachment to top plate of exterior wall, see FMM G-150 3.3 & 3.3.1

⬡

See Page S0.01 for Shear Wall Notes.
See Shearwall Tables on other page in this package.
Indicates Shear Wall Locations.

Vasd	Vult (mph) EXP. C	Vult (mph) EXP. D	TRUSS SPACING END ZONE	TRUSS SPACING INT ZONE
120 MPH	155 MPH	141 MPH	24" O.C.	24" O.C.
130 MPH	168 MPH	153 MPH	16" O.C.	24" O.C.
140 MPH	181 MPH	165 MPH	16" O.C.	16" O.C.
150 MPH	194 MPH	177 MPH	12" O.C.	16" O.C.
175 MPH	226 MPH	208 MPH	12" O.C.	16" O.C.

NOTE: WINDOWS & DOORS MUST BE RATED FOR APPLICABLE WIND PRESSURES PER CHARTS ON CODE SHEET (Typically A0.01)

Kinro / CWS Window Chart		
Size	Square Foot Light	Square Foot Vent
20X22 TRAP	2.5	0
24x36	4.3	2.15
24X60	7.69	3.84
24X12	2.070	0.00
36x60	12.20	6.14
36x12	2.17	0.00
30x60	9.95	5.03
30x36	5.55	2.76
30x12	1.75	0.00
14x36	2.48	1.30
18x40	3.54	1.86
30x42	6.55	0.00
64x12	4.90	5.20
46x12	3.28	0.00
48X12	3.40	0.00
48X72	22.36	0.00
46X36	8.96	4.21
54X40	12.42	6.80

Door Chart		
Size	Square Foot Light	Square Foot Vent
36x80 Atrium	9.00	0.00
36x80 Door	4.90	0.00
72x80 S.G.D.	32.18	16.33
76X80 Dbl French	8.12	0.00
36x80 Single French	4.00	0.00

Building Square Footage Table

SQUARE FOOTAGE BREAKDOWN FOR PROJECT		
DESCRIPTION	AREA (Sq. Ft.)	PERIMETER (Ft.)
SQUARE FEET A.C.	2022.50 SF	198
Total Project	2022.50 SF	198

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Plant Number: 69

P.E. William H. "Rob" Roberts, P.E.
607 South Alexander Street
Suite #201
Plant City, Florida 33563
Lic. # 42742
Plant Information

Palm Harbor Homes, Inc.
605 S. Frontage Road
Plant City, Florida 33566

Drawing Information
Model Number: 340TL30683AMO
Status Name: PELICAN BAY
Series: TIMBERLAND
Drawn by: GRS/BB
Date: 03/03/17
Serial #: ---

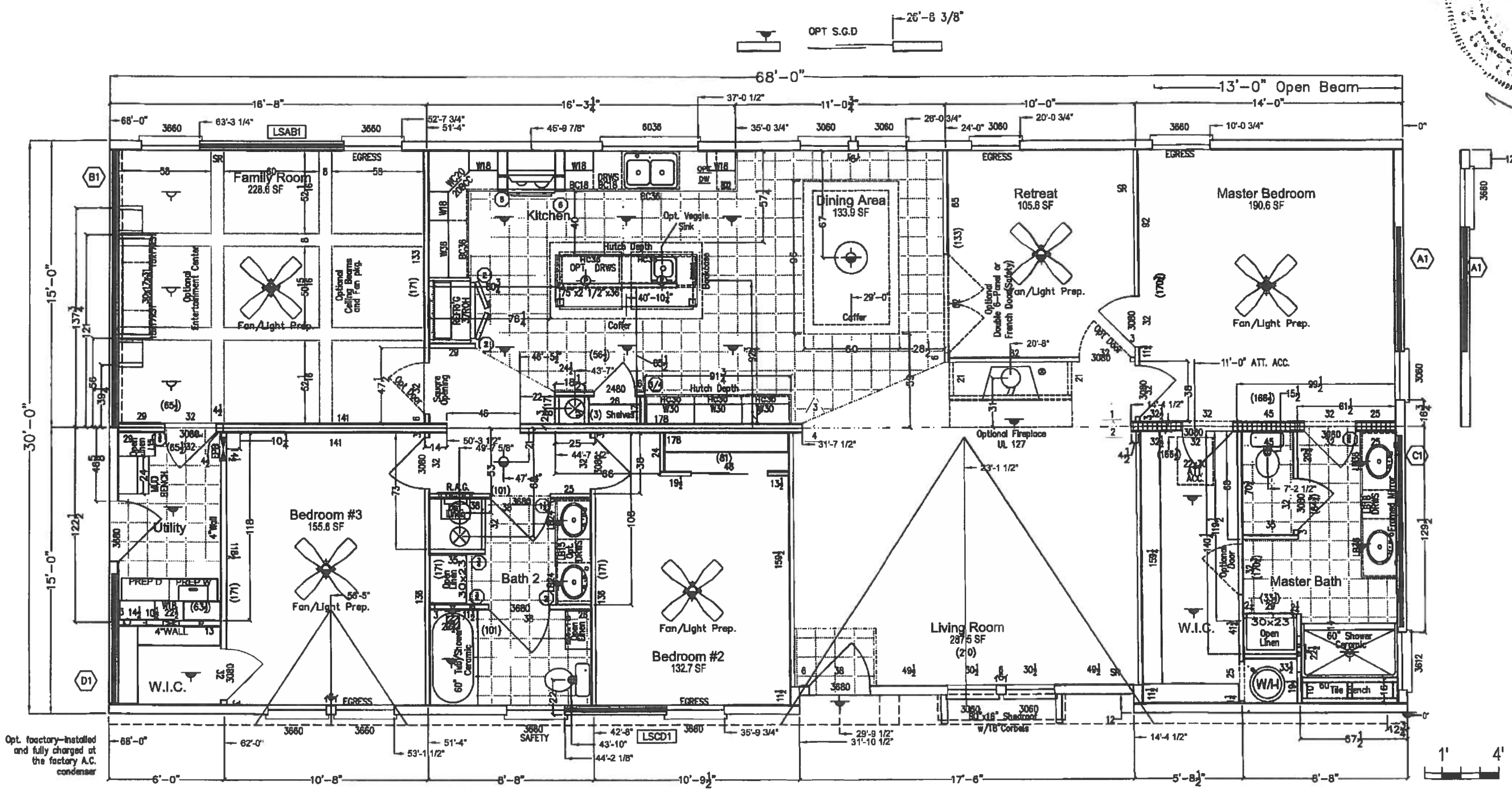
Dealer: –
–
Customer:
–
3rd Party
Hilborn, Werner, Carter and Associates(HWC)
1627 South Myrtle Ave
Clearwater, FL. 33756

State:
LISTING AGENCY APPROVAL
These prints comply with the Florida Manufactured Building Act of 1979 Construction Code and adhere to the following criteria:

CONST. TYPE	VB
OCCUPANCY	SFD
ALLOWABLE NO. OF FLOORS	1
WIND VELOCITY	150 (3 SEC)
FIRE RATING OF EXT. WALLS	0
PLAN NO.	1R-2102-1375F
ALLOW. FLOOR LOAD	40
APPROVAL DATE	4-22-19
MANUFACTURER	PHH
HIGH VELOCITY HURRICANE ZONE	NO

MUR 261 HWC

Sheet Title: CONSTRUCTION NOTES
Sheet Number: A0.02
Sheet 1 of –
Plan #: 1R-2102-1375F



(DYN) NOTE TO CONTRACTORS:

1. WHEN PLANNING THE FOUNDATION LAYOUT, IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE LENGTH, WIDTH, AND OTHER STANDARD OR OPTIONAL FEATURES SUCH AS BAYS, OFFSETS, PORCHES, ETC., AGAINST THE FACTORY-AUTHORIZED DOCUMENTS OR A SERIALIZED PRINT. CONTACT YOUR FACTORY REPRESENTATIVE FOR MORE INFORMATION.
2. WHEN PLANNING THE FOUNDATION LAYOUT, THE FOUNDATION WALL'S OUTSIDE TO OUTSIDE DIMENSION SHOULD BE 1" WIDER THAN THE FLOOR PLAN WIDTH SHOWN ON THE FLOOR PLAN PAGE TO ACCOMMODATE MATERIALS GROWTH.

P.E. William H. "Rob" Roberts, P.E.
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Suite #201
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Lic. # 42712
Plant Information

Plant Number: 69

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Palm Harbor Homes, Inc.
605 S. Frontage Road
Plant City, Florida 33566

Drawing Information
Model Number: 3407L30683AMO
Sales Name: PELICAN BAY
Series: TIMBERLAND
Drawn by: GRS/BB
Date: 03/03/17
Serial #: --

Dealer: --
--
Customer:
--

3rd Party
Hilborn, Werner, Carter and Associates(HWC)
1627 South Myrtle Ave
Clearwater, FL. 33756

State:
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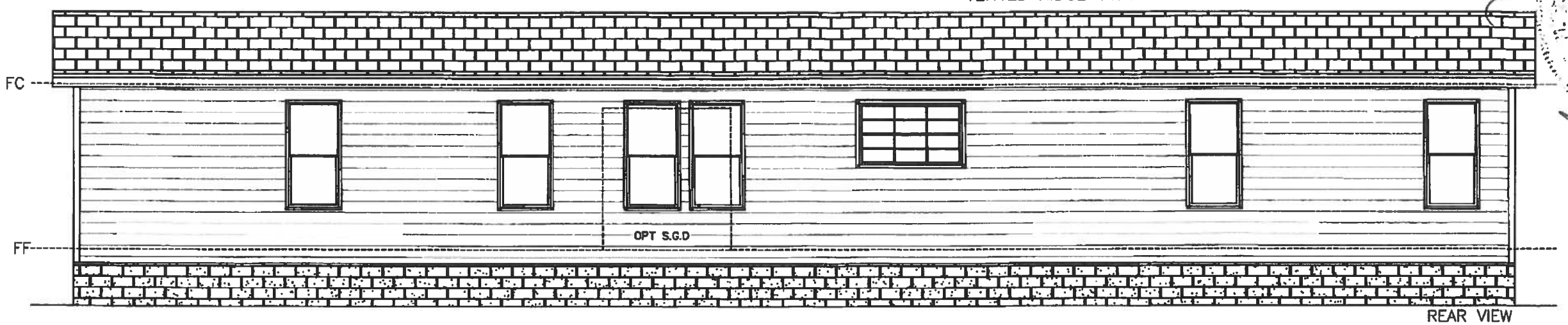
These prints comply with the Florida Manufactured Building Act of 1979 Construction Code and adhere to the following criteria:

CONST. TYPE	VB
OCCUPANCY	RFD
ALLOWABLE NO. OF FLOORS	1
WIND VELOCITY	150 ULTG SEC)
FIRE RATING OF EXT. WALLS	0
PLAN NO.	1R-2102-1375F
ALLOW. FLOOR LOAD	40
APPROVAL DATE	1-22-19
MANUFACTURER	PHH
HIGH VELOCITY HURRICANE ZONE	NO

MUR 281 HWC

Sheet Title: FLOORPLAN
Sheet Number: A1.01
Sheet 1 of --
Plan #: 1R-2102-1375F



REAR VIEW

FF = FINISHED FLOOR
FC = FINISHED CEILING
UC = UNIT INTERCONNECTION

X = SEE SITE BUILDER'S FOUNDATION DETAILS AND SPECIFICATIONS FOR FOUNDATION HEIGHT(S).

(DYN) Exterior Elevation Notes:

1. Roof ventilation may be accomplished through the use of either ventilated eaves, roof vents or ridge ventilation. Either or all of these methods may also be used separately or in combination to provide the minimum required roof ventilation of $1/150$ OR $1/300$, see Florida Energy Calculations.
2. Roof overhang (eave) sizes may vary. Roof overhangs are typically a nominal 12" eave or approximately 11 1/4" wide.
3. Bath exhaust fans (ventilated air) shall exhaust directly to the exterior of the home and shall not exhaust into the roof and/or other concealed cavity or area.
4. The elevations shown above are typical and may vary due to optional and/or custom features or specific customer requests.
5. Siding may be approved vinyl or cementious and either vertical or horizontal per manufacture's instructions.
6. Steps and handrails are installed onsite by others or at the factory at the factory's discretion.
7. If window sills are greater than 72" from grade and less than 24" above finish floor, builder is responsible for providing and installing window guards.
8. Exterior doors are fiberglass unless otherwise noted on the plans.
9. When shingles are installed, they are fiberglass, wind resistance: D3161 "Class F" resistance to fire: "CLASS A"
10. Windows are Low-E, insulated.

1' 4'

4/27/19

Plant Number: 69

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OCCUPANCY	SFD
ALLOWABLE NO. OF FLOORS	1
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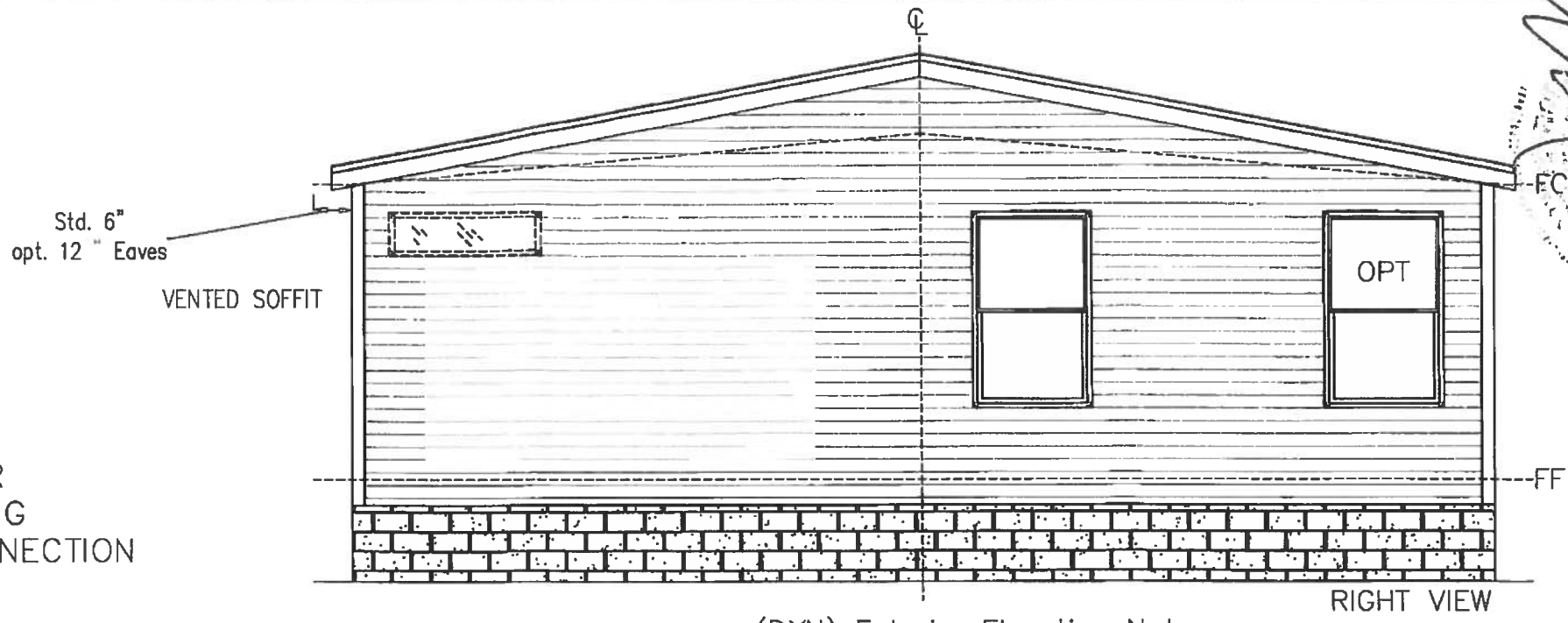
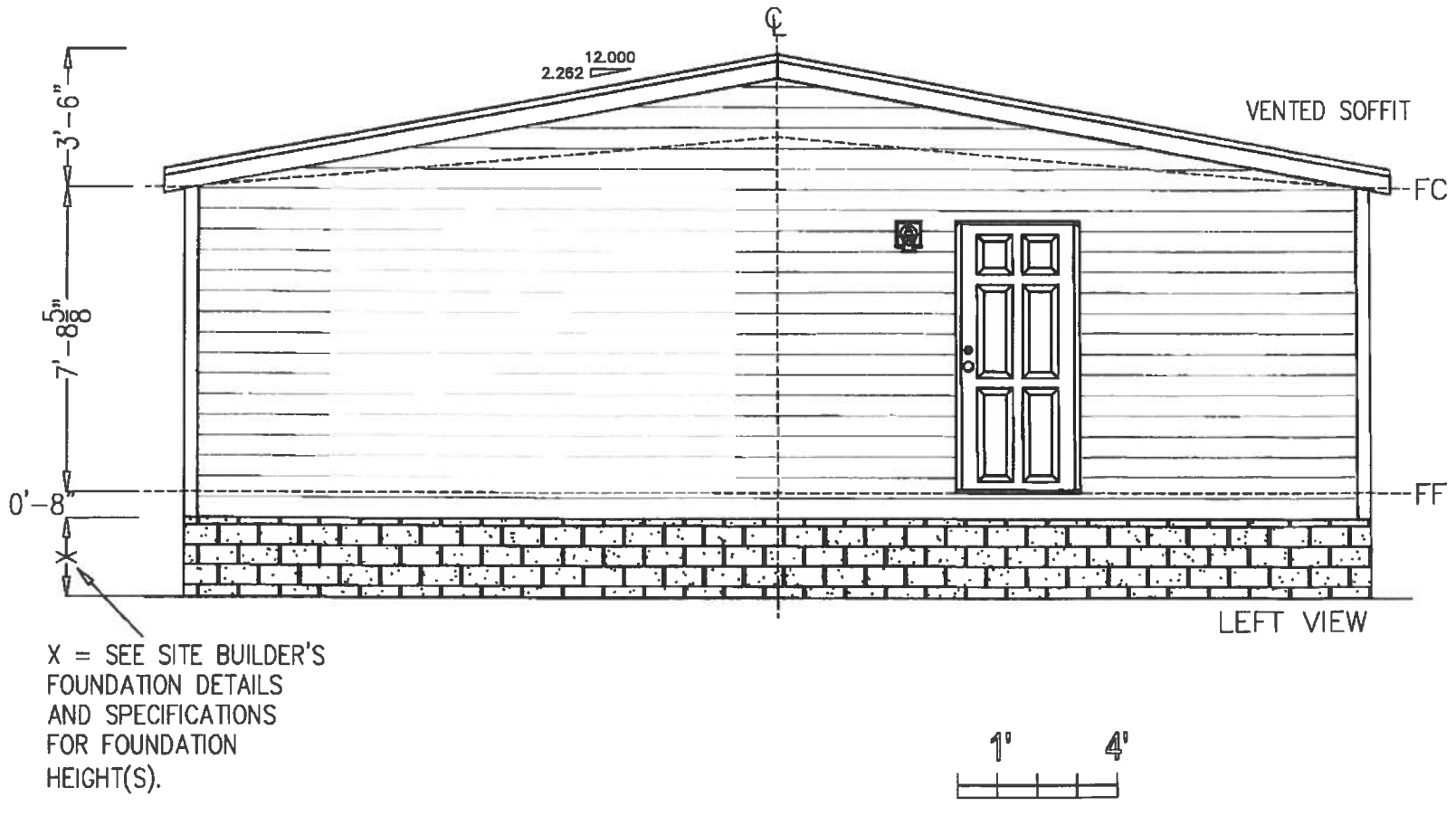
APPROVAL DATE	4-22-19
MANUFACTURER	PHH
HIGH VELOCITY HURRICANE ZONE	NO

MUR 2021 HWC

Sheet Title: FRONT & REAR ELEVATION
Sheet Number: A2.01
Sheet: 1 of --
Plan #: 1R-2102-1375F



FF = FINISHED FLOOR
FC = FINISHED CEILING
UC = UNIT INTERCONNECTION



(DYN) Exterior Elevation Notes:

1. Roof ventilation may be accomplished through the use of either ventilated eaves, roof vents or ridge ventilation. Either or all of these methods may also be used separately or in combination to provide the minimum required roof ventilation of 1/150 OR 1/300, see Florida Energy Calculations.
2. Roof overhang (eave) sizes may vary. Roof overhangs are typically a nominal 12" eave or approximately 11 1/4" wide.
3. Bath exhaust fans (ventilated air) shall exhaust directly to the exterior of the home and shall not exhaust into the roof and/or other concealed cavity or area.
4. The elevations shown above are typical and may vary due to optional and/or custom features or specific customer requests.
5. Siding may be approved vinyl or cementious and either vertical or horizontal per manufacture's instructions.
6. Steps and handrails are installed onsite by others or at the factory at the factory's discretion.
7. If window sills are greater than 72" from grade and less than 24" above finish floor, builder is responsible for providing and installing window guards.
8. Exterior doors are fiberglass unless otherwise noted on the plans.
9. When shingles are installed, they are fiberglass, wind resistance: D3161 "Class F" – resistance tc fire: "CLASS A".
10. Windows are Low-E, insulated.

4/17/19

Plant Number: 69

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P.E.: William H. "Rob" Roberts, P.E
807 South Alexander Street
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Lic. # 48212
Plant Information

Palm Harbor Homes, Inc
605 S. Frontage Road
Plant City, Florida 33566

Drawing Information
Model Number: 340TL30683AMO
Sales Name: PELICAN BAY
Series: TIMBERLAND
Drawn by: GRS/BB
Date: 03/03/17
Serial #: --

Dealer: --
--

Customer:
--

3rd Party
Hilborn,Werner,Carter and Associates(HWC)
1627 South Myrtle Ave
Clearwater, FL. 33756

State:
LISTING AGENCY APPROVAL
These prints comply with the Florida Manufactured Building Act of 1979 Construction Code and adhere to the following criteria:

CONST. TYPE	VB
OCCUPANCY	SFD
ALLOWABLE NO. OF FLOORS	1
WIND VELOCITY	150 ULTIMATE
FIRE RATING OF EXT. WALLS	0
PLAN NO.	1R-2102-1375F
ALLOW. FLOOR LOAD	40
APPROVAL DATE	4.22.19
MANUFACTURER	PHH
HIGH VELOCITY HURRICANE ZONE	NO

MUR 281 HWC

Sheet Title: RIGHT & LEFT ELEVATIONS
Sheet Number: A2.02
Sheet: 1 of --
Plan #: 1R-2102-1375F

GENERAL ELECTRICAL NOTES:

1. Exterior receptacles outlets shall be weather resistant, gfi protected and installed with covers approved for outdoor installation.
2. Cross over connection between modules is accomplished by using 'amp' wire connectors, supplied by connector manufacturer.
3. All electrical components must be u.l. approved and installed per listing and manufacturers's installation instructions.
4. Smoke alarms are interconnected for simultaneous activation with battery backup. All smoke alarms are equipped with a 'hush button' feature.
5. All 125 volt, single phase, 15 and 20 ampere receptacles serving countertop surfaces in kitchen area to have ground-fault circuit interrupter protection for personnel, and arc-fault protection.
6. All wiring is nm-cable unless otherwise noted.
7. All bath exhaust fans must exhaust directly to the exterior.
8. Additional outlets and lights may be added (in addition to those shown on the approved details) without re-approval.
9. All general purpose outlets are required to be on arc-fault circuits, except bathrooms, exterior receptacles, and Jacuzzi.
10. Boxes used at fixtures in the ceiling must be rated for a minimum of 50 pounds. When lights are installed on the wall, the box must to be listed for that purpose and list its weight capacity, if less than 50 pounds. fixtures weighing more than 50 pounds will be supported independently of the box.
11. Egress path must be maintained to the panel box.
12. Tamper resistant recepts must be installed in kitchens, family rooms, dining rooms, living rooms, parlors, libraries, dens, sunrooms, bedrooms, recreation rooms, or similar rooms, or areas of a dwelling unit.
13. Exterior recepts are required at every balcony, deck, and porch regardless of where it is on the building. The recept is not required if the balcony, deck, or porch is less than 20 s.f..
14. ALL circuits and equipment shall be installed and grounded in accordance with the appropriate articles of the National Electrical Code (NEC) that is adopted by the State of Florida, at the time of construction of the building.
15. 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 any 'storage area'.
16. 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 be as the disconnecting means only where the switch OR circuit breaker is within sight of the water heater OR is capable of being locked in the open position. When water heaters are not installed at the factory, the means of disconnect shall be designed and installed on-site, by others.
17. HVAC shall be provided with readily accessible disconnects (installed on-site, by others) adjacent to the equipment being served. A unit switch with a marked 'OFF' position that is part of the HVAC equipment and disconnects ALL ungrounded conductors shall be permitted to to be as the disconnecting means where other disconnecting means are also provided by a readily accessible circuit breaker.
18. When the main electrical service panel is not installed at the factory, the main electrical panel and feeders are to be designed by others, site installed and subject to local jurisdiction approval.
19. ALL circuits crossing over module marriage line(s), shall be site connected with approved accessible junction boxes OR cable connectors.
20. ALL receptacles installed in wet locations (exterior) shall have a weather proof (wp), the integrity of which is not effected when an attachment plug cap is inserted or removed.
21. Ceiling fans shall be 80 inches minimum, from the bottom of the blades to the finished floor.
22. ALL electrical components shall be U.L. Listed and installed in accordance with that listing.
23. Receptacles intended to service bathroom lavatories shall not be located more than 36" away from said lavatory.
24. Breakers and wire sizing may be changed if optional or custom appliances or devices are installed in the building, ALL breakers and wiring shall be sized in accordance with applicable sections of the N.E.C.
25. Switches, receptacles, and other fixtures or devices may be relocated from the locations shown on the approved details due to construction restraints. ALL locations shall comply with applicable sections of the N.E.C.
26. All 3-way switches are to be wired using 14-3 wire unless otherwise noted on plan.
27. Communication ports are typically not shown on approved plans but are required to be installed per NEC 800.156. At management's discretion, they may either be installed in the factory or on site by others. When installed on site, the location and installation are the responsibility of the builder.
28. 75% of all permanently installed lighting fixtures shall have high efficacy lamps

GENERAL LIGHTING	MAIN PANEL BOX	SWITCH	3-WAY SWITCH	EXHAUST-CEIL'G FAN	UNDER CABINET LIGHT
SMALL APPLIANCE	WALL MOUNTED FIXTURE	PHONE	CABLE PREP	HEAT TAPE RECEPT	USB CHARGING STATION / 120 V Outlet
GFI PROTECTED	CEILING MOUNTED FIXTURE	RECESS	RECESSED FLUORESCENT	RECESSED LIGHT	LIGHTED EXHAUST FAN
220V APPLIANCE	RECESSED CAN LIGHT			CEILING FAN OR CEILING FAN PREP	CEILING FAN/LIGHT OR CEILING FAN/LIGHT PREP
SMOKE ALARM	PENDANT LIGHT		SURFACE FLUORESCENT		
CARBON MONOXIDE / SMOKE DETECTOR	LED LIGHT CEILING MOUNTED FIXTURE			THERMOSTAT	WHOLE HOUSE FAN
	SURFACE LIGHT RATED FOR WET AREA	DOOR CHIME BOX (WIRELESS)		24" SURFACE FLOURESCENT	FLOOD LIGHT PREP
	FACTORY WIRED CABLE, PHONE, NETWORK, 15/20 AMP RECEPTACLE.				

NEC – 2014

MAIN BREAKER 200 AMP

Notes:
1. (G/A) = GFI AND ARC FAULT
2. (AF)= Arc Fault

AMP. / WIRE SIZE		DESCRIPTION	CIR. NO.	PANEL SPACE		CIR. NO.	DESCRIPTION	AMP. / WIRE SIZE	
PER MFG		WATER HEATER (4500W/240V)	1	*	*	2	RANGE OR OVEN	PER MFG	
				*	*				
20	12-2*	APPLIANCE	3(G/A)	*	**	4(AF)	GEN. LIGHTING	15	14-2*
20	12-2*	APPLIANCE	5(G/A)	*	**	6(AF)	GEN. LIGHTING	15	14-2*
20	12-2*	APPLIANCE	7(AF)	**	**	8(AF)	GEN. LIGHTING	15	14-2*
20	12-2*	APPLIANCE (SPARE)	9(AF)	*	**	10(AF)	GEN. LIGHTING	15	14-2*
15	14-2*	OPT. D.W.	11(G/A)	*	*	12	BATH G.F.I.	20	12-2*
20	12-2*	LAUNDRY	13(G/A)	**	*	14	ELECTRIC HEAT-A/C	PER MFG	
30 2 POLE	10-3*	CLOTHES DRYER	15	*	*				
				*	*	16	COOK-TOP	PER MFG	
15	14-2*	OPT. DISPOSAL	17 (AF)	*	*				
20	12-2*	OPT. FREEZER	19(G/A)	*	**	18(AF)	SMOKE ALARMS	15	14-3*
15	14-2*	OPT JACUZZI G.F.I.	21	*	*	20	EXTERIOR GFI	20	12-2*
20	12-2*	OPT MICROWAVE	23(AF)	*	**	24(AF)	SPARE	15	14-2*
PER MFG	PER MFG	OPT CONDENSER	25	*	**	26(AF)	SPARE	15	14-2*
20 2 POLE	12-2*	OPTIONAL ELEVATOR	27	*					
				*					

SERIAL NUMBER: NA
MODEL NUMBER: SEE TITLE BLOCK

GENERAL LOADS		VA	KVA
TOTAL UNIT A.C. SQUARE FEET	2,023	6,069	6.1
NO. OF 20-AMP APPLIANCE OUTLET CIRCUITS	3	4,500	4.5
LAUNDRY CIRCUIT	1	1,500	1.5
SUBTOTAL		12,069	12.069
NAME PLATE RATINGS			
RANGE	1	8,000	8.0
WATER HEATER	1	5,500	5.5
DISH WASHER	1	1,400	1.4
CLOTHES DRYER	1	5,000	5.0
GARBAGE DISPOSAL	1	1,500	1.5
COOK TOP	0	0	0.0
WALL OVEN	0	0	0.0
MICROWAVE	1	1,500	1.5
OPT FREEZER	1	1,500	1.5
JACUZZI	0	0	0.0
ELEVATOR	0	0	0.0
WARMING DRAWER	0	0	0.0
STEAM GENERATOR	0	0	0.0
RESERVED	0	0	0.0
SUBTOTAL		24,400	24.4
TOTAL GENERAL & NAME PLATE		36,469	36.5
FIRST 10 KVA AT 100%		10,000	10.0
RAMAINDER AT 40%		10,588	10.6
WORST CASE HVAC AT 100% (ASSUMED)	1	15,800	15.8
NOTE: LOCAL SITE ELECTRIC/HVAC CONTRACTOR TO VERIFY ADEQUACY OF HVAC ELECTRICAL LOAD IN PANEL CALCULATIONS.			
TOTAL PANEL BOX LOAD		36,388	36.4
MINIMUM PANEL BOX AMPERAGESIZE 36,388 /240 =			152
SIZE AMP PANEL BOX INSTALLED 120/240 V, 1ø			200
MIN. NO. OF GENERAL LIGHTING CIRCUITS			4

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Plan Number: 69

P.E.
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Suite #201
Plant City, Florida 33563
Lic. # 42732
Plant Information

Palm Harbor Homes, Inc.
605 S. Frontage Road
Plant City, Florida 33566

Drawing Information
Model Number: 340TL30683AMO
Sales Name: PELICAN BAY
Series: TIMBERLAND
Drawn by: GRS/BB
Date: 03/03/17
Serial #: —

Dealer: —
—
Customer:
—
3rd Party
Hilborn, Werner, Carter and Associates(HWC)
1627 South Myrtle Ave
Clearwater, FL. 33756

State:
LISTING AGENCY APPROVAL
These prints comply with the Florida Manufactured Building Act of 1979 Construction Code and adhere to the following criteria:

CONST. TYPE	VB
OCCUPANCY	SFD
ALLOWABLE NO. OF FLOORS	1
WIND VELOCITY	150 ULT(3 SEC)
FIRE RATING OF EXT. WALLS	0
PLAN NO.	1R-2102-1375F
ALLOW. FLOOR LOAD	40
APPROVAL DATE	4-22-19
MANUFACTURER	PKH
HIGH VELOCITY HURRICANE ZONE	NO

MUR 261 HWC

Sheet Title: ELECTRICAL NOTES
Sheet Number: E0.01
Sheet: 1 of —
Plan #: 1R-2102-1375F

4/17/19

OPT S.G.D

20 GFI WP/WR

OPT. MICRO CIRCUIT #23

20 GFI WP/WR

Family Room

Kitchen

Dining Area

Retreat

Master Bedroom

In-Cabinet

Optional Entertainment Center

OPT 3-way Light

OPT FAN

Coffer

Bookcase

Hutch Depth

(3) Shelves

N/A w/opt.Fireplace

relocate w/Opt.Door

Optional Double 6-Panel or French Door(Safety)

Optional Fireplace UL 127

A.C. SERVICE RECEPT

Utility

Bedroom #3

Bath 2

Bedroom #2

Living Room

Master Bath

W.I.C.

Linen

60" Tub/Shower Ceramic

R.A.G.

PREP D 15

PREP W 13

GFI 20AMP

EGRESS

3660

3660

60"x16" Shadroof w/18" Corbels

Optional Door

Tile Bench

W/H

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Plant Number: 69

P.E. William H. "Rob" Roberts, P.E.
607 South Alexander Street
Suite #201
Plant City, Florida 33563
Lic. #42212
Plant Information

Palm Harbor Homes, Inc.
605 S. Frontage Road
Plant City, Florida 33566

Drawing Information
Model Number: 340TL30683AMO
Sales Name: PELICAN BAY
Series: TIMBERLAND
Drawn by: GRS/BB
Date: 03/03/17
Serial #: --

Dealer: --
--

Customer:
--

3rd Party
Hilborn, Werner, Carter and Associates(HWC)
1627 South Myrtle Ave
Clearwater, FL. 33756

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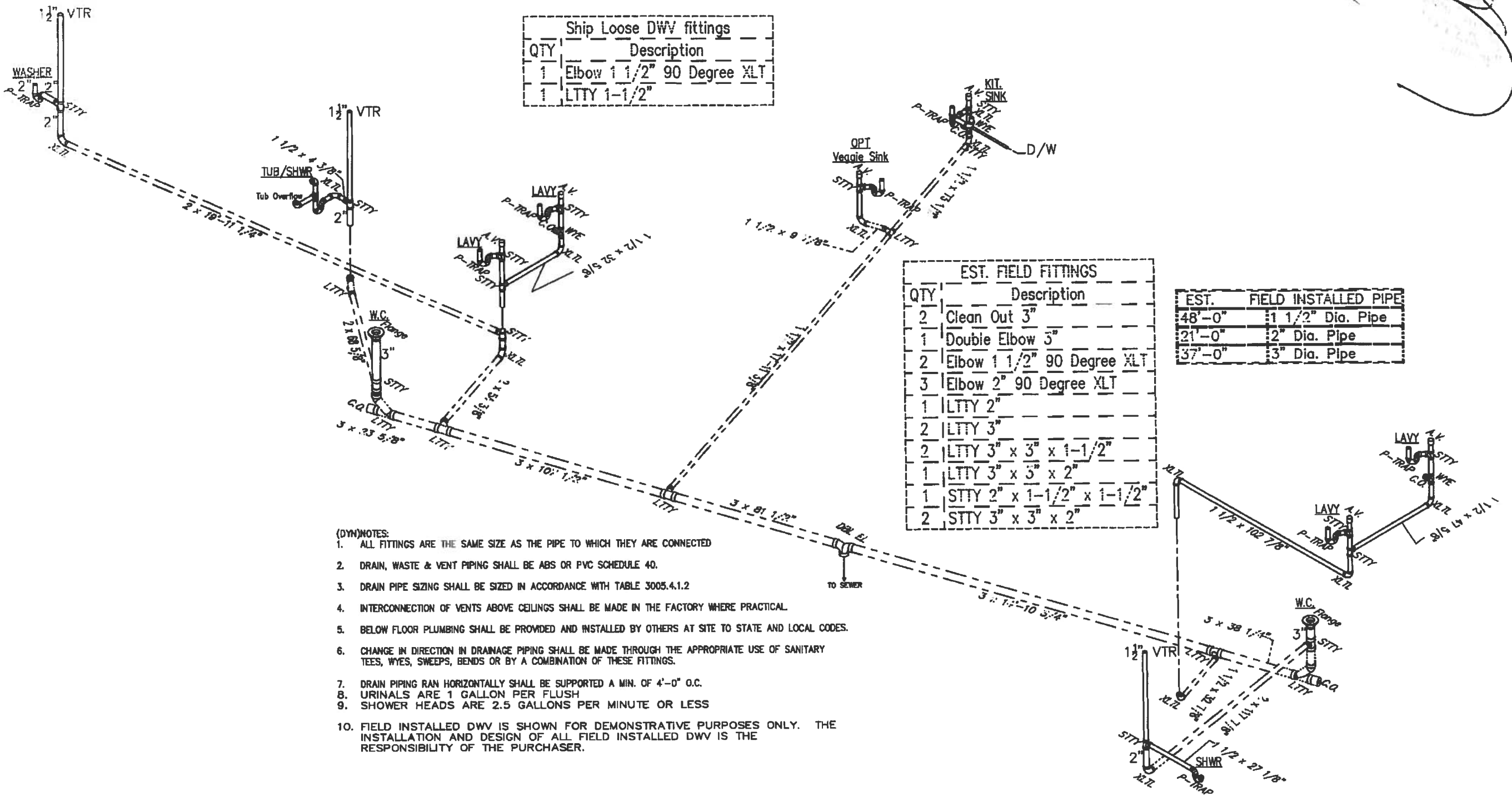
ALLOWABLE NO. OF FLOORS	1
WIND VELOCITY	150 (3 SEC)
FIRE RATING OF EXT. WALLS	0
PLAN NO.	1R-2102-1375F
ALLOW. FLOOR LOAD	40
APPROVAL DATE	1-22-19
MANUFACTURER	PHH
HIGH VELOCITY HURRICANE ZONE	NO

MUR 261

Sheet Title: ELECTRICAL PLAN
Sheet Number: E1.01
Sheet 1 of --
Plan #: 1R-2102-1375F



Ship Loose DWV fittings	
QTY	Description
1	Elbow 1 1/2" 90 Degree XLT
1	LTTY 1-1/2"

EST. FIELD FITTINGS	
QTY	Description
2	Clean Out 3"
1	Double Elbow 3"
2	Elbow 1 1/2" 90 Degree XLT
3	Elbow 2" 90 Degree XLT
1	LTTY 2"
2	LTTY 3"
2	LTTY 3" x 3" x 1-1/2"
1	LTTY 3" x 3" x 2"
1	STTY 2" x 1-1/2" x 1-1/2"
2	STTY 3" x 3" x 2"

EST.	FIELD INSTALLED PIPE
48'-0"	1 1/2" Dia. Pipe
21'-0"	2" Dia. Pipe
37'-0"	3" Dia. Pipe

(DYN)NOTES:
1. ALL FITTINGS ARE THE SAME SIZE AS THE PIPE TO WHICH THEY ARE CONNECTED
2. DRAIN, WASTE & VENT PIPING SHALL BE ABS OR PVC SCHEDULE 40.
3. DRAIN PIPE SIZING SHALL BE SIZED IN ACCORDANCE WITH TABLE 3005.4.1.2
4. INTERCONNECTION OF VENTS ABOVE CEILINGS SHALL BE MADE IN THE FACTORY WHERE PRACTICAL.
5. BELOW FLOOR PLUMBING SHALL BE PROVIDED AND INSTALLED BY OTHERS AT SITE TO STATE AND LOCAL CODES.
6. CHANGE IN DIRECTION IN DRAINAGE PIPING SHALL BE MADE THROUGH THE APPROPRIATE USE OF SANITARY TEES, WYES, SWEEPS, BENDS OR BY A COMBINATION OF THESE FITTINGS.
7. DRAIN PIPING RAN HORIZONTALLY SHALL BE SUPPORTED A MIN. OF 4'-0" O.C.
8. URINALS ARE 1 GALLON PER FLUSH
9. SHOWER HEADS ARE 2.5 GALLONS PER MINUTE OR LESS
10. FIELD INSTALLED DWV IS SHOWN FOR DEMONSTRATIVE PURPOSES ONLY. THE INSTALLATION AND DESIGN OF ALL FIELD INSTALLED DWV IS THE RESPONSIBILITY OF THE PURCHASER.

4/17/19

Palm Harbor Homes

Plant Number: 69

P.E.
William H. "Rob" Roberts, P.E.
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Suite #201
Plant City, Florida 33563
Lic.# 42212
Plant Information

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Palm Harbor Homes, Inc.
605 S. Frontage Road
Plant City, Florida 33566

Drawing Information
Model Number: 340TL30683AMO
Sales Name: PELICAN BAY
Series: TIMBERLAND
Drawn by: GRS/BB
Date: (3/03/17
Serial #: --

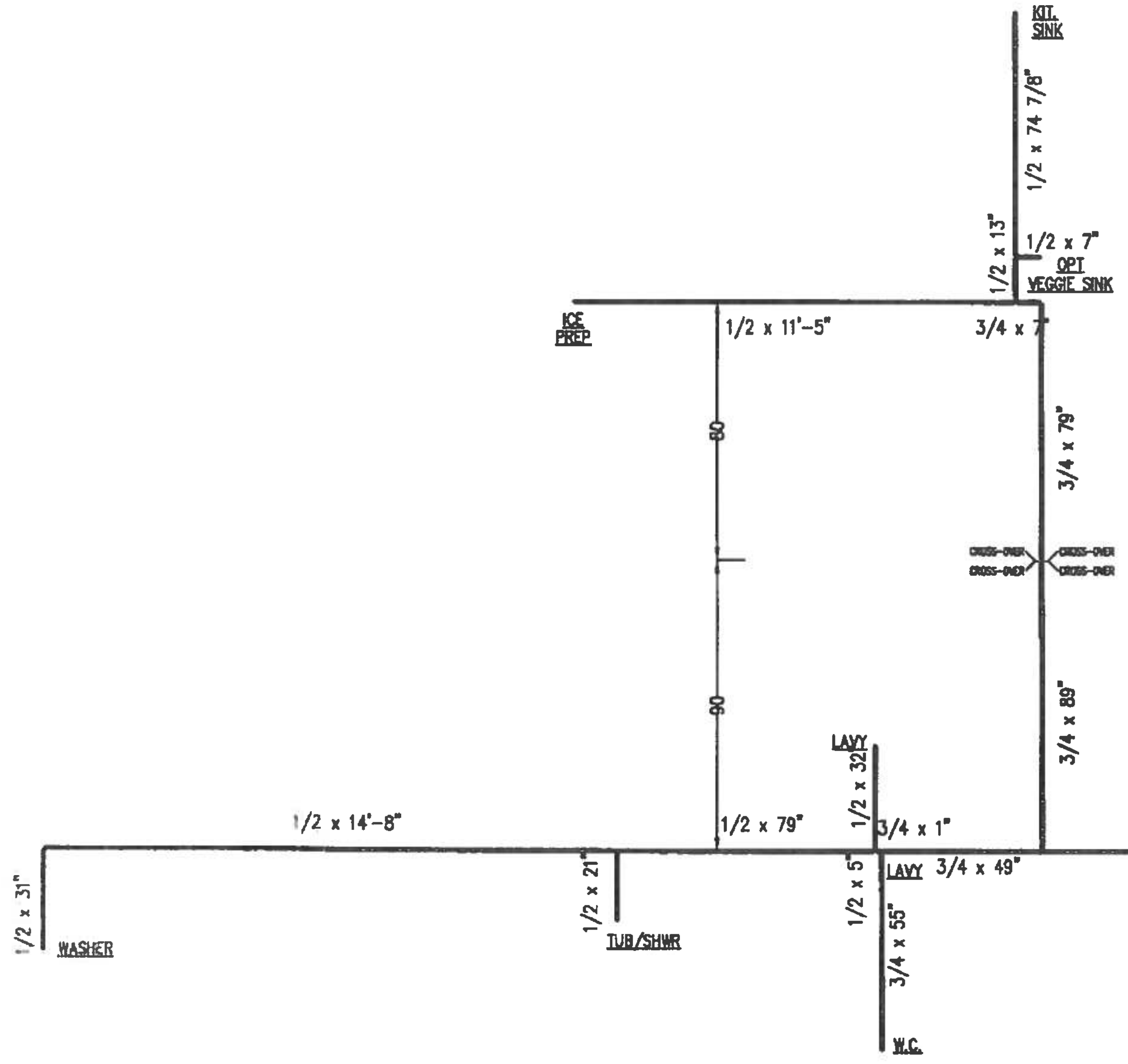
Dealer: --
--
Customer:
--
3rd Party
Hilborn,Werner,Carter and Associates(HWC)
1627 South Myrtle Ave
Clearwater, FL. 33756

State:
LISTING AGENCY APPROVAL
These prints comply with the Florida Manufactured Building Act of 1979 Construction Code and adhere to the following criteria:

CONST. TYPE	VB
OCCUPANCY	SFD
ALLOWABLE NO. OF FLOORS	1
WIND VELOCITY	150 (3 SEC)
FIRE RATING OF EXT. WALLS	0
PLAN NO.	1R-2102-1375F
ALLOW. FLOOR LOAD	40
APPROVAL DATE	4-22-19
MANUFACTURER	PHH
HIGH VELOCITY HURRICANE ZONE	NO

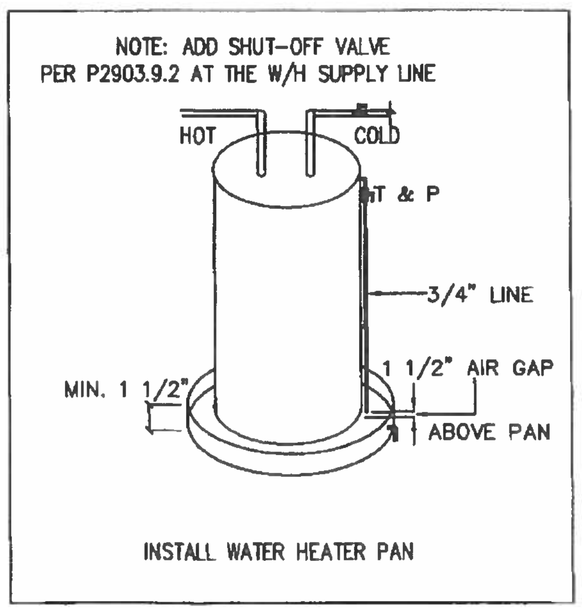
MUR 281 HWC

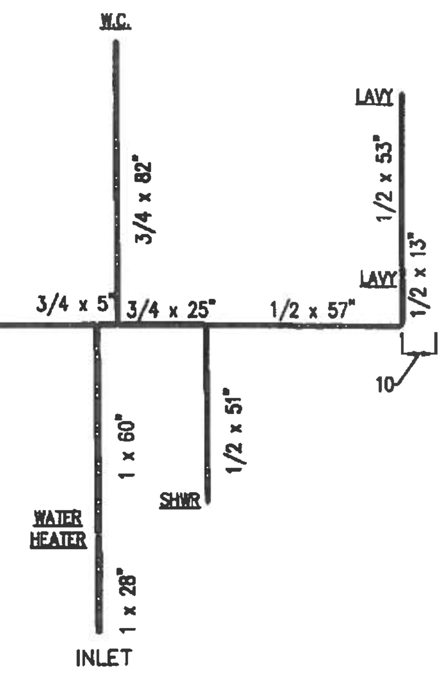
Sheet Title: DWV PLAN
Sheet Number: P1.01
Sheet 1 of --
Plan #: 1R-2102-1375F



(DYN)NOTES:

1. WATER SUPPLY PIPING SHALL BE TYPE 'L' COPPER, CPVC, CROSS LINKED POLYETHYLENE OR OTHER MATERIALS APPROVED FOR USAGE PER STATE AND LOCAL CODE.
2. INTERCONNECTION OF SUPPLY PIPING BELOW FLOOR AND BETWEEN UNITS TO BE COMPLETED ON SITE BY OTHERS TO STATE AND LOCAL CODE.
3. EXTERIOR FAUCETS HOSE BIBS OR WALL HYDRANTS (WATER SUPPLY OUTLETS WITH HOSE THREADS) SHALL BE EQUIPPED WITH A VACUUM BREAKER, INSTALLED PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. EXTERIOR FAUCETS ARE INSTALLED BY OTHERS AT SITE.
4. SHOWERS, BATH TUBS AND TUB/SHOWERS COMBINATIONS SHALL BE EQUIPPED WITH CONTROL VALVES OF THE PRESSURE BALANCE, THERMOSTATIC MIXING OR COMBINATION PRESSURE BALANCE/ THERMOSTATIC MIXING WITH HIGH LIMIT STOPS THAT SHALL BE SET TO LIMIT WATER TEMPERATURE TO A MAXIMUM OF 120 DEGREES.
5. MAIN SHUT OFF VALVE TO BE A FULL WAY VALVE PROVIDED AND INSTALLED BY OTHERS AT SITE.
6. WATER HEATERS SHALL CONFORM TO THE ENERGY REQUIREMENTS OF THE APPLICABLE CODE.
7. USE HEAT TRAPS PER FLORIDA ENERGY CODE R403.5.5.
8. WATER HEATERS SHALL BE PROTECTED BY A SEPARATE PRESSURE-RELIEF VALVE AND SEPARATE TEMPERATURE-RELIEF VALVE OR A COMBINATION.
9. WATER HAMMER ARRESTORS ARE REQUIRED WHEN FLOW VELOCITY WILL CAUSE WATER HAMMER.
10. GAS OR ELECTRIC ON-DEMAND OR TANKLESS WATER HEATER MAY BE SUBSTITUTED WITHOUT REAPPROVAL HOWEVER, FLARES(OR RESCHECK FOR NON-FLORIDA SUBMITTALS) SHALL BE REVISED TO REFLECT THE TANKLESS WATER HEATER.
11. HOT WATER PIPING TO BE INSULATED TO R-3 FOR ¾" AND LARGER PIPING, PIPING LEADING TO DISTRIBUTION MANIFOLD, AND ALL PIPING OUTSIDE OF CONDITIONED SPACE, UNLESS THE "PERFORMANCE" METHOD IS USED TO COMPLY WITH THE FLORIDA ENERGY CODE.
12. DESIGN BASED ON 40 TO 49 PSI PRESSURE RANGE & MDL = 82 FT.





Plan Number: 69

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Plant City, Florida 33563
Lic. # 42712

Plant Information
Palm Harbor Homes, Inc.
605 S. Frontage Road
Plant City, Florida 33566

Drawing Information

Model Number:	340TL30683AMO
Sales Name:	PELICAN BAY
Series:	TIMBERLAND
Drawn by: GRS/BB	Date: 03/03/17
Serial #:	--

Dealer: –
Customer: –

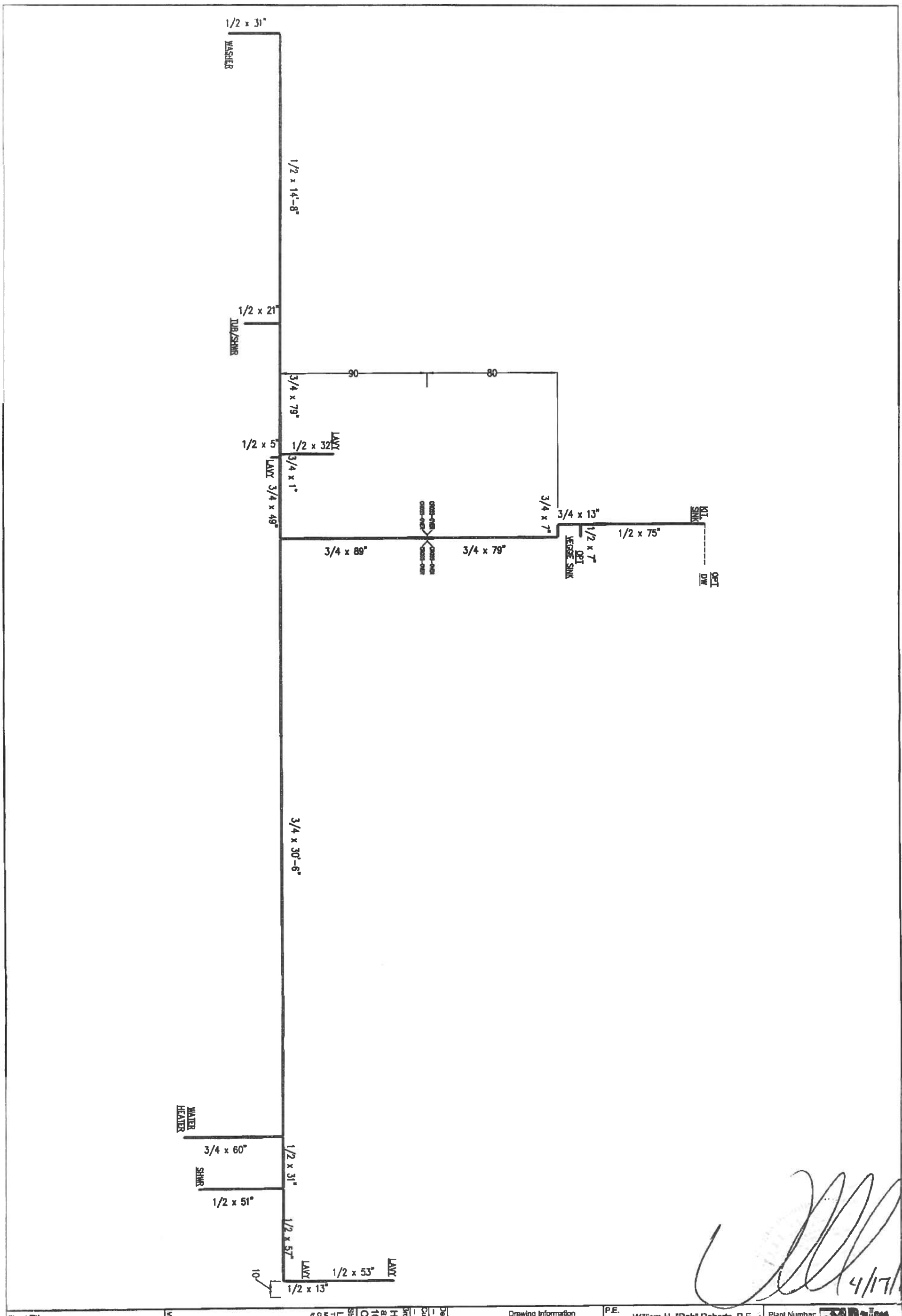
3rd Party
Hilborn,Werner,Carter and Associates(HWC)
1627 South Myrtle Ave
Clearwater, FL. 33756

State:
LISTING AGENCY APPROVAL
These prints comply with the Florida Manufactured Building Act of 1979 Construction Code and adhere to the following criteria:

CONST. TYPE	VB
OCCUPANCY	SFD
ALLOWABLE NO. OF FLOORS	1
WIND VELOCITY	150 ULT(3 SEC)
FIRE RATING OF EXT. WALLS	0
PLAN NO.	1R-2102-1375F
ALLOW. FLOOR LOAD	40
APPROVAL DATE	6-22-19
MANUFACTURER	PHH
HIGH VELOCITY HURRICANE ZONE	NO

MUR 261 HWC

Sheet Title: COLD SUPPLY LINES
Sheet Number: P1.02
Sheet 1 of –
Plan #: 1R-2102-1375F



4/17/19

Sheet Title: HOT SUPPLY LINES	Drawing Information	P.E. William H. "Rob" Roberts, P.E. 607 South Alexander Street Suite #201 Plant City, Florida 33563 Lic. # 42712	Plant Number: 69
Sheet Number P1.03	Model Number: 340TL30683AMO		
Sheet 1 of —	Sales Name: PELICAN BAY		
Plan #: 1R-2102-1375F	Series: TIMBERLAND	Plant Information	
MJR 281	Drawn by: GRS/BB Date: 03/03/17	Palm Harbor Homes, Inc. 605 S. Frontage Road Plant City, Florida 33566	© Copyright 2019 Palm Harbor Homes, Inc. All Rights Reserved
State:	Serial #: —		
3rd Party Hilborn,Werner,Carter and Associates(HWC) 1627 South Myrtle Ave Clearwater, FL. 33756	Customer: —		
	Dealer: —		

LISTING AGENCY APPROVAL
These prints comply with the Florida Manufactured Building Act of 1979 Construction Code and adhere to the following criteria:

CONST. TYPE VB
OCCUPANCY SFD
ALLOWABLE NO. OF FLOORS 1
WIND VELOCITY 150 (ULTG SEC)
FIRE RATING OF EXT. WALLS 0
PLAN NO. 1R-2102-1375F
ALLOW. FLOOR LOAD 40
APPROVAL DATE 4/22/19
MANUFACTURER PHH
HIGH VELOCITY HURRICANE ZONE NO

Shear Wall Table Notes:

Numbers shown in table column headings ((1) through (9) for one story, (1) through (11) for 2 story), correspond with note numbers.Refer to floor plan(s) for shear wall locations corresponding to alpha-numeric designation in 1st column of table.

1. Design Shear Values are based on the WFCM – 2001 Edition. All values for DSV and fastening is based on S-P-F lumber, unless otherwise specified.
2. Indicates whether sheathing is required one side only with interior covering, or required both sides of wall with interior covering over sheathing.
3. Nails may either be 6d Common (0.113x1 5/8) or 8d Common (0.131x 1 3/4). 8d nails yield better DSV's.
4. Edge / Field spacing. Edge fastening is into each framing member. When sheathing overlap onto rim joist is not used and 2/12 shearwall sheathing fastening is required, it also requires double top and bottom plates.
5. Number and minimum length of each shear wall section within each end wall.
6. indicates number of framing members required each end of each shear section. Minimum framing as indicated in table header.
7. indicates the number of rows of nails spaced @ 2" o.c., through the sheathing overlap onto the floor framing.
8. Alternatively, screws may be used at x/y, where x=number of rows and y=number of screws per foot for each row. Connection is through the bottom plate into floor joists with minimum 2-1/2" penetration. When double plates are required per Note (6), make sure to increase fastener length.
9. Top plate to rafter or ceiling joist is the spacing (inches o/c) with #8 screws or 0.131" diameter nails with 1-3/8" minimum penetration into receiving member.
10. <u>For 2 story only:</u> The 2x , factory installed bearing plate at each end at the very top of the lower story must be fastened to the ceiling framing with #10 x 3" screws spaced (inches on center) per table. Factory installed. Note: column 10 is not displayed for one story or cape applications.
11. <u>For 2 stories, on-site connection</u> is required between the upper and lower story using #10x3" screws (toed), installed through the upper storyend joist into the lower story, factory installed 2x bearing plate of the lower story, spaced per column 11.

Special Note: With hinged roof, the truss above the end wall (shear wall) must be sheathed after erection. In the case of a porch, the truss above the end wall at the main roof to porch transition, must be sheathed for a minimum of 48" length, anywhwere along the truss and fastened to truss chords with 8d common nails spaced per column "Porch Truss". Sheathing in spaces between the chords greater than 24" must be stiffened with a 2x3 vertical member, fastened to sheathing with the same nails at 2" o.c.

See Shearwall tables on other pages in this package.

Shear Wall General Notes:

1. LSAB1 and 2 represent longitudinal shear sections for unit with A and B end shearwalls.LSCD1 and 2 represent longitudinal shear sections for unit with C and D end shearwalls, respectively. The table notes above (except (6)) apply.
2. <u>How to read Roof Diaphragm Connection Table:</u> Check "Dbl Fast'g" column. If "N/A" is displayed, no special fastening required in End Zone.Use the required spacing column for at least the distance tabulated in the first non-zero column, then the spacing in that column is required to the distance in the next column to the right and so forth or the Req'd Spacing can be used throughout.If double fastening is required for any of the shear wall conditions (A,B,C or D), the fastening must be maintained to the first truss at or beyond the distance shown in the first column (A) of the single fastener spacing table, for the respective shear wall, or, when that column is zero, to the first non-zero distance of any of the other columns (B to E) to a distance of any of the other tabulated fastening requirements (Columns B to E).
3. When Roof Diaphragm construction requires special fastening within the end zone(s), the fastening displayed is doubled, ie: 2 fasteners @ each location Example: Dbl @ 6/6 means 2 fasteners each at 6" o.c. field and 2 each at 6" o.c. perimeter. The fastening is required within distance from the roof end as displayed (ft) or next truss. 'N/A' means the end zone fastening is the same as normal.
4. If the wind speed determined for the seismic zone is higher than the speed from the wind map for the home site, it need only be applied to construction requirements for shearwall, diaphragms and shearwall anchorage / foundation designs. It must also be applied to connections for wall to floor and wall to roof. All other construction is to be according to the actual wind speed for the site.

4/22/19

Palm Harbor Homes

Plant Number 69

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Plant Information

Palm Harbor Homes, Inc.
605 S. Frontage Road
Plant City, Florida 33566

Drawing Information
Model Number: 340TL30683AMO
Sales Name: PELICAN BAY
Series: TIMBERLAND
Drawn by: GRS/BB
Date: 03/03/17
Serial #: --

Dealer: --
--

Customer:
--

3rd Party
Hilborn,Werner,Carter and Associates(HWC)
1627 South Myrtle Ave
Clearwater, FL. 33756

State:
LISTING AGENCY APPROVAL
These prints comply with the Florida Manufactured Building Act of 1979 Construction Code and adhere to the following criteria:

CONST. TYPE	VB
OCCUPANCY	RSD
ALLOWABLE NO. OF FLOORS	1
WIND VELOCITY	160 ULT.(3 SEC)
FIRE RATING OF EXT. WALLS	0
PLAN NO.	1R-2102-1375F
ALLOW. FLOOR LOAD	40
APPROVAL DATE	4.22.19
MANUFACTURER	PHH
HIGH VELOCITY HURRICANE ZONE	NO

MJR 281 HWC

Sheet Title: SHEARWALL NOTES
Sheet Number: S0.01
Sheet 1 of --
Plan #: 1R-2102-1375F

150 MPH Vult NON ELEV

Shear Wall Requirements

150 mph Design Wind Speed is Ultimate (Vult) per ASCE 7-10
See Figure 26.5-1A (Occupancy Category II) for Site Location
Equivalent Seismic: N/A mph — Roof Pitch: 6/12 — Max Elev:48" — 24" O.C.-TYP
Side Wall HT:108 — Exposure:D — MRH:17.25 FT. — Framing:2x6

A & B

Shear Wall	Min. PLF (1)	Sheathed Sides # (2)	Nails (3)	Spacing (4)	SW Sections (5)	End Stud # (6)	Rows of Nails in Overlap # (7)	# of Straps at SW End Stud (7a)	#10 Screws/Ft Each Row (8)	Top Plate to Rafter (9)	Porch Truss (10)
A1	532	1	8d	4/6	78	2	4	N/A	or 1/7	3	N/A
B1	239	1	8d	6/6	174	1	1	N/A	or 1/2	6 5/8	N/A
LSAB1	338	1	8d	6/6	91	N/A	2	N/A	or 1/2	4 5/8	N/A
C1	346	1	8d	6/6	120	1	2	N/A	or 1/3	4 1/2	N/A
D1	506	1	8d	4/6	82	2	3	N/A	or 1/5	3 1/8	N/A
LSCD1	488	1	8d	4/6	63	N/A	4	N/A	or 1/4	3 1/4	N/A

Truss Spacing: 24" — ASCE 7-10
Minimum Roof Diaphragm Connections using: 8d BOX

Diaphragm Connections			Spacing w/Single Fasteners				
			D1(ft.)	D2(ft.)	D3(ft.)	D4(ft.)	D5(ft.)
@ Shear Wall	Dbl Fast'g	Req'd Spacing	3/3	3/6	3/12	4/12	6/12
A	Dbl @6/6	see Dbl col	3	9	12	15	19
B	Dbl @6/6	see Dbl col	3	9	12	15	19
C	Dbl @6/6	see Dbl.col	3	9	12	15	19
D	Dbl @6/6	see Dbl.col	3	9	12	15	19

△ COLUMNS RANCH STORY

ASCE7-10
EXPOSURE: D
ROOF LOAD: 20 PSF
DESIGN WIND SPEED: 116 MPH — ULTIMATE WIND SPEED: 150 MPH

NO.	26 GA STRAP	TYPE	STUD NUM	STUD LENGTH	STUD SIZE	BLK	FLOOR WIDTH	SPAN	LOAD
1	3	1	5	105	2x3	N	180	17'-3"	2911
2	3	1	5	105	2x3	N	180	17'-3"	2911
3	3	1	5	105	2x3	N	180	17'-3"	2911
4	3	1	5	105	2x3	N	180	17'-3"	2911

4/17/19

Plant Number: 69

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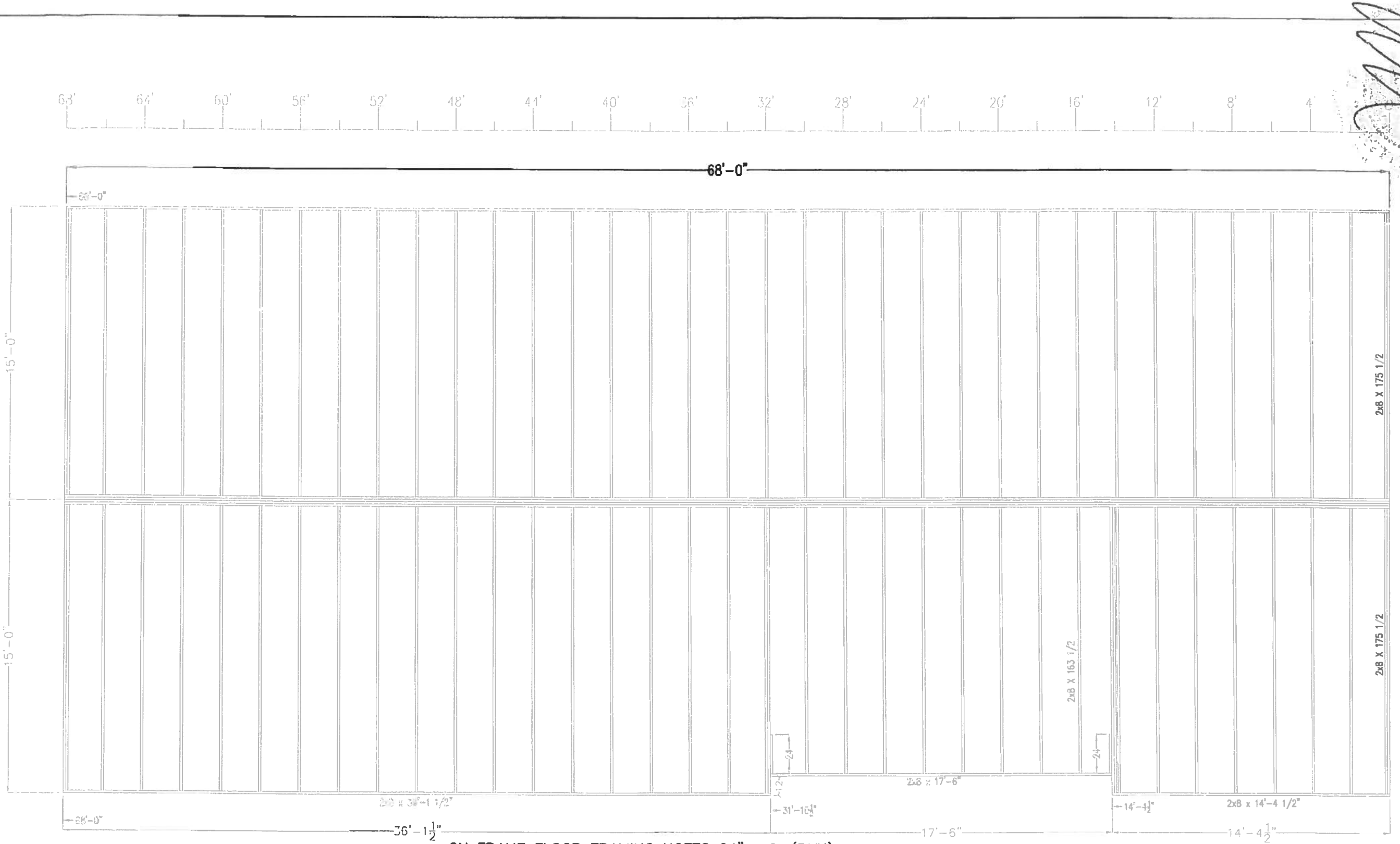
Plant City, Florida 33566

Drawing Information
Model Number: 340TL30683AMO
Sales Name: PELICAN BAY
Series: TIMBERLAND
Drawn by: GRS/BB — Date: 03/03/17
Serial #: --

Dealer: –
Customer: –
3rd Party: Hilborn,Werner,Carter and Associates(HWC) 1627 South Myrtle Ave Clearwater, FL. 33756
State:
LISTING AGENCY APPROVAL
These prints comply with the Florida Manufactured Building Act of 1979 Construction Code and adhere to the following criteria:
CONST. TYPE VB
OCCUPANCY SFD
ALLOWABLE NO. OF FLOORS 1
WIND VELOCITY 150 ULT(3 SEC)
FIRE RATING OF EXT. WALLS 0
PLAN NO. 1R-2102-1375F
ALLOW. FLOOR LOAD 40
APPROVAL DATE 4-17-19
MANUFACTURER PHH
HIGH VELOCITY HURRICANE ZONE NO
MUR 28 HWC

Sheet Title: COLUMN & SHEARWALL TABLES
Sheet Number: S0.02
Sheet 1 of –
Plan #: 1R-2102-1375F



ON - FRAME FLOOR FRAMING

ON FRAME FLOOR FRAMING NOTES 24" O.C. (DYN):

1. INTERIOR JOISTS ARE 2X8 #2 SPF OR BETTER, 24" O.C. MAX.
2. INTERIOR (MATING LINE) PERIMETER RAILS ARE DOUBLE 2X8 #2 SPF, MIN.
3. SIDEWALL RAILS SINGLE 2X8 #2 S-P-F MIN.
4. PORCH JOISTS ARE 2X6 #2 SYP PT, 16" MIN.
5. SEE FMM G SECTION FOR FRAMING CONNECTION REQUIREMENTS.

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Drawing Information
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Drawn by: GRS/BB Date: 03/03/17
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1627 South Myrtle Ave
Clearwater, FL. 33756

State:
LISTING AGENCY APPROVAL
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CONST. TYPE	VB
OCCUPANCY	SFD
ALLOWABLE NO. OF FLOORS	1
WIND VELOCITY	150 ULT(3 SEC)
FIRE RATING OF EXT. WALLS	0
PLAN NO.	1R-2102-1375F
ALLOW. FLOOR LOAD	40
APPROVAL DATE	4/22/19
MANUFACTURER	PHH
HIGH VELOCITY HURRICANE ZONE	NO

MUR 261 HWC

Sheet Title: FLOOR FRAMING ON 24 OC
Sheet Number: S1.01.03
Sheet 1 of --
Plan #: 1R-2102-1375F

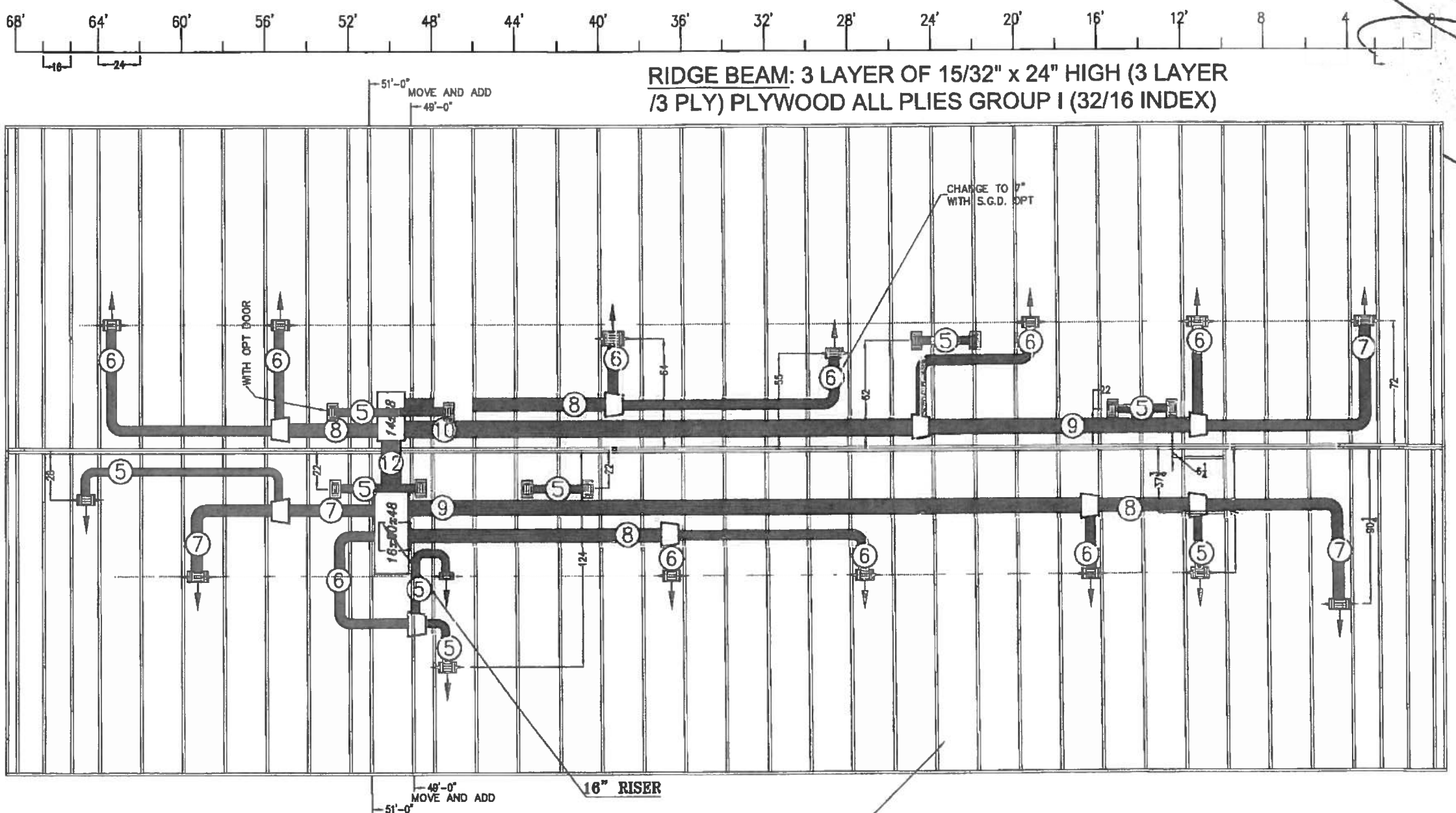
(DYN) GENERAL NOTES:

1. FOR TRUSS REINFORCEMENT AT GABLE ENDS SEE PA150-2.10 OF THE FL MODULAR MANUAL
2. FOR TRUSS REINFORCEMENT AT PORCHES AND ENDZONES, SEE PAGE PA150-3 OF THE FACTORY'S MODLAR MANUAL.

Minimum Return Air Path:

3. The minimum return air path is determined by the total cfm's delivered through supply duct into the space closed off from the main return. Return duct and grill capacities must be equal to or greater than the cfm's delivered into the space.The following are acceptable methods of return air provisions and may be used in combination.Each method is described in detail below.

a) In-ceiling return air grills
b) Return air grills in walls
c) Openings above door and/or walls without grills.



Cantilever trusses for optional inset sidewall: Install Simpson H7 uplift strap (or equal) to inset sidewall studs and toe nail trusses to top plate per fastening schedule. (alternate connector in place of H7 is HGA10) Use Truss Addendum # A240501 in recess area only.

(DYN) Duct Notes:

1. HVAC duct systems, when installed, consist of either insulated fiberglass duct board, or insulated flexible duct or a combination of both, minimum R-6 in the roof attic.
2. Ducts shall be installed in accordance with the manufacturer's installation instruction and shall bear a listing and label indicating compliance with UL 181 and UL 181 A (rigid) or UL 181 B (flexible).
3. Joints and seams are to be made substantially airtight by means of tapes mastics or other systems as approved in the manufacturers' installation instructions(e.g. plastic tie straps).
4. Duct installed in floors supported as required by manufacturer. Ducts installed in attic are supported by the truss framing members an need no additional supports. Register boxes are foamed to ceiling gypsum and need no additional securement.
5. All duct work installed outside the conditioned envelope shall have a minimum R-8 and be listed for use as exterior duct.
6. Return air balance (from room to room) may be achieved through the installation of 'jump ducts' (in ceiling return air pathways) , undercut doors, and/or return air grills.
7. All gable endwalls shall be braced in accordance with Palm Harbor Home's Florida Modular Construction Manual.
8. All exhaust fans/vents shall be ducted to the exterior of the structure.
7. Roof ventilation may be accomplished through the use of either ventilated eaves, roof vents or ridge ventilation. Either or all of these methods may also be used separately or in combination to provide the minimum required roof ventilation of 1/150 OR 1/300.
8. All air supply registers are adjustable, except where otherwise specified on the plans (in ceiling 'jump ducts' for return air purposes are NOT adjustable and remain in the always open position).
9. All Return Air Grills to be 21' x 26' unless noted otherwise on the plans.
10. Roof trusses installed at 16' o.c. maximum spacing are allowed in buildings designed to comply with a maximum 180 Vult mph wind load. Windloads upto and including 150 Vult mph are 24' O.C.

4/17/19

Plant Number: 69

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Palm Harbor Homes, Inc.
605 S. Frontage Road
Plant City, Florida 33566

Drawing Information
Model Number: 340TL30683AMO
Sales Name: PELICAN BAY
Series: TIMBERLAND
Drawn by: GRS/BB
Date: 03/03/17
Serial #: --

Dealer: --
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Customer:
--

3rd Party
Hilborn,Werner,Carter and Associates(HWC)
1627 South Myrtle Ave
Clearwater, FL. 33756

State:
LISTING AGENCY APPROVAL
These prints comply with the Florida Manufactured Building Act of 1979 Construction Code and adhere to the following criteria:

CONST. TYPE	VB
OCCUPANCY	SFD
ALLOWABLE NO. OF FLOORS	1
WIND VELOCITY	150 ULTIG SEC)
FIRE RATING OF EXT. WALLS	0
PLAN NO.	1R-2102-1375F
ALLOW. FLOOR LOAD	40
APPROVAL DATE	4-22-19
MANUFACTURER	PHH
HIGH VELOCITY HURRICANE ZONE	NO

MUR 281 HWC

Sheet Title: ROOF & DUCT PLAN 24
Sheet Number: S1.04.1
Sheet 1 of --
Plan #: 1R-2102-1375F

PRODUCT APPROVAL SPECIFICATION SHEET

As required by Florida Statute 533.8452 and Florida Admistrative Code 61 G20-3.006, this document provides the information and the product approval number(s) on the building components listed below

Manufacturer: Palm Harbor Homes of Florida - Plant City
Plant Number: 09

ACTIVE	CATEGORY	MANUFACTURER	IDPHH	PRODUCT DESCRIPTIONS	DP+	DP-	IMPACT	HVHZ	FPA
Active	Swinging Ext. Door	Dunbarton	0	SIX PANEL FIBERGLASS IS OR OS	65	70	No	No	15362.4
Active	Swinging Ext. Door	Dunbarton	0	DOUBLE SIDE LITE	56	56	No	No	15362.6
Active	Swinging Ext. Door	Dunbarton	0	DOUBLE 15 LITE PATIO DOOR	45	50	No	No	15362.8
Active	Swinging Ext. Door	Therma-Tru	0	INSWINGING/OUT SWINGING 6 PANEL FIBERGLASS IMPACT (CLASIC CRAFT, SMOOTH STAR & FIBERCLASSIC)	100	100	Yes	Yes	14986.2
Active	Windows - SH	Kinro	0	9750 SERIES IMPACT RESISTANT	66	66	Yes	No	993.3
Active	Windows - SH	Kinro	0	9750 SERIES NON-IMPACT	50	66	No	No	993.2
Active	Swinging Ext. Door	Schinco	0	9000 SERIES IMPACT VINYL	100	100	Yes	CHECK	8153.1
Active	Sliding Glass door Ext	Atrium	0	72X80 332/2352 IMPACT MODEL SGD	60	60	Yes	No	11646.3
Active	Sliding Glass door Ext	Atrium	0	72X80 352/2352 MODEL SGD	60	60	No	No	11646.4
Active	Siding	StyleCrest	0	HARBOR CREST SIDING D3	NA	175	No	No	12231.6
Active	Siding	Hardie	0	4Xy VERTICAL 5/16 PANELS	NA	***	No	No	13223.1
Active	Siding	Hardie	0	6.25 EXP. X 12'	NA	130.2	Yes	Yes	13192.1
Active	Underlayment	Tamco	0	ASPHALT UNDERLAYMENT	NA	NA	No	No	12328.6
Active	Wood Connector	Simpson	0	LSTA STRAPS	NA	NA	No	CHECK	10852.4
Active	Wood Connector	Simpson	0	MSTA STRAPS	NA	NA	No	CHECK	10852.7
Active	Wood Connector	Simpson	0	MSTA STRAPS	NA	NA	No	CHECK	10852.7
Active	Engineered Lumber	Universal Forest Products	0	OPEN JOIST 2000	NA	NA	No	NA	
Active	Windows - SH	Custom Window Systems	0	8100 SERIES VINYL SINGLE HUNG (IMPACT) 36X62 MAX SIZE	67.5	75	Yes	Yes	5823.1
Active	Windows - SH	Custom Window Systems	0	8100 SERIES "HEAVY DUTY" IMPACT 48X72 MAX SIZE	100	100	Yes	Yes	5823.4
Active	Siding	StyleCrest	0	INSULSIDE D6 (FOUR SEASONS)	79.9/163	79.9/163	NA	No	12231.6
Active	Metal Roofing	Advanced Aluminum	0	METAL ROOF		125.3	NA	Yes	1763.1
Active	Swinging Ext. Door	Therma-Tru	0	6 PANEL EXTERIOR DOOR SWINGING SMOOTHSTAR	67	67	Yes	No	5891.2
Active	Sliding Glass door Ext	Custom Window Systems	0	SGD 8920/8950 0XXXX 6', 8' OR 9' UP TO 192"	67.5	67.5	Yes	Yes	10272.1
Active	Ext. Double French	Custom Window Systems	0	8750 SERIES SD FRENCH (PATIO) DOUBLE FRENCH DOOR XX	70	70	Yes	Yes	14850.1
Active	Metal Roofing	SEMCO	0	STANDING SEAM 5/16" RIM 16" PANEL GALV OR STEEL	-	106.75	NA	Yes	11175
Active	Swinging Ext. Door	PLASPRO	0	INSWINGING SWINGING 6 PANEL FIBERGLASS IMPACT	65	70	Yes	No	15213.1
Active	Swinging Ext. Door	PLASPRO	0	OUTSWINGING SWINGING 6 PANEL FIBERGLASS IMPACT	64	64	Yes	No	15213.1
Active	Shingles	IKO	0	IKO MARATHON 25 SHINGLES	NA	NA	NA	Yes	7006.4
Active	Shingles	GAF	0	GAF COBRA RIDGEVENT	NA	NA	NA	Yes	6267-R14

4/17/19

Plant Number: 69

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605 S. Frontage Road
Plant City, Florida 33566

Drawing Information
Model Number: 340TL30683AMO
Sales Name: PELICAN BAY
Series: TIMBERLAND
Drawn by: GRS/BB
Date: 03/03/17
Serial #: ---

Dealer: --
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Customer:
--
3rd Party
Hilborn,Werner,Carter and Associates(HWC)
1627 South Myrtle Ave
Clearwater, FL. 33756

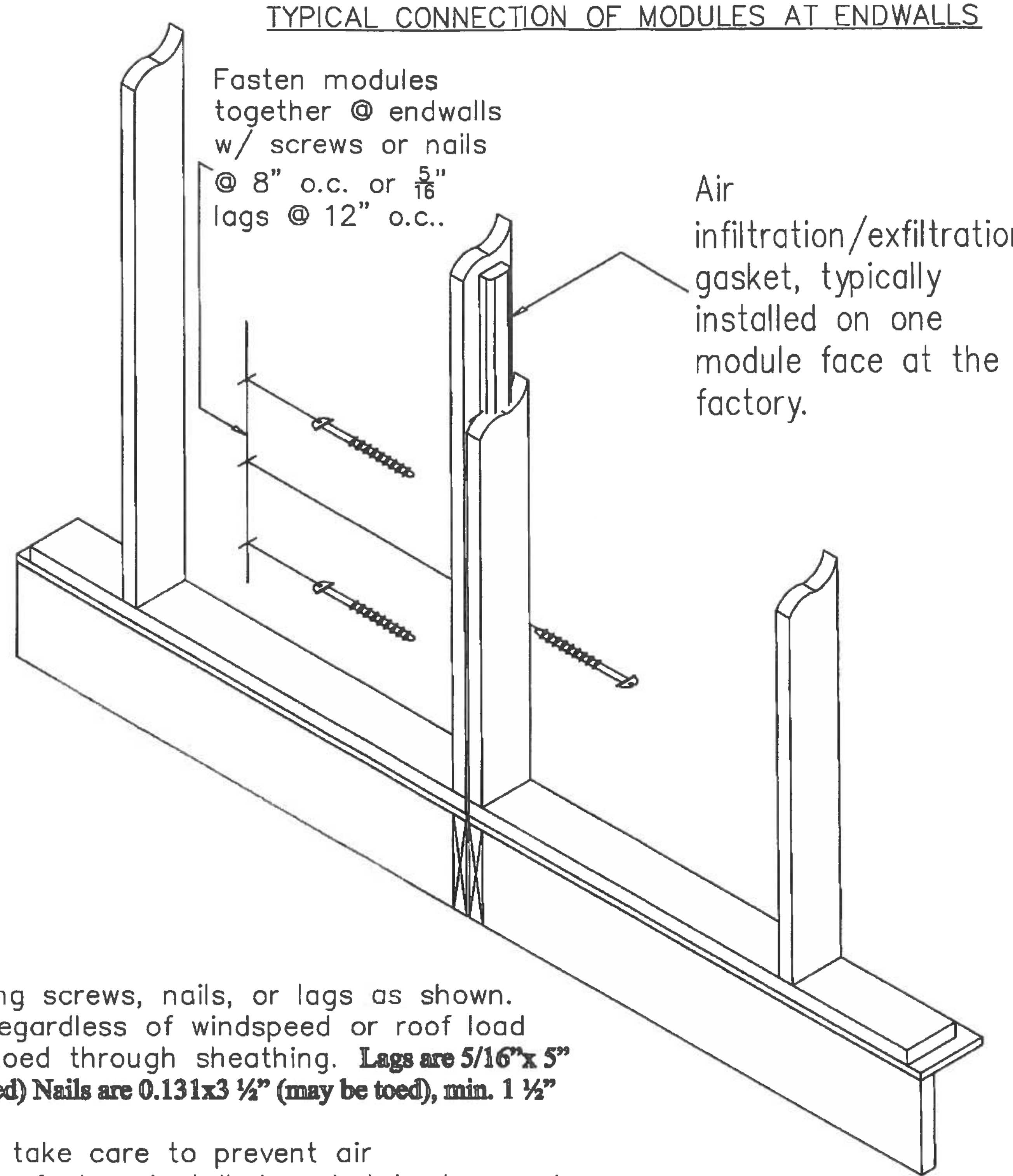
State:
LISTING AGENCY APPROVAL
These prints comply with the Florida Manufactured Building Act of 1979 Construction Code and adhere to the following criteria:

CONST. TYPE	VB
OCCUPANCY	SFD
ALLOWABLE NO. OF FLOORS	1
WIND VELOCITY	150 ULTIMATE
FIRE RATING OF EXT. WALLS	0
PLAN NO.	1R-2102-1375F
ALLOW. FLOOR LOAD	40
APPROVAL DATE	4-22-19
MANUFACTURER	PHH
HIGH VELOCITY HURRICANE ZONE	NO

MIR 281 HWC

Sheet Title: FLORIDA PRODUCT APPROVALS
Sheet Number: ---
Sheet 1 of ---
Plan #: 1R-2102-1375F

TYPICAL CONNECTION OF MODULES AT ENDWALLS



Notes:

1. Endwalls are connected using screws, nails, or lags as shown. This connection is typical regardless of windspeed or roof load design. Fasteners may be toed through sheathing. **Lags are 5/16"x 5" long. Screws are #8x4" (May be toed) Nails are 0.131x3 ½" (may be toed), min. 1 ½" penetration into receiving member.**
2. installation contractor shall take care to prevent air infiltration/exfiltration. If the factory installed gasket is damaged or segments missing, it shall repaired, replaced, or the use of other methods of envelope closure shall be used, i.e., expanding foam, caulking, durable tape or sheathing, or a combination of these methods.
3. Endwall/mating wall configurations on some models prevent the interconnection of the modules on some plans. on those plans, the endwalls are designed to be "stand alone" walls and no

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4/17/19

Sheet Title: IM-ENDWALL
Sheet Number: IM.02
Sheet 1 of –
Plan #: 1R-2102-1375F

Dealer: –
Customer: –

Drawing Information
Model Number: 340TL30683AMO
Sales Name: PELICAN BAY
Series: TIMBERLAND
Drawn by: GRS/BB Date: 03/03/17
Serial #: --

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Plant Information: Palm Harbor Homes, Inc. 605 S. Frontage Road Plant City, Florida 33566

Plan Number: 69
Palm Harbor Homes

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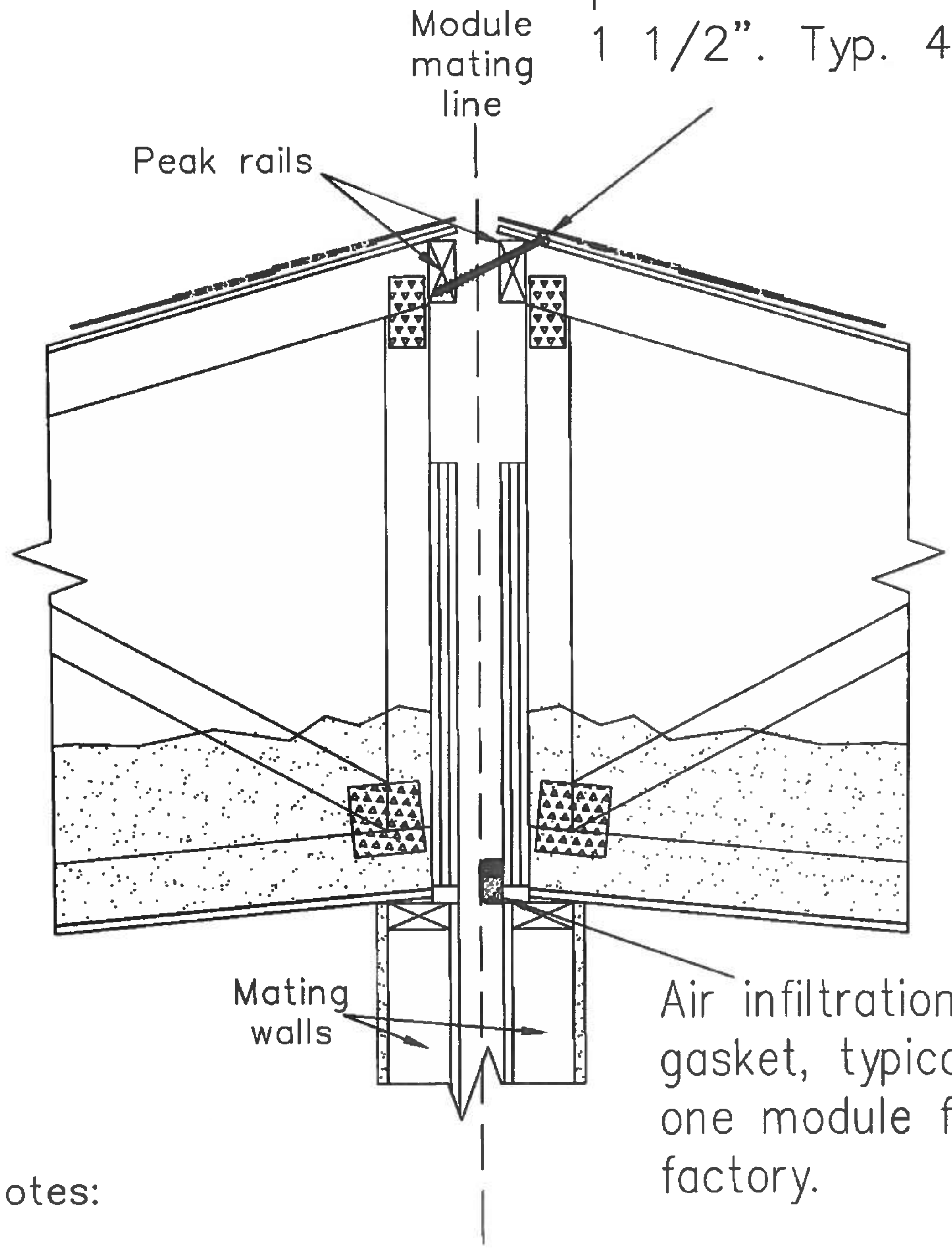
Fixed Roof Module Interconnection

Fasten mating line peak rails together with #10xL" screws (L= min. penetration into receiving member of 1 1/2". Typ. $4\frac{1}{2}$" screw)



Air infiltration/exfiltration gasket, typically installed on one module face at the factory.

Module Interconnection @ Roof Peak			
#10 Screws inches O.C.			
MPH Vult Exp. D	Sheathing securement to Rail (factory)	Site Screw Spacing Rail to Rail End Zone (3')	Site Screw Spacing Rail to Rail Int. Zone
150	2 3/4	5 3/4	9
160	2 3/8	5	7 3/4
170	2 1/8	4 3/8	7
180	1 7/8	3 7/8	6 1/4
208	1 3/8	2 7/8	4 5/8

Notes:

1. installation contractor shall take care to prevent air infiltration/exfiltration. If the factory installed gasket is damaged or segments missing, it shall repaired, replaced, or the use of other methods of envelope closure shall be used, i.e., expanding foam, caulking, durable tape or sheathing, or a combination of these methods.

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HILGER WERNER CARTER & ASSOC.

4/17/19

Sheet Title:	IM-FIXED PEAK
Sheet Number	IM.03
Sheet	1 of –
Plan #:	1R-2102-1375F

Dealer: –
Customer: –

Drawing Information
Model Number: 340TL30683AMO
Sales Name: PELICAN BAY
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Drawn by: GRS/BB Date: 03/03/17
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Palm Harbor Homes

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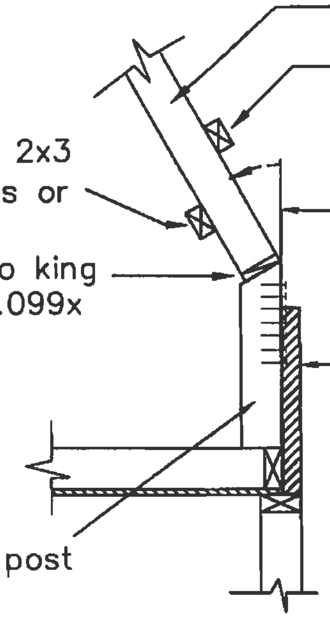
Hinged Roof Module connections

Typ. hinged truss king post

Alternate lateral brace location. Min. 2x3 to king post with (3)–0.099x 2½" nails or (2) 0.131x3" nails

Alternate lateral brace location. Min. 2x3 to king post with (3)–0.099x 2½" nails or (2) 0.131x3" nails

1x3 min. fixed to king post with (2)–0.099x 2½" nails.



1½" x 26ga x L strap, fastened to fixed king post at factory. Site fasten to hinged king post with (8)–0.099x1¼" nails.

Typical ridge beam

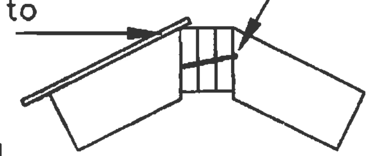
Fixed king post

Min. 1x rail to hinged truss chord factory installed with (2) 0.099x2½" nails. 1x need not be continuous, but should connect several king posts together for ease of site installation and provide full bearing of king post at every truss. May be ripped from larger lumber sections.

Hinged Roof peak Module connections

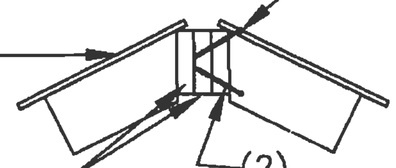
OPTION 1:
A 16–24" piece of roof sheathing is left off on one side of the roof to provide access to blocks for securement. Fasten blocks to ridge rail with min. #10x4¼" screws, each block as shown w/3 screws per block.

Roof sheathing secured to framing at ridge with 0.113x1¾" nails into receiving member and space 1¾" o.c. in 3' end zone and 2" o.c. in interior zone.



OPTION 2:
If sheathing was installed at the factory, toe screw from unit without the blocks into the unit with blocks through (1) roof decking & rail into blocks (2) or from inside attic, through rails into blocks with min. #10x 4 ½" screws with 1" min., 3 screws per block.

Roof sheathing secured to framing at ridge with 0.113x1¾" nails into receiving member and spaced per chart.



(1)

(2)

Factory installed blocks

Once fastening is complete, install underlayment, shingles, and vented ridge material (not shown)

Factory to reference FMM RF–1.2 for construction details

APPROVED APR 22 2019

4/17/19

Palm Harbor Homes

Plant Number: 69

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P.E. William H. "Rob" Roberts, P.E. 607 South Alexander Street Suite #201 Plant City, Florida 33563 Lic. #42712

Plant Information: Palm Harbor Homes, Inc. 605 S. Frontage Road Plant City, Florida 33566

Drawing Information
Model Number: 340TL30683AMO
Sales Name: PELICAN BAY
Series: TIMBERLAND
Drawn by: GRS/BB Date: 03/03/17
Serial #: —

Dealer: –
Customer: –

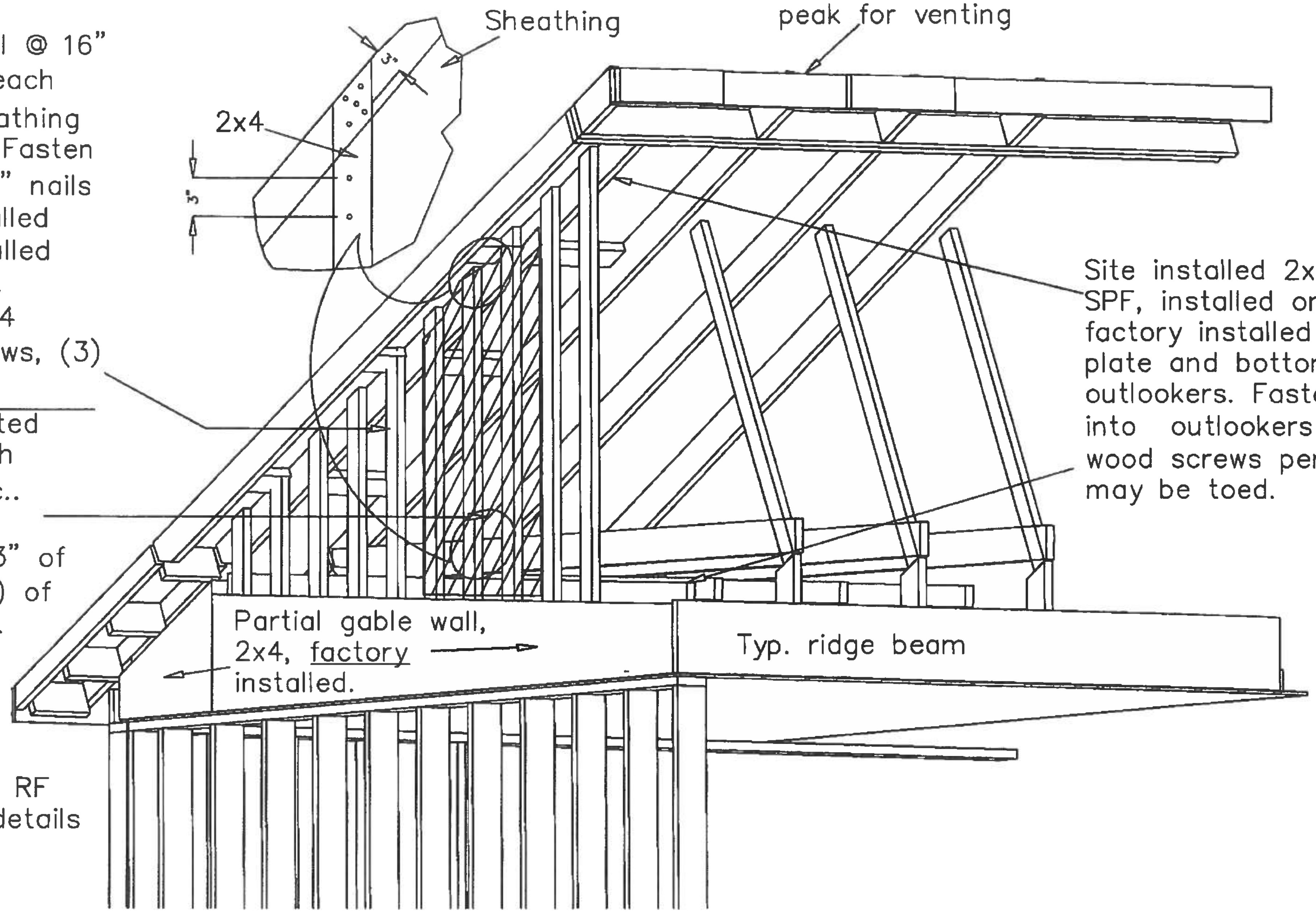
Sheet Title: IM-HINGED PEAK KING
Sheet Number: IM.04
Sheet 1 of –
Plan #: 1R-2102-1375F

Minimum 2x verticals <u>site</u> installed, flatwise. See table for max. lengths and fastening to top and bottom rails

<u>Alternate</u> site closeup:
Min 2x4 #3 SPF knee wall @ 16" o.c. w/(3) .131x3" nails each connection. $\frac{7}{16}$" rated sheathing factory or field installed. Fasten to framing with .113 x $1\frac{3}{4}$" nails 3" o.c.. Fasten site-installed knee wall to factory installed knee wall with #8x3" min. screws 6" o.c. and to 2x4 outlookers with#8x3" screws, (3) each outlooker.

Site installed min. $\frac{3}{8}$" rated sheathing to verticals with 0.099x $1\frac{1}{2}$" nails @ 3" o.c.. Additionally, (5) nails are required within the first 3" of each end (top & bottom) of each vertical. See detail.

GABLE CLOSE UP



Site installed 2x3 #3 or better SPF, installed on edge to factory installed knee wall top plate and bottom of 2x4 outlookers. Fasten through 2x3 into outlookers with #10x4" wood screws per chart. Screws may be toed.

Factory to reference FMM RF section for construction details

APPROVED · HILBORN WERNER CARTER & ASSOC. · APR 2 2 2019

4/17/19

Sheet Title:	IM-HINGED GABLE 1
Sheet Number	IM.05
Sheet	1 of –
Plan #:	1R-2102-1375F

Customer: –
Dealer: –

Drawing Information
Model Number: 340TL30683AMO
Sales Name: PELICAN BAY
Series: TIMBERLAND
Drawn by: GRS/BB Date: 03/03/17
Serial #: ––

P.E.
William H. "Rob" Roberts, P.E.
607 South Alexander Street
Suite #201
Plant City, Florida 33563
Lic. # 42712

Plant Information
Palm Harbor Homes, Inc.
605 S. Frontage Road
Plant City, Florida 33566

Plant Number 69
Palm Harbor Homes

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FORM R405-2017

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name:	340TL30683AM AH REGION 1A	Builder Name:	
Street:		Permit Office:	
City, State, Zip:	, FL ,	Permit Number:	
Owner:		Jurisdiction:	
Design Location:	FL, MARATHON_AIRPORT	County:	MONROE (Florida Climate Zone 1)

1. New construction or existing	New (From Plans)
2. Single family or multiple family	Single-family
3. Number of units, if multiple family	1
4. Number of Bedrooms	3
5. Is this a worst case?	Yes
6. Conditioned floor area above grade (ft²)	2023
Conditioned floor area below grade (ft²)	0

7. Windows(317.0 sqft.)	Description	Area
a. U-Factor:	Dbl, U=0.30	317.00 ft²
SHGC:	SHGC=0.29	
b. U-Factor:	N/A	ft²
SHGC:		
c. U-Factor:	N/A	ft²
SHGC:		
d. U-Factor:	N/A	ft²
SHGC:		
Area Weighted Average Overhang Depth:		0.500 ft.
Area Weighted Average SHGC:		0.290

8. Floor Types (2023.0 sqft.)	Insulation	Area
a. Raised Floor	R=11.0	2023.00 ft²
b. N/A	R=	ft²
c. N/A	R=	ft²

9. Wall Types (1764.0 sqft.)	Insulation	Area
a. Frame - Wood, Exterior	R=11.0	1764.00 ft²
b. N/A	R=	ft²
c. N/A	R=	ft²
d. N/A	R=	ft²

10. Ceiling Types (2023.0 sqft.)	Insulation	Area
a. Under Attic (Vented)	R=33.0	2023.00 ft²
b. N/A	R=	ft²
c. N/A	R=	ft²

11. Ducts	R	ft²
a. Sup: Attic, Ret: Main, AH: Main	6	120

12. Cooling systems	kBtu/hr	Efficiency
a. Central Unit	36.0	SEER:14.00

13. Heating systems	kBtu/hr	Efficiency
a. Electric Heat Pump	36.3	HSPF:8.20

14. Hot water systems	
a. Electric	Cap: 50 gallons
	EF: 0.910
b. Conservation features	
None	
15. Credits	None

Glass/Floor Area: 0.157

Total Proposed Modified Loads: 96.21

Total Baseline Loads: 100.45

PASS

I hereby certify that the plans and specifications covered by this calculation are in compliance with the Florida Energy Code.

PREPARED BY: Bruce Bussell

DATE: 10/25/18 RATER ID=608

I hereby certify that this building, as designed, is in compliance with the Florida Energy Code.

OWNER/AGENT: _____

DATE: _____

Review of the plans and specifications covered by this calculation indicates compliance with the Florida Energy Code. Before construction is completed this building will be inspected for compliance with Section 553.908 Florida Statutes.

GREAT SEAL OF THE STATE OF FLORIDA * IN GOD WE TRUST *

BUILDING OFFICIAL: _____

DATE: _____

- **Compliance requires certification by the air handler unit manufacturer that the air handler enclosure qualifies as certified factory-sealed in accordance with R403.3.2.1.**
- **Compliance requires an Air Barrier and Insulation Inspection Checklist in accordance with R402.4.1.1 and this project requires an envelope leakage test report with envelope leakage no greater than 3.00 ACH50 (R402.4.1.2).**

SEE MANUFACTURER'S CONTRACT WITH FLORIDA

Approved By SCOTT S. FRANCIS

Date: 4/17/19

FORM R405-2017

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name:	340TL30683AM AH REGION 2A	Builder Name:	
Street:		Permit Office:	
City, State, Zip:	, FL ,	Permit Number:	
Owner:		Jurisdiction:	
Design Location:	FL, Lakeland	County:	POLK (Florida Climate Zone 2)

1. New construction or existing	New (From Plans)
2. Single family or multiple family	Single-family
3. Number of units, if multiple family	1
4. Number of Bedrooms	3
5. Is this a worst case?	Yes
6. Conditioned floor area above grade (ft²)	2023
Conditioned floor area below grade (ft²)	0

7. Windows(317.0 sqft.)	Description	Area
a. U-Factor:	Dbl, U=0.30	317.00 ft²
SHGC:	SHGC=0.29	
b. U-Factor:	N/A	ft²
SHGC:		
c. U-Factor:	N/A	ft²
SHGC:		
d. U-Factor:	N/A	ft²
SHGC:		
Area Weighted Average Overhang Depth:		0.500 ft.
Area Weighted Average SHGC:		0.290

8. Floor Types (2023.0 sqft.)	Insulation	Area
a. Raised Floor	R=11.0	2023.00 ft²
b. N/A	R=	ft²
c. N/A	R=	ft²

9. Wall Types (1764.0 sqft.)	Insulation	Area
a. Frame - Wood, Exterior	R=11.0	1764.00 ft²
b. N/A	R=	ft²
c. N/A	R=	ft²
d. N/A	R=	ft²

10. Ceiling Types (2023.0 sqft.)	Insulation	Area
a. Under Attic (Vented)	R=33.0	2023.00 ft²
b. N/A	R=	ft²
c. N/A	R=	ft²

11. Ducts	R	ft²
a. Sup: Attic, Ret: Main, AH: Main	6	120

12. Cooling systems	kBtu/hr	Efficiency
a. Central Unit	36.0	SEER:14.00

13. Heating systems	kBtu/hr	Efficiency
a. Electric Heat Pump	36.9	HSPF:8.20

14. Hot water systems	
a. Electric	Cap: 50 gallons
	EF: 0.910
b. Conservation features	
None	
15. Credits	None

Glass/Floor Area: 0.157

Total Proposed Modified Loads: 70.42

Total Baseline Loads: 72.98

PASS

I hereby certify that the plans and specifications covered by this calculation are in compliance with the Florida Energy Code.

PREPARED BY: Bruce Bussell

DATE: 10-25-18 RATER ID=608

I hereby certify that this building, as designed, is in compliance with the Florida Energy Code.

OWNER/AGENT: _____

DATE: _____

Review of the plans and specifications covered by this calculation indicates compliance with the Florida Energy Code. Before construction is completed this building will be inspected for compliance with Section 553.908 Florida Statutes.

GREAT SEAL OF THE STATE OF FLORIDA * IN GOD WE TRUST *

BUILDING OFFICIAL: _____

DATE: _____

- **Compliance requires certification by the air handler unit manufacturer that the air handler enclosure qualifies as certified factory-sealed in accordance with R403.3.2.1.**
- **Compliance requires an Air Barrier and Insulation Inspection Checklist in accordance with R402 4.1.1 and this project requires an envelope leakage test report with envelope leakage no greater than 3.00 ACH50 (R402.4.1.2).**

SEE MANUFACTURER'S CONTRACT WITH FLORIDA

DEO Item No. Approved By SCOTT S. FRANCIS

4/17/19

FORM R405-2017

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name: 340TL30683AM PAC REGION 2A	Builder Name:
Street:	Permit Office:
City, State, Zip: , FL ,	Permit Number:
Owner:	Jurisdiction:
Design Location: FL, Lakeland	County: POLK (Florida Climate Zone 2)

1. New construction or existing	New (From Plans)
2. Single family or multiple family	Single-family
3. Number of units, if multiple family	1
4. Number of Bedrooms	3
5. Is this a worst case?	Yes
6. Conditioned floor area above grade (ft²)	2023
Conditioned floor area below grade (ft²)	0

7. Windows(317.0 sqft.)	Description	Area
a. U-Factor:	Dbl, U=0.30	317.00 ft²
SHGC:	SHGC=0.29	
b. U-Factor:	N/A	ft²
SHGC:		
c. U-Factor:	N/A	ft²
SHGC:		
d. U-Factor:	N/A	ft²
SHGC:		

Area Weighted Average Overhang Depth:	0.500 ft.
Area Weighted Average SHGC:	0.290

8. Floor Types (2023.0 sqft.)	Insulation	Area
a. Raised Floor	R=11.0	2023.00 ft²
b. N/A	R=	ft²
c. N/A	R=	ft²

9. Wall Types (1764.0 sqft.)	Insulation	Area
a. Frame - Wood, Exterior	R=11.0	1764.00 ft²
b. N/A	R=	ft²
c. N/A	R=	ft²
d. N/A	R=	ft²

10. Ceiling Types (2023.0 sqft.)	Insulation	Area
a. Under Attic (Vented)	R=33.0	2023.00 ft²
b. N/A	R=	ft²
c. N/A	R=	ft²

11. Ducts	R	ft²
a. Sup: Attic, Ret: Exterior, AH: Exterior	6	120

12. Cooling systems	kBtu/hr	Efficiency
a. Central Unit	36.2	SEER:14.00

13. Heating systems	kBtu/hr	Efficiency
a. Electric Heat Pump	50.0	HSPF:8.20

14. Hot water systems	
a. Electric	Cap: 50 gallons
	EF: 0.910
b. Conservation features	
None	
15. Credits	None

Glass/Floor Area: 0.157	Total Proposed Modified Loads: 69.97	**PASS**
	Total Baseline Loads: 72.98	

I hereby certify that the plans and specifications covered by this calculation are in compliance with the Florida Energy Code.

PREPARED BY: Bruce Russell

DATE: 10.25.18 RATER ID=608

I hereby certify that this building, as designed, is in compliance with the Florida Energy Code.

OWNER/AGENT: _____

DATE: _____

Review of the plans and specifications covered by this calculation indicates compliance with the Florida Energy Code. Before construction is completed this building will be inspected for compliance with Section 553.908 Florida Statutes.

GREAT SEAL OF THE STATE OF FLORIDA * IN GOD WE TRUST *

BUILDING OFFICIAL: _____

DATE: _____

- **Compliance requires certification by the air handler unit manufacturer that the air handler enclosure qualifies as certified factory-sealed in accordance with R403.3.2.1.**
- **Compliance requires an Air Barrier and Insulation Inspection Checklist in accordance with R402.4.1.1 and this project requires an envelope leakage test report with envelope leakage no greater than 3.00 ACH50 (R402.4.1.2).**

Date _____ Item No. _____

Approved By SCOTT S. FRANCIS

SEE MANUFACTURER'S CONTRACT WITH FLORIDA

Building Plans Examiner

4/17/19

Job	Truss	Truss Type	Qty	Ply	Palm Harbor 216 Plant 6/9 Plant City, Fl Ref. #2163030
90642	C556007	CATHEDRAL	1	1	

Universal Forest Products Inc., Grand Rapids, MI 49525, Weston Gorby 8.130 e Dec 12 2017 MiTek Industries, Inc. Mon Jan 29 08:05:49 2018 Page 1 of 2

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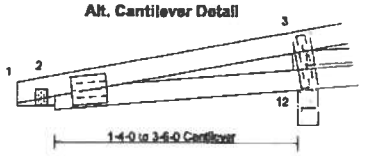
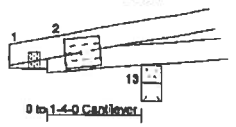
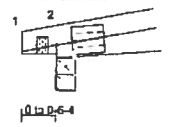
Alt. Cantilever Detail



Alt. Cantilever Detail



Alt. Overhang Detail



REACTIONS.
(lb/size) 12=701/0-3-8 (min. 0-1-8), 8=335/Mechanical
Max Horz 12=274(LC 5)
Max Uplift 12=-1028(LC 5), 8=-427(LC 7)

REACTIONS.
(lb/size) 8=444/Mechanical, 13=593/0-3-6 (min. 0-1-8)
Max Horz 13=266(LC 5)
Max Uplift 8=-557(LC 7), 13=-781(LC 5)

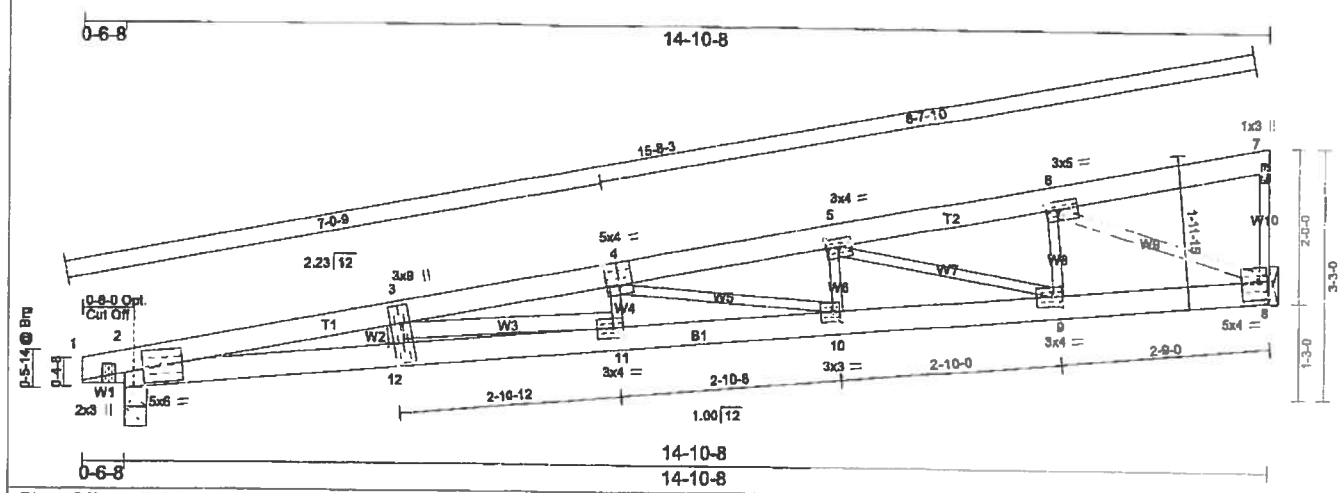


Plate Offsets (X,Y)-- [4:0-2-0,Edge], [5:0-0-5,0-1-4], [6:0-0-3,0-1-4], [8:Edge,0-2-12], [9:0-1-4,0-1-8], [10:0-1-0,0-1-8], [11:0-1-8,0-1-8], [12:0-3-5,0-0-12], [12:0-3-5,3-5-3]

SPACING-	2-0-0	**SPACING-**	1-4-0	**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d
LOADING	(psf)	**LOADING**	(psf)	Plate Grip DOL	1.25	TC	0.72	Vert(LL)	0.37	11-12	>482	240
TCLL	20.0	TCLL	30.0	Lumber DOL	1.25	BC	0.46	Vert(CT)	0.32	11-12	>547	180
TCDL	7.0	TCDL	10.5	Rep Stress Incr	YES	WB	0.54	Horz(CT)	-0.05	8	n/a	n/a
BCLL	0.0 *	BCLL	0.0 *	Code FBC2017/TPI2014		Matrix-R						
BCDL	7.0	BCDL	10.5									

PLATES	**GRIP**
MT20	244/190

Weight: 57 lb
FT = 0%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.1
WEBS 2x2 SP No.2 *Except*
W2,W3: 2x3 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-9-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 3-4-3 oc bracing.

Designed by Kevin Freeman

REACTIONS. (lb/size) 2=537/0-3-8 (min. 0-1-8), 8=498/Mechanical
Max Horz 2=264(LC 7)
Max Uplift 2=-651(LC 5), 8=-621(LC 7)

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-4/0, 2-3=-2136/2884, 3-4=-2106/2899, 4-5=-1541/2116, 5-6=-827/1115, 6-7=-21/5, 7-8=-62/119
BOT CHORD 2-12=-3065/2053, 11-12=-3064/2057, 10-11=-3062/2073, 9-10=-2248/1530, 8-9=-1216/830
WEBS 3-12=-6/93, 4-11=-12/108, 5-10=-231/213, 6-9=-385/317, 6-8=-890/1307, 5-9=-754/1105, 4-10=-571/849, 3-11=-0/17

1/29/2018

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*

Universal Forest Products, Inc. 2801 EAST BELTLINE RD, NE
PHONE (616)-364-6161 FAX (616)-365-0060 GRAND RAPIDS, MI 49525

Truss shall not be cut or modified without approval of the truss design engineer.
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 is 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:\support\MitekSupp\templates\ufp.tpe

Job	Truss	Truss Type	Qty	Ply	Palm Harbor 216
90642	C556007	CATHEDRAL	1	1	Plant 6/9 Plant City, Fl
					Ref. #2163030

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NOTES-

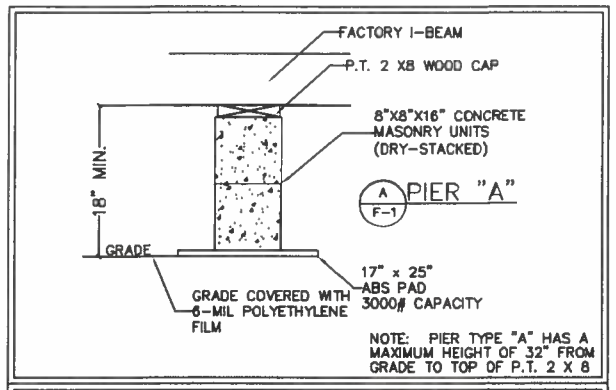
1) This truss has been checked for uniform roof live load only, except as noted.
2) Wind: ASCE 7-10; Vult=154mph (3-second gust) Vasd=119mph @24in o.c.; TCDL=2.8psf; BCDL=2.8psf; (Alt. 180mph @16in o.c.; TCDL=4.2psf; BCDL=4.2psf); h=35ft; Cat. II; Exp D; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever 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 651 lb uplift at joint 2 and 621 lb uplift at joint 8.
6) Fixity of member 8 - 7 has been changed.
7) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2.
8) Based on: C556001
9) Revision:: Updated FBC code, reduced overhang

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.

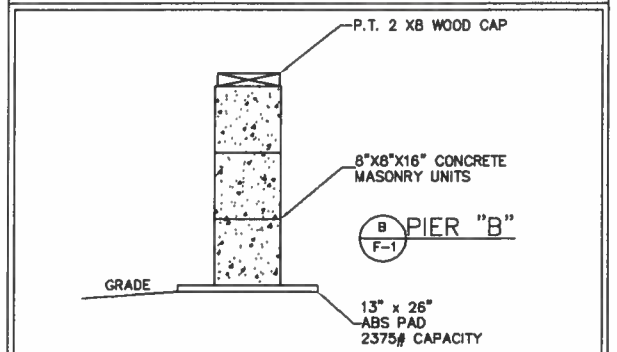
⚠ WARNING - ***Verify design parameters and READ NOTES***

Truss shall not be cut or modified without approval of the truss design engineer.
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 is 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:\support\MiTekSupp\templates\ufp.tpe

Universal Forest Products, Inc. 2801 EAST BELTLINE RD, NE
PHONE (616)-364-6161 FAX (616)-365-0060 GRAND RAPIDS, MI 49525



NOTE: PIER TYPE "A" HAS A MAXIMUM HEIGHT OF 32" FROM GRADE TO TOP OF P.T. 2 X 8

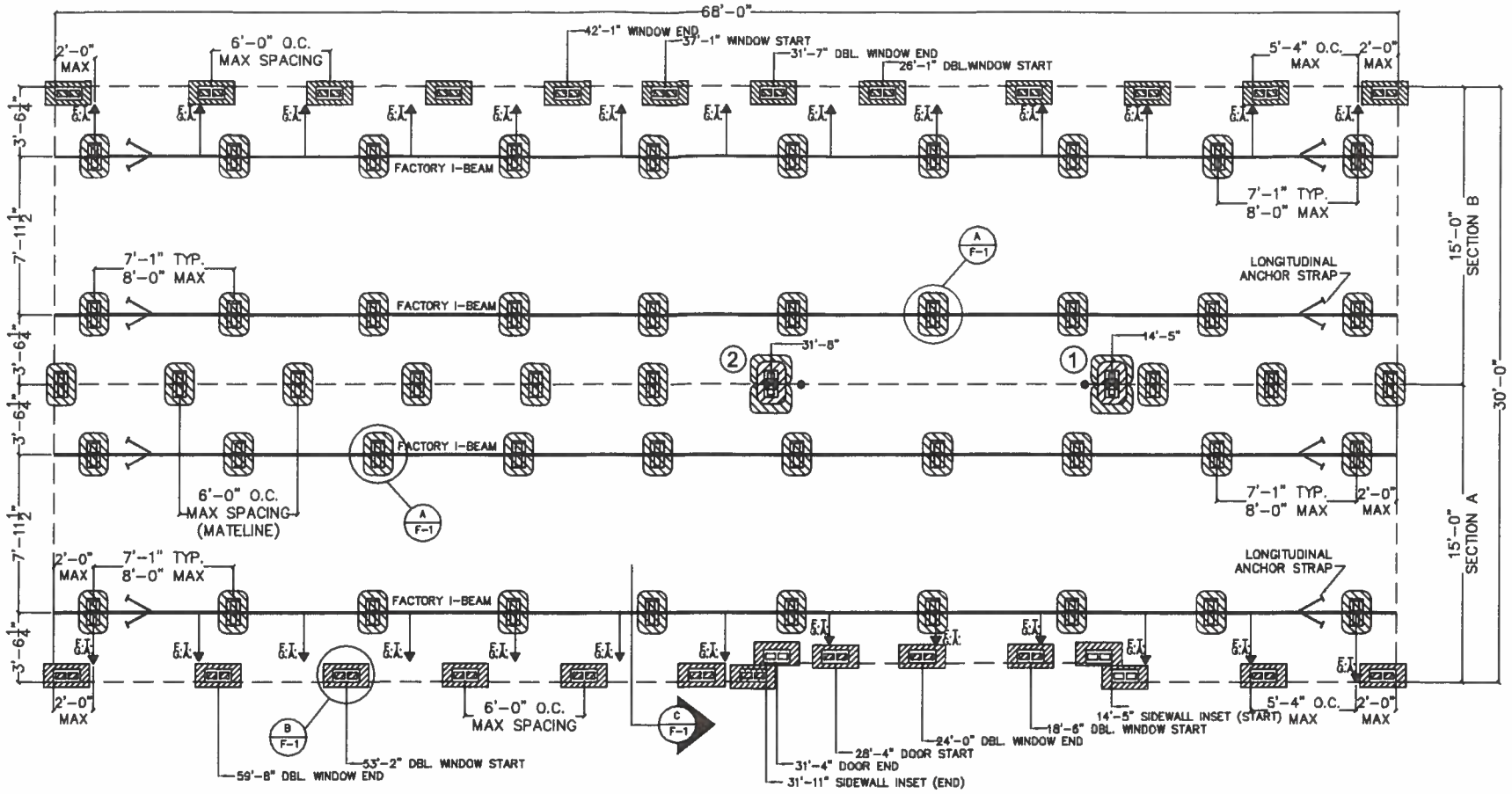


NOTE: PIER TYPE "B" HAS A MAXIMUM HEIGHT OF 48" FROM GRADE TO TOP OF P.T. 2 X 8

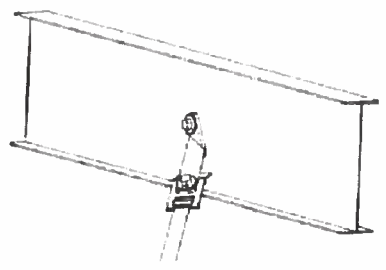
STRUCTURAL LOAD LIMITATIONS:

CODE EDITION: 2017 FLORIDA BUILDING CODE (6TH EDITION) & ASCE 7-10

1. ULTIMATE DESIGN WIND SPEED: 130 mph WIND SPEED
2. NOMINAL DESIGN WIND SPEED: 101 mph WIND SPEED
3. WIND EXPOSURE CATEGORY: "C"
4. IMPORTANCE FACTOR: 1.0
5. DESIGN ROOF LIVE LOAD: 20 PSF
6. DESIGN FLOOR LIVE LOAD: 40 PSF
7. MIN. ASSUMED SOIL BEARING CAPACITY: 1500 PSF
8. OCCUPANCY CLASSIFICATION: R3
9. CONSTRUCTION TYPE: VB
10. THIS BUILDING IS NOT DESIGNED FOR PLACEMENT IN A HIGH VELOCITY HURRICANE ZONE AS DEFINED BY THE FBC.
11. THIS BUILDING IS NOT DESIGNED TO BE SUBMERGED OR SUBJECTED TO WAVE ACTION WHEN LOCATED IN A FLOOD PRONE OR ZONE AREA. THE BOTTOM OF THE STRUCTURAL I-BEAM MUST BE LOCATED ABOVE THE BUILDING SITE FLOOD PLANE LEVEL FOR THIS BUILDING TO BE LOCATED IN A FLOOD PRONE OR ZONE AREA OR THE THE GRADE AT THE BUILDING SITE MUST BE ABOVE THE FLOOD PLANE LEVEL.



LONGITUDINAL ANCHOR STRAP TO GROUND ANCHOR



COLUMN LOADS

① = 5822 LBS.

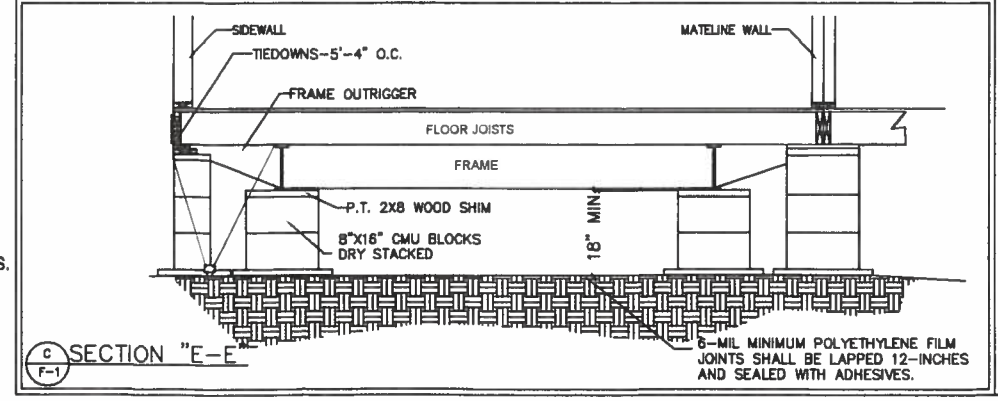
② = 5882 LBS.

LEGEND

- 17.5"x25.5" ABS PAD = 3000 LBS. CAPACITY
- 13"x26" ABS PAD = 2375 LBS. CAPACITY
- (3) 17.5"x25.5" ABS PAD = 6000 LBS. CAPACITY (TOP PAD IS LAID IN THE OPPOSITE DIRECTION TO THE BOTTOM PADS)

SYMBOLS

- F.T. G.A. -FRAME TIE-DOWN FASTENED TO GROUND ANCHOR
- -COLUMN ANCHOR STRAP FASTENED TO GROUND ANCHOR
- -LONGITUDINAL ANCHOR STRAP LOCATIONS TO GROUND ANCHOR

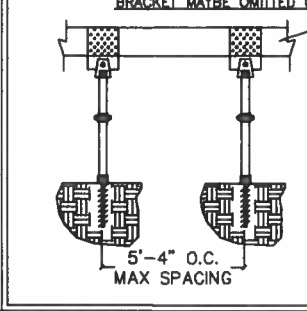


C F-1 SECTION "E-E"

GROUND ANCHOR INSTALLATION

AVTRX BRACKET OR EQUAL FASTENED TO PERIMETER RAIL W/ #10 WOOD SCREWS MIN. 1" PENETRATION WITH MIN. 14 SCREWS OR 50% SCREWHOLES FILLED, EVENLY SPACED.

BRACKET MAYBE OMITTED ONSITE IF IT IS INSTALLED BY THE MANUFACTURER



ALL TIE-DOWN STRAPS, ETC., SHALL BE TYPE 1 FINISH B, GRADE 1, STEEL STRAPPING 109,000 MINIMUM YIELD STRENGTH, .035" MINIMUM THICKNESS (PLUS OR MINUS .002 IN. - 0.05MM) FINISH B - HOT-DIPPED GALVANIZED ZINC COATING (ASTM STANDARD 123-89A): 8 OUNCES PER SQUARE FOOT, PER SURFACE, 4750 POUNDS MINIMUM BREAK STRENGTH, MARKED EVERY 12 TO 15 INCHES (MANUFACTURER'S NAME AND ASTM SPEC. D3953-91), 1 1/4" WIDTH.

GROUND ANCHORS SHOULD BE CERTIFIED BY A PROFESSIONAL ARCHITECT, ENGINEER AND/OR NATIONALLY RECOGNIZED TESTING LABORATORY. THE MINIMUM ULTIMATE LOAD CAPACITY SHOULD BE AT LEAST EQUAL TO 4725 LBS.

FOUNDATION NOTES:

1. BLOCKING SPACING BASED ON 20PSF LIVE LOAD ON ROOF AND 1500 PSF SOIL BEARING CAPACITY.
2. CONCRETE BLOCKS ARE ONLY RATED AT 8000 POUNDS, 8000 POUND PIERS OR HIGHER MUST BE DOUBLE BLOCKED.
3. ALL SIDEWALL ANCHORS ARE SPACED PER PLAN AND FOUR FOOT GROUND ANCHOR MAY BE USED.
4. WOOD SHIMS MAY BE INSTALLED WHEN NECESSARY BETWEEN THE I-BEAM AND THE TOP OF THE PIER. SHIMS SHALL BE FREE OF KNOTS, SPLITS, AND SIMILAR IMPERFECTIONS. SHIMS SHALL BE OF P.T. LUMBER, CEDAR, OR ABS AND BEARING AT ALL CONTACT POINTS SHALL NOT BE LESS THAN 2/3 OF THE BEARING PRIOR TO ADDING THE SHIMS.
5. ALL TIE DOWN ANCHORS SHALL HAVE A MINIMUM 4,725 LB. ULTIMATE CAPACITY AND SHALL BE INSTALLED PER THE MANUFACTURER'S SPECIFICATIONS.
6. THE STEEL FRAME OF HOME IS NOT FOR USE OF RELOCATION OF HOME AFTER SETUP, AND IS INTENDED FOR USE AS A PERMANENT FOUNDATION.
7. ALL PIERS SHALL BE CONSTRUCTED OF 8" X 8" X 16" CONCRETE MASONRY UNITS CONFORMING TO ASTM C90.
8. INSTALL BLOCK PIER ON EACH SIDE OF ALL EXTERIOR DOOR OPENINGS.
9. I-BEAM SUPPORT PIERS MAY BE INSTALLED LATERALLY (90 DEGREES FROM THE ORIENTATION SHOWN ON THE FOUNDATION PLAN). MUST BE LOCATED DIRECTLY BELOW THE I-BEAM CENTERLINE.
10. ALL MASONRY PIERS MAY BE INSTALLED IN A DRY STACK SUBJECT TO LOCAL JURISDICTION

Senyb Engineering Services
318. S. Scenic Hwy, Ste. 100
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THESE STANDARDS AND PLANS MEET THE 2017 F.B.C. - RESIDENTIAL (6TH EDITION)

V_{ULT} = ULTIMATE DESIGN WIND SPEED = 130 MPH (RISK CATERGORY II BUILDING)
V_{ASD} = NOMINAL DESIGN WIND SPEED = 101 MPH (RISK CATERGORY II BUILDING)
(TABLE 1609.3.1)

MARK V. RICHTER , P.E. # 56196
318 S. SCENIC HWY, STE. 100
LAKE WALES, FL 33853
OFFICE: 863-589-5980

Palm Harbor Homes

SES SENYB ENGINEERING SERVICES An Engineering and Design Company

DRAWING INFORMATION	
NAME:	M.B.J.
DATE:	04-10-2019
SCALE:	NOT PRINTED TO SCALE

CUSTOMER: JEREMY TILLMAN
ADDRESS: 151 SW BATTLE COURT, FT. WHITE, FL 32038
MODEL # 340TL30683AM: 30'-0" X 68-0"- (ON-FRAME MODULAR)

FOUNDATION PLAN AND DETAILS PROVIDED BY
SENYB ENGINEERING SERVICES
LAKE WALES, FLORIDA 33853

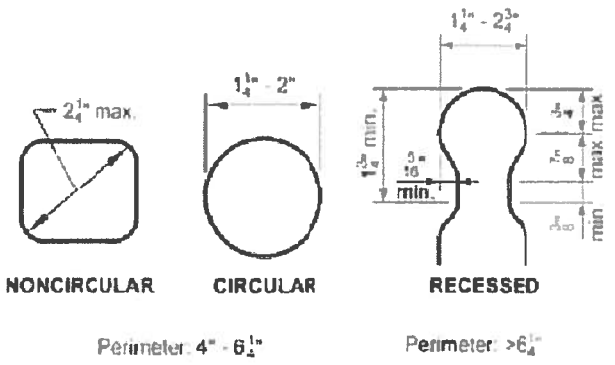
DESIGNED FOR 20 PSF ROOF LIVE LOAD AND 1500 PSF SOIL BEARING CAPACITY

F-1

SHEET 1 OF 1

MARK VINCENT RICHTER LICENSE No. 56196 STATE OF FLORIDA PROFESSIONAL ENGINEER 04-12-2019

HANDRAIL GRIP SIZE



*HANDRAIL HEIGHT, MEASURED VERTICALLY FROM THE SLOPED PLANE ADJOINING THE TREAD NOSING, OR FINISH SURFACE OF RAMP SLOPE, SHALL BE NOT LESS THAN 34 INCHES AND NOT MORE THAN 38 INCHES.

*HANDRAIL SHALL BE PROVIDED ON AT LEAST ONE SIDE OF EACH CONTINUOUS RUN OF TREADS OF FLIGHT WITH FOUR OR MORE RISERS.

*HANDRAIL ASSEMBLIES AND GUARDS SHALL BE DESIGNED TO RESIST A LOAD OF 50 PLF APPLIED IN ANY DIRECTION AT THE TOP AND TO TRANSFER THIS LOAD THROUGH THE SUPPORTS TO THE STRUCTURE.

*HANDRAILS FOR STAIRWAYS SHALL BE CONTINUOUS FOR THE FULL LENGTH OF THE FLIGHT, FROM A POINT DIRECTLY ABOVE THE TOP RISER OF THE FLIGHT TO A POINT DIRECTLY ABOVE THE LOWEST RISER OF THE FLIGHT. HANDRAIL ENDS SHALL BE RETURNED OR SHALL TERMINATE IN NEWEL POSTS OR SAFETY TERMINALS. HANDRAILS ADJACENT TO A WALL SHALL HAVE A SPACE OF NOT LESS THAN 1-1/2 INCHES BETWEEN THE WALL AND THE HANDRAILS.

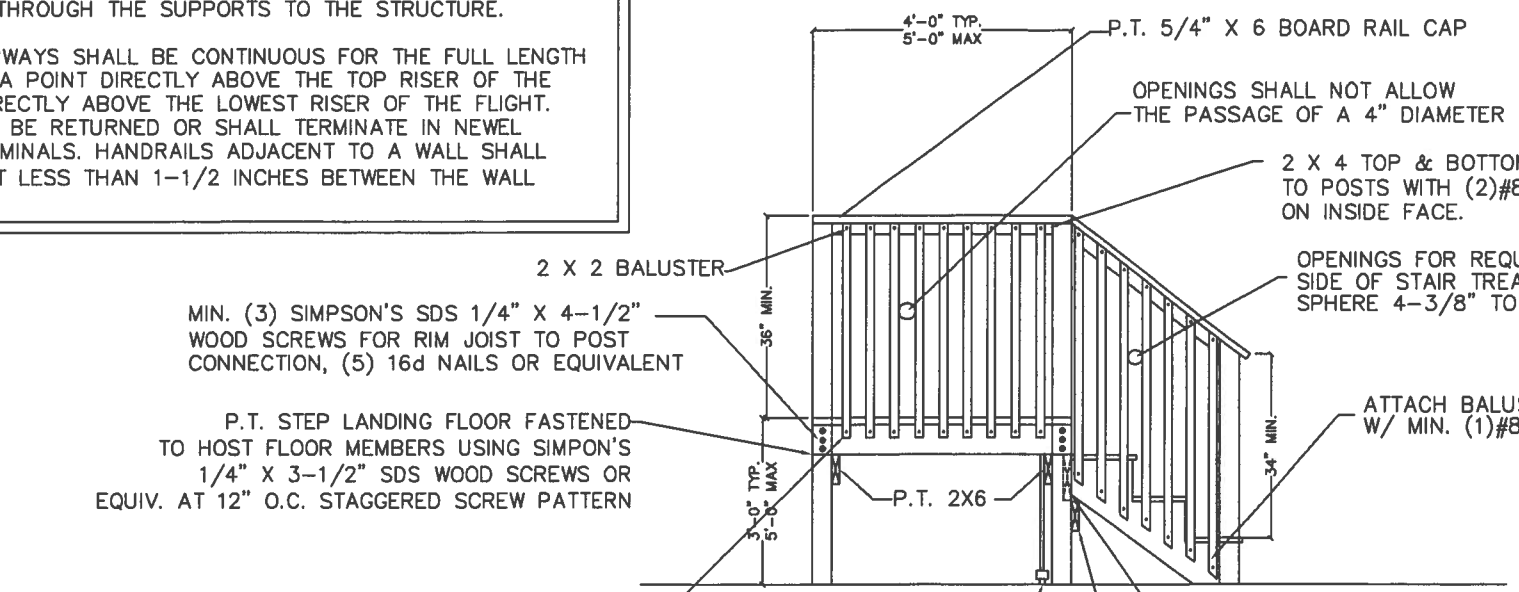
STAIR TREAD AND RISERS

THE MAXIMUM RISER HEIGHT SHALL BE 7-3/4 INCHES. THE RISER SHALL BE MEASURED VERTICALLY BETWEEN LEADING EDGES OF THE ADJACENT TREADS. THE GREATEST RISER HEIGHT WITHIN ANY FLIGHT OF STAIRS SHALL NOT EXCEED THE SMALLEST BY MORE THAN 3/8 INCH. OPEN RISERS ARE PERMITTED PROVIDED THAT THE OPENINGS LOCATED MORE THAN 30 INCHES, AS MEASURED VERTICALLY, TO THE FLOOR OR GRADE DO NOT PERMIT THE PASSAGE OF A 4-INCH DIAMETER SPHERE.

THE MINIMUM TREAD DEPTH SHALL BE 10 INCHES. THE TREAD DEPTH SHALL BE MEASURED HORIZONTALLY BETWEEN THE VERTICAL PLANES OF THE FOREMOST PROJECTION OF ADJACENT TREADS AND AT A RIGHT ANGLE TO THE TREAD'S LEADING EDGE. THE GREATEST TREAD DEPTH WITHIN ANY FLIGHT OF STAIRS SHALL NOT EXCEED THE SMALLEST BY MORE THAN 3/8 INCH.

THE RADIUS OF CURVATURE AT THE LEADING EDGE OF THE TREAD SHALL BE NO GREATER THAN 9/16 INCH. A NOSING NOT LESS THAN 3/4 INCH BUT NOT MORE THAN 1-1/4 INCHES SHALL BE PROVIDED ON STAIRWAYS WITH SOLID RISERS. A NOSING IS NOT REQUIRED WHERE THE TREAD DEPTH IS A MINIMUM OF 11 INCHES.

THE GUARDS MAYBE WOOD, ALUMINUM, VINYL, OR EQUIVALENT.



3'-0" LANDING HEIGHT = 5 STEPS (MIN.)
4'-0" LANDING HEIGHT = 7 STEPS (MIN.)
5'-0" LANDING HEIGHT = 8 STEPS (MIN.)

STAIR AND LANDING ILLUMINATION REQUIRED

CONCRETE OPTION:
IF STEPS ARE INSTALLED ON EXISTING CONCRETE, THE GROUND ANCHORS AND TIEDOWN STRAP CAN BE OMITTED.

THE P.T. 4 X 4 POSTS SHALL BE ANCHORED TO THE EXISTING CONCRETE SLAB USING SIMPSON'S L-BRACKET OR EQUIVALENT.

04-12-2019

VINCENT RICHTER * LICENSE * No. 56196 * STATE OF FLORIDA * PROFESSIONAL ENGINEER *

These plans and specifications comply with Section 301 2 1 of the 2017 FBC-Residential (6th Edition)

V_{ULT} = ULTIMATE DESIGN WIND SPEED = 130 MPH

V_{ASD} = NOMINAL DESIGN WIND SPEED = 101 MPH (TABLE 1609 3 1)

(3 second gusts)

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Fax 1-866-865-2044

NOTE:
CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL DIMENSIONS AND CONDITIONS PRIOR TO CONSTRUCTION.

ALL STAIR COMPONENTS TO BE PRESSURE TREATED LUMBER

ALL FASTENERS IN CONTACT WITH P.T. LUMBER TO BE HOT DIP GALVANIZED OR STAINLESS STEEL

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1SIES
An Engineering and Design Company

Palm Harbor Homes

Project Title	Site Construction		
Drawn By	Date 04-10-2019	Checked	
M B J			
Revised	Customer JEREMY TILLMAN		
Client PALM HARBOR VILLAGE			
Address 151 SW BATTLE COURT FT. WHITE, FL 32038			
Drawing Scale N T S			

Drawing Number
S1
STAIR CONSTRUCTION

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Lake Wales FL 33853

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