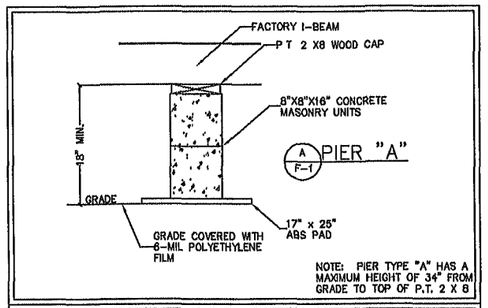
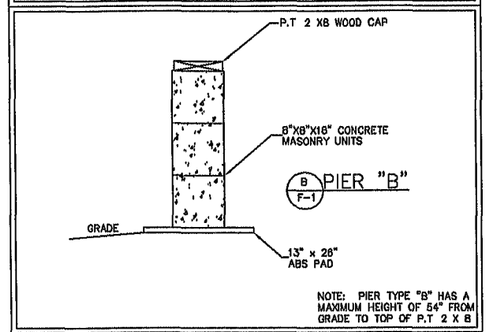


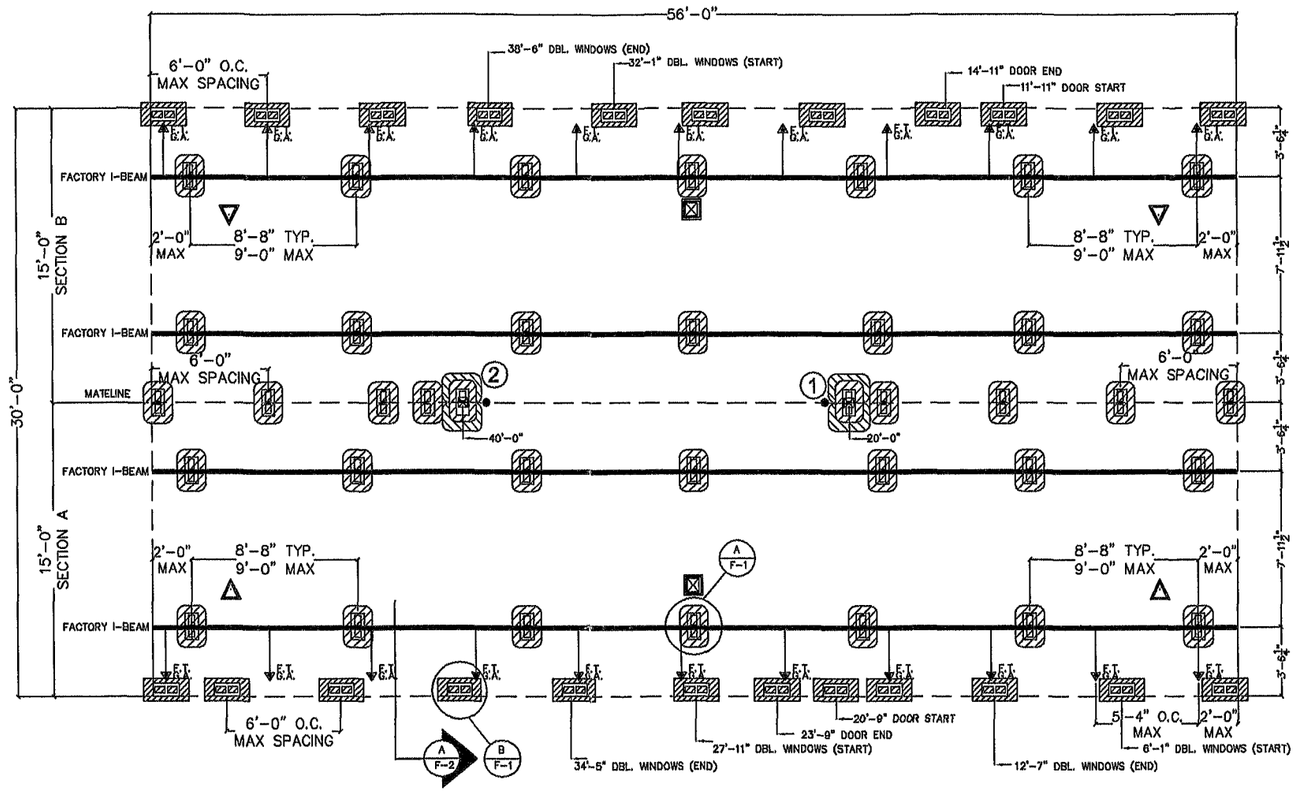


STRUCTURAL LOAD LIMITATIONS:

CODE EDITION 2010 FLORIDA BUILDING CODE & 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 'B'

4 IMPORTANCE FACTOR 1.0
6. INTERNAL PRESSURES:
+25.9 -29.4 INTERIOR
+25.9 -31.6 END
6. DESIGN ROOF LIVE LOAD
20 PSF
7 DESIGN FLOOR LIVE LOAD
40 PSF
8. MIN. ASSUMED SOIL BEARING CAPACITY 1000 PSF
9 OCCUPANCY CLASSIFICATION R3
10. CONSTRUCTION TYPE VB
11 THIS BUILDING IS NOT DESIGNED FOR PLACEMENT IN A HIGH VELOCITY HURRICANE ZONE AS DEFINED BY THE FBC.
12. 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.



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)

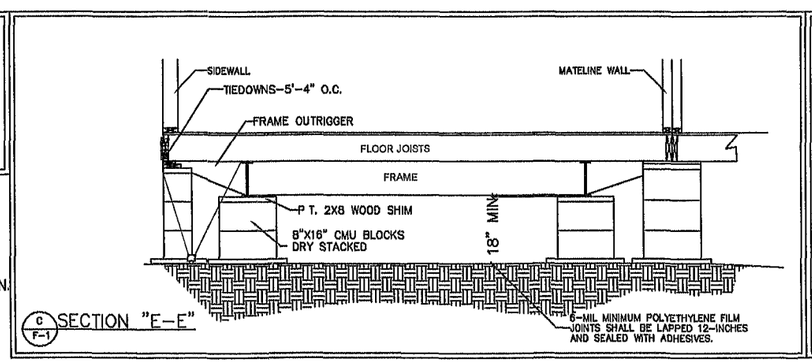
SYMBOLS

- F.T. -FRAME TIE-DOWN FASTENED TO G.A. GROUND ANCHOR.
- -COLUMN ANCHOR STRAP FASTENED TO GROUND ANCHOR
- -MINUTE MAN ANCHORS OR EQUIVALENT LONGITUDINAL & LATERAL BRACING SYSTEM
- -MINUTE MAN ANCHORS OR EQUIV. LATERAL BRACING SYSTEM ONLY

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

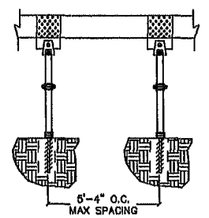
COLUMN LOADS

1 = 7632 LBS.
2 = 7632 LBS.



GROUND ANCHOR INSTALLATION

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



2X8 . MIN. PERIMETER RAIL

ALL TIE-DOWN STRAPS, ETC., SHALL BE TYPE 1 FINISH B, GRADE 1, STEEL STRAPPING 109,000 MINIMUM YIELD STRENTH, .035" MINIMUM THICKNESS (PLUS OR MINUS .002 IN. – 0.05MM) FINISH B – HOT-DIPPED GALVANIZED ZINC COATING (ASTM STANDARD 123-89A): .6 OUNCES PER SQUARE FOOT, PER SURFACE, 4750 POUNDS MINIMUM BREAK STRENGTH, MARKED EVERY 12 TO 15 INCHES (MANUFACTURER'E 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 LABORITORY. THE MINIMUM WORKING LOAD CAPACITY SHOULD BE AT LEAST EQUAL TO 4725 LBS. ANCHORS SHOULD BE EMBEDDED BELOW THE FROST LINE AND AT LEAST 12" ABOVE THE WATER TABLE.

FOUDATION NOTES:

1. BLOCKING SPACING BASED ON 20PSF LIVE LOAD ON ROOF AND 1000 PSF SOIL BEARING CAPACITY.
2. CONCRETE BLOCKS ARE ONLY RATED AT 8000 POUNDS, 8000 POUND PIERS OR HIGHER MUST BE DOUBLE BLOCKED.
3. STABILIZER SYSTEM PER MINUTE MAN ANCHORS, INC., OR EQUIVALENT AND ALL SIDEWALL ANCHORS ARE SPACED PER PLAN 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 BEARG 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. 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. ALL MASONRY PIERS MAY BE INSTALLED IN A DRY STACK SUBJECT TO LOCAL JURISDICTION
9. INSTALL BLOCK PIER ON EACH SIDE OF ALL EXTERIOR DOOR OPENINGS.
10. 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.

Senyb Engineering Services
318 S. Scenic Hwy, Ste. 100
Lake Wales, FL 33853
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Fax: 1-866-865-2044
Website: www.senybengineering.com
Email: info@senybengineering.com

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THESE STANDARDS AND PLANS MEET THE 2010 F.B.C. - RESIDENTIAL

V_{ULT} =ULTIMATE DESIGN WIND SPEED = 130 MPH (RISK CATERGORY II BUILDING)
V_{ASD} =NOMINAL DESIGN WIND SPEED = 101 MPH (CATERGORY II BUILDING) (TABLE 1609.3 1)

2/26/14
DATE

LEONARD G. WOOD P.E. #47377
318 S. SCENIC HWY, STE. 100
LAKE WALES, FL 33853
OFFICE 863-589-5980

LEONARD G. WOOD
REGISTERED PROFFESSIONAL ENGINEER # 47377

SES
SENYB ENGINEERING SERVICES
An Engineering and Design Company

DRAWING INFORMATION	
NAME:	M.B.J
DATE:	02-26-2014
SCALE:	NOT PRINTED TO SCALE

CUSTOMER: SLATER
Address: 312 SW Larryanns Glen, Lake City, FL 32056
Model # FMT3566J- Palm Harbor Homes-30'-0" X 56'-0"
FOUNDATION PLAN AND DETAILS
PROVIDED BY
SENYB ENGINEERING SERVICES
Lake Wales, Florida 33853

DESIGNED FOR 20 PSF ROOF LIVE LOAD AND 1000 PSF SOIL BEARING CAPACITY

F-1

SHEET 1 OF 1

Model #: FOT3566J

Sales Name: Eagle Ridge

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

Sheet List Table	
Sheet Number	Sheet Title
G0.01	Title Sheet
A0.01	Code Sheet
A0.02	Construction Notes
A1.01	Floorplan
A2.01	Front & Rear Elevations
A1.02	Right & Left Elevations
A3.01	On Frame Cross Section
A3.02	On Frame Cross Section Notes
E0.01	Electrical Notes
E1.01	Electrical Plan
P1.01	DWV PLAN
P1.02	Cold Supply Lines
P1.03	Hot Supply Lines
P1.04	Gas Supply Lines
S0.01	Shearwall Notes
S0.02	Column & Shearwall Tables
S1.01	Roof & Duct Plan Air Handler
S1.02	Roof & Duct Plan Pkg.Sys.
S1.03	Floor Framing FO
--	NON-INDEXED ATTACHMENTS
--	Florida Product Approvals
--	FLA. RES.
F-1	Typ. On-Frame Foundation

Palm Harbor Homes

Plant Number 69

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P.E
John C. Doeden, P.E.
15133 County Road 22
Goshen, In. 46528
Phone 574-825-7663
Fl. Lic. No. 45484

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

Drawing Information
Model Number: FOT3566J
Sales Name: Eagle Ridge
Series: Collins Craft On-Frame
Drawn by: GRS
Date: 2/18/13
Notes: ####

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

HWC
MUR 261

Sheet Title: TITLE SHEET
Sheet Number G0.01
Sheet 1 of 28
Plan #: 2102-######

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 (piered 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)	
Pr=Roof C&C load (EA=50)	
Wind speed:	150
Zone 1	-28.8
Zone 2	-43.7
Zone 3	-66.7
Roof Overhang (EA=10)	
Zone 2	-62.9
Zone 3	-105.9
Pw= Wall C&C load, Wdws & Doors (EA=10)	
Zone 4	-36.6
Zone 5	-45.1
Porch - (EA=20,Main) (EA=10, Eave)	
Main Zone 1	-44.4
Zone 2	-66.6
Zone 3	-93.6
Eave Zone 1	
Zone 2	-87.2
Zone 3	-134.8

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 - 2010 Florida Building Code Residential

1. Designs per the Florida Building Code in effect at time of production.
2. Reserved
3. Reserved.
4. Occupancy is Residential (R-3)
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.
10. 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.
11. All materials covered by the Florida Building Commission chapter 61 G20-3 rules shall have current Florida Product Approvals.
12. Minimum corridor width is 36 inches.
13. Reserved
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 - 2010 Florida Building Code Residential

1. All supply air registers are adjustable, except where otherwise specified on the plans.
2. Reserved
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.
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.
8. ALL HVAC components installed on-site, shall be installed by a licensed HVAC contractor.

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 (label). 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 - 2010 FBC, 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 with quick closing valves.

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).
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.

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.

CODE SUMMARY

STATE: FLORIDA

RESIDENTIAL: 2010 FBC-RESIDENTIAL	FIRE PREVENTION: 2010 FL. FIRE PREVENTION
ELECTRICAL: 2008 N.E.C.	LIFE SAFETY: 2009 NFPA 101 LIFE SAFETY CODE
MECHANICAL: 2010 FBC RESIDENTIAL	FUEL: 2010 FBC RESIDENTIAL
PLUMBING: 2010 FBC RESIDENTIAL	ACCESSIBILITY: 2012 FLORIDA ACCESSIBILITY CODE
ENERGY: 2010 FBC RESIDENTIAL	

ATTACHMENTS:

1. Florida Energy Calculations

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

The 1st letter of the model number designates the State. The 2nd is a series designation and can change without reapproval.

Florida product approvals are on file with third party.

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Palm Harbor Homes

Plant Number 69

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Goshen, In. 46528
Phone 574-825-7663
FL Lic. No. 45484
Plant Information

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

Drawing Information
Model Number: FOT3566J
Sales Name: Eagle Ridge
Series: Collins Craft On-Frame
Drawn by: GRS
Date: 2/18/13
Notes: ####

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

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

CONST. TYPE	VB
OCCUPANCY	R-3
ALLOWABLE NO. OF FLOORS	1
WIND VELOCITY	150 ult (3 sec)
FIRE RATING OF EXT WALLS	0
PLAN NO.	2102-####
ALLOW. FLOOR LOAD	40
APPROVAL DATE	
MANUFACTURER	PHH
HIGH VELOCITY HURRICANE ZONE	NO

HWC
MUR 261

Sheet Title: CODE SHEET
Sheet Number: A0.01
Sheet 1 of 28
Plan #: 2102-#####

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.

Notes

1. See shear wall notes and shearwall tables for shear wall construction requirements.
2. Exterior walls are no more than 9'-0" max unless otherwise noted.
3. When designing your own foundation, add 2" to overall width shown on floor plan per module to accommodate growth from sheathing and strapping.
4. 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:

Vasd	Vult (mph)		TRUSS SPACING	
	EXP. C	EXP. D	END ZONE	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.

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

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

Klnro / CWS Window Chart		
Size	Square Foot Light	Square Foot Vent
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
30x42	6.55	0.00
64x12	4.90	5.20
46x12	3.28	0.00

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

Building Square Footage Table

SQUARE FOOTAGE BREAKDOWN FOR PROJECT		
DESCRIPTION	AREA (Sq. Ft.)	PERIMETER (Ft.)
SQUARE FEET A.C.	1680.00 SF	172
Total Project	1680.00 SF	172

Palm Harbor Homes

Plant Number 69

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Drawing Information
Model Number: FOT3566J
Sales Name: Eagle Ridge
Series: Collins Craft On-Frame
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Notes: ###

3rd Party
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LISTING AGENCY APPROVAL
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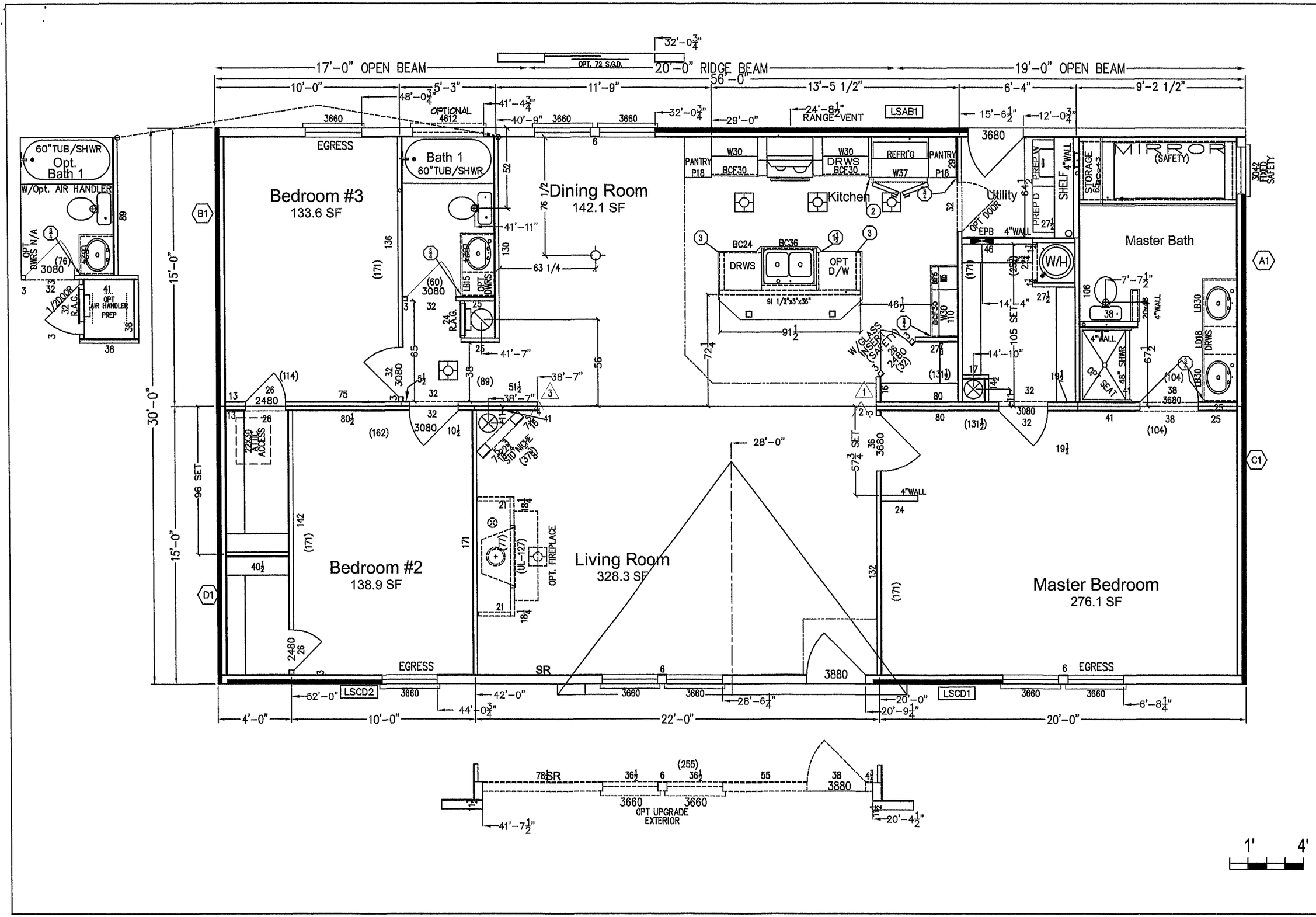
CONST. TYPE	VB
OCCUPANCY	R-3
ALLOWABLE NO. OF FLOORS	1
WIND VELOCITY	150 ult (3 sec)
FIRE RATING OF EXT. WALLS	0
PLAN NO.	2102-#####
ALLOW. FLOOR LOAD	40
APPROVAL DATE	
MANUFACTURER	PHH
HIGH VELOCITY HURRICANE ZONE	NO

HWC
MUR 261

Sheet Title: CONSTRUCTION NOTES
Sheet Number A0.02
Sheet 1 of 28
Plan #: 2102-#####



Palm Harbor Homes

Plant Number 69

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P.E
John C. Deeden, P.E.
15133 County Road 22
Goshen, In. 46528
Phone 574-825-7663
FL Lic. No. 45484

Plant Information

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

Drawing Information

Model Number:	FOT3566J
Sales Name:	Eagle Ridge
Series:	Collins Craft On-Frame
Drawn by:	GRS
Date:	2/18/13
Notes:	

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

State.

LISTING AGENCY APPROVAL

These p/ns/s comply with the Florida Manufactured Building Act of 1979 Construction Code and adhere to the following criteria:

CONST. TYPE	VB
OCCUPANCY	R-3
ALLOWABLE NO. OF FLOORS	1
WIND VELOCITY	150 u/l (3 sec)
FIRE RATING OF EXT. WALLS	0
PLAN NO.	2102-#####
ALLOW FLOOR LOAD	40
APPROVAL DATE	
MANUFACTURER	PHH
HIGH VELOCITY HURRICANE ZONE	NO

HWC

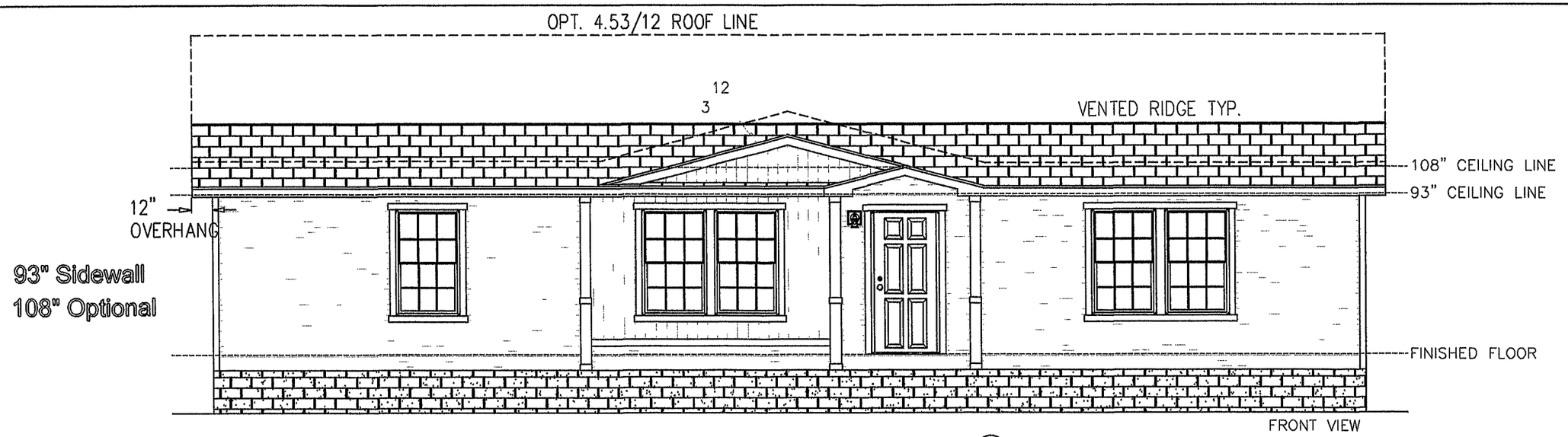
MUR 261

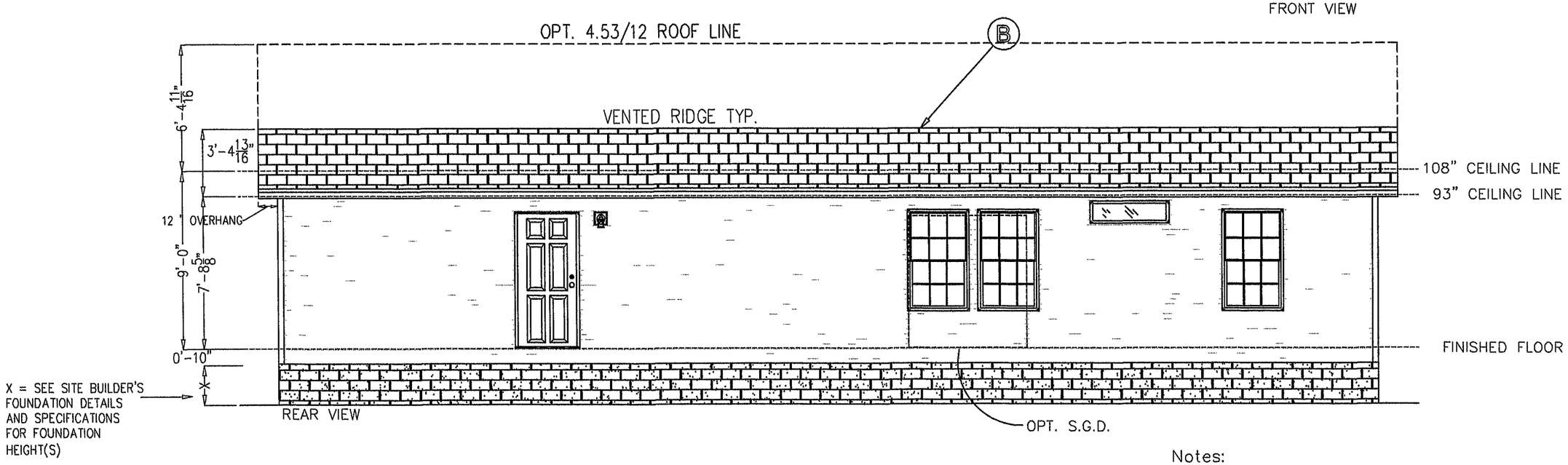
Sheet Title: FLOORPLAN

Sheet Number A1.01

Sheet 1 of 28

Plan #: 2102-#####





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.

Notes:
Site Installation Details
(A) Gable End Close Up – See RF 3.1 and 3.2
(B) Close Up at Peak – See RF 1.3
(C) Floor connections – See IM-Section
FF = FINISHED FLOOR
FC = FINISHED CEILING
UC = UNIT INTERCONNECTION

1' 4'

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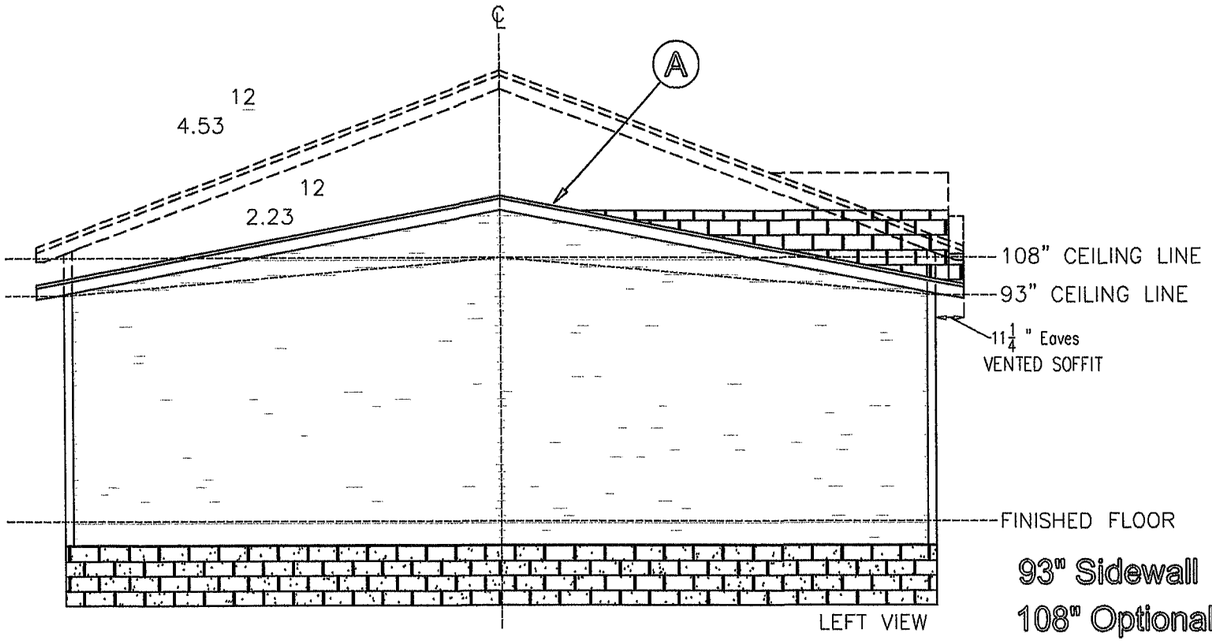
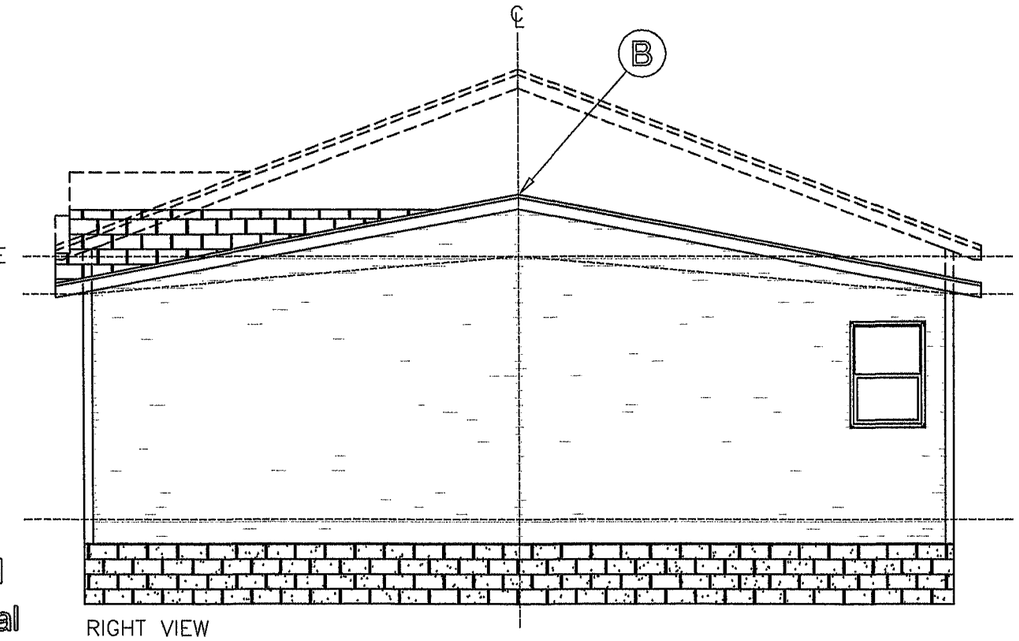
HIGH VELOCITY HURRICANE ZONE	NO

HWC
MUR 281

Sheet Title: FRONT & REAR ELEVATIONS
Sheet Number A2.01
Sheet 1 of 28
Plan #: 2102-#####





93" Sidewall
108" Optional

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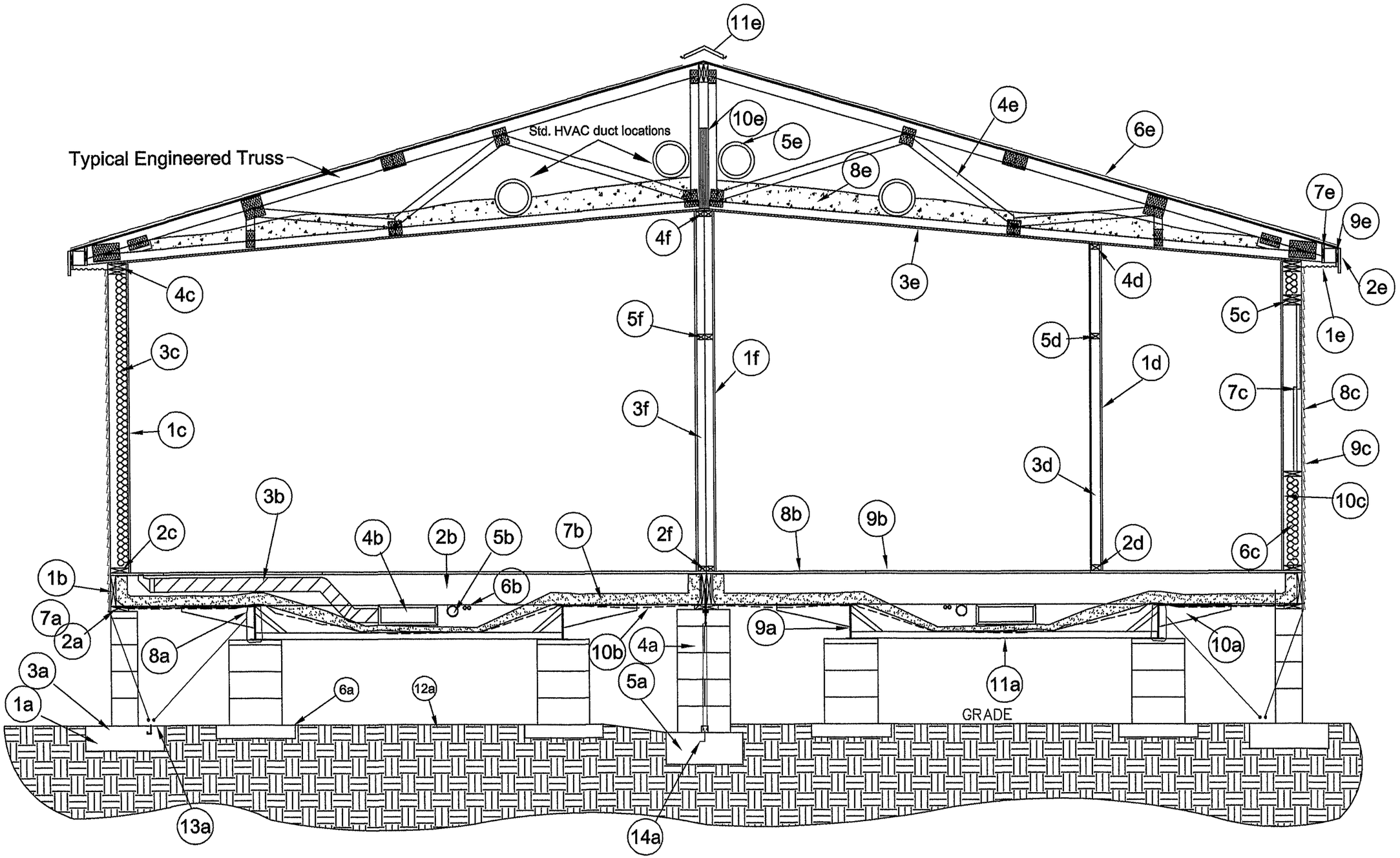
ALLOW. FLOOR LOAD	40
APPROVAL DATE	
MANUFACTURER	PHH
HIGH VELOCITY HURRICANE ZONE	NO

HWC
MUR 261

Sheet Title: RIGHT & LEFT ELEVATIONS
Sheet Number: A1.02
Sheet 1 of 28
Plan #: 2102-######



ALL FOUNDATION SPECIFICATIONS ARE TYPICAL AND DESIGNED AND CONSTRUCTED ON SITE BY OTHERS

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WIND VELOCITY	160 u/t (3 sep)
FIRE RATING OF EXT. WALLS	0
PLAN NO.	2102-#####
ALLOW. FLOOR LOAD	40
APPROVAL DATE	
MANUFACTURER	PHH
HIGH VELOCITY HURRICANE ZONE	NO

HWC
MUR 261

Sheet Title: ON FRAME CROSS SECTION
Sheet Number A3.01
Sheet 1 of 28
Plan #: 2102-#####

Typical Foundation System

1a. Concrete runner and piers
2a Pressure treated sill plate blocking as required
3a. Termite Shield around full perimeter
4a/5a Pier support and footers @ columns
6a Concrete pad and piers
7a Termite shield around full perimeter
8a Lags/washers @ I–beam to joists (factory installed)
9a Main Frame I–beam
10a Factory outriggers
11a Factory cross members
12a 6–mill poly
13a Double head J–anchors along each sidewall footer
14a Double head J–anchors at centerline column footers for large openings

Floor System

Floor Joists

1b. Single rim joist – opt. double.
2b Floor joists:
Up to 164" unit width, 2x6 #2 S–P–F 16" O.C. max. or 2x8 #2 S–P–F @ 24" O.C.
Up to 186" unit width, 2x8 #2 S–P–F 16" O.C. max.
3b. Insulated duct – sized per manual D
4b. Insulated, fiberglass duct board
5b. Drain lines, see model layout for material types and sizes
6b. PEX water distribution system – see model layout for sizing
7b. Floor insulation, fiberglass batts or blanket, cellulose, or foam
– see Energy Calculations for R–value
8b. Floor sheathing – OSB or Plywood, ⅝" or ¾".
9b. Floor covering – vinyl, carpet, wood laminate, or ceramic tile
10b. Bottom board vapor and air barrier

Exterior wall

1c. ½" or ⅜" gypsum, painted or vinyl clad
2c. Min. 2x4 bottom plate, 2x6 optional
3c. 2x4 wall studs, optional 2x6
4c. Double top plate on 2x4 walls, single top plate 2x6 walls
5c. Opening headers
6c. Insulation per approved calculations with model package
7c. Windows and doors
8c. Rated sheathing
9c. Exterior siding – vertical or horizontal cementious, or vertical or
horizontal vinyl – requires weather–resistive (house wrap)
10c Vapor barrier, may be omitted with foam insulation

Interior walls

1d ½" or ⅜" gypsum, painted or vinyl clad
2d Min. 2x3 bottom plate
3d Min. 2x3 wall studs
4d Min. 2x3 top plates
5d Opening header when required

Roof System

1e. Soffit
2e. Fascia
3e. ½" high strength gypsum or approved suspended ceiling material.
4e. Engineered trusses spaced per truss and model design or factory taper–cut trusses
5e. Optional overhead ducts
6e. Shingles or ribbed metal over OSB roof sheathing
7e. Truss rim rail
8e. Insulation per approved calculations with model package
9e Minimum 1x6 sub–fascia.
10e Ridge beam
3 Layer Beam
4 Layer Beam
Open Beam
LVL or LSL
11e Upper Roof Vent Handle as:
Vented Ridge cap (as shown)
Roof caps

Marriage Wall

1f 1/2" gypsum –
Factory finished or finished on site:
Alternate Drywall: Vinyl covered gypsum.
2f Min. 2x3 Bottom plate
3f Min. 2x3 Wall stud
4f Min. 2x3 top plate
5f Window or door header

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FIRE RATING OF EXT WALLS	0
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APPROVAL DATE	
MANUFACTURER	PHH
HIGH VELOCITY HURRICANE ZONE	NO

HWC
MUR 261

Sheet Title: ON FRAME CROSS SECTION NOTES
Sheet Number A3.02
Sheet 1 of 28
Plan #: 2102-#####

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.
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 kitchen and bathrooms.
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' as defined by NEC 410-8 (a).
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. Refer to the code sheet for additional electrical notes.
27. All 3-way switches are to be wired using 14-3 wire unless otherwise noted on plan.
28. 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.

	GENERAL LIGHTING		MAIN PANEL BOX	$	SWITCH		EXHAUST-,CEIL'G FAN		UNDER CAB LIGHTING
	SMALL APPLIANCE		WALL MOUNTED FIXTURE	$3	3-WAY SWITCH		HEAT TAPE RECEPT	FLUORESCENT	24" SURFACE FLUORESCENT
	GFI PROTECTED		CEILING MOUNTED FIXTURE	RECESS	RECESSED FLUORESCENT		LIGHTED EXHAUST-,CEIL'G FAN	DC	DOOR CHIME BOX (WIRELESS)
	240V APPLIANCE		PHONE PREP / T.V. PREP		SURFACE FLUORESCENT		OPT CEILING FAN PREP.		EXTERIOR FLOOD LIGHT WP
SA	SMOKE ALARM	T	THERMOSTAT						
CO SA	SMOKE ALARM CARBON MONOXIDE		RECESSED CAN LIGHT		14" RETURN / 12" RISER		SURFACE LIGHT RATED FOR WET AREA		

NEC – 2008

MAIN BREAKER 200 AMP

(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	*	**	4(AF)	GEN. LIGHTING	15	14-2*
20	12-2*	APPLIANCE	5	*	**	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	*	*	12	BATH G.F.I.	20	12-2*
20	12-2*	LAUNDRY	13	**	*	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	*	*				
20	12-2*	OPT. FREEZER	19	*	**	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	*	**	24(AF)	SPARE	15	14-2*
20	12-2*	SPARE	25(AF)	*	**	26(AF)	SPARE	15	14-2*
20 2 POLE	12-2*	OPTIONAL ELEVATOR	27	*					
				*					

SERIAL NUMBER: NA
MODEL NUMBER: T3566J

GENERAL LOADS		VA	KVA
TOTAL UNIT A.C. SQUARE FEET	1,680	5,040	5 0
NO. OF 20-AMP APPLIANCE OUTLET CIRCUITS	3	4,500	4 5
LAUNDRY CIRCUIT	1	1,500	1 5
SUBTOTAL		11,040	11.04
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	0	0	0 0
JACUZZI	0	0	0 0
ELEVATOR	0	0	0 0
RESERVED	0	0	0 0
RESERVED	0	0	0 0
RESERVED	0	0	0 0
SUBTOTAL		22,900	22.9
TOTAL GENERAL & NAME PLATE		33.940	33.9
FIRST 10 KVA AT 100%		10,000	10.0
RAMAINDER AT 40%		9,576	9 6
0	0	0	0 0
AIR HANDLER UNIT @100%	0	0	0 0
SUPPLEMENTAL, SEPARATE HEAT @65%	0	0	0.0
SEPARATELY CONTROLLED SPACE HEATING	0	0	0.0
STRAIGHT COOL AC UNIT @100%	0	0	0.0
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		35,376	35.4
MINIMUM PANEL BOX AMPERAGESIZE	35,376 /240 =		147
SIZE AMP PANEL BOX INSTALLED	120/240 V, 1ø		200
MIN. NO. OF GENERAL LIGHTING CIRCUITS			3

NOTE 1 (UR) = Heat pump is unrestricted from running while supplementary heat is running
(R) = Heat pump is restricted from running while supplementary heat is running

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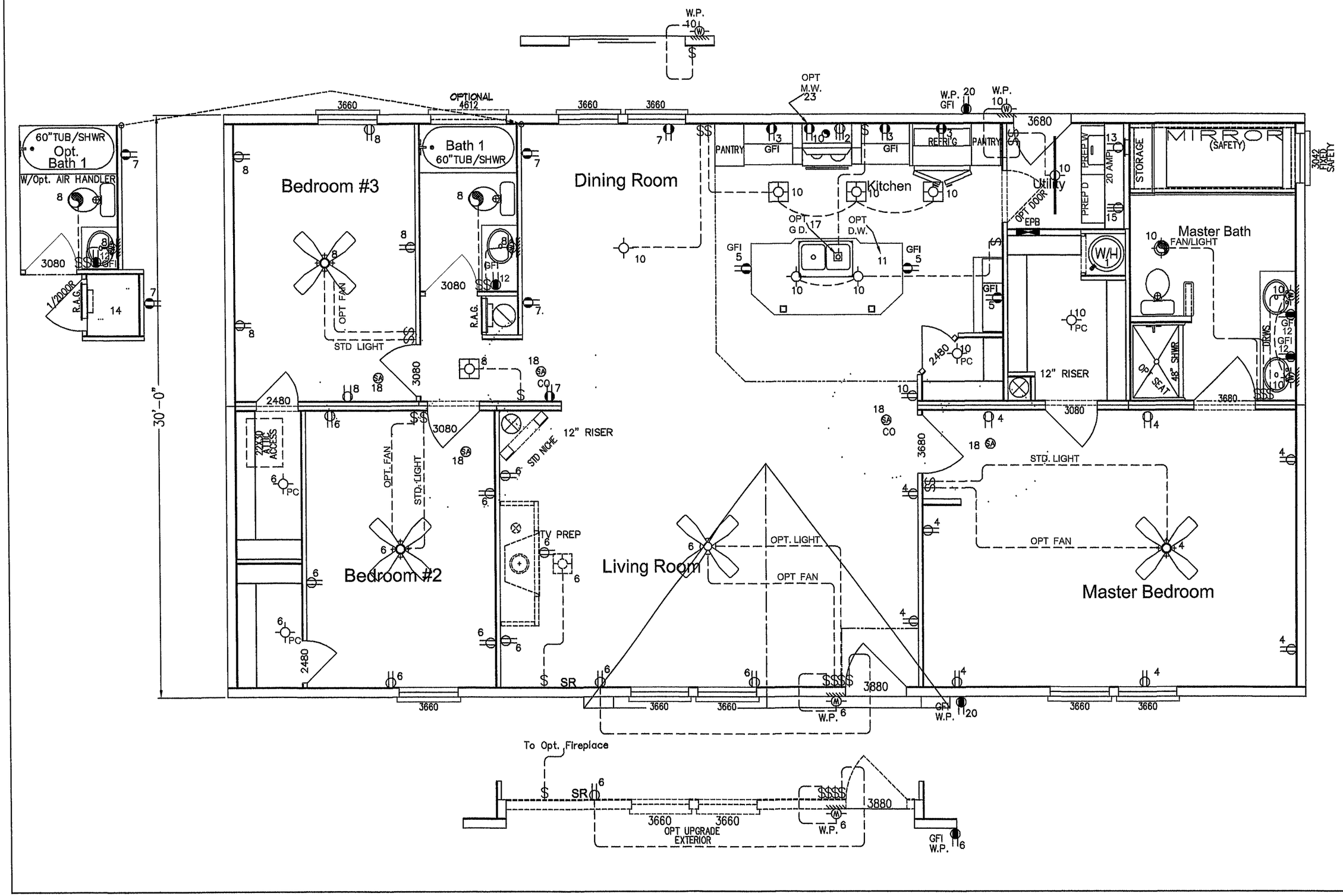
HIGH VELOCITY HURRICANE ZONE	NO

HWC
MUR 261

Sheet Title: ELECTRICAL NOTES
Sheet Number: E0.01
Sheet 1 of 28
Plan #: 2102-#####



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HIGH VELOCITY HURRICANE ZONE	NO

HWC

MUR 261

Sheet Title: ELECTRICAL PLAN

Sheet Number: E1.01

Sheet 1 of 28

Plan #: 2102-#####

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 3505.4.1.

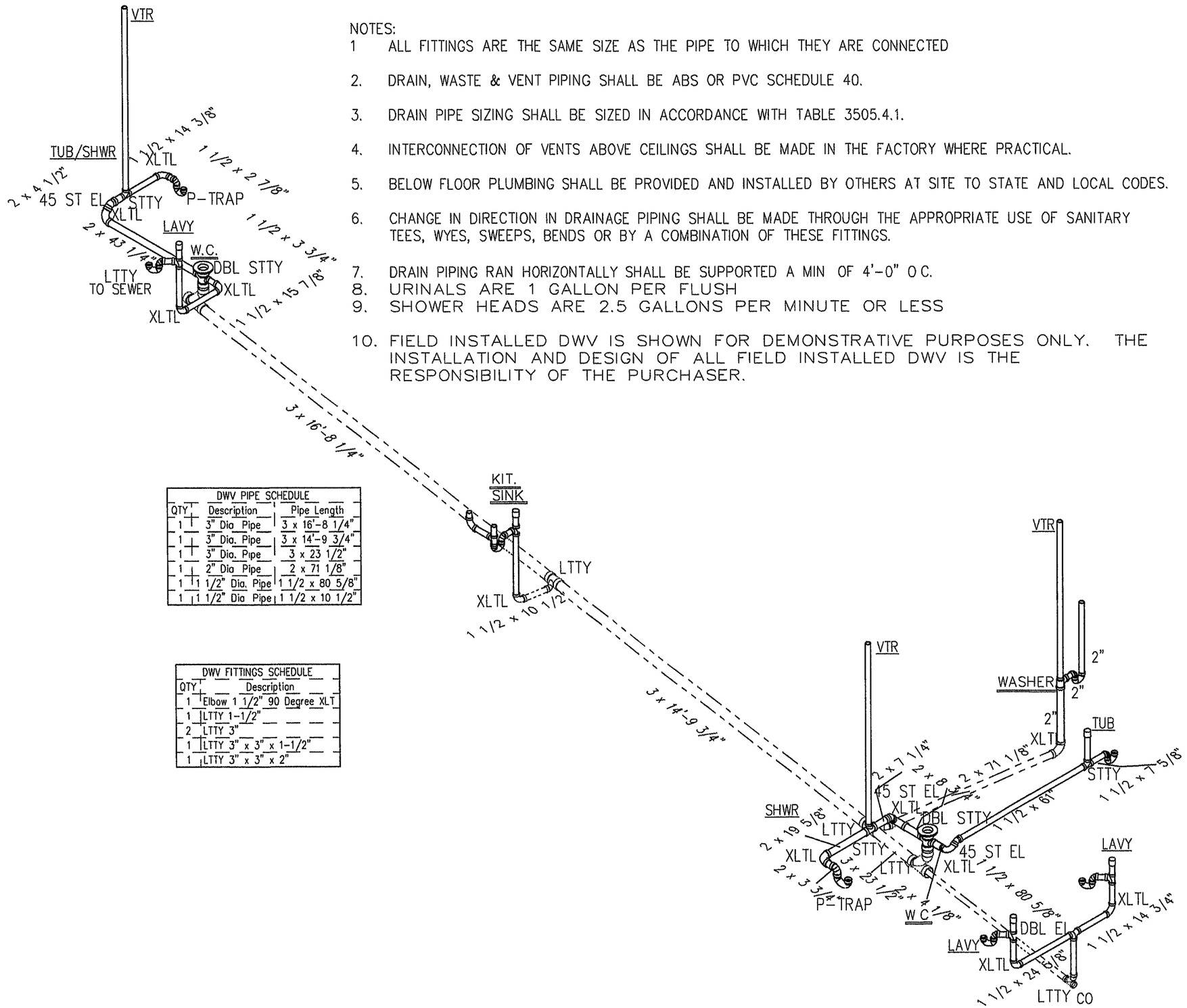
4. INTERCONNECTION OF VENTS ABOVE CEILINGS SHALL BE MADE IN THE FACTORY WHERE PRACTICAL.

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.



DWV PIPE SCHEDULE		
QTY	Description	Pipe Length
1	3" Dia Pipe	3 x 16'-8 1/4"
1	3" Dia. Pipe	3 x 14'-9 3/4"
1	3" Dia. Pipe	3 x 23 1/2"
1	2" Dia Pipe	2 x 71 1/8"
1	1 1/2" Dia. Pipe	1 1/2 x 80 5/8"
1	1 1/2" Dia Pipe	1 1/2 x 10 1/2"

DWV FITTINGS SCHEDULE	
QTY	Description
1	Elbow 1 1/2" 90 Degree XLT
1	LTTY 1-1/2"
2	LTTY 3"
1	LTTY 3" x 3" x 1-1/2"
1	LTTY 3" x 3" x 2"

Palm Harbor Homes

Plant Number 69

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Goshen, In. 46528
Phone 574-825-7663
Fl. Lic. No. 45484

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

Drawing Information
Model Number: FOT3566J
Sales Name: Eagle Ridge
Series: Collins Craft On-Frame
Drawn by: GRS
Date: 2/18/13
Notes: ####

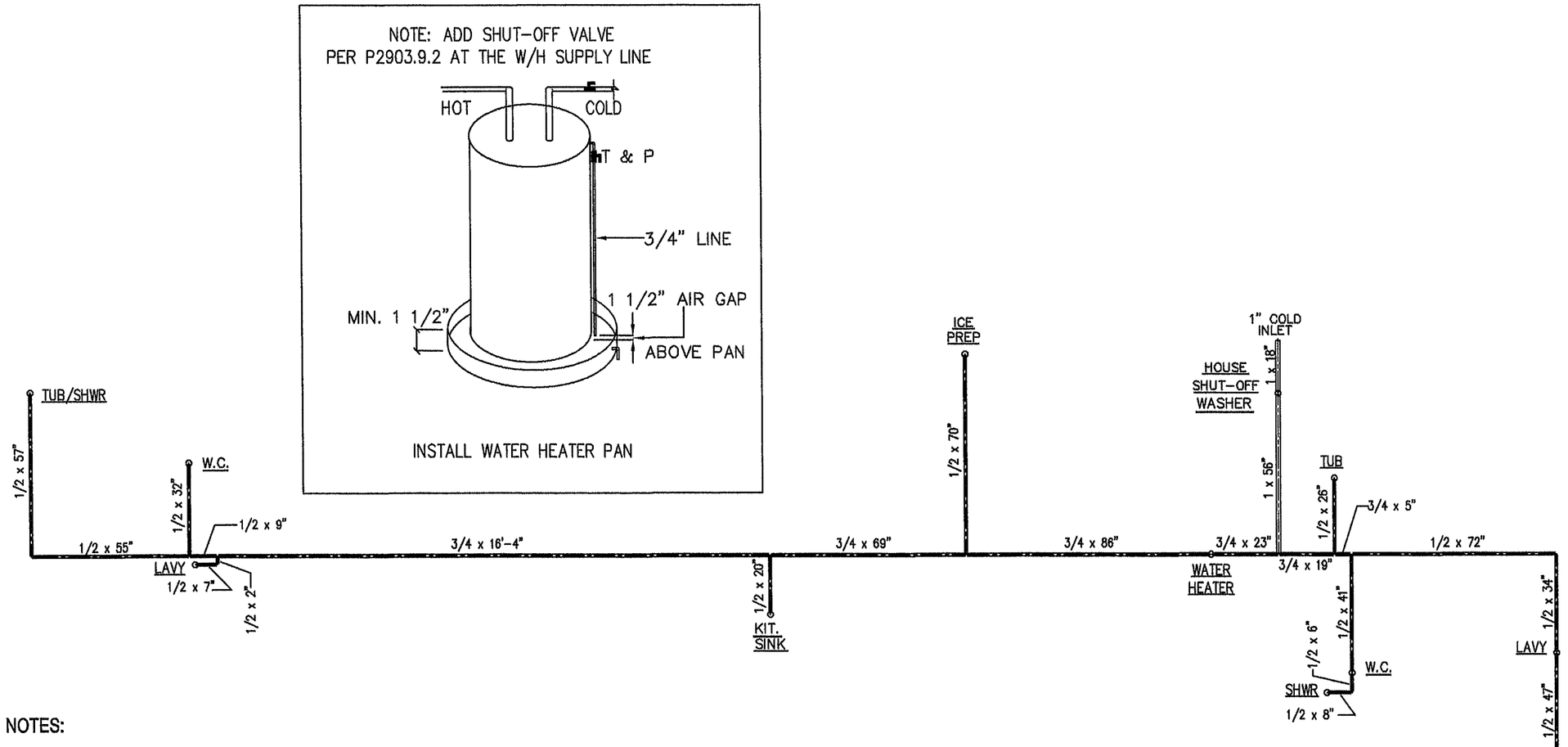
3rd Party
Hilborn,Werner,Carter and Associates(HWC)
1627 South Myrtle Ave
Clearwater, FL. 33756

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

HWC
MUR 261

Sheet Title: DWV PLAN
Sheet Number: P1.01
Sheet 1 of 28
Plan #: 2102-#####



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. WATER HAMMER ARRESTORS NOT REQUIRED WITH NON-METALLIC WATER LINES.

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.) WATER HEATERS SHALL BE PROTECTED BY A SEPARATE PRESSURE-RELIEF VALVE AND SEPARATE TEMPERATURE-RELIEF VALVE OR A COMBINATION.

8) INSTALL WATER HAMMER ARRESTORS AT ALL LOCATIONS WHERE QUICK CLOSING VALVES ARE UTILIZED.

9) 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.

10) DESIGN BASED ON 40 TO 49 PSI PRESSURE RANGE & MDL = 52.8 FT.(60' Column)

Palm Harbor Homes

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Sales Name:	Eagle Ridge
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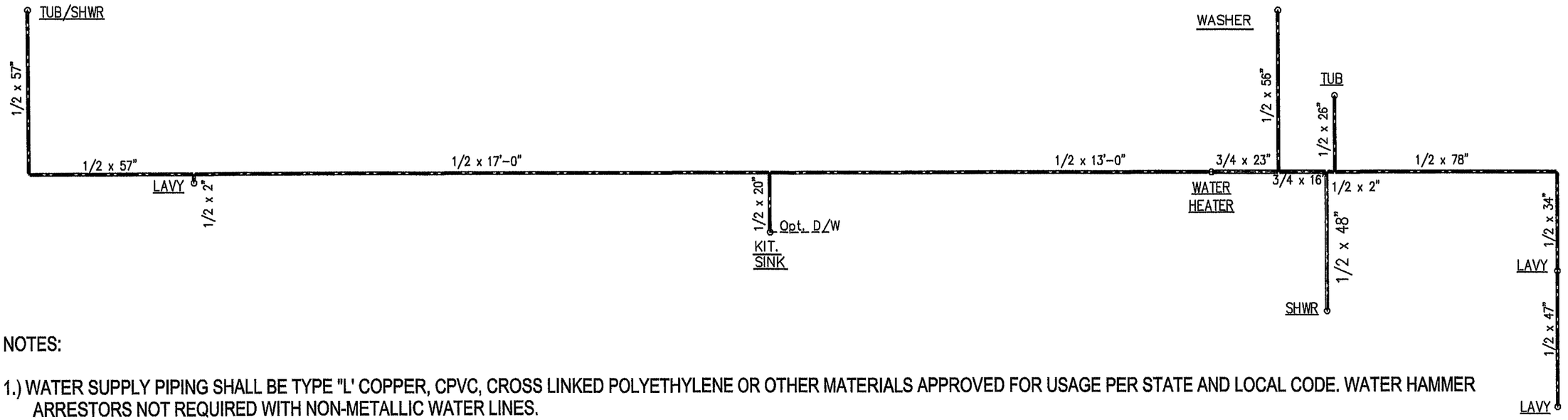
ALLOWABLE NO. OF FLOORS	1
WIND VELOCITY	150 ult (3 sec)
FIRE RATING OF EXT WALLS	0
PLAN NO.	2102-####
ALLOW. FLOOR LOAD	40
APPROVAL DATE	
MANUFACTURER	PHH
HIGH VELOCITY HURRICANE ZONE	NO

HWC
MUR 261

Sheet Title: COLD SUPPLY LINES
Sheet Number P1.02
Sheet 1 of 28
Plan #: 2102-######



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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.

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6.) WATER HEATERS SHALL CONFORM TO THE ENERGY REQUIREMENTS OF THE APPLICABLE CODE.

7.) WATER HEATERS SHALL BE PROTECTED BY A SEPARATE PRESSURE-RELIEF VALVE AND SEPARATE TEMPERATURE-RELIEF VALVE OR A COMBINATION.

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10) DESIGN BASED ON 40 TO 49 PSI PRESSURE RANGE & MDL = 46.8 FT.(60' Column)

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605 S. Frontage Road
Plant City, Florida 33566

Drawing Information
Model Number: FOT3566J
Sales Name: Eagle Ridge
Series: Collins Craft On-Frame
Drawn by: GRS
Date: 2/18/13
Notes: ####

3rd Party
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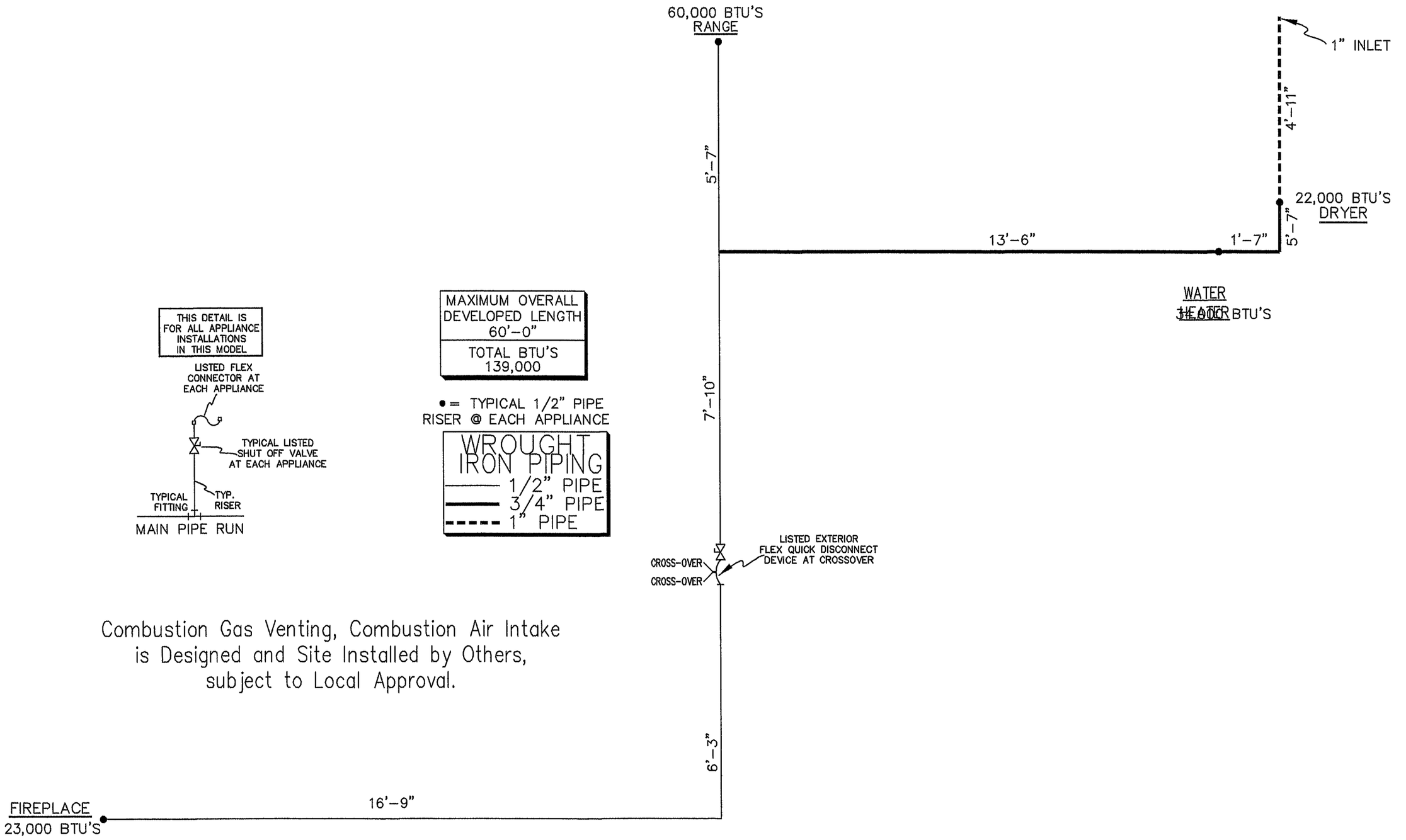
1627 South Myrtle Ave
Clearwater, FL. 33756

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	R-3
ALLOWABLE NO. OF FLOORS	1
WIND VELOCITY	160 u/L (3 sep)
FIRE RATING OF EXT WALLS	0
PLAN NO.	2102-#####
ALLOW. FLOOR LOAD	40
APPROVAL DATE	
MANUFACTURER	PHH
HIGH VELOCITY HURRICANE ZONE	NO

HWC
MUR 281

Sheet Title: HOT SUPPLY LINES
Sheet Number P1.03
Sheet 1 of 28
Plan #: 2102-#####



Combustion Gas Venting, Combustion Air Intake
is Designed and Site Installed by Others,
subject to Local Approval.

Palm Harbor Homes

Plant Number 69

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

Drawing Information

Model Number:	FOT3566J
Sales Name:	Eagle Ridge
Series:	Collins Craft On-Frame
Drawn by:	GRS
Date:	2/18/13
Notes:	####

3rd Party
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1627 South Myrtle Ave
Clearwater, FL. 33756

State.

LISTING AGENCY APPROVAL

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

CONST. TYPE	VB
OCCUPANCY	R-3
ALLOWABLE NO. OF FLOORS	1
WIND VELOCITY	150 u/t (3 gsp)
FIRE RATING OF EXT. WALLS	0
PLAN NO.	2102-#####
ALLOW. FLOOR LOAD	40
APPROVAL DATE	
MANUFACTURER	PHH
HIGH VELOCITY HURRICANE ZONE	NO

HWC

MUR 261

Sheet Title: GAS SUPPLY LINES

Sheet Number P1.04

Sheet 1 of 28

Plan #: 2102-#####

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 minimium 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 "Dld 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: Dld @ 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.

Palm Harbor Homes

Plant Number 69

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FL Lic. No. 45484

Plant Information

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

Drawing Information

Model Number:	FOT3566J
Sales Name:	Eagle Ridge
Series:	Collins Craft On-Frame
Drawn by:	GRS
Date:	2/18/13
Notes:	####

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

HWC

MUR 281

Sheet Title: SHEARWALL NOTES

Sheet Number S0.01

Sheet 1 of 28

Plan #: 2102-#####

COLUMNS RANCH STORY

ROOF LOAD: 20 PSF
WIND SPEED: 150 MPH

NO.	26 GA STRAP	TYPE	STUD NUM	STUD LENGTH	STUD SIZE	BLK	FLOOR WIDTH	SPAN	LOAD
1	5	1	6	105	2x3	N	180	18'-6"	3816
2	5	1	6	105	2x3	N	180	18'-6"	3816
3	5	1	6	105	2x3	N	180	18'-6"	3816
4	5	1	6	105	2x3	N	180	18'-6"	3816

Design Wind Speed is ultimate mph per ASCE 7-10
See appropriate Risk Category map for site location

Shear Wall Requirements

A & B — Wind Speed: 150 — Side Wall HT: 108" — Exposure: D — Max Elev: 36" — MRH: 20 FT. — 24" O.C.-TYP — Framing: 2x6

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	252	1	8d	6/6	137.25	1	1	N/A	or 1/2	6 1/4	N/A
B1	192	1	8d	6/6	180	1	1	N/A	or 1/1	8 1/4	N/A
LSAB1	151	1	8d	6/6	204	N/A	1		or 1/1	10 1/2	N/A
C1	192	1	8d	6/6	180	1	1	N/A	or 1/1	8 1/4	N/A
D1	192	1	8d	6/6	180	1	1	N/A	or 1/1	8 1/4	N/A
LSCD1	165	1	8d	6/6	85.125	N/A	1		or 1/1	9 1/2	N/A
LSCD2	165	1	8d	6/6	100.75	N/A	1		or 1/2	9 1/2	N/A

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

Diaphragm Connections			Spacing w/Single Fasteners				
@ Shear Wall	Dbl Fast'g	Req'd Spacing	D1(ft.) 3/3	D2(ft.) 3/6	D3(ft.) 3/12	D4(ft.) 4/12	D5(ft.) 6/12
A	N/A	3/3		4	6	9	13
B	N/A	3/3		4	6	9	13
C	N/A	3/3		4	6	9	13
D	N/A	3/3		4	6	9	13

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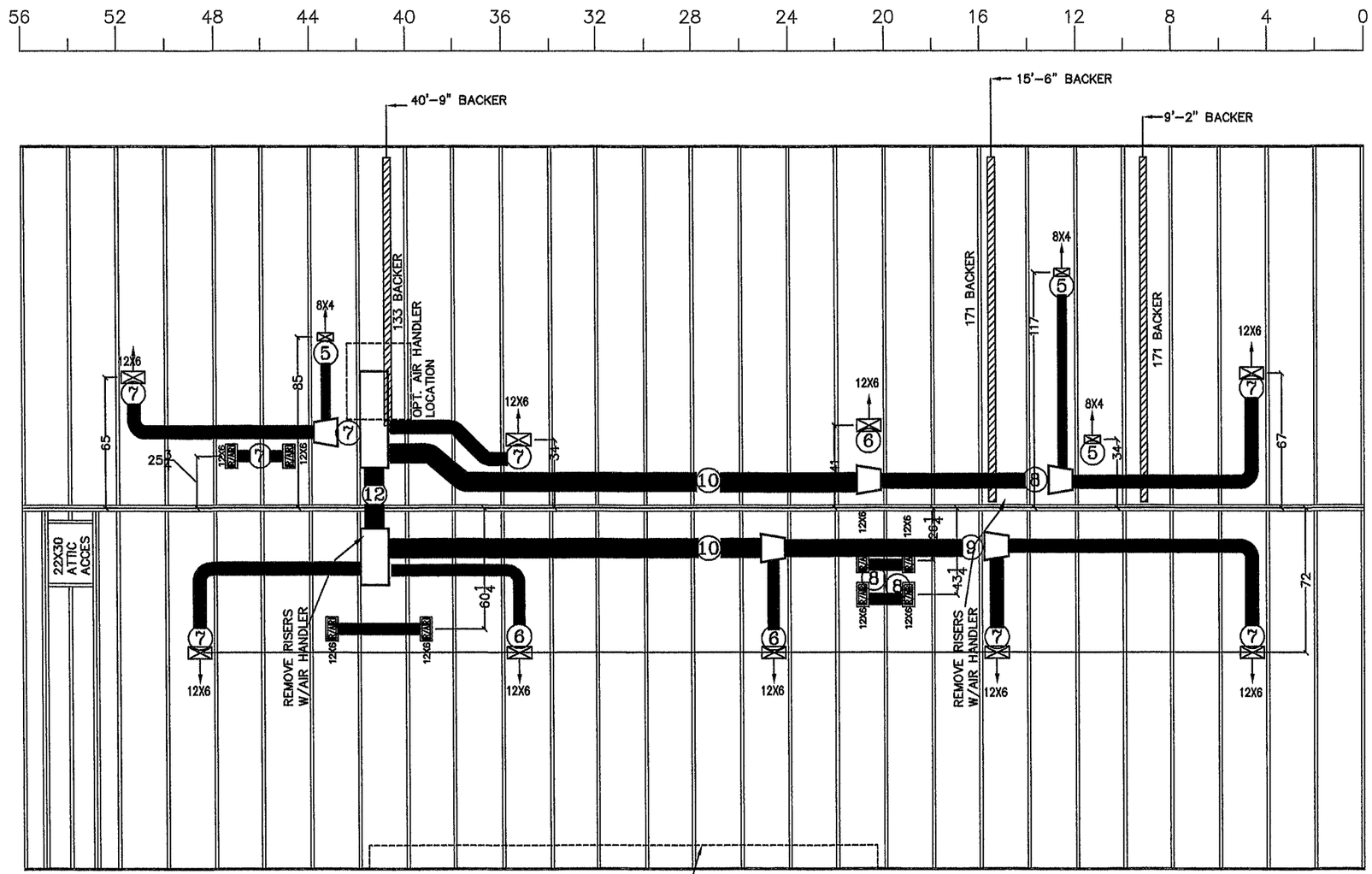
FIRE RATING OF EXT WALLS	0
PLAN NO.	2102-#####
ALLOW. FLOOR LOAD	40
APPROVAL DATE	
MANUFACTURER	PHH
HIGH VELOCITY HURRICANE ZONE	NO

HWC
MUR 261

Sheet Title: COLUMN & SHEARWALL TABLES
Sheet Number: S0.02
Sheet 1 of 28
Plan #: 2102-#####



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.

RIDGE BEAM: 3 LAYER OF 15/32" x 24" HIGH (3 LAYER /3 PLY) PLYWOOD ALL PLIES GROUP I (32/16 INDEX)

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.

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 and 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.

TRUSS NUMBERS

TRUSS # C556001

Palm Harbor Homes

Plant Number 69

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Drawn by:	GRS
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FIRE RATING OF EXT. WALLS	0
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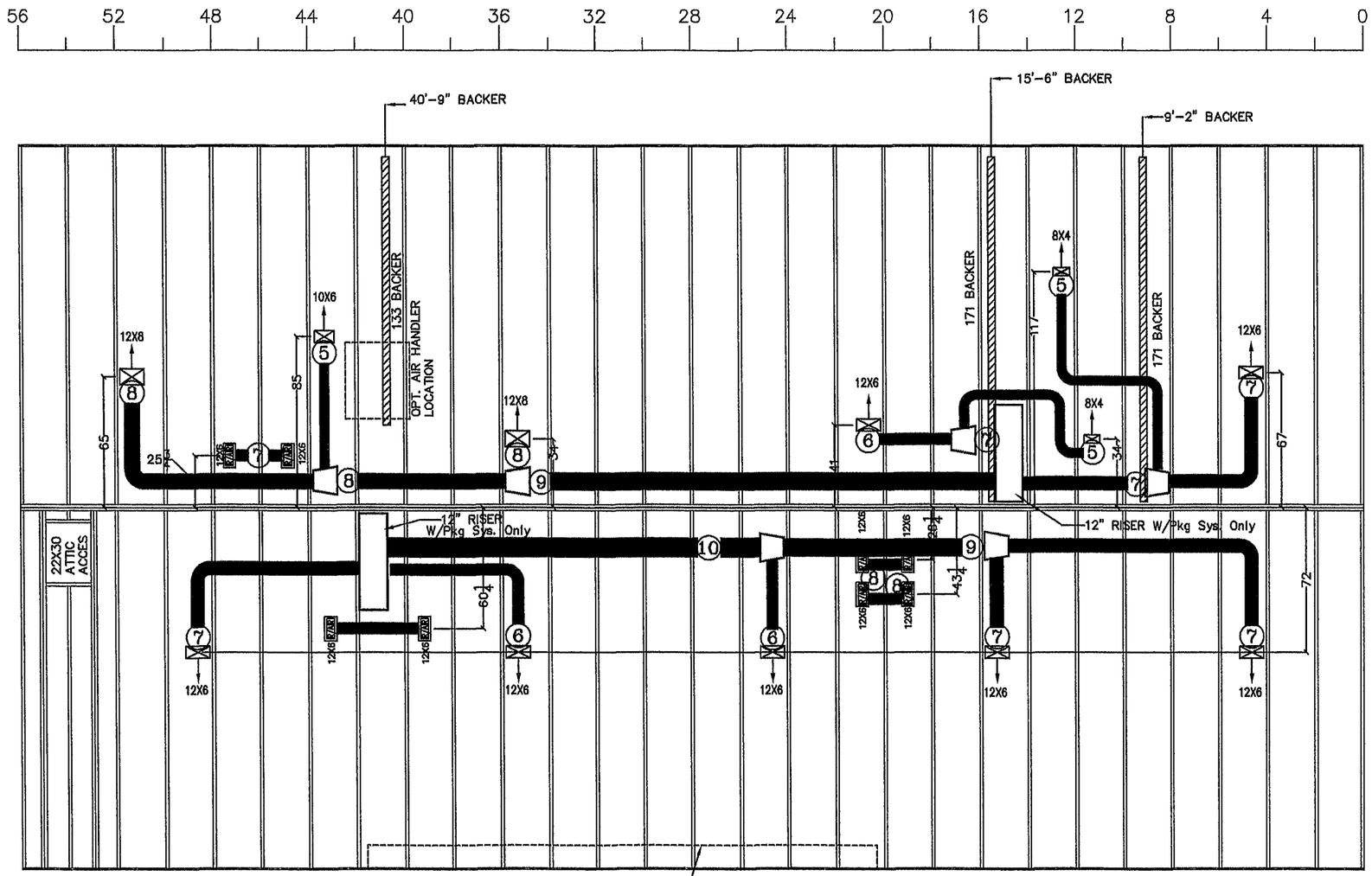
APPROVAL DATE	
MANUFACTURER	PHH
HIGH VELOCITY HURRICANE ZONE	NO

HWC
MUR 281

Sheet Title: ROOF & DUCT PLAN AIR HANDLER
Sheet Number S1.01
Sheet 1 of 28
Plan #: 2102-#####



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.

RIDGE BEAM: 3 LAYER OF 15/32" x 24" HIGH (3 LAYER /3 PLY) PLYWOOD ALL PLIES GROUP I (32/16 INDEX)

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.

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 and 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.

TRUSS NUMBERS
TRUSS # C556001

Palm Harbor Homes

Plant Number 69

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P.E.
John C. Deeden, P.E.
15133 County Road 22
Goshen, In. 46528
Phone 574-825-7663
FL Lic. No. 45484

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

Drawing Information
Model Number: FOT3566J
Sales Name: Eagle Ridge
Series: Collins Craft On-Frame
Drawn by: GRS
Date: 2/18/13
Notes: ###

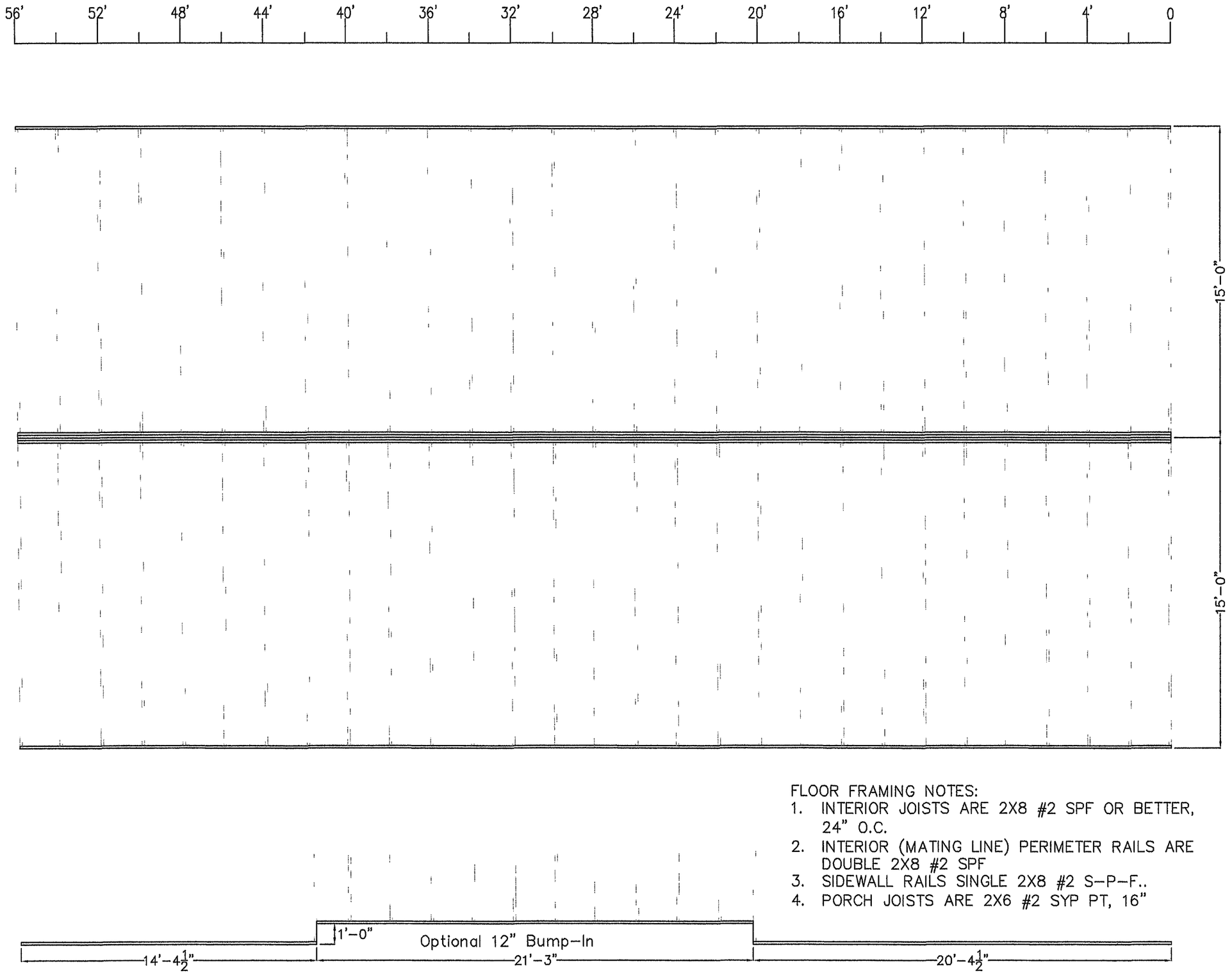
3rd Party
Hilborn,Werner,Carter and Associates(HWC)
1627 South Myrtle Ave
Clearwater, FL. 33756

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

CONST. TYPE	VB
OCCUPANCY	R-3
ALLOWABLE NO. OF FLOORS	1
WIND VELOCITY	150 ult (3 sec)
FIRE RATING OF EXT. WALLS	0
PLAN NO.	2102-#####
ALLOW. FLOOR LOAD	40
APPROVAL DATE	
MANUFACTURER	PHH
HIGH VELOCITY HURRICANE ZONE	NO

HWC
MUR 261

Sheet Title: ROOF & DUCT PLAN
Sheet Number PKG-SYS. S1.02
Sheet 1 of 28
Plan #: 2102-#####



FLOOR FRAMING NOTES:

1. INTERIOR JOISTS ARE 2X8 #2 SPF OR BETTER, 24" O.C.
2. INTERIOR (MATING LINE) PERIMETER RAILS ARE DOUBLE 2X8 #2 SPF
3. SIDEWALL RAILS SINGLE 2X8 #2 S-P-F..
4. PORCH JOISTS ARE 2X6 #2 SYP PT, 16"

Palm Harbor Homes

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

Drawing Information

Model Number:	FOT3566J
Sales Name:	Eagle Ridge
Series:	Collins Craft On-Frame
Drawn by:	GRS
Date:	2/18/13
Notes:	####

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	R-3
ALLOWABLE NO. OF FLOORS	1
WIND VELOCITY	160 ult (3 sec)
FIRE RATING OF EXT. WALLS	0
PLAN NO.	2102-#####
ALLOW FLOOR LOAD	40
APPROVAL DATE	
MANUFACTURER	PHH
HIGH VELOCITY HURRICANE ZONE	NO

HWC

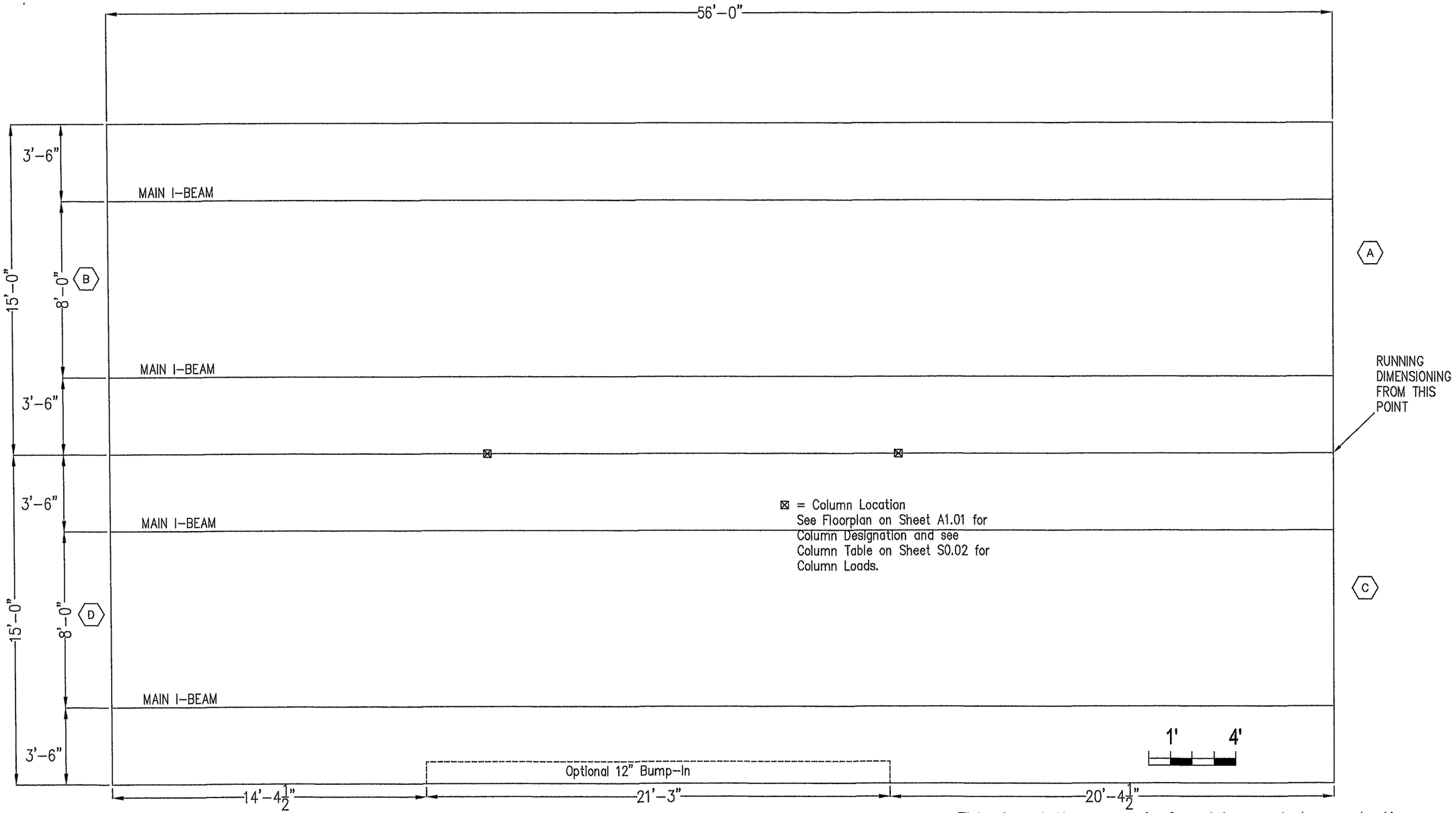
MUR 281

Sheet Title: FLOOR FRAMING FO

Sheet Number: S1.03

Sheet 1 of 28

Plan #: 2102-#####



Shear Wall Design Criteria

Wind Speed: 150 MPH (Vult)
Exposure: D Side Wall Ht (in.): 108 Max Elev (in.): 36
Framing 2x6

Shear Wall	Moment @ Bottom of Unit Floor
A	28,354
B	28,354
C	28,354
D	28,354

NOTE TO CONTRACTORS: 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 SERIALIZED PRINT. CONTACT YOUR FACTORY REPRESENTATIVE FOR A SERIALIZED COPY OF YOUR PROJECT.

This foundation page is for sizing and demonstrative purposes only. Actual foundation plan and details are designed by others. See Florida Modular Manual IM-120 On-Frame Foundation & Site Connection Single Story Ranch up to 120 mph(nominal)/140 mph(ultimate) for on frame foundation design criteria. For wind speeds of 130mph (nominal)/150 mph(ultimate) or 140 mph(nominal)/160 mph (ultimate) see Florida Modular Manual IM-140 On-Frame Foundaion and site Connection Single Story Ranch for on frame foundation design criteria.

Palm Harbor Homes

Plant Number 69

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605 S. Frontage Road
Plant City, Florida 33566

Drawing Information
Model Number: FOT3566J
Sales Name: Eagle Ridge
Series: Collins Craft On-Frame
Drawn by: GRS
Date: 2/18/13
Notes: ####

3rd Party

State

Sheet Title: TYP. ON-FRAME FOUNDATION
Sheet Number: F-1
Sheet 1 of 28
Plan #: 2102-#####