

RANCH STRUCTURAL SYSTEM

MODEL: SVM-12564
SUN VALLEY HOMEBUILDERS
4 BEDROOM 2.5 BATH
NOMINAL SIZE 47'-0" x 80'-0"
ACTUAL SIZE 45'-0" x 76'-0"
2520 Sq. Ft.

STATE FLORIDA
CODES

2020 National Electrical Code

8TH EDITION (2023) Florida Energy Efficiency Code for Building Construction (With 2024 Supplement 1)

FAC-61-41 MANUFACTURED BUILDINGS

8TH EDITION (2023) Florida Residential Code (With 2024 Supplement 1)

THESE PLANS COMPLY WITH RULE 61G20-3.006 FOR PRODUCT APPROVAL

DWELLING IS NOT SPRINKLED

CEILING HEIGHT: 8'-6" Max
MEAN ROOF HEIGHT: 20 FT

CLIMATE ZONE: 2

EXPOSURE FACTOR: C

SEISMIC ZONE C

These prints comply with the Florida Manufactured Building Act and adopted Codes and adhere to the following criteria:



Const. Type: VB
Occupancy: R
Allowable No. of Floors: 1
Wind Velocity: 160 MPH Vult
Fire Rating of Ext. Walls: 0
Plan No.: MFT-10186-SVM-12564
Allow. Floor Load: 30
Approval Date: 02/23/2026
Manufacturer: Deer Valley

SPECIAL CONDITIONS & REQUIREMENTS:

- Any site added structures must be independent of the factory building unless the entire building is re-evaluated by the site engineer/architect.
- Typical foundation layout shown in this package is to aid the site engineer/architect for locations of required supports. Actual foundation must be designed to site conditions for all applicable loads. This includes but is not limited to construction of the foundation, seismic design and attaching the home to the foundation, along with the resistance to lateral, longitudinal shear, uplift and downward forces in both directions. Refer to bracing page for applicable bracing / seismic loads for attaching the home to foundations.
- The Engineer seal applies ONLY to FACTORY MANUFACTURED portions of the building. Seal does not apply to site installed elements or portions built on site such as, but not limited to; foundation, bracing tie down to foundation, exterior steps, or other site work. Site work must be designed BY OTHERS for site conditions, under local jurisdiction.

STRUCTURAL SPECIFICATIONS INDEX

- A.01 COVER SHEET
- A.01.1 COVER SHEET
- A.02 TYPICAL NOTE-(FLOOR / ELECTRICAL / WINDOW)
- A.03 TYPICAL FLOOR PLAN/ ELECTRICAL
- A.04 RESERVED
- A.05 EXTERIOR ELEVATION
- A.06 TYPICAL PLUMBING LAYOUT
- A.06.1 DWV LINES
- A.06.2 SUPPLY LINES
- A.09 TYPICAL CROSS SECTION (OFF-FRAME) (RESERVED)
- A.09.1 TYPICAL CROSS SECTION (ON-FRAME)
- A.13 (RESERVED)
- A.13.1 (RESERVED)
- A.13.2 HVAC DETAILS(Free Return Air)
- A.14.0 FOUNDATION OFF FRAME (RESERVED)
- A.14.1 ALT. FOUNDATION ON FRAME (RESERVED)

Digitally signed by Nader Tomasbi
Date: 2026.02.20 16:29:33 -05'00'

FLORIDA BUILDING MAT.

- .01 SIMPSON LTS & LSTA & CS14
 - A. SIMPSON LTS- FL-10456.18-R8
 - B. SIMPSON CS14- FL-10456.3-R8
 - C. SIMPSON LSTA- FL-13872.5-R5
 - D. SIMPSON H2.5A- FL-10456.7-R8
 - E. SIMPSON HTS16- FL-10456.12 - R8
 - F. SIMPSON SDWC15600- FL-13975.3-R8
 - G. SIMPSON HDU FL-10441.4-R10
 - H. SIMPSON MSTC66- FL-13872.10-R5
- .03 OWENS CORNING SHINGLES
 - A. FL- 10674-R20
- .04 MFM SHINGLE STARTER
 - A. FL- 11842.1-R10
- .05 CROFT WINDOWS
 - A. FL- 16082.1-R9
- .06 DUNBARTON DOORS
 - A. FL- 15362 R4 (9-LITE)
 - B. FL- 15362.1 R4 (6 PANEL)
 - C. FL- 15362.3 R4 (ATRIUM)
- .07 CEMPLANK LAP SIDING
 - A. FL- 13192 -R8
- .09 CEMPLANK SIDING
 - A. FL- 13223 R8
- .09 CEMPLANK PANELS
 - A. FL- 13265.1-R7
- .10 VINYL SIDING
 - A. FL- 15935-R7



2/20/2026

DATE 02-23-2026 CERT. NO SMP-056
PLAN NUMBER MFT-10186-SVM-12564
APPROVED BY Michael Faller

Michael Faller

(signature)

Wind Importance Factor: 1.0
Internal Pressure Coefficient: 0.18

DESIGN CRITERIA

OCCUPANCY GROUP 1 & 2 FAMILY DWELLING
CONSTRUCTION TYPE WOOD FRAME UNPROTECTION

LOAD REQUIREMENTS

FLOOR LIVE LOAD 40 PSF
FLOOR DEAD LOAD 10 PSF
WIND SPEED (VULT-160MPH)(VASD-124MPH)

ROOF LIVE LOAD 20 PSF
ROOF DEAD LOAD 10 PSF TC, 10 PSF BC
WINDOW RATING DP 50 EXP. C

SITE INSTALLED ITEMS:

- NOTE THAT THIS LIST DOES NOT NECESSARILY LIMIT THE ITEMS OF WORK AND MATERIALS THAT MAY BE REQUIRED FOR A COMPLETE INSTALLATION. ALL SITE RELATED ITEMS ARE SUBJECT TO LOCAL JURISDICTION APPROVAL.
- THE COMPLETE FOUNDATION SUPPORT AND TIE DOWN SYSTEM.
 - RAMPS, STAIRS AND GENERAL ACCESS TO THE BUILDING.
 - PORTABLE FIRE EXTINGUISHER(S).
 - BUILDING DRAINS, CLEANOUTS, AND HOOK-UP TO PLUMBING SYSTEM.
 - ELECTRICAL SERVICE HOOK-UP (INCLUDING FEEDERS) TO THE BUILDING.
 - THE MAIN ELECTRICAL PANEL AND SUB-FEEDERS.
 - CONNECTION OF ELECTRICAL CIRCUITS CROSSING OVER MODULE MATING LINE(S) - (MULTI-UNITS ONLY).
 - STRUCTURAL AND AESTHETIC INTERCONNECTIONS BETWEEN MODULES (MULTI-UNITS ONLY).
 - EXTERIOR GLAZING PROTECTION.
 - GUTTERS & DOWN SPOUTS WHEN REQUIRED.
 - HVAC EQUIPMENT AND CONNECTIONS.
 - WASHER AND DRYER.
 - FIREPLACE FLUE.
 - MATELINE DOORS.
 - BUILDING SHALL BE OVER 5' AWAY FROM ALL PROPERTY LINES.
 - ALL PLUMBING BELOW FLOOR SYSTEM
 - SINGLE RIDGE CAP AND SET-UP OF FOLD DOWN TRUSS IF APPLICABLE
 - DRYER VENT TO BE RAN TO EXTERIOR
 - RETURN AIR SIZE MUST BE CHECKED FOR PROPER SIZE WITH HEAT PUMP INSTALLATION
 - PROTECTION OF OPENINGS: REF. R301.2.1.2 (IRC) PROVIDED ON-SITE BY OTHERS

ADDITIONAL SPECIAL CONDITIONS AND/OR LIMITATIONS AND/OR ITEMS SUBJECT TO LOCAL	
A. ELECTRICAL	D. STRUCTURAL
1. INTERCONNECTION BETWEEN MODULES.	1. THE DESIGN AND CONSTRUCTION OF THE FOUNDATION SYSTEM.
2. SERVICE ENTRANCE AND GROUNDING ELECTRODE CONDUCTORS.	2. COMPLETION OF EXTERIOR SIDING AT END WALLS.
3. FIRE WARNING EQUIPMENT IS TO BE TESTED FOR PROPER OPERATION SEE EQUIPMENT INSTRUCTIONS.	3. INSTALLATION OF GABLE OR RIDGE VENTS.
4. MECHANICAL WHOLE HOUSE VENTILATION TO BE FIELD INSTALLED PER TABLES M1507.3.3(1) AND M1507.3.3(2) OF THE 2015 IRC	4. CONNECTION OF FLOOR SYSTEM @ RIDGE.
	5. CONNECTION OF ROOF SYSTEM @ RIDGE.
	6. CONNECTION OF GROUND ANCHORS.
	7. PORCH RAILS ON SITE BY OTHERS PER THE (IRC R312).
	8. TRUSS OVER THE INTERIOR SHEAR WALL ARE TO BE SHEATHED WITH HINGED ROOFS SHEATHED HAS TO BE FINISHED ON SITE BY OTHERS.
	9. SIDING FOR ENDS IS SHIPPED LOOSE FOR ON-SITE INSTALLATION BY OTHERS.
	10. HANDRAILS, STOOPS, STAIRS, GUTTERS, DOWNSPOUTS, STORM SHUTTERS OR REMOVABLE TYPE COVERINGS AND SPLASH BLOCKS ARE FURNISHED AND INSTALLED BY OTHERS IN ACCORDANCE WITH STATE AND LOCAL CODES.
B. PLUMBING	
1. ALL PIPING CROSSOVER CONNECTIONS BELOW FLOOR.	
2. WITNESS LEAKAGE TEST OF GAS, DWG AND WATER SUPPLY SYSTEMS.	
3. CONNECTION TO GAS, SEWER AND WATER UTILITIES.	
4. WITH HINGE ROOF PLUMBING MUST BE FINISHED ON SITE BY OTHERS.	
5. OFF FRAME HOUSE ALL GAS APPLIANCE WILL HAVE TO BE PLUMBED ON SITE BY OTHERS.	
C. HEATING	
1. CROSS-OVER CONNECTION BETWEEN UNITS.	
2. RETURN AIR CONNECTIONS HAVE TO BE HOOKED UP IF REQUIRED.	
3. A DUCT TIGHTNESS TEST IS REQUIRED TO BE PERFORMED ON SITE AND SHALL BE VERIFIED BY EITHER OF THE FOLLOWING :	
POST-CONSTRUCTION TEST: LEAKAGE TO OUTDOORS SHALL BE LESS THEN OR EQUAL TO 8CFM(226.5min) PER 100 f2 (9.29m2) OF CONDITIONED FLOOR AREA WHEN TESTED AT A PRESSURE DIFFERENTIAL OF TOTAL LEAKAGE LESS THAN OR EQUAL TO 12 cfm (12 Min) PER 100/FT2 (9.29 M2) OF CONDITIONED FLOOR ARE WHEN TESTED AT A PRESSURE DIFFERENTIAL OF 0.1 INCHES W.G. (25Pa) ACROSS THE ENTIRE SYSTEM, INCLUDING THE MANUFACTURER'S AIR HANDLER ENCLOSURE. ALL REGISTER BOOTHS SHALL BE TAPED OR OTHERWISE SEALED DURING THE TEST.	

REVISIONS	CUSTOMER:	APPROVAL STAMP:	Nader Tomasbi, P.E. 58665 Glenriver Drive Goshen IN 46526	DEER VALLEY HOMEBUILDERS, INC. SIGNATURE SERIES RANCH STRUCTURAL SYSTEM	APPROVED BY: J. TRIPLETT	SCALE: NTS
				DEER VALLEY HOMEBUILDERS, INC. 205-468-8400 P.O. Box 310 / 205 Carriage St. Guin, Alabama 35563	PRINT DATE: 02/10/26	REV:
					TITLE: COVER SHEET	
				MOD	MODEL: SVM-12564	DWG. NO:
					MODEL: MFT-10186-SVM-12564	A.01

These prints comply with the Florida Manufactured Building Act and adopted Codes and adhere to the following criteria:

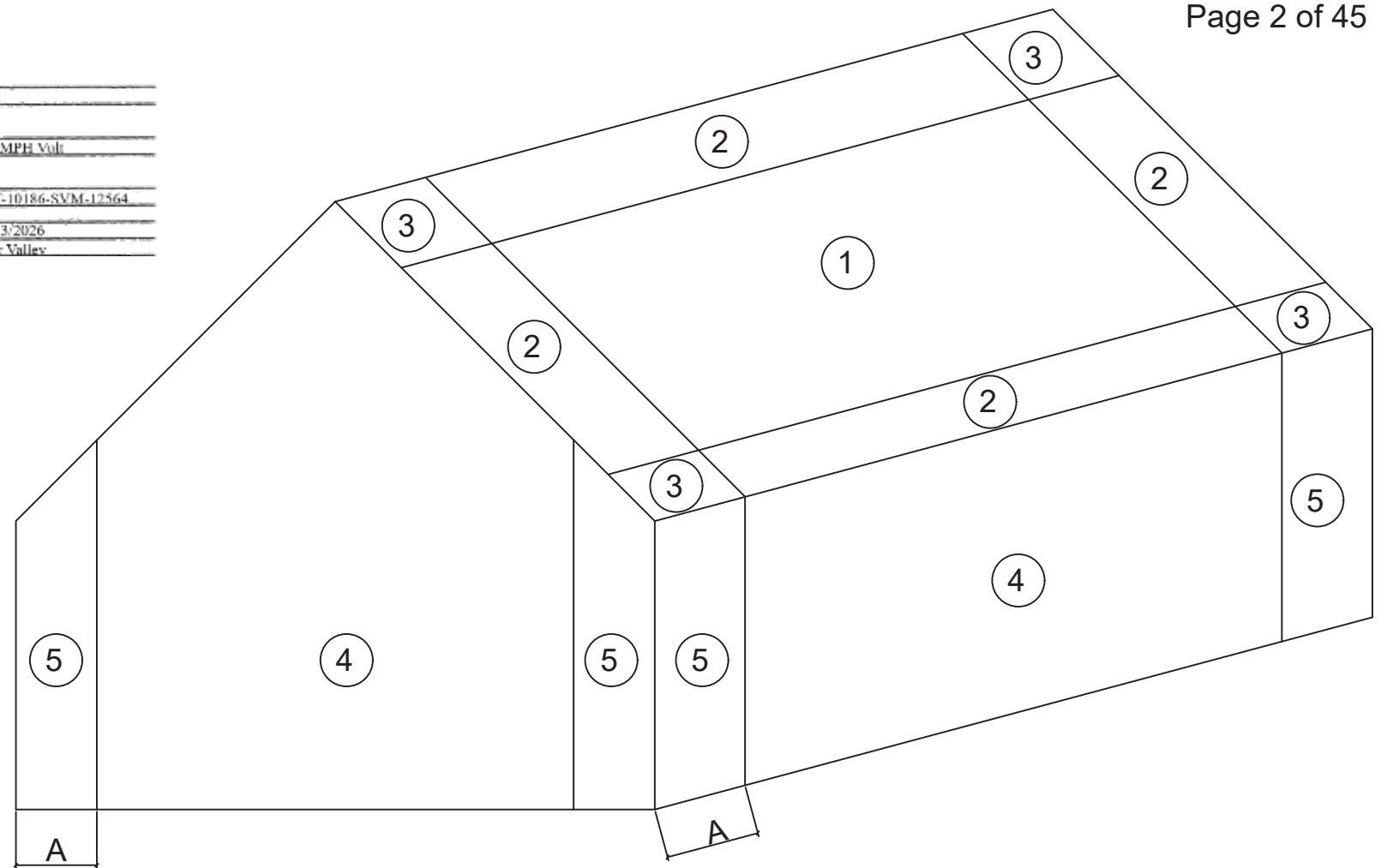


Const. Type: VB
 Occupancy: R
 Allowable No. of Floors: 1
 Wind Velocity: 160 MPH Vult
 Fire Rating of Ext. Walls: 0
 Plan No.: MFT-10186-SVM-12564
 Allow. Floor Load: 30
 Approval Date: 02/23/2026
 Manufacturer: Deer Valley

SITE INSTALLED ITEMS:

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

1. THE COMPLETE FOUNDATION SUPPORT AND TIE DOWN SYSTEM.
2. RAMPS, STAIRS AND GENERAL ACCESS TO THE BUILDING.
3. PORTABLE FIRE EXTINGUISHER(S).
4. BUILDING DRAINS, CLEANOUTS, AND HOOK-UP TO PLUMBING SYSTEM.
5. ELECTRICAL SERVICE HOOK-UP (INCLUDING FEEDERS) TO THE BUILDING.
6. THE MAIN ELECTRICAL PANEL AND SUB-FEEDERS.
7. CONNECTION OF ELECTRICAL CIRCUITS CROSSING OVER MODULE MATING LINE(S) - (MULTI-UNITS ONLY).
8. STRUCTURAL AND AESTHETIC INTERCONNECTIONS BETWEEN MODULES (MULTI-UNITS ONLY).
9. EXTERIOR GLAZING PROTECTION.
10. GUTTERS & DOWN SPOUTS WHEN REQUIRED.
11. HVAC EQUIPMENT AND CONNECTIONS.
12. WASHER AND DRYER.
13. FIREPLACE FLUE.
14. MATELINE DOORS.
15. BUILDING SHALL BE OVER 3' AWAY FROM ALL PROPERTY LINES.
16. ALL PLUMBING BELOW FLOOR SYSTEM
17. SINGLE RIDGE CAP AND SET-UP OF FOLD DOWN TRUSS IF APPLICABLE
18. DRYER VENT TO BE RAN TO EXTERIOR
19. RETURN AIR SIZE MUST BE CHECKED FOR PROPER SIZE WITH HEAT PUMP INSTALLATION



NOTES:

1. THESE PLANS COMPLY WITH RULE 61G20-3.006 FOR PRODUCT APPROVAL
2. THE RAISED SEAL SET OR ELECTRONIC SEALED SET) OF PLANS ARE ON FILE IN THE 3 RD PARTY AGENCY'S OFFICE AS DIRECTED BY THE DBPR
3. THIS BUILDING IS SUBJECT TO REVIEW AND APPROVAL OF THE FIRE INSPECTOR ON SITE WITH COMPLIANCE WITH CH.633 FIRE SAFETY CODE.
4. THIS STRUCTURE HAS BEEN DESIGNED FOR ERECTION OR INSTALLATION ON SITE BUILT PERMANENT FOUNDATION AND IS NOT DESIGNED TO BE MOVED ONCE SO ERECTED OR INSTALLED.
5. BUILDING ADDRESS AS REQUIRED BY FRC R319.1 TO BE INSTALLED ON SITE BY OTHERS
6. BUILDING HAS NOT BEEN DESIGNED OR APPROVED FOR PLACEMENT IN HIGH VELOCITY HURRICANE ZONES (HVHZ).

COMPONANTS & CLADDING DESIGN LOAD SCHEDULE (7<D>30.26DEGREES)		
EXPOSURE FACTOR: C		
VULT PRESSURES		
ZONE	(+)	(-)
1	32.58	-59.70
2	32.58	-65.70
3	32.58	-80.46
4	35.58	-38.58
5	35.58	-47.64
2		-89.82
3		-104.58



2/20/2026

REVISIONS	CUSTOMER:	APPROVAL STAMP:	DEER VALLEY HOMEBUILDERS, INC. SIGNATURE SERIES RANCH STRUCTURAL SYSTEM	APPROVED BY: J. TRIPLETT	SCALE: NTS
				PRINT DATE: 02/10/26	REV:
			DEER VALLEY HOMEBUILDERS, INC. 205-468-8400 P.O. Box 310 / 205 Carriage St. Guin, Alabama 35563	TITLE: COVER SHEET	
			MOD	MODEL: SVM-12564	DWG. NO: A.01.1
				MODEL: MFT-10186-SVM-12564	

NOTES:

- LIGHT AND VENTILATION PROVIDED WILL BE IN ACCORDANCE WITH 8% OF THE ROOM AREA FOR LIGHT AND 4% OF THE ROOM AREA FOR VENTILATION.
ROOMS: DINING ROOMS, FAMILY ROOMS, DENS, BEDROOMS, FOR DOOR AND WINDOW SIZES SEE SPEC. (SEE PAGE A.02.)
- INDIVIDUAL COMPONENTS IN WHOLE OR IN PART SUCH AS LIVING LINEN AND CLOTHES CLOSETS, UTILITY AREAS, STAIRWELLS, BATHS, KITCHENS, ETC. MAY BE INTEGRATED WITH ANY FLOOR PLAN. THEY MAY BE ROTATED 90 DEGREES AND/OR REVERSED IN ANY DIRECTION, IN PART OR IN THEIR ENTIRETY.
- ALL FLOOR PLANS MAY BE ROTATED 180 DEGREES AND/OR REVERSED IN ANY DIRECTION, IN PART OR IN THEIR ENTIRETY.
- ALL INDIVIDUAL FLOOR PLANS WILL BE WITHIN THE DIMENSIONAL LIMITS SHOWN ON THIS DRAWING.
- OVERALL DIMENSIONS OF HOME WILL VARY ACCORDING TO THICKNESS OF SHEATHING MATERIAL INSTALLED TO THE EXTERIOR SURFACE OF EXTERIOR WALLS AND TO EXTERIOR SURFACE OF THE MARRIAGE WALLS OF EACH HOME SECTION.
- EGRESS WINDOWS SHALL HAVE A MIN. CLEAR WIDTH OF 20" AND A MIN. CLEAR HEIGHT OF 24" WITH A TOTAL CLEAR OPENING OF 5.7 SQ.FT. WINDOW GUARDS ARE PROVIDED AND INSTALLED BY OTHERS WHEN NEEDED PER THE CURRENT IRC
- MINIMUM ROOM SIZE IS 70 SQ.FT. WITH A 7'-0" MIN. DIMENSION AND 1 ROOM AREA OF AT LEAST 120 SQ.FT.
- LABELS SHALL BE LOCATED AS FOLLOWS: STATE INSIGNIA, DATA PLATE, AND THIRD PARTY LABELS SHALL BE LOCATED ON THE WALL BELOW THE KITCHEN SINK. ADDITIONAL THIRD PARTY LABELS TO BE LOCATED IN SECONDARY BEDROOM CLOSET.
- OPTIONAL FIREPLACES MAY BE ADDED, PROVIDING THEY MEET ALL REQUIREMENTS OF IRC/MECHANICAL CODE AND INSTALLED PER MANUFACTURERS INSTALLATION INSTRUCTIONS.
- EXTERIOR DOORS MAY BE RELOCATED IN SAME ROOM TO DIFFERENT AREA
- WINDOWS MAY BE REARRANGED OR A WINDOW MAY BE ADDED PER IECC
- CLOTHES DRYER EXHAUST ON SITE BY OTHERS.
- ALL EXHAUST AIR FROM RANGE HOODS AND BATHROOM VENTS SHALL BE VENTED TO THE EXTERIOR.
- ATTIC ACCESS OPENING SHALL BEAR A MINIMUM DIMENSION OF 22" X 30" WITH A VERTICAL HEIGHT OF 30". (R807.1). THE ACCESS HOLE MUST BE INSULATED TO THE SAME R-VALUE AS REQUIRED FOR THE ROOF/CEILING CONSTRUCTION PER THE CURRENT IECC.
- ALL SOURCES OF POSSIBLE AIR INFILTRATION ARE REQUIRED TO BE CAULKED, GASKETED, WEATHERSTRIPPED, WRAPPED, OR OTHERWISE SEALED TO LIMIT AIR MOVEMENT.
- CONSTRUCTION DOCUMENTS TO BE KEPT ON JOB SITE

18. SMOKE-DEVELOPED INDEX. WALL AND CEILING FINISHES SHALL HAVE A SMOKE-DEVELOPED INDEX OF NOT GREATER THAN 450 CARBON MONOXIDE DETECTORS CO SHALL BE UL 2034 COMPLIANT

KITCHEN					100
MBA					50
BATH 2					50
BATH 3					50

DESCRIPTION	LIGHT	VENT	R.O.	SF-(MAX)	U-FACTOR	SHGC
30 X 40	5.64	2.69	8.33	66 SF	.30	.22
36 X 40	6.80	3.24	10	81 SF	.30	.22
48 X 40	7.96	3.94	13.3	98 SF	.30	.22
24 X 72	8.09	3.95	12	98.5 SF	.30	.22
36 X 72	13.49	7.14	18	164 SF	.30	.22
48 X 72	16.18	7.9	24	197 SF	.30	.22
66 X 40	15.76	6.61	18.3	164 SF	.30	.22
12 X 36 (TRANSOM)	1.28	N/A	3	N/A	.30	.22
12 X 30 (TRANSOM)	1.00	N/A	2.5	N/A	.30	.22
12 X 60 (TRANSOM)	2.25	N/A	5	N/A	.30	.22

DESCRIPTION	LIGHT	VENT	R.O.	SF-(MAX)	DP-RATING	
					EXP-B	47.2
* 3680 (STORM w/OPEN SLIDER)	11.9	5.7	21.10	142 SF	EXP-C	50.0
3680 (6 PANEL)	N/A	N/A	21.10			.00
3680 (9 LITE & ROUNDTOP)	5.50	N/A	21.10			.17
3680 (15 LITE)	9.78	N/A	21.10			.24
3680 (3/4 OVAL)	3.78	N/A	21.10			.16
3680 (FULL OVAL)	7.78	N/A	21.10			.27
3680 (STORM)	17.18	N/A	21.10		N/A	N/A
13 X 80 (FULL or 1/2 SIDELITE)	4.00/2.00	N/A	7.50	N/A	N/A	N/A
75 X 80 (ATRUIM DOOR) w/SCREEN	19.60	20.0	43.11	245 SF	.35	.30
72 X 80 (SGD) W/SCREEN	32.61	15.49	39.08	387 SF	.31	.27
106 X 80 (3 PANEL SGD) W/SCREEN	59.93	24.54	58.88	N/A	.27	.21
120 X 80 (4 PANEL SGD) W/SCREEN	39.75	15.84	66.66	N/A	.27	.21

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APPROVED BY **NIA INC.**

Const. Type: VB
 Occupancy: R
 Allowable No. of Floors: 1
 Wind Velocity: 160 MPH Vult
 Fire Rating of Ext. Walls: 0
 Plan No.: MFT-10186-SVM-12564
 Allow. Floor Load: 40
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ELECTRIC CIRCUIT SCHEDULE

CIR. NO.	PURPOSE	AMPS (POLES)	VOLTS	WIRE SIZE	CIR. NO.	PURPOSE	AMPS (POLES)	VOLTS	WIRE SIZE
1	SMALL APPLIANCES	20 (1)	120	12	20	LAUNDRY (WASHER)	20 (1)	120	12
2	BATHS	20 (1)	120	12	21	DRYER	30 (2)	240	10
3	SMALL APPLIANCES	20 (1)	120	12	22	SMOKE DETECTORS	15 (1)	120	14
4	SMALL APPLIANCES	20 (1)	120	12	23	WATER HEATER	25 (2)	240	10
5	OPT. DISHWASHER	20 (1)	120	12	24	EXTRA FURNACE	****	****	****
6	GENERAL PURPOSE	20 (1)	120	12	25	GENERAL PURPOSE	20 (1)	120	12
7	WATER HEATER	25 (2)	240	10	26	GENERAL PURPOSE	20 (1)	120	12
8	GENERAL PURPOSE	20 (1)	120	12	27	GENERAL PURPOSE	20 (1)	120	12
9	MICROWAVE	20 (1)	120	12	28	GENERAL PURPOSE	20 (1)	120	12
10	GENERAL PURPOSE	20 (1)	120	12	29	GENERAL PURPOSE	20 (1)	120	12
11	FURNACE	****	****	****	30	GENERAL PURPOSE	20 (1)	120	12
12	GENERAL PURPOSE	20 (1)	120	12	31	EXTERIOR RECEPT.	20 (1)	120	12
13	OPT. UTILITY	20 (1)	120	12	32	EXTRA	20 (1)	120	12
14	RANGE/COOKTOP	40 (2)	240	8	33	EXTRA	20 (1)	120	12
15	WALL OVEN	40 (2)	240	8	34	EXTRA	20 (1)	120	12
16	GENERAL PURPOSE	20 (1)	120	12	35	EXTRA	20 (1)	120	12
17	UTILITY/FREEZER	20 (1)	120	12	36	EXTRA	20 (1)	120	12
18	GENERAL PURPOSE	20 (1)	120	12	37	EXTRA	20 (1)	120	12
19	GENERAL PURPOSE	20 (1)	120	12	38	SMALL APPLIANCES	20 (1)	120	12

- NOTE:
 1) RECEPT REQ'D IN HALLWAYS OVER 10' MIN. IN LENGTH.
 2) ALL ELECTRICAL WIRING TO BE IN COMPLIANCE WITH N.E.C. PER STATE REQUIREMENT.
 3) TWO EXTERIOR G.F.I./WP RECEPTS REQUIRED. ONE LOCATED ON THE FRONT OF THE HOME, AND ONE LOCATED ON THE REAR OF THE HOME.
 4) ALL BRANCH CIRCUITS THAT SUPPLY 125 VOLT, SINGLE PHASE 15-20 amp OUTLETS INSTALLED IN DWELLING UNIT BEDROOMS SHALL BE PROTECTED BY AFCI LISTED TO PROVIDE PROTECTION OF THE ENTIRE BRANCH CIRCUIT.
 5) KITCHEN COUNTERTOP SWITCHES AND RECEPTS ARE TO BE DIRECTLY ABOVE OR WITHIN 12" OF COUNTERTOP.
 6) ALL BOX SIZING IN COMPLIANCE WITH N.E.C. PER STATE REQUIREMENT.
 7) SMOKE DETECTORS SHALL BE INSTALLED OUTSIDE OF EACH SEPERATE SLEEPING AREA AND MUST BE INSTALLED IN EACH BEDROOM. AT LEAST ONE (1) SMOKE DETECTOR MUST BE INSTALLED ON EACH LEVEL, INCLUDING BASEMENTS. ALL SMOKE DETECTORS WITHIN A DWELLING UNIT SHALL BE AC/DC AND INTERCONNECTED TO PROVIDE SIMULTANEOUS ACTIVATION, AND SHALL RECEIVE POWER FROM A BATTERY WHEN PRIMARY POWER INTERRUPTED.
 8) ALL ELECTRICAL CONDUCTORS AND EQUIPMENT SHALL BE LISTED OR LABELED BY A NATIONALLY RECOGNIZED TESTING LABORATORY AND IN COMBINATION WITH LISTING AND LABELING, CONDUCTORS AND EQUIPMENT SHALL BE SUITABLE FOR LOCATION AND USE.
 9) IN MODELS WITHOUT UPSTAIR UTILITY AREA, APPLIANCES SUCH AS WATER HEATERS, WASHERS, AND DRYERS ARE LOCATED IN BASEMENT AND FIELD WIRED BY OTHERS.
 10) WHEN PANEL BOX IS NOT LOCATED ON OR DIRECTLY ADJACENT TO EXTERIOR WALL OF HOME, A SERVICE DISCONNECT MUST BE INSTALLED ON SITE AT THE NEAREST POINT OF ENTRANCE OF SERVICE CONDUCTORS. THIS INFORMATION MUST OCCUR ON THE DATA PLATE OF HOMES WHERE SUCH CONDITIONS EXIST.
 11) BUILDER/DEALER TO SUPPLY AND INSTALL ALL MATERIALS NOT PROVIDED BY MANUFACTURERS FOR COMPLETE ELECTRICAL HOOK-UP.
 12) ALL RECEPTS IN BATHROOMS AND EXTERIOR OF HOME SHALL BE PROTECTED BY G.F.I. WHIRLPOOL TUBS ON A SEPERATE BREAKER AND GFI PROTECTED.
 13) ALL RECEPTS ABOVE COUNTERTOPS TO BE PROTECTED BY G.F.I.
 14) ELECTRICAL SERVICE TO BE GROUNDED IN FIELD BY OTHERS AFTER CIRCUITS HAVE BEEN COMPLETED ACCORDING TO LOCAL REQUIREMENTS.
 15) NON-METALIC SHEATHED CABLE SHALL BE SECURED IN PLACE AT INTERVALS NOT EXCEEDING 4 1/2" AND WITHIN 12" FROM EVERY CABINET, BOX OR FITTING.
 16) NON-METALIC SHEATHED CABLE PASSING THRU FRAMING MEMBER WITHIN 1 1/4" OF THE EDGE OF SUCH FRAMING MEMBER ARE PROTECTED WITH A 1/16" THICK STEEL BUSHING. CABLE PASSING THRU NOTCHES ARE PROTECTED WITH 1/16" THICK STUD STEEL PLATES.
 17) SURFACE MOUNTED INCANDESCENT FIXTURES INSTALLED ON THE WALL ABOVE THE DOOR OR ON THE CEILING PROVIDED THER IS A MINIMUM CLEARANCE OF 12" BETWEEN THE FIXTURE AND THE NEAREST POINT OF A STORAGE AREA. NEC-410-8(d)(1)
 18) ANY LIGHT LOCATED IN A WET LOCATION MUST BE OF THE ENCLOSED & GASKETED TYPE LISTED FOR WET LOCATIONS.
 19) CARBON MONOXIDE ALARMS SHALL BE INSTALLED OUT SIDE OF SEPERATE SLEEPING AREA IN THE IMMEDIATE VICINITY OF THE BEDROOM IN DWELLING UNITS WITHIN WHICH FUEL-FIRED APPLIANCES ARE INSTALLED AND IN DWELLING UNITS THAT HAVE ATTACHED GARAGES.(R315.1)
 20) RECESSED LUMINARY LIGHTS, FAN MOTERS AND OTHER HEAT PRODUCING DEVICES SHALL HAVE COMBUSTIBLE INSULATION SPACED A MINIMUM OF 3" FROM HEAT SOURCE

LEGEND

SWITCH LEG

LISTED AND APPROVED FOR OVER TUB

LIGHT (FLUORESCENT)

SERVICE PANEL

SWITCH JUNCTION BOX

RECEPTACLE

RECEPTACLE 20 AMP

WEATHER PROOF RECEPT

NM CONNECTOR

RECEPTACLE 220 V

LIGHT (INCANDESCENT)

PROGRAMMABLE THERMOSTAT

EXHAUST FAN

EXHAUST FAN & LIGHT

SMOKE ALARM

CO = CARBON MONOXIDE
PE = PHOTO ELECTRIC

FURNACE

WATER HEATER

LOAD CALCULATION Worst Case 30'-0" x 86'-0"

2580 SF x 3 Watts / 1000 7.74 KW

3 APPL. CIRCUITS 4.5 KW

1 RANGE CIRCUIT 12.0 KW

1 LAUNDRY CIRCUIT 1.5 KW

1 WATER HEATER CIRCUIT 4.5 KW

1 DRYER CIRCUIT 5.0 KW

1 WASHER CIRCUIT 1.5 KW

1 GAS FURNACE MOTOR 1.0 KW

1 DISHWASHER 1.4 KW

1 RANGE HOOD VENT FAN .25 KW

4 BATHROOM VENT FAN .40 KW

1 HYDRO-MASSAGE TUB 2.0 KW

TOTAL LOAD: 41.79 KW

1 HEATING EQUIPMENT: 24 kw (@ 65%) 15.6 KW

1 COOLING EQUIPMENT: 10.5 kw (@ 100%) 10.5 KW

10 kVA X 100% 10.0

(41.79- 10.0) = 31.79 X 40% 12.72

HVAC EQUIPMENT (MAX. Heating or Cooling) 15.6

DESIGN TOTAL: 38.32 KVA

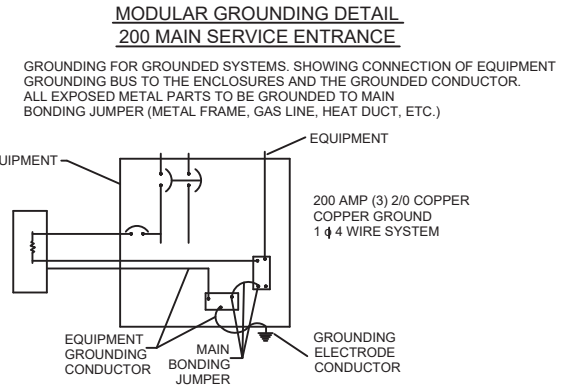
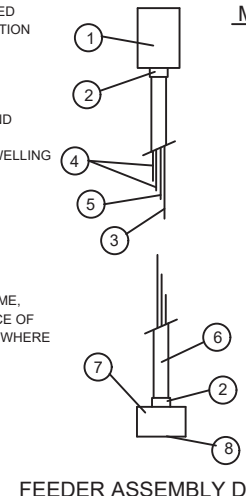
(38.32 / 240-Volts) x 1000 TOTAL AMPS: 159.66 Amps

Install 200 Amp (MIN), 120/240-Volt, Single Phase, Ele. Service Panel

MANUFACTURERS SPECIFICATIONS

- SERVICE PANEL 200 AMP
- SET CONNECTOR FOR CONDUIT
- NEUTRAL CONDUCTOR-WHITE NO. 2/0 THW-COP.
- MAIN CONDUCTOR-RED AND BLACK 2/0 MCM-THW-CU.
- GROUND CONDUCTOR-GREEN NO. 4 THW-COP.
- 2" CONDUIT-EMT PVC OR EQUAL.
- 12 x 12 x 4 WEATHER PROOF BOX-SCREW COVER.
- SOLDERLESS CONNECTORS
- #4 GROUNDING ELECTRODE CONDUCTOR

NOTE: SERVICE CONNECTION TO POWER SOURCE SHALL BE PROVIDED BY OTHERS.



2/20/2026

NO.	DESCRIPTION
--	--

DEER VALLEY HOMEBUILDERS, INC. SIGNATURE SERIES RANCH STRUCTURAL SYSTEM

DEER VALLEY HOMEBUILDERS, INC. 205-468-8400 P.O. Box 310 / 205 Carriage St. Guin, Alabama 35563

APPROVED BY: **J. TRIPLETT** SCALE: **NTS**

PRINT DATE: **02/10/26** REV: **--**

TITLE: **TYPICAL NOTES**

MODEL: **SVM-12564** DWG. NO. **A.02**

MODEL: **MFT-10186-SVM-12564**

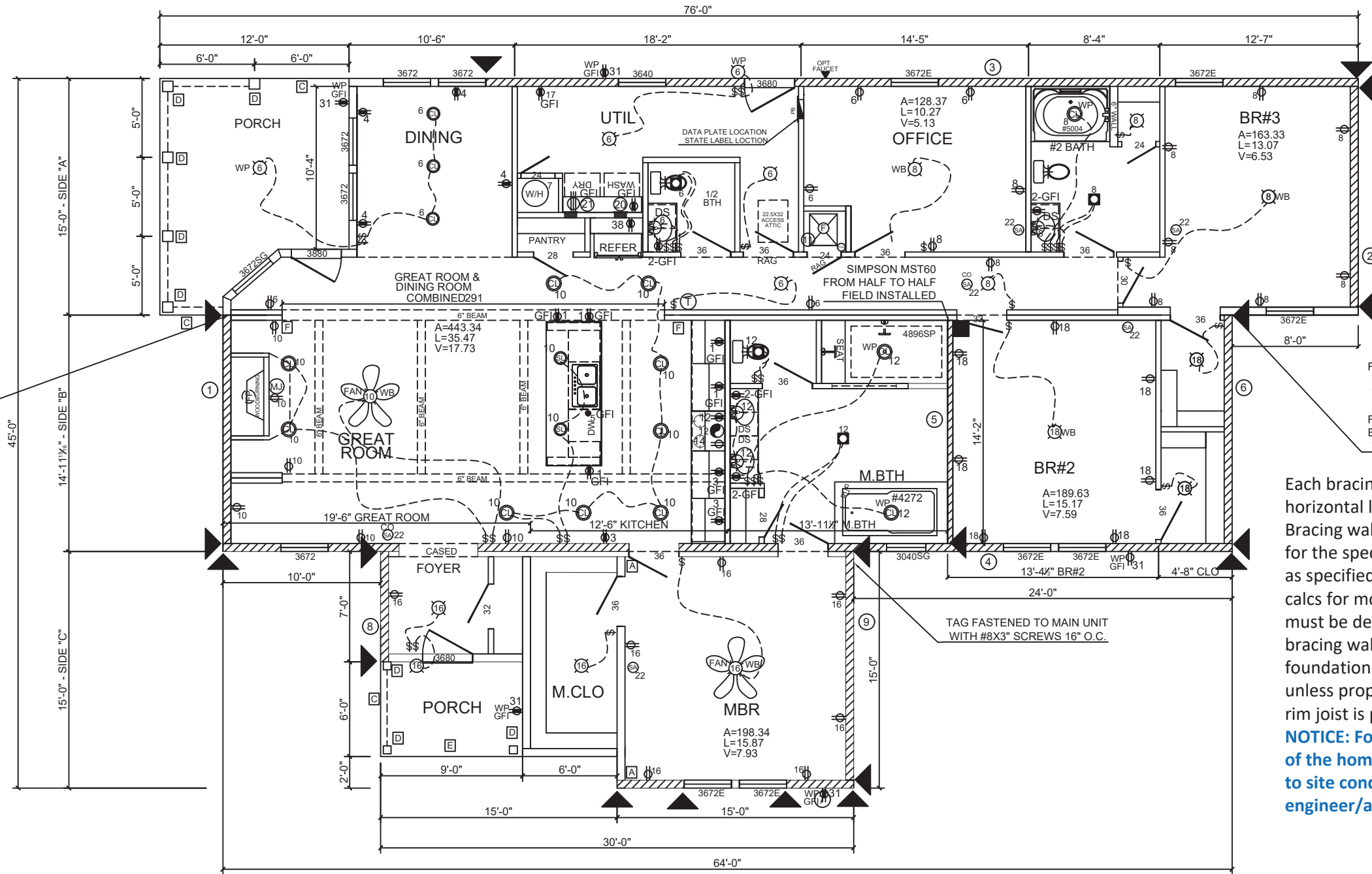
These prints comply with the Florida Manufactured Building Act and adopted Codes and adhere to the following criteria:

APPROVED BY
NIA INC.

Const. Type: VB
Occupancy: R
Allowable No. of Floors: 1
Wind Velocity: 160 MPH Vult
Fire Rating of Ext. Wall: 0
Plan No.: MFT-10186-SVM-12564
Allow. Floor Load: 30
Approval Date: 02/23/2026
Manufacturer: Deer Valley

FASTEN 6.75/12 TRUSS TOP CHORD TO TOP CHORD OF THE SINGLE SECTION TRUSS WITH 8D COMMON NAILS AT 6" O.C.

FASTEN VERTICAL SHEATHING TO BOTH TRUSS TOP CHORDS WITH 8D COMMON NAILS AT 6" O.C.



FASTEN 6.75/12 TRUSS TOP CHORD TO TOP CHORD OF THE SINGLE SECTION TRUSS WITH 8D COMMON NAILS AT 6" O.C.

FASTEN VERTICAL SHEATHING TO BOTH TRUSS TOP CHORDS WITH 8D COMMON NAILS AT 6" O.C.

Each bracing wall in this page is marked with a horizontal load (PLF) and a racking (uplift) load. Bracing walls must be attached to the foundation for the specified horizontal PLF load & racking loads as specified at noted locations (refer to bracing calcs for more information). Racking tie downs must be designed to extend from foundation to bracing wall studs. Tie down connections from foundation wall to rim joist are not permissible unless proper fastening from bracing wall studs to rim joist is provided.

NOTICE: Foundation for this home and connection of the home to the foundation must be designed to site conditions for all applicable loads by site engineer/architect.

- A** 1.5"x16" LVL EACH HALF W/ (4) LSTA18 STRAPS FASTENED W/ (7) 10D NAILS EACH END OF STRAP ATTACHED TO (4) #3 2X4 SPF STUDS
- F** 1.5"x24" LVL EACH HALF W/ (5) LSTA18 STRAPS FASTENED W/ (7) 10D NAILS EACH END OF STRAP ATTACHED TO (5) #3 2X4 SPF STUDS
- D** ATTACH POST TO HEADER AND POST TO FLOOR W/ (10) SIMPSON SDWC15600 SCREWS EACH
- C** ATTACH TRUSS TO (5) 2X6 #2 SYP OR SPF PORCH HEADER WITH (2) SDWC15600 SCREWS.
- E** ATTACH TRUSS TO (5) 2X8 #2 SYP OR SPF PORCH HEADER WITH (2) SDWC15600 SCREWS.
- HDU8-SDS2.5 W/ (20) 1/4" X2 1/2 SDS (REQ. 4.5" MIN WOOD THICKNESS)**

**ASTM C557 APPROVED ADHESIVE MEETING 100 PLF MIN. SHEAR RESISTANCE WHEN INSTALLED IN ACCORDANCE WITH THE ADHESIVE MFG USAGE INSTR.										2" O.C. SHEATHING FASTENING TO BE STAGGERED WITH DOUBLE FRAMING AT ADJOINING PANEL EDGES			ROOF DIAPHRAGM NOTES:					
										SIDE 1			SIDE 2			SHALL BE 7/16" RATED SHEATHING (MIN.)		
NO.	LENGTH	PLF	UPLIFT	MATERIAL	FASTENER	SPACING	CS14 STRAPS	MATERIAL	FASTENER	SPACING	JOIST	FASTEN SHEATHING TO ROOF FRAMING WITH:						
1	15.00	503	4.3K	7/16" OSB	.131" X 2 1/2" NAILS	3" OC	2 PER ▲	1/2" GYP	#6X1 5/8" SCREWS (GLUED & SCREWED)	6" OC EDGE 12" OC FEILD	2	MAIN UNIT						
2	10.83	181	2.3K	7/16" OSB	.131" X 2 1/2" NAILS	4" OC	1 PER ▲	1/2" GYP	#6X1 5/8" SCREWS (GLUED & SCREWED)	6" OC EDGE 12" OC FEILD	2	.131X2.5" NAILS FASTENED 6" O.C.						
3	42.99	149	1.3K	7/16" OSB	.131" X 2 1/2" NAILS	4" OC	1 PER ▲	1/2" GYP	** GLUED FOR 100 PLF MIN SHEAR	N/A	2	UNBLOCKED						
4	40.59	229	2.1K	7/16" OSB	.131" X 2 1/2" NAILS	4" OC	2 PER ▲	1/2" GYP	** GLUED FOR 100 PLF MIN SHEAR	N/A	2	UNBLOCKED						
5	15.00	602	5.2K	7/16" OSB	.131" X 2 1/2" NAILS	2" OC	3 PER ▲	1/2" GYP	#6X1 5/8" SCREWS (GLUED & SCREWED)	6" OC EDGE 12" OC FEILD	2	TAG UNIT						
6	15.00	274	2.3K	7/16" OSB	.131" X 2 1/2" NAILS	4" OC	1 PER ▲	1/2" GYP	#6X1 5/8" SCREWS (GLUED & SCREWED)	6" OC EDGE 12" OC FEILD	2	.131X2.5" NAILS FASTENED 6" O.C.						
7	8.50	279	2.5K	7/16" OSB	.131" X 2 1/2" NAILS	4" OC	2 PER ▲	1/2" GYP	** GLUED FOR 100 PLF MIN SHEAR	N/A	2	UNBLOCKED						
8	7.00	475	4.3K	7/16" OSB	.131" X 2 1/2" NAILS	4" OC	2 PER ▲	1/2" GYP	#6X1 5/8" SCREWS (GLUED & SCREWED)	6" OC EDGE 12" OC FEILD	2	UNBLOCKED						
9	15.00	222	2.0K	7/16" OSB	.131" X 2 1/2" NAILS	4" OC	1 PER ▲	1/2" GYP	#6X1 5/8" SCREWS (GLUED & SCREWED)	6" OC EDGE 12" OC FEILD	2	UNBLOCKED						

DEER VALLEY HOMEBUILDERS, INC.
SIGNATURE SERIES
RANCH STRUCTURAL SYSTEM
MOD

DEER VALLEY HOMEBUILDERS, INC.
205-468-8400
P.O. Box 310 / 205 Carriage St.
Guin, Alabama 35563

REVISIONS	
APPROVED BY: J. TRIPLETT	SCALE: NTS
PRINT DATE: 02/03/26	REV: --
TITLE: TYPICAL FLOOR PLAN	
MODEL: SVM-12564	DWG. NO. A.03
MODEL: MFT-10186-SVM-12564	

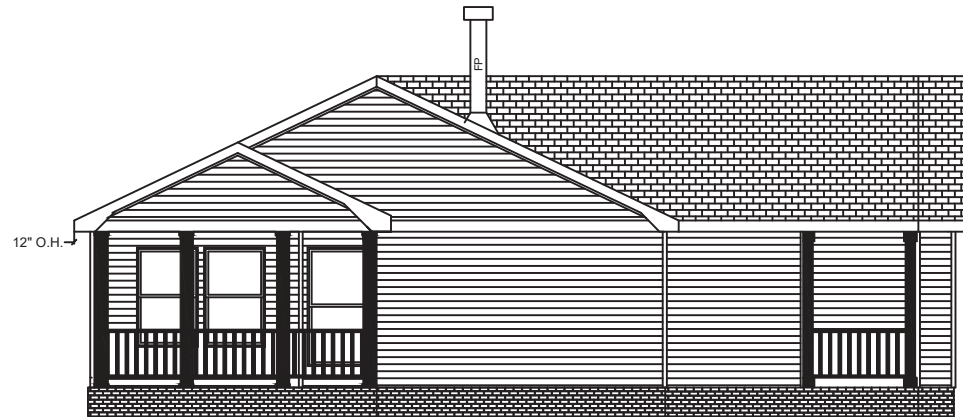
These prints comply with the Florida Manufactured Building Act and adopted Codes and adhere to the following criteria:



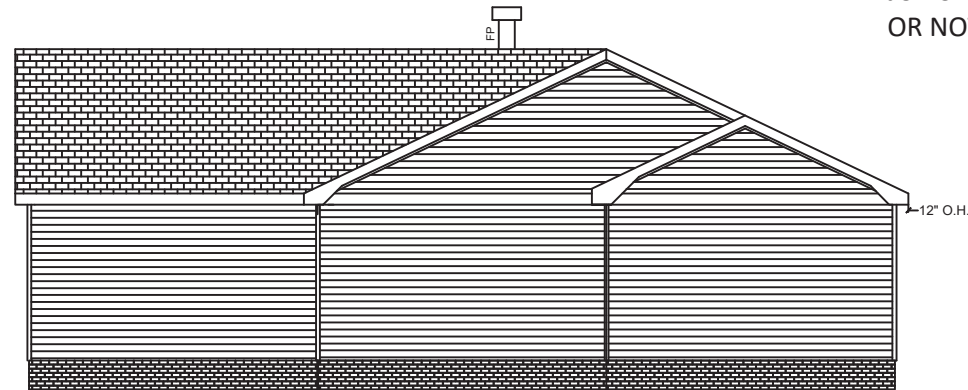
Const. Type: VB
 Occupancy: R
 Allowable No. of Floors: 1
 Wind Velocity: 160 MPH Valt
 Fire Rating of Ext. Walls: 0
 Plan No.: MFT-10186-SVM-12564
 Allow. Floor Load: 30
 Approval Date: 02/23/2026
 Manufacturer: Deer Valley



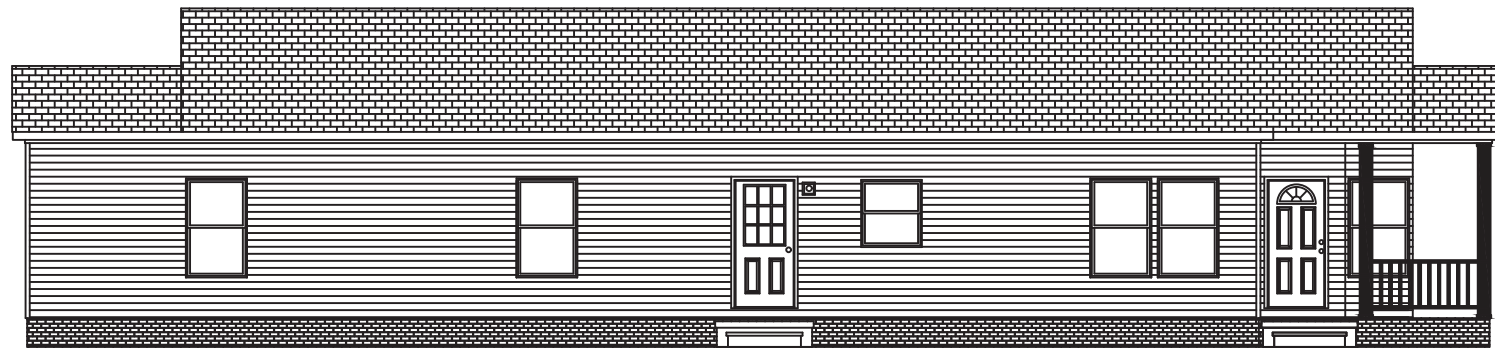
FRONT ELEVATION



LEFT ELEVATION



RIGHT ELEVATION



REAR ELEVATION

ELEVATIONS SHOWN ON THIS PAGE REPRESENT BASIC COMPONENTS AND ARE NOT INTENDED TO BE ALL INCLUSIVE, NOR DO THESE ELEVATIONS DETAIL EVERY CODE REQUIRED ASPECT OF THIS BUILDING. SITE BUILT STOOPS, STEPS, DECKS, PORCHES, HANDRAILS AND/OR SIMILAR ITEMS MUST BE PROVIDED BY OTHERS ON SITE FOR COMPLIANCE WITH APPLICABLE CODES. COMPLIANCE WITH ALL APPLICABLE CODES PER LOCAL AUTHORITY HAVING JURISDICTION, WHETHER DETAILED IN THIS SET OR NOT, MUST BE MET.



2/20/2026

NOTES

1. ALL ITEMS ARE COMPLETED IN THE MANUFACTURING FACILITY UNLESS NOTED OTHERWISE.
- * 2. SIDING FOR ENDS IS SHIPPED LOOSE FOR ON SITE INSTALLATION BY OTHERS.
- * 3. HANDRAILS, STOOPS, STAIRS, GUTTERS, DOWNSPOUTS, STORM SHUTTERS OR REMOVABLE TYPE COVERINGS, AND SPLASH BLOCKS ARE FURNISHED AND INSTALLED BY OTHERS IN ACCORDANCE WITH STATE AND LOCAL CODES.
4. ALL ELEVATIONS ARE SHOWN WITH 2.16 TO 7/12 ROOF PITCH.
5. WINDOWS ARE SIZED PER WINDOW SCHEDULE AND VARY FROM FLOORPLAN TO FLOORPLAN.
- * 6. ALL FOUNDATION WORK IS COMPLETED ON SITE BY OTHERS.
7. ALL DRAIN, AND WASTE VENTS SHALL TERMINATE A MINIMUM OF 12" ABOVE THE ROOF LINE.
8. PATIO DOORS ARE AVAILABLE PER FLOOR PLAN.
9. SIDING SHOWN IS 4", OTHER SIZES ARE AVAILABLE.
10. SHUTTERS ARE STANDARD ON THE FRONT AND RIGHT SIDE OF THE HOME, AND MAY BE OPTIONED FOR THE REAR AND LEFT SIDE.
11. TERMINATION HEIGHT OF METAL CHIMNEYS SHALL BE A MIN. 3'-0" ABOVE THE HIGHEST POINT WHERE THEY PASS THRU THE ROOF AND A MINIMUM OF 2'-0" HIGHER THAN ANY PORTION OF A BUILDING WITHIN 10'-0". THE CHIMNEY IS TO BE SITE INSTALLED.
12. ATTIC ROOF SPACE VENTILATION SHALL BE 1/300 OF ROOF AREA WITH UPPER HALF PROVIDING MIN.50%-MAX 80% OF THE VENTILATION. 1/300 OF ATTIC AREA. 1/150 AT ROOF VENTS. 1/150 AT EAVE.
13. ROOF COVERING (SHINGLES) SHALL MEET THE REQUIREMENTS OF ASTM D 3161.
14. Crawlspace Access min. 18" x 24" location may vary.
15. Minimum crawlspace ventilation required must be 1/150 of crawlspace and within 3' of each corner and must meet all local code requirements. Access min. 18" x 24".

* ITEMS INSTALLED ON SITE BY OTHERS
 For future garage siding to be removed and the garage shall be completely separated from the adjacent interior spaces and attic by means of 5/8" gypsum board or equiv. applied to the garage by owner.
 * A 1 3/8" steel door W/A 20 min. fire rating shall be used between garage and residence. The sills for these doors shall be raised not more than 4" above the garage door.

REVISIONS	

APPROVED BY:	J. TRIPLETT	SCALE:	NTS
PRINT DATE:	02/10/26	REV:	--
TITLE:	EXTERIOR ELEVATIONS		
MODEL:	SVM-12564	DWG. NO.:	A.05
MODEL:	MFT-10186-SVM-12564		

DEER VALLEY HOMEBUILDERS, INC.
 SIGNATURE SERIES
 RANCH STRUCTURAL SYSTEM

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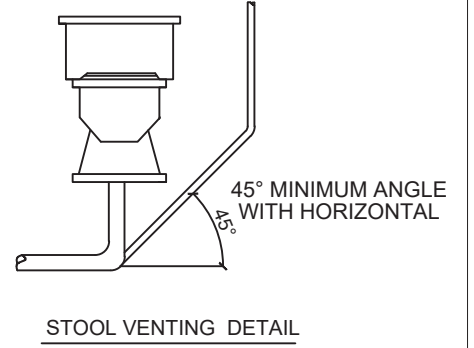
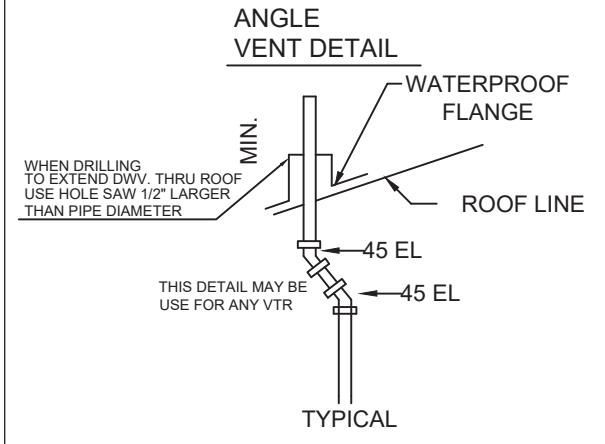
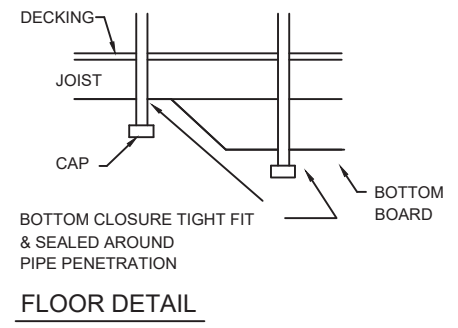
MOD

DRAIN SIZE	TRAP ARM LENGTH PER 1/4" SLOPE
1-1/4"	5'-0"
1-1/2"	6'-0"
2"	'8-0"
3"	'12-0"
4"	'16-0"

NOTES:
 (A) = INLET WITH CAP & CHAIN.
 (B) = 3/4 RELIEF DRAIN THRU FLOOR.
 ALL WATER LINES 1/2" UNLESS OTHERWISE SHOWN.

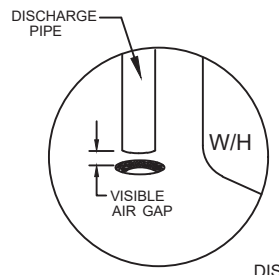
PIPING SUPPORT	
HOT & COLD FLEXIBLE	MAX. SPACING HORZ.&VERT.
3/4" & 1"	2'-8"

* WATER DISTRIBUTION PIPE
 PEX WATER LINES AND FITTINGS
 (OPT. COPPER WATER LINES TYPE M)



< SPECIFY IF NOTE APPLIES TO MANUFACTURER

- NOTE:
- 1) MAXIMUM FLOW RATE TO BE 2.2 GPM FOR FAUCETS @60 PSI AND 2.5 GPM FOR SHOWERS @ 80 PSI.
 - 2) DRAINWASTE AND VENT LINES PVC SHALL MEET ASTM D2665-89a REQUIREMENTS.
 - 3) WATER DISTRIBUTION SYSTEM PIPING MAY BE POLYBUTYLENE, CPVC, COPPER, GALV. STEEL OR PEX
 - 4) DRAIN LINE SLOPE TO BE 1/4" MIN./FT.
 - 5) VACUUM BREAKS TO BE INSTALLED ON HOSE BIBBS, AND FROST FREE SILLOCKS.
 - 6) AN ADEQUATELY RATED PRESSURE AND TEMPERATURE RELIEF VALVE IS TO BE PROVIDED FOR WATER HEATER.
 - 7) FOR EACH DWELLING, MIN (1) 3" MAIN VENT UNDIMINISHED IN SIZE THRU ROOF
 - 8) ALL VENT STACKS LESS THAN 3" I.D. WHICH PASS THROUGH ROOF SHALL INCREASE TO 3' I.D. AT A POINT 12" MIN. BELOW ROOF LINE AND EXTEND TO A POINT 12" MIN. ABOVE ROOF LINE. 3" I.D. CONTINUOUS STACKS SHALL TERMINATE 12" MIN. ABOVE ROOF LINE IN FROST PRONE AREAS.
 - 9) TUBS MAY NOT BE WET VENTED DOWNSTREAM OF WATER CLOSET.
 - 10) HEIGHT OF WATERPROOFING IN TUB AND SHOWER SPACE 6-0 MIN. ABOVE FLOOR
 - 11) PLASTIC PIPE SHALL BE SUPPORTED EVERY 4-0 HORIZONTALLY AND VERTICALLY
 - 12) BATH TUBS AND SHOWERS ARE LISTED BY AN APPROVED AGENCY
 - 13) MODELS WITH BASEMENTS MAY LOCATE WASHER IN BASEMENT TO BE CONNECTED ON SITE BY OTHERS.
 - 14) HORIZONTAL TO VERTICAL CONNECTION TO BE WITH SANITARY TEES
 - 15) HORIZONTAL TO HORIZONTAL AND VERTICAL TO HORIZONTAL CONNECTIONS TO BE MADE WITH LONG TURN OR TEE WYE FITTINGS.
 - 16) PRESSURE TEMPERATURE RELIEF VALVE SHALL PIPE TO A VISIBLE AIR GAP AT FLOOR IN THE SAME SPACE AS WATER HEATER. WHEN WATER HEATER IS ON FIRST OR SECOND FLOOR A PAN SHALL BE PROVIDED & ITS DRAIN SHALL PIPE BELOW FIRST FLOOR. DRAIN SHALL PIPE & DISCHARGE INDIRECTLY TO A HAZARD FREE POINT.
 - 17) MAX. DISTANCE OF FIXTURE TRAP TO VENT 1 1/2 IS 3-6, 2" IS 5-0, 3" IS 6-0
 - 18) AIR ADMITTANCE VALVES ARE PERMITTED WHEN INSTALLED ACCORDING TO THEIR LISTING. LA, KY, IL, DOESN'T ALLOW AIR ADMITTANCE
 - 19) ALL HORIZONTAL VENT BRANCH PIPING SHALL BE LOCATED A MINIMUM OF SIX (6) INCHES ABOVE THE FLOOD LEVEL OF THE HIGHEST FIXTURE SERVED IN THAT BRANCH.
 - 20) FIXTURES HAVING CONCEALED CONNECTIONS SHALL BE ARRANGED TO MAKE THE CONNECTIONS ACCESSIBLE FOR INSPECTION AND REPAIR.
 - 21) ALL PLUMBING SHALL BE TESTED IN PLANT AND NO PLUMBING SHALL BE COVERED OR CONCEALED BEFORE BEING TESTED.
 - 22) WATER CLOSET SHALL BE 1.6 GALLONS PER FLUSH (MAXIMUM)
 - 23) PLASTIC PIPING SHALL BE PROTECTED WITH A STEEL PLATE (18 GA. MIN.) WHEN PIPE PASSES THROUGH WOOD MEMBERS LESS THAN 1-1/4 INCH FROM THE EDGE OF MEMBERS.
 - 24) ANTI-SCALD DEVICES REQUIRED ON ALL TUB/SHOWER DIVERTERS. (DELTA #R1300-IP-TP, ASME A112.18.1M, ASSE 1016).
 - 25) PIPING SHALL BE FIRE STOPPED WHERE REQUIRED WITH MATERIALS EQUIVALENT TO CONSTRUCTION WHICH IT PENETRATES AND BE SUITABLE TO PIPE MATERIAL.
 - 26) CONCEALED PIPING IN UNHEATED AREAS INCLUDING OUTSIDE WALLS SHALL BE PROTECTED AGAINST FREEZING IN PLANT.
 - 27) IN-PLANT FIXTURE DRAINS AND ALL OPEN PIPE SHALL BE PROTECTED (CAPPED) AND LABELED FOR TRANSPORT
 - 28) JOIST NOTCHES SHALL NOT EXCEED 1/6 OF JOIST DEPTH AND SHALL NOT OCCUR IN MIDDLE 1/3 OF SPAN HOLES SHALL NOT EXCEED 1/3 DEPTH OF JOIST AND MUST OCCUR 2" FROM EITHER EDGE
 - < 29) SHUT OFF VALVES ON ALL FIXTURES (OPTIONAL)
 - < 30) ALL PLUMBING IS TYPICALLY INSTALLED FOR EACH MODULE AT THE TIME OF MANUFACTURE. CERTAIN CIRCUMSTANCES MAY NECESSITATE SOME FIXTURE DRAINS TO BE STUBBED THROUGH FLOOR IN WHICH CASE HOOK-UP AND MATERIALS ARE PROVIDED ON SITE BY OTHERS. FLOOR SYSTEMS WHICH DO NOT ALLOW FOR PLANT INSTALLED PLUMBING, ARE MANUFACTURED WITH ALL PLUMBING RISERS STUBBED THROUGH FLOOR IN WHICH CASE ALL MATERIALS FOR COMPLETION AND INSTALLATION ARE PROVIDED ON SITE BY OTHERS. NOTE: STUB-THROUGH PLUMBING IS AVAILABLE ON ALL FLOOR SYSTEMS.
 - < 31) WATER HEATER IN BASEMENT TO BE FIELD INSTALLED BY OTHERS
 - < 32) A WATER HAMMER ARRESTOR SHALL BE INSTALLED WHERE QUICK CLOSING VALVES ARE UTILIZED. THE ARRESTOR SHALL BE LOCATED WITHIN AN EFFECTIVE RANGE OF THE QUICK CLOSING VALVE. ACCESS SHALL BE PROVIDED TO THE WATER HAMMER ARRESTORS.



DISCHARGE FROM A RELIEF VALVE SHALL BE TO A WASTE PIPING SYS. SPECIFICALLY DESIGNED FOR SUCH USE, OR TO A PAN W/DRAIN TO A DRAIN IN THE FLOOR. THIS WILL ALSO BE TRAPPED AND VENTED DRAIN. SUBJECT TO LOCAL JURISDICTION

SERVICE COVERS MUST BE ACCESSIBLE

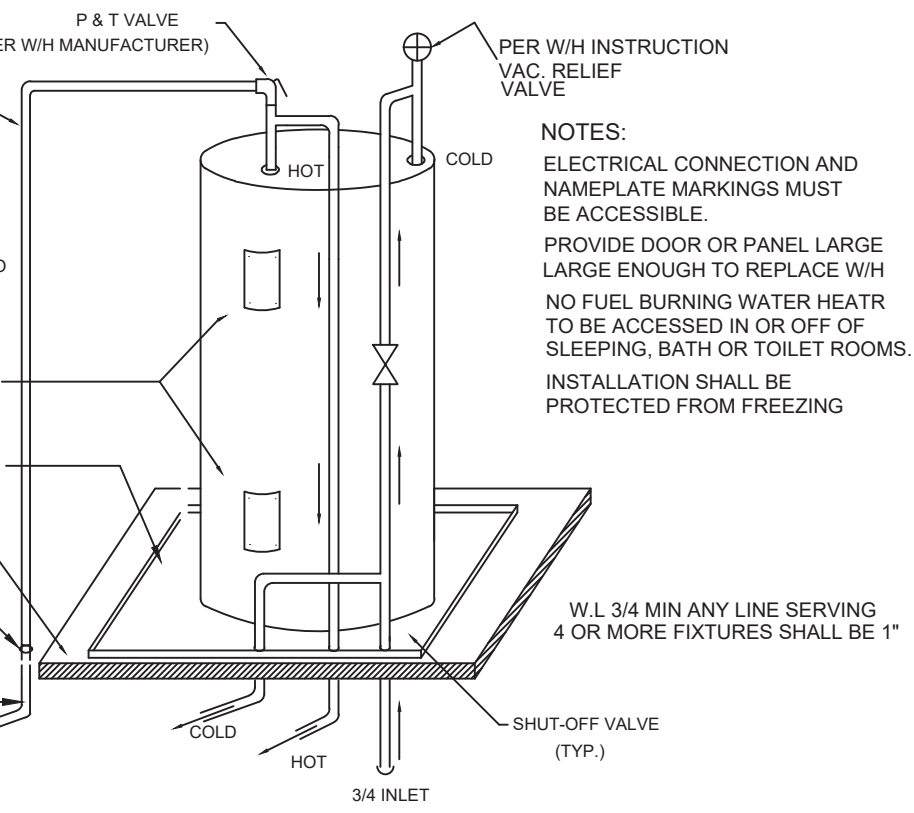
HOT WATER PAN WITH DRAIN TO EXTEND TO EXTERIOR OF HOME (METAL PAN FOR FUEL BURNING W/H)

FLOOR DECKING

AIRGAP

TO EXTEND TO EXTERIOR OF HOME INSTALLED ON-SITE BY OTHER

TYPICAL WATER HEATER DETAIL

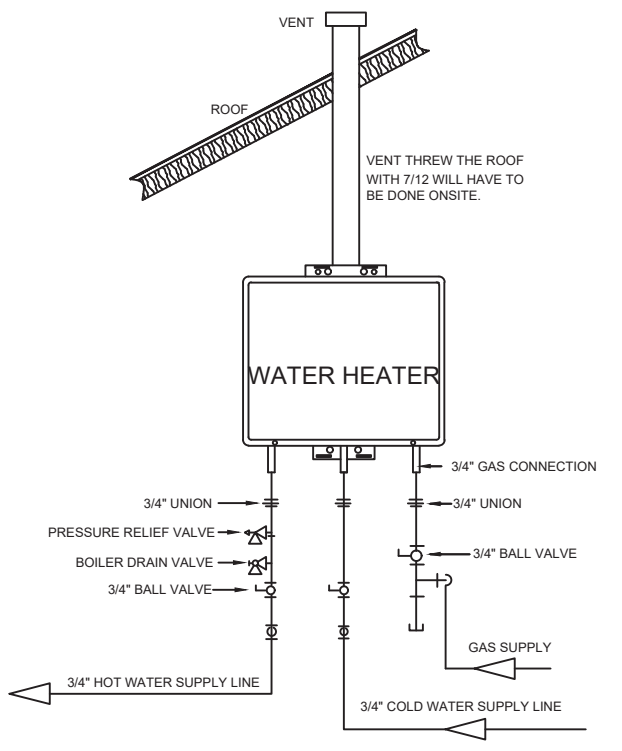


NOTES:
 ELECTRICAL CONNECTION AND NAMEPLATE MARKINGS MUST BE ACCESSIBLE.
 PROVIDE DOOR OR PANEL LARGE ENOUGH TO REPLACE W/H
 NO FUEL BURNING WATER HEATR TO BE ACCESSED IN OR OFF OF SLEEPING, BATH OR TOILET ROOMS.
 INSTALLATION SHALL BE PROTECTED FROM FREEZING

SHOWN FOR MAIN OR FIRST OR SECOND FLOOR APPLICATION
 WATER LINE BASED ON PRESSURE RANGE 50 TO 60PSI



OPT. GAS TANKLESS WATER HEATER



REVISIONS			
APPROVED BY:	SCALE:	NTS	
PRINT DATE:	REV:	REV. DATE:	
TITLE:	TYPICAL PLUMBING LAYOUT		
MODEL:	MFT-10186-SVM-12564		DWG. NO:
MODEL:			A.6

DEER VALLEY HOMEBUILDERS, INC.
 SIGNATURE SERIES
 RANCH STRUCTURAL SYSTEM

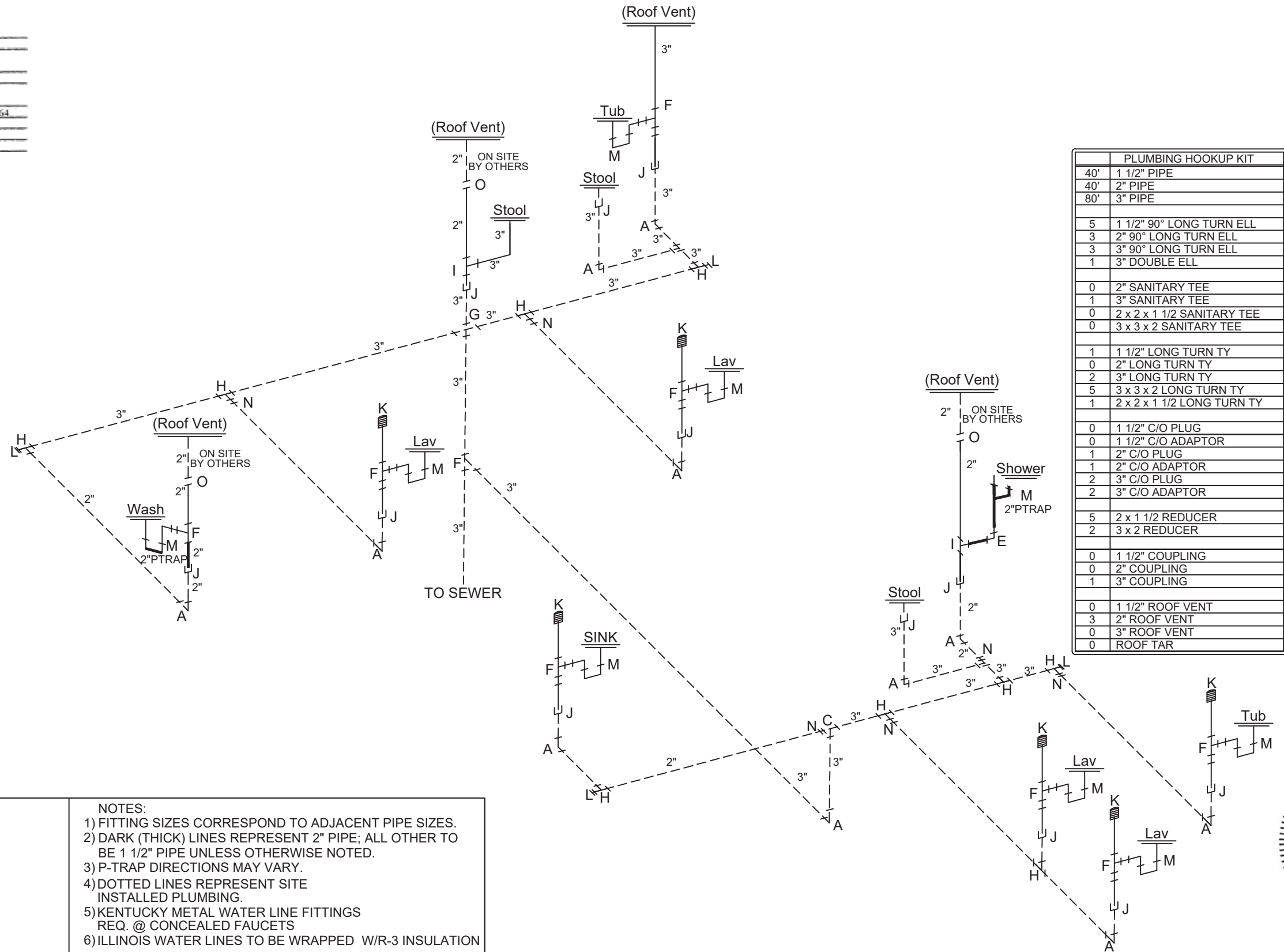
DEER VALLEY HOMEBUILDERS, INC.
 205-468-8400
 P.O. Box 310 / 205 Carriage St.
 Guin, Alabama 35563

MOD

These prints comply with the Florida Manufactured Building Act and adopted Codes and adhere to the following criteria:



Const. Type:	VB
Occupancy:	R
Allowable No. of Floors:	1
Wind Velocity:	160 MPH Vult
Fire Rating of Ext. Walls:	0
Plan No.:	MFT-10186-SVM-12564
Allow. Floor Load:	40
Approval Date:	02/23/2026
Manufacturer:	Deer Valley



PLUMBING HOOKUP KIT	
40'	1 1/2" PIPE
40'	2" PIPE
80'	3" PIPE
5	1 1/2" 90° LONG TURN ELL
3	2" 90° LONG TURN ELL
3	3" 90° LONG TURN ELL
1	3" DOUBLE ELL
0	2" SANITARY TEE
1	3" SANITARY TEE
0	2 x 2 x 1 1/2 SANITARY TEE
0	3 x 3 x 2 SANITARY TEE
1	1 1/2" LONG TURN TY
0	2" LONG TURN TY
2	3" LONG TURN TY
5	3 x 3 x 2 LONG TURN TY
1	2 x 2 x 1 1/2 LONG TURN TY
0	1 1/2" C/O PLUG
0	1 1/2" C/O ADAPTOR
1	2" C/O PLUG
1	2" C/O ADAPTOR
2	3" C/O PLUG
2	3" C/O ADAPTOR
5	2 x 1 1/2 REDUCER
2	3 x 2 REDUCER
0	1 1/2" COUPLING
0	2" COUPLING
1	3" COUPLING
0	1 1/2" ROOF VENT
3	2" ROOF VENT
0	3" ROOF VENT
0	ROOF TAR

- NOTES:
- 1) DOTTED LINES REPRESENT SITE INSTALLED PLUMBING.
 - 2) ALL FITTINGS AND PIPE NECESSARY FOR PROPER CONNECTION OF THE DWV SYSTEM ARE INCLUDED IN THIS KIT. ANY VARIATION FROM THIS DESIGN RESULTING IN A SHORTAGE OF MATERIAL SHALL BE THE INSTALLER'S RESPONSIBILITY.
 - 3) ALL PIPING MUST BE SUPPORTED AT INTERVALS NOT EXCEEDING 4'-0".
 - 4) DRAIN PIPES MUST HAVE A MIN. SLOPE OF 1/4" PER FOOT (1/8" PER FOOT WITH CLEAN-OUT).
 - 5) AIR GAPS ARE REQUIRED FOR ALL DISHWASHERS.
 - 6) AIR ADMITTANCE VALVES ARE NOT REQUIRED IN ILLINOIS.
 - 7) ANY PLUMBING ON THE HINGED ROOF AREA WILL HAVE TO BE EXTENDED THROUGH THE ROOF ON-SITE BY OTHERS.

NOTES:

- 1) FITTING SIZES CORRESPOND TO ADJACENT PIPE SIZES.
- 2) DARK (THICK) LINES REPRESENT 2" PIPE; ALL OTHER TO BE 1 1/2" PIPE UNLESS OTHERWISE NOTED.
- 3) P-TRAP DIRECTIONS MAY VARY.
- 4) DOTTED LINES REPRESENT SITE INSTALLED PLUMBING.
- 5) KENTUCKY METAL WATER LINE FITTINGS REQ. @ CONCEALED FAUCETS
- 6) ILLINOIS WATER LINES TO BE WRAPPED W/R-3 INSULATION

DWV FITTING LEGEND			
90° LONG TURN ELL	A	B	45° ST. ELL
DOUBLE ELL	C	D	90° CLOSET ST. ELL
90° LONG TURN ST. ELL	E	F	SANITARY TEE
DOUBLE SANITARY TEE	G	H	LONG TURN TY
45° Y	I	J	CAP & CHAIN
MECHANICAL VENT	K	L	CLEAN OUT PLUG
P-TRAP	M	N	REDUCER BUSHING
COUPLING	O	P	

REVISIONS	

DEER VALLEY HOMEBUILDERS, INC.
SIGNATURE SERIES
RANCH STRUCTURAL SYSTEM

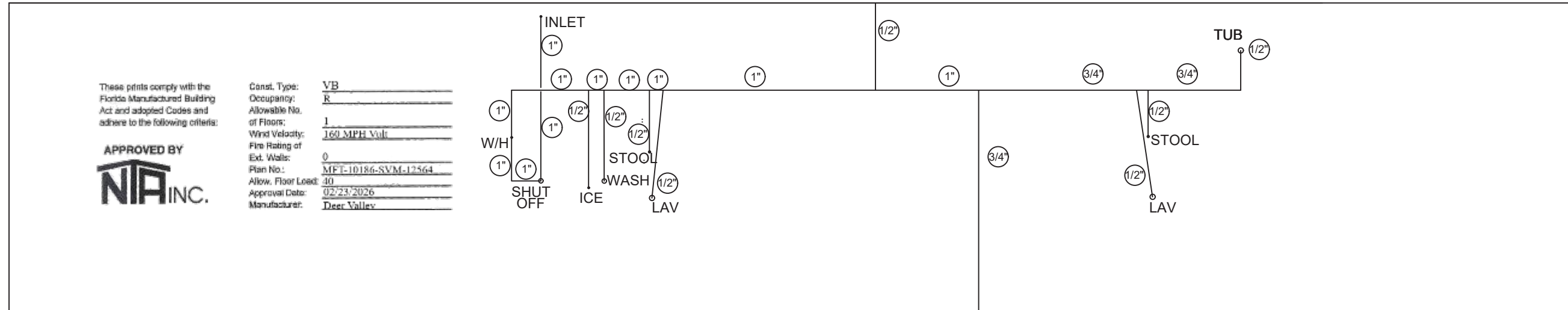
DEER VALLEY HOMEBUILDERS, INC.
205-468-8400
P.O. Box 310 / 205 Carriage St.
Guin, Alabama 35563

MOD

APPROVED BY:	J. TRIPLETT	SCALE:	NTS
PRINT DATE:	02/10/26	REV. DATE:	
TITLE:	DRAIN LINE PLUMBING LAYOUT		
MODEL:	SVM-12564	DWG. NO.:	
MODEL:	MFT-10186-SVM-12564		A.6.1



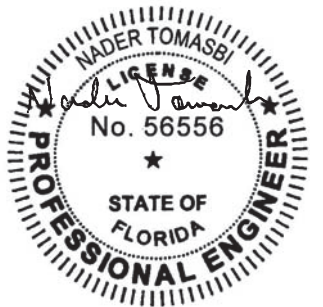
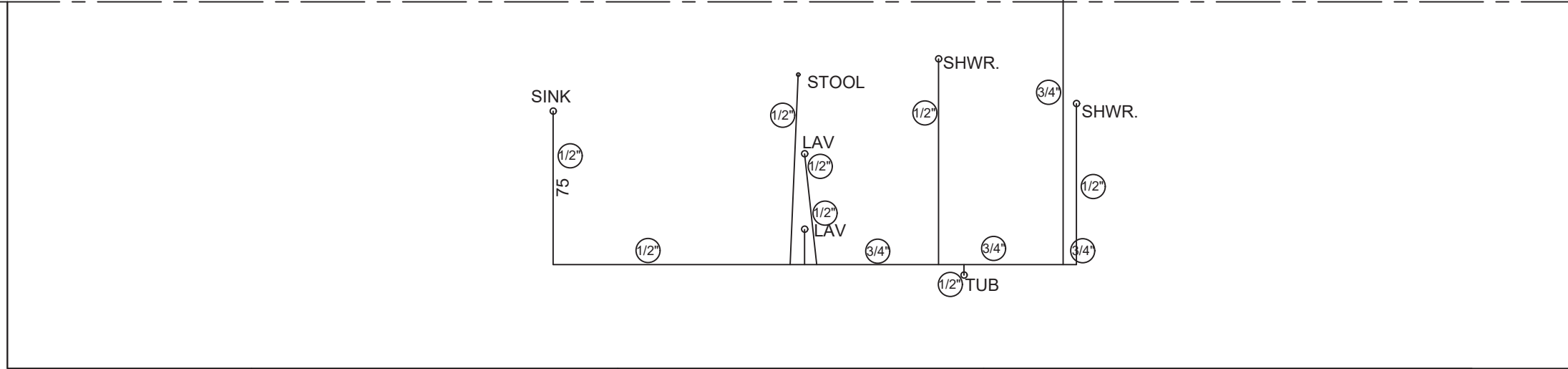
2/20/2026



These prints comply with the Florida Manufactured Building Act and adopted Codes and adhere to the following criteria:

APPROVED BY
 NIA INC.

Const. Type: VB
 Occupancy: R
 Allowable No. of Floors: 1
 Wind Velocity: 160 MPH Valt
 Fire Rating of Ext. Walls: 0
 Plan No.: MFT-10186-SVM-12564
 Allow. Floor Load: 40
 Approval Date: 02/23/2026
 Manufacturer: Deer Valley



2/20/2026

- 1) FITTING SIZES TO CORRESPOND TO ADJACENT PIPE SIZES.
- 2) COPPER, CPVC, OR OTHER APPROVED OR LISTED MATERIAL MAY BE USED.
- 3) ALL SIZING OF PIPE + OR -, MUST MEET OR EXCEED ANY APPLICABLE CODES.
- 4) PEX LINES MUST BE SUPPORTED 32" OC MAXIMUM.
- 5) COLD AS SHOWN, HOT THE SAME EXCEPT DROP STOOL, ICE & INLET.
- 6) BASED ON PRESSURE RANGE 50 TO 60 PSI
- 7) KENTUCKY METAL WATER LINE FITTINGS REQ. @ CONCEALED FAUCETS
- 8) ILLINOIS WATER LINES TO BE WRAPPED W/R-3 INSULATION
 2015 ENERGY CODE REQUIRES ALL PIPES 3/4" OR LARGER AND ALL PIPES LOCATED OUTSIDE CONDITIONS TO BE WRAPPED WITH R-3 INSULATION
- 9) SHOWER (SINGLE HEAD) 3/4" W/PEX.

CUSTOMER

REVISIONS

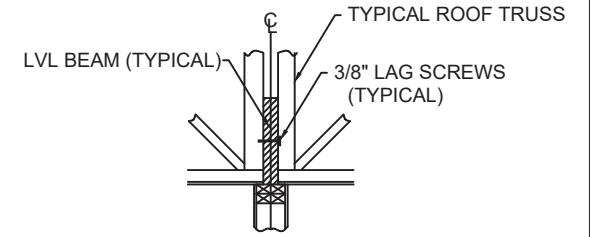
DEER VALLEY HOMEBUILDERS, INC.
 SIGNATURE SERIES
 RANCH STRUCTURAL SYSTEM



DEER VALLEY HOMEBUILDERS, INC.
 205-468-8400
 P.O. Box 310 / 205 Carriage St.
 Guin, Alabama 35563

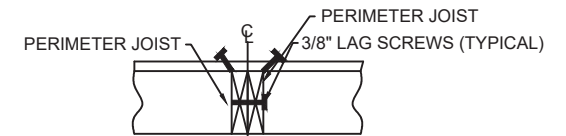
APPROVED BY: J. TRIPLETT	SCALE: NTS
PRINT DATE: 02/10/26	FOR TN ONLY:
TITLE: WATER LINE PLUMBING LAYOUT	
MODEL: SVM-12564	DWG. NO.:
MODEL: MFT-10186-SVM-12564	A.6.2

INTER-CONNECTION BETWEEN HALVES OF THE ROOF SYSTEM



USE: ONE(1) 3/8" X 3-1/2" LAG SCREW AT 24" O/C (180 WIDE 26" O/C - MAX E) (156 WIDE 29" O/C-MAX) TO CONNECT THE RIDGE BEAMS FOR EACH HALF OF THE HOME TOGETHER ALONG THE MARRIAGE LINE OF THE ROOF SYSTEM.

DETAIL B
INTER-CONNECTION BETWEEN HALVES OF THE FLOOR SYSTEM

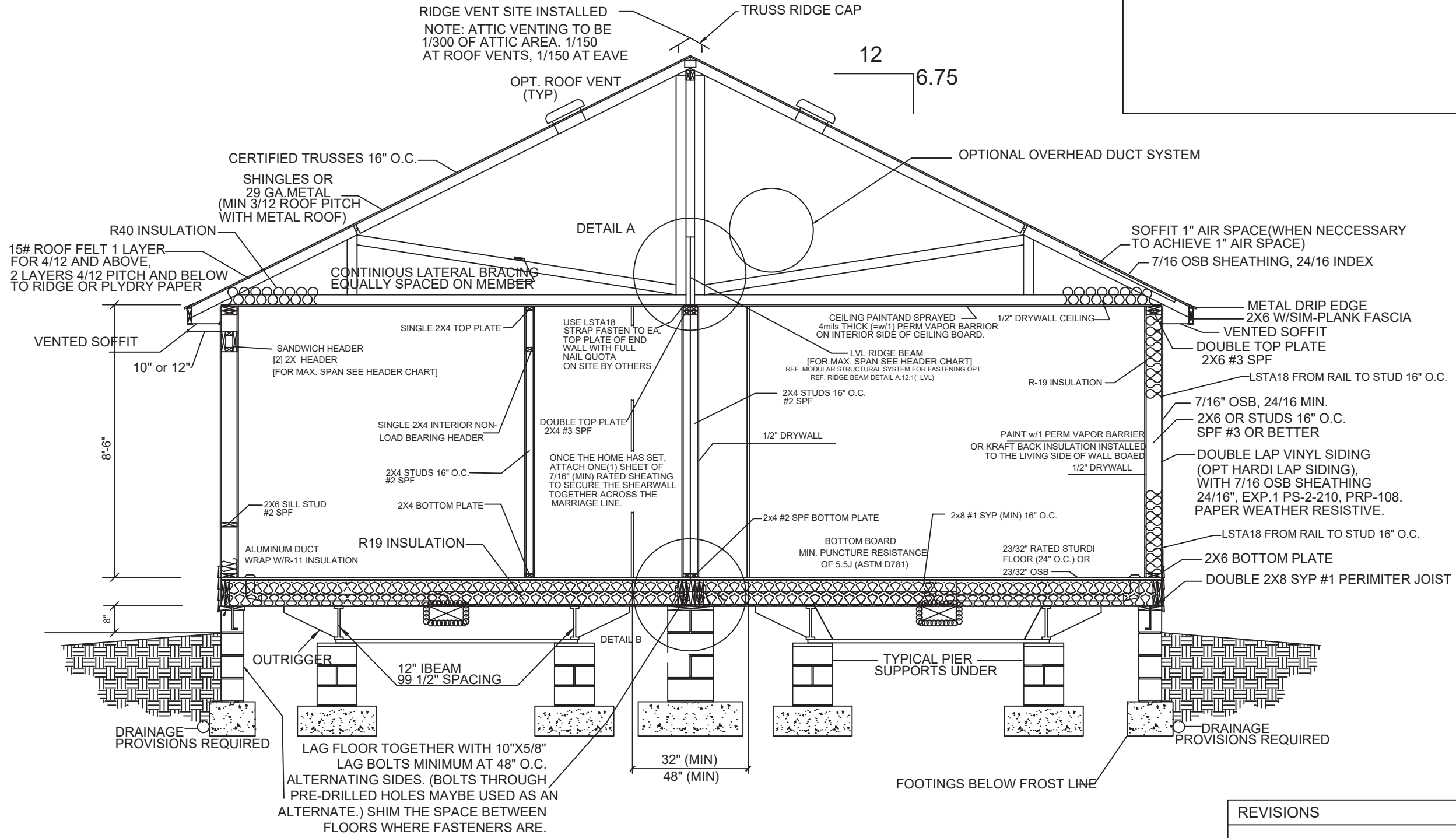


USE: ONE(1) 3/8" X 7-0" LAG SCREW AT 16" O/C (180 WIDE 20" O/C - MAX) (156 WIDE 22" O/C - MAX) TO CONNECT THE PERIMETER JOIST FOR EACH HALF OF THE HOME TOGETHER ALONG THE MARRIAGE LINE OF THE FLOOR SYSTEM.

These prints comply with the Florida Manufactured Building Act and adopted Codes and adhere to the following criteria:



Const. Type:	VB
Occupancy:	R
Allowable No. of Floors:	1
Wind Velocity:	160 MPH Vult
Fire Rating of Ext. Walls:	0
Plan No.:	MFT-10186-SVM-12564
Allow. Floor Load:	30
Approval Date:	02/23/2026
Manufacturer:	Deer Valley



FOUNDATION FOR THIS HOME MUST BE DESIGNED BY OTHERS TO THE SITE CONDITIONS PER APPLICABLE CODES. THIS INCLUDES ATTACHING HOME TO THE FOUNDATION, ALONG WITH THE RESISTANCE TO LATERAL, LONGITUDINAL SHEAR, UPLIFT AND DOWNWARD WIND FORCES IN BOTH DIRECTIONS AND THE SEISMIC DESIGN. REFER TO BRACING PAGE FOR APPLICABLE DESIGN LOADS.



2/20/2026

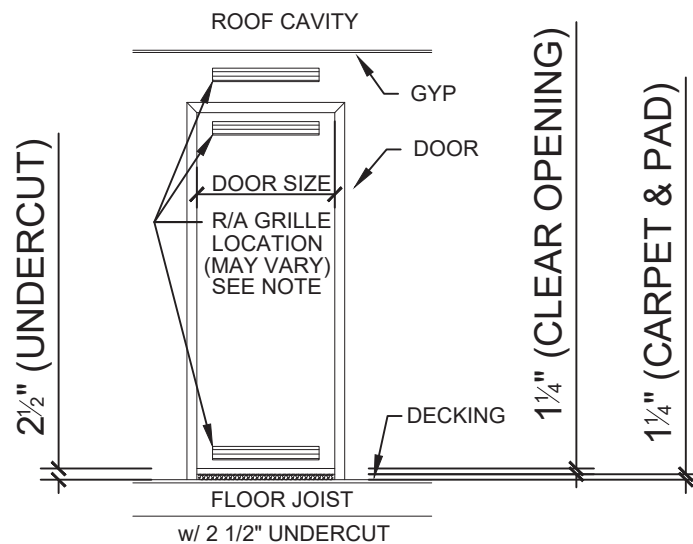
REVISIONS		

DEER VALLEY HOMEBUILDERS, INC. SIGNATURE SERIES RANCH STRUCTURAL SYSTEM 	APPROVED BY: J. TRIPLETT PRINT DATE: 02/10/26 TITLE: TYPICAL CROSS SECTION (ON FRAME) MODEL: SVM-12564 MFT-10186-SVM-12564	SCALE: NTS REV: DWG NO: A.9.1
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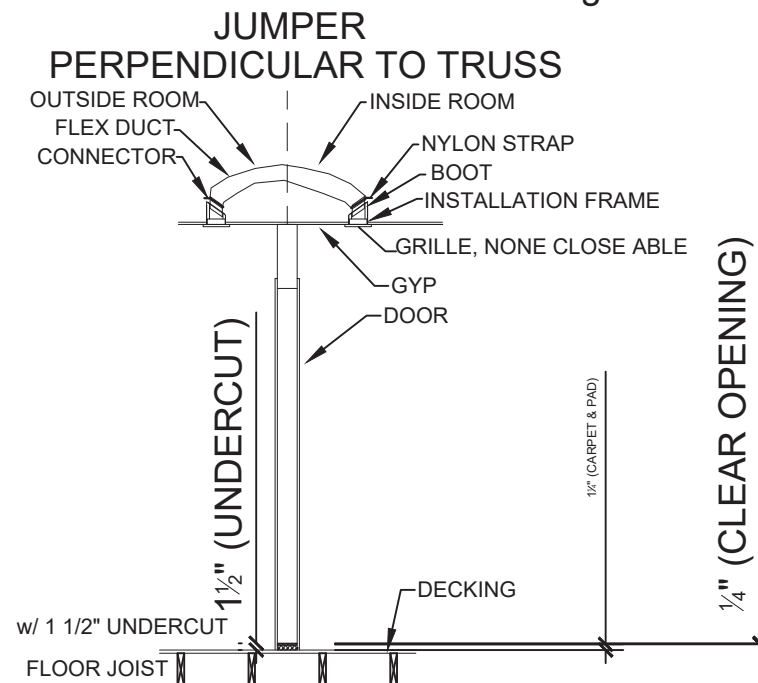
FREE RETURN AIR						
DOOR SIZE	2 1/2" UNDER CUT		DUCT SIZE	FLEX DUCT		GRILLE SIZE
	1 1/4" (CLEAR OPENING)			MAX. SQ. IN. RETURN	MAX. SF ROOM SIZE	
	MAX. SQ. IN. RETURN	MAX. SF ROOM SIZE				
24" (23 1/4)	29.06	145 SF	5"	19.6	98.1 SF	24 X 4
28" (27 1/4)	34.06	170 SF	6"	28.26	141.3 SF	10 X 6
30" (29 1/4)	36.56	183 SF	7"	38.46	192.3 SF	12 X 6
32" (31 1/4)	39.06	195 SF	8"	50.24	251.2 SF	12 X 8
36" (35 1/4)	44.06	220 SF	9"	63.58	317.9 SF	14 X 20
48" (47 1/4)	59.06	295 SF	10"	78.5	392.5 SF	20 X 25
			12"	113.04	565.2 SF	
			14"	153.86	769.3 SF	

CFM			
5" = 70 CFM	10" = 420 CFM	6" = 110 CFM	12" = 700 CFM
7" = 170 CFM	14" = 1000 CFM	8" = 240 CFM	16" = 1400 CFM
9" = 320 CFM			

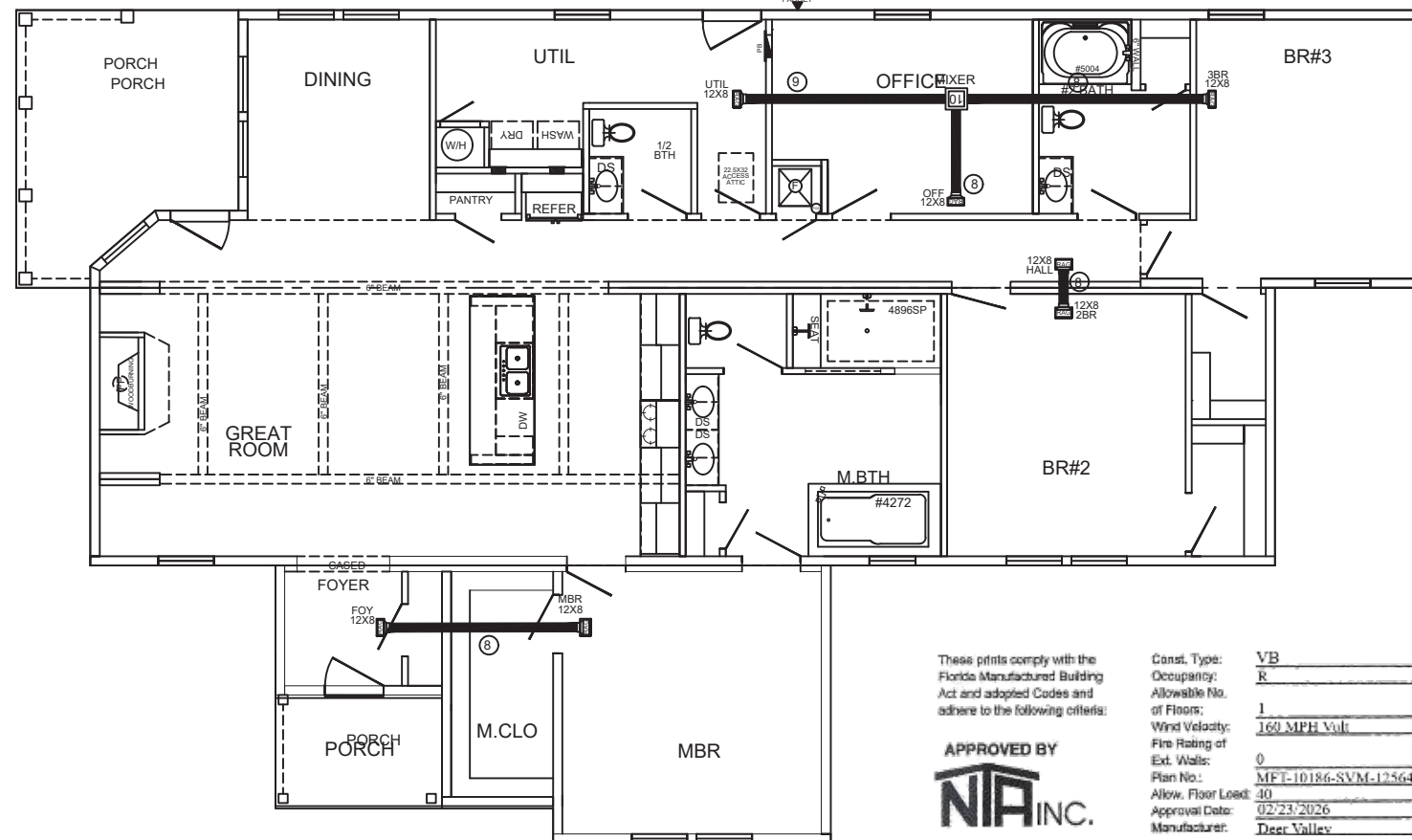
REGISTER SIZE	
5 = 8x4	
6 = 10x6	
7 = 12x6	
8 = 12x8	



NOTE:
 WHEN MAXIMUM ROOM SIZE HAS EXCEEDED THE FREE RETURN AIR PROVIDED BY THE DOOR'S UNDERCUT AREA, ONE OF THE FOLLOWING SHALL BE INSTALLED TO PROVIDE ADDITIONAL FREE RETURN AIR.
 1. LOUVERED GRILLE MAY BE INSTALLED IN THE DOOR OR IN THE HEADER ABOVE THE DOOR.
 2. FLEX DUCT JUMPER / GRILLE MAY BE INSTALLED IN THE CEILING EA. SIDE OF ROOM (INTERIOR / EXTERIOR) GRILLE SHALL NOT BE CLOSE ABLE.



NOTE:
 ONE (1) SQUARE INCH OF FREE RETURN AIR SHALL BE PROVIDED FOR EACH FIVE (5) SQUARE FEET OF ROOM AREA. SEE 3280.715(B) (4) AND B LETTER 80-8-25 FOR MAX. ROOM SIZE.

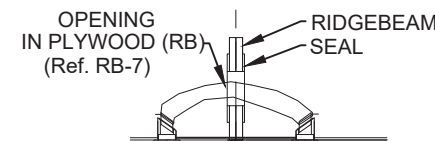


These prints comply with the Florida Manufactured Building Act and adopted Codes and adhere to the following criteria:

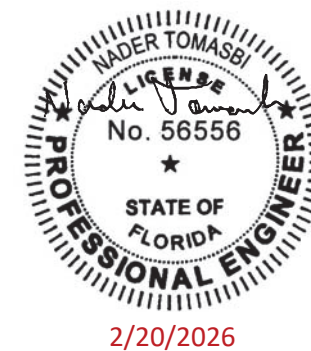
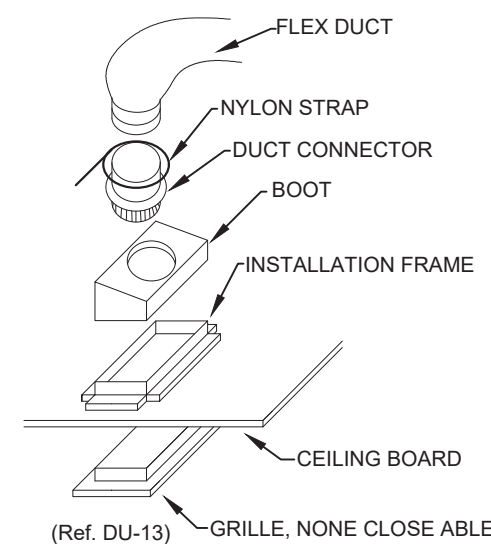
APPROVED BY
NIA INC.

Const. Type: VB
 Occupancy: R
 Allowable No. of Floors: 1
 Wind Velocity: 160 MPH Valt
 Fire Rating of Ext. Walls: 0
 Plan No.: MFT-10186-SVM-12564
 Allow. Floor Load: 40
 Approval Date: 02/23/2026
 Manufacturer: Deer Valley

JUMPER PARALLEL TO TRUSS - CROSS (RB)



JUMPER DETAIL



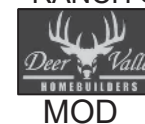
REVISIONS

NO.	DESCRIPTION
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LEGEND:

- MIXER MAIN MIXER BOX (16 X 20 X 72)
- SPLICE COLLAR SAME SIZE AS FLEX DUCT
- MIXER BOX (10 X 10 X 8 X 1) OR OTHERWISE NOTED
- FLEX DUCT (SIZE NOTED)
- UPFLOW AIR REGISTER GRILLE (SIZE NOTED)
- CEILING RETURN AIR GRILLE / JUMPER (SIZE NOTED) - REF. DU-18

DEER VALLEY HOMEBUILDERS, INC. SIGNATURE SERIES RANCH STRUCTURAL SYSTEM



DEER VALLEY HOMEBUILDERS, INC.
 205-468-8400
 P.O. Box 310 / 205 Carriage St.
 Guin, Alabama 35563

APPROVED BY: J. TRIPLETT	SCALE: NTS
PRINT DATE: 02/10/26	REV: --
TITLE: HVAC FREE RETURN AIR	
MODEL: SVM-12564	DWG. NO: A.13.2
MODEL: MFT-10186-SVM-12564	

Project Information

For: Deer Valley Homebuilders
 SVM-12564(DVHBSS-8026)

Cooling Equipment

Design Conditions

Outdoor design DB:	94.0°F	Sensible gain:	24183	Btuh	Entering coil DB:	76.1°F
Outdoor design WB:	76.0°F	Latent gain:	5781	Btuh	Entering coil WB:	63.4°F
Indoor design DB:	75.0°F	Total gain:	29965	Btuh		
Indoor RH:	50%	Estimated airflow:	1035	cfm		

Manufacturer's Performance Data at Actual Design Conditions

Equipment type:	Split AC	Model:	SEER2 14.3
Manufacturer:	Generic		
Actual airflow:	1035	cfm	
Sensible capacity:	23941	Btuh	99% of load
Latent capacity:	10261	Btuh	177% of load
Total capacity:	34202	Btuh	114% of load SHR: 70%

These prints comply with the Florida Manufactured Building Act and adopted Codes and adhere to the following criteria:



Const. Type:	VB
Occupancy:	R
Allowable No. of Floors:	1
Wind Velocity:	160 MPH Vult
Fire Rating of Ext. Walls:	0
Plan No.:	MFT-10186-SVM-12564
Allow. Floor Load:	40
Approval Date:	02/23/2026
Manufacturer:	Deer Valley

Heating Equipment

Design Conditions

Outdoor design DB:	29.6°F	Heat loss:	27396	Btuh	Entering coil DB:	67.7°F
Indoor design DB:	70.0°F					

Manufacturer's Performance Data at Actual Design Conditions

Equipment type:	Elec furnace	Model:	E7E-015
Manufacturer:	NORDYNE		
Actual airflow:	1035	cfm	
Output capacity:	47000	Btuh	172% of load

Temp. rise: 0 °F



2/20/2026

Meets all requirements of ACCA Manual S.

3933 E. Jackson Blvd., Elkhart, IN 46516 Phone: 574-293-5526 Email: eng-ams@comcast.net

Project Information

For: Deer Valley Homebuilders
SVM-12564(DVHBSS-8026)

Design Information

	Htg	Clg	Method	Infiltration	Simplified Average 1 (Average)
Outside db (°F)	30	94	Construction quality		
Inside db (°F)	70	75	Fireplaces		
Design TD (°F)	40	19			
Daily range	-	M			
Inside humidity (%)	30	50			
Moisture difference (gr/lb)	14	42			

These prints comply with the Florida Manufactured Building Act and adopted Codes and adhere to the following criteria:

Const. Type: VB
 Occupancy: R
 Allowable No. of Floors: 1
 Wind Velocity: 140 MPH Valt
 Fire Rating of Ext. Walls: 0
 Plan No.: MEP-0116-SVM-12564
 Allow. Floor Load: 30
 Approval Date: 02/02/2026
 Manufacturer: Deer Valley

APPROVED BY
NIA INC.

HEATING EQUIPMENT

Make: NORDYNE
Trade: E7E-015
Model: E7E-015
AHRI ref:

Efficiency: 100 AFUE
Heating input: 15.0 kW
Heating output: 47000 Btuh
Temperature rise: 41 °F
Actual air flow: 1035 cfm
Air flow factor: 0.042 cfm/Btuh
Static pressure: 0.50 in H2O
Space thermostat

COOLING EQUIPMENT

Make: Generic
Trade: SEER2 14.3
Cond: SEER2 14.3
Coil
AHRI ref:

Efficiency: 12.2 EER, 14.3 SEER2
Sensible cooling: 23941 Btuh
Latent cooling: 10261 Btuh
Total cooling: 34202 Btuh
Actual air flow: 1035 cfm
Air flow factor: 0.045 cfm/Btuh
Static pressure: 0.50 in H2O
Load sensible heat ratio: 0.81

ROOM NAME	Area (ft²)	Htg load (Btuh)	Clg load (Btuh)	Htg AVF (cfm)	Clg AVF (cfm)
u	137	2005	1805	84	81
1/2b	36	123	96	5	4
F	9	0	0	0	0
office	150	1638	1873	68	84
B3	188	3310	2705	138	122
C2	38	0	0	0	0
B2	195	3083	2876	129	130
grkt	621	5598	5710	233	257
foy	65	0	0	0	0
C1	93	1658	788	69	36
B1	206	2834	2973	118	134
h	102	0	0	0	0
DR	116	2532	2695	106	121
ba1	210	1235	1026	51	46



2/20/2026

Calculations approved by ACCA to meet all requirements of Manual J 8th Ed.

ba2	91	813	430	94	19
C3	38	0	0	0	0
Entire House	2293	24829	22976	1035	1035
Other equip loads		2567	1207		
Equip. @ 0.99 RSM			23941		
Latent cooling			5781		
TOTALS	2293	27396	29723	1035	1035

These prints comply with the Florida Manufactured Building Act and adopted Codes and adhere to the following criteria:

APPROVED BY



Const. Type: VB
 Occupancy: R
 Allowable No. of Floors: 1
 Wind Velocity: 160 MPH Valt
 Fire Rating of Ext. Walls: 0
 Plan No.: MFT-10186-SVM-12564
 Allow. Floor Load: 40
 Approval Date: 02/23/2026
 Manufacturer: Deer Valley

Calculations approved by ACCA to meet all requirements of Manual J 8th Ed.



wrightsoft®
 A Mittek® / Berkshire Hathaway Company

Right-Suite® Universal 2025 25.0.02 RSU56435

...ttic Trunk\SVM-12564(DVHBSS-8026)\flex TRUNK.rup Calc = MJ8 Front Door faces: W

Project Information

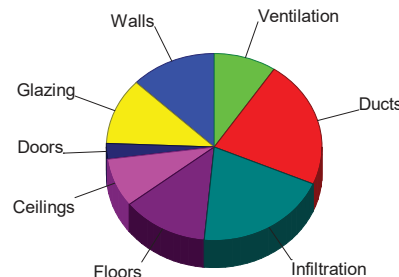
For: Deer Valley Homebuilders
SVM-12564(DVHBSS-8026)

Design Conditions

Location: Gainesville, FL, US Elevation: 123 ft Latitude: 30°N		Indoor: Indoor temperature (°F) Design TD (°F) Relative humidity (%) Moisture difference (gr/lb)	Heating 70 40 30 13.7	Cooling 75 19 50 42.1
Outdoor: Dry bulb (°F) Daily range (°F) Wet bulb (°F) Wind speed (mph)	Heating 30 - - 15.0	Cooling 94 18 (M) 76 7.5	Infiltration: Method: Simplified Construction quality: Average Fireplaces: 1 (Average)	

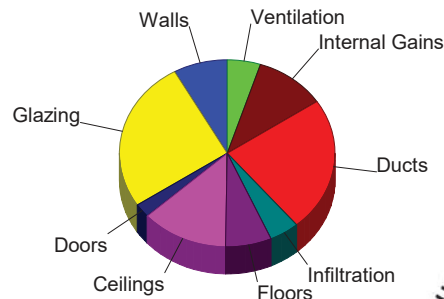
Heating

Component	Btuh/ft²	Btuh	% of load
Walls	2.1	3526	12.9
Glazing	12.1	3154	11.5
Doors	11.7	738	2.7
Ceilings	1.0	2316	8.5
Floors	1.6	3558	13.0
Infiltration	2.8	5484	20.0
Ducts		6053	22.1
Piping		0	0
Humidification		0	0
Ventilation		2567	9.4
Adjustments		0	0
Total		27396	100.0



Cooling

Component	Btuh/ft²	Btuh	% of load
Walls	1.2	1959	8.1
Glazing	24.4	6338	26.2
Doors	9.1	576	2.4
Ceilings	1.4	3156	13.1
Floors	0.7	1673	6.9
Infiltration	0.5	1082	4.5
Ducts		5612	23.2
Ventilation		1207	5.0
Internal gains		2580	10.7
Blower		0	0
Adjustments		0	0
Total		24183	100.0



Latent Cooling Load = 5781 Btuh
Overall U-value = 0.054 Btuh/ft²-°F, Window / Floor Area = 11.3 %

Data entries checked.

These prints comply with the Florida Manufactured Building Act and adopted Codes and adhere to the following criteria:

Canal. Type: VB
 Occupancy: R
 Allowable No. of Floors: 1
 Wind Velocity: 160 MPH Vult
 Fire Rating of Ext. Walls: 0
 Plan No.: MFT-10186-SVM-12564
 Allow. Floor Load: 40
 Approval Date: 02/24/2026
 Manufacturer: Deer Valley

APPROVED BY
NIA INC.



2/20/2026

3933 E. Jackson Blvd., Elkhart, IN 46516 Phone: 574-293-5526 Email: eng-ams@comcast.net

Project Information

For: Deer Valley Homebuilders
SVM-12564(DVHBSS-8026)

Design Conditions

Location: Gainesville, FL, US Elevation: 123 ft Latitude: 30°N	Indoor: Indoor temperature (°F) Design TD (°F) Relative humidity (%) Moisture difference (gr/lb)	Heating 70 40 30 13.7	Cooling 75 19 50 42.1
Outdoor: Dry bulb (°F) Daily range (°F) Wet bulb (°F) Wind speed (mph)	Heating 30 - - 15.0	Cooling 94 18 (M) 76 7.5	Infiltration: Method Construction quality Fireplaces
		Simplified Average 1 (Average)	

Construction descriptions

Construction descriptions	Or	Area ft²	U-value Btuh/ft²°F	Insul R ft²·F/Btuh	Htg HTM Btuh/ft²	Loss Clg Btuh	HTM Btuh/ft²	Gain Btuh
Walls R19 - wall: Frm wall, vnl ext, 7/16" wood shth, r-19 cav ins, 1/2" gypsum board int fnsh, 2"x6" wood fr	n e s sw w all	380 475 319 19 454 1647	0.053 0.053 0.053 0.053 0.053 0.053	19.0 19.0 19.0 19.0 19.0 19.0	2.14 2.14 2.14 2.14 2.14 2.14	814 1017 683 40 972 3526	1.19 1.19 1.19 1.19 1.19 1.19	453 565 379 22 540 1959

Partitions
(none)

Windows

CROFT: CROFT; 6.67 ft head ht



2/20/2026

e	116	0.300	0	12.1	1409	26.8	3117
s	36	0.300	0	12.1	436	11.7	422
sw	18	0.300	0	12.1	212	21.2	372
w	90	0.300	0	12.1	1097	26.8	2427
all	260	0.300	0	12.1	3154	24.4	6338

Doors

11P0: Door, mtl pur core type

e	21	0.290	10.5	11.7	246	9.15	192
w	42	0.290	10.5	11.7	492	9.15	384
all	63	0.290	10.5	11.7	738	9.15	576

Ceilings

Attic ceiling, asphalt shingles roof mat, r-40 ceil ins, 1/2" gypsum board int fnsh

	2293	0.025	40.0	1.01	2316	1.38	3156
--	------	-------	------	------	------	------	------

Floors

19A-19cscsp: Flr floor, frm flr, 8" thkns, carpet flr fnsh, r-19 cav ins, tight crwl ovr

	2293	0.049	19.0	1.55	3558	0.73	1673
--	------	-------	------	------	------	------	------

These prints comply with the Florida Manufactured Building Act and adopted Codes and adhere to the following criteria:

APPROVED BY
NIA INC.

Cons. Type: VB
Occupancy: R
Allowable No. of Floors: 1
Wind Velocity: 160 MPH Valt
Fire Rating of Ext. Walls: 0
Plan No.: MFT-10186-SVM-12564
Allow. Floor Load: 40
Approval Date: 02/23/2026
Manufacturer: Deer Valley

3933 E. Jackson Blvd., Elkhart, IN 46516 Phone: 574-293-5526 Email: eng-ams@comcast.net


Project Information

For: Deer Valley Homebuilders
 SVM-12564(DVHBSS-8026)

Notes:

These prints comply with the Florida Manufacture Building Act and adopted Codes and adhere to the following criteria:

Const. Type: VB
 Occupancy: R
 Allowable No. of Floors: 1
 Wind Velocity: 160 MPH V-Bil.
 Int. Rating of Ext. Walls: 0
 Plan No.: 111-10186-SVM-12564
 Allow. Floor Load: 30
 Approval Date: 02/23/2026
 Manufacturer: Deer Valley

APPROVED BY




Design Information

Weather: Gainesville, FL, US

2/20/2026

Winter Design Conditions

Outside db 30 °F
 Inside db 70 °F
 Design TD 40 °F

Ventilation Method MJ8

Heating Summary

Structure 18776 Btuh
 Ducts (R-8.0) 6053 Btuh
 Central vent (58 cfm) 2567 Btuh
 Outside air Humidification 0 Btuh
 Piping 0 Btuh
 Equipment load 27396 Btuh

Infiltration

Method Simplified
 Construction quality Average
 Fireplaces 1 (Average)

	Heating	Cooling
Area (ft²)	2293	2293
Volume (ft³)	19493	19493
Air changes/hour	0.38	0.16
Equiv. AVF (cfm)	124	52

Heating Equipment Summary

Make NORDYNE
 Trade
 Model E7E-015
 AHRI ref

Efficiency 100 AFUE
 Heating input 15.0 kW
 Heating output 47000 Btuh
 Temperature rise 41 °F
 Actual air flow 1035 cfm
 Air flow factor 0.042 cfm/Btuh
 Static pressure 0.50 in H2O
 Space thermostat

Summer Design Conditions

Outside db 94 °F
 Inside db 75 °F
 Design TD 19 °F
 Daily range M
 Relative humidity 50 %
 Moisture difference 42 gr/lb

Sensible Cooling Equipment Load Sizing

Structure 17364 Btuh
 Ducts (R-8.0) 5612 Btuh
 Central vent (58 cfm) 1207 Btuh
 Outside air Blower 0 Btuh
 Use manufacturer's data n
 Rate/swing multiplier 0.99
 Equipment sensible load 23941 Btuh

Latent Cooling Equipment Load Sizing

Structure 2680 Btuh
 Ducts 1449 Btuh
 Central vent (58 cfm) 1652 Btuh
 Outside air Equipment latent load 5781 Btuh
Equipment Total Load (Sen+Lat) 29723 Btuh
 Req. total capacity at 0.70 SHR 2.9 ton

Cooling Equipment Summary

Make Generic
 Trade
 Cond SEER2 14.3
 Coil
 AHRI ref 12.2 EER 14.3 SEER2
 Efficiency
 Sensible cooling 23941 Btuh
 Latent cooling 10261 Btuh
 Total cooling 34202 Btuh
 Actual air flow 1035 cfm
 Air flow factor 0.045 cfm/Btuh
 Static pressure 0.50 in H2O
 Load sensible heat ratio 0.81

Calculations approved by ACCA to meet all requirements of Manual J 8th Ed.



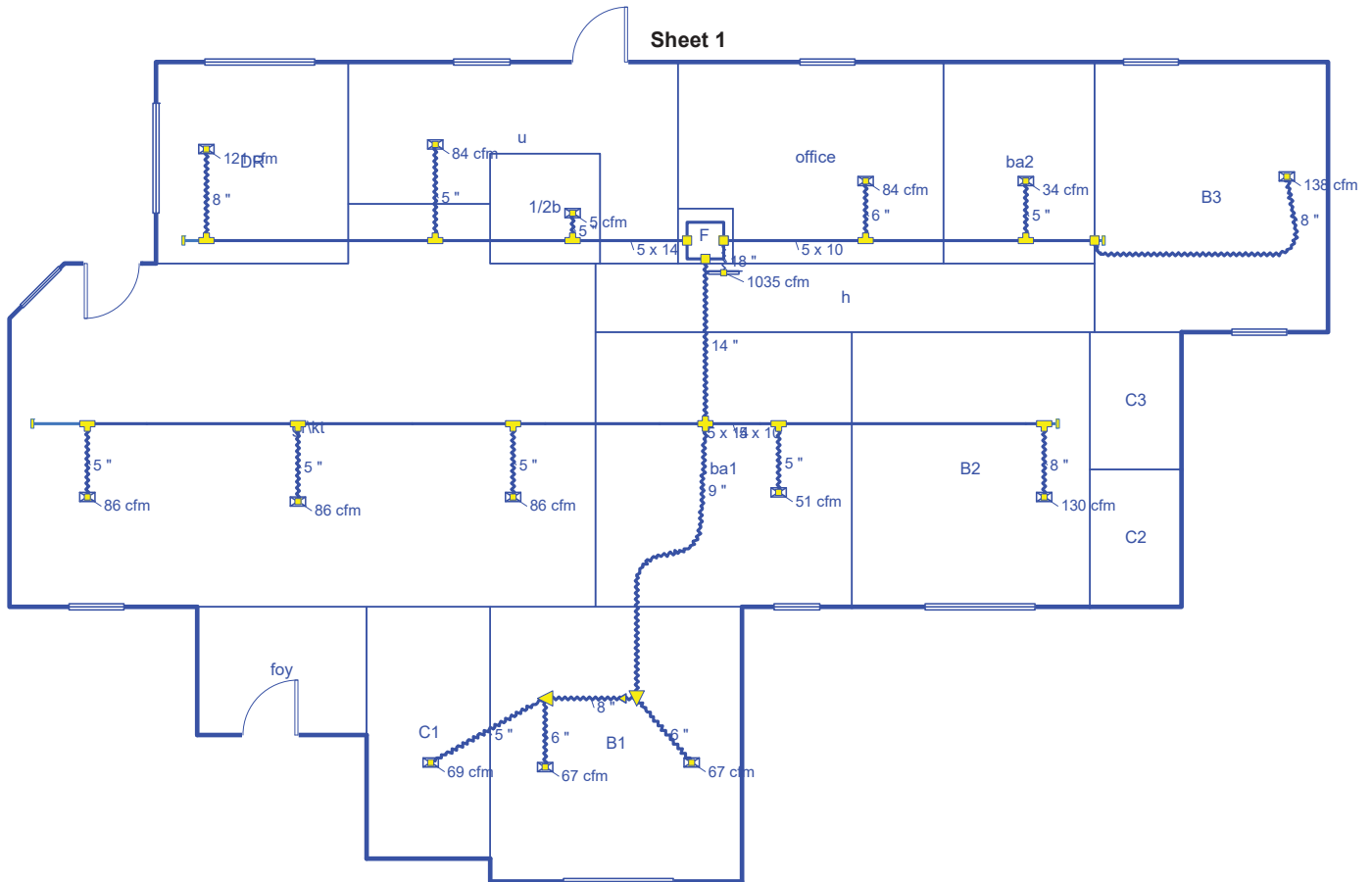
These prints comply with the Florida Manufactured Building Act and adopted Codes and adhere to the following criteria:

APPROVED BY



Const. Type:	VB
Occupancy:	R
Allowable No. of Floors:	1
Wind Velocity:	160 MPH Valt
Fire Rating of Ex. Walls:	0
Plan No.:	MFT-10186-SVM-12564
Allow. Floor Load:	40
Approval Date:	02/23/2026
Manufacturer:	Deer Valley

Sheet 1



Job #: SVM-12564(DVHBSS-8026)
Performed by AMS of Indiana, Inc. for:
 Deer Valley Homebuilders
 SVM-12564(DVHBSS-8026)

AMS of Indiana, Inc.

3933 E. Jackson Blvd.
 Elkhart, IN 46516
 Phone: 574-293-5526
 eng-ams@comcast.net

Scale: 1 : 123

Page 1
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 ...12564(DVHBSS-8026)flex TRUNK.rup

3933 E. Jackson Blvd., Elkhart, IN 46516 Phone: 574-293-5526 Email: eng-ams@comcast.net

Project Information

For: Deer Valley Homebuilders
 SVM-12564(DVHBSS-8026)

	Heating	Cooling
External static pressure	0.50 in H2O	0.50 in H2O
Pressure losses	0.26 in H2O	0.26 in H2O
Available static pressure	0.24 in H2O	0.24 in H2O
Supply / return available pressure	0.194 / 0.046 in H2O	0.194 / 0.046 in H2O
Lowest friction rate	0.075 in/100ft	0.075 in/100ft
Actual air flow	1035 cfm	1035 cfm
Total effective length (TEL)		321 ft

Supply Branch Detail Table

Name	Design (Btuh)	Htg (cfm)	Clg (cfm)	Design FR	Diam (in)	H x W (in)	Duct Matl	Actual Ln (ft)	Ftg.Eqv Ln (ft)	Trunk
1/2b	h 123	5	4	0.123	5.0	0x0	VIFx	7.8	150.0	st3
B1	c 1486	59	67	0.076	6.0	0x0	VIFx	35.5	220.0	st4A
B1-A	c 1486	59	67	0.088	6.0	0x0	VIFx	31.4	190.0	st4
B2-A	c 2876	129	130	0.086	8.0	0x0	VIFx	31.5	195.0	st6
B3	h 3310	138	122	0.110	8.0	0x0	VIFx	36.4	140.0	st1
C1-A	h 1658	69	36	0.075	5.0	0x0	VIFx	38.9	220.0	st4A
DR	c 2695	106	121	0.120	8.0	0x0	VIFx	31.2	130.0	st3
ba1	h 1235	51	46	0.087	5.0	0x0	VIFx	16.8	205.0	st6
ba2	h 813	34	19	0.121	5.0	0x0	VIFx	19.8	140.0	st1
gr/kt	c 1903	78	86	0.080	5.0	0x0	VIFx	46.8	195.0	st5
gr/kt-B	c 1903	78	86	0.081	5.0	0x0	VIFx	23.5	215.0	st5
gr/kt-D	c 1903	78	86	0.081	5.0	0x0	VIFx	35.5	205.0	st5
office	c 1873	68	84	0.120	6.0	0x0	VIFx	11.0	150.0	st1
u	h 2005	84	81	0.122	5.0	0x0	VIFx	19.0	140.0	st3

These prints comply with the Florida Manufactured Building Act and adopted Codes and adhere to the following criteria:



Const. Type: VB
 Occupancy: R
 Allowable No. of Floors: 1
 Wind Velocity: 160 MPH Vel
 Fire Rating of Ext. Walls: 0
 Plan No.: MFT-10186-SVM-12564
 Allow. Floor Load: 40
 Approval Date: 02/23/2026
 Manufacturer: Deer Valley



2/20/2026

Bold/italic values have been manually overridden

Supply Trunk Detail Table

Name	Trunk Type	Htg (cfm)	Clg (cfm)	Design FR	Veloc (fpm)	Diam (in)	H x W (in)	Duct Material	Trunk
st4A	Peak AVF	128	102	0.075	367	8.0	0 x 0	VinIFlx	st4
st4	Peak AVF	187	169	0.075	424	9.0	0 x 0	VinIFlx	st2
st6	Peak AVF	180	176	0.086	519	11.8	10 x 5	ShtMetl	st2
st5	Peak AVF	233	257	0.080	529	11.8	14 x 5	ShtMetl	st2
st3	Peak AVF	194	207	0.120	426	7.4	14 x 5	ShtMetl	
st2	Peak AVF	601	603	0.075	564	14.0	0 x 0	VinIFlx	
st1	Peak AVF	240	226	0.110	692	8.6	10 x 5	ShtMetl	

Return Branch Detail Table

Name	Grille Size (in)	Htg (cfm)	Clg (cfm)	TEL (ft)	Design FR	Veloc (fpm)	Diam (in)	H x W (in)	Stud/Joist Opening (in)	Duct Matl	Trunk
rb1	0x0	1035	1035	61.8	0.075	586	18.0	0x 0		VIFx	

These prints comply with the Florida Manufactured Building Act and adopted Codes and adhere to the following criteria:



Const. Type: VB
Occupancy: R
Allowable No. of Floors: 1
Wind Velocity: 160 MPH Valt
Fire Rating of Ext. Walls: 0
Plan No.: MFT-10186-SVM-12564
Allow. Floor Load: 40
Approval Date: 02/23/2026
Manufacturer: Deer Valley

Bold/italic values have been manually overridden



wrightsoft®
A MITek® / Berkshire Hathaway Company

Right-Suite® Universal 2025 25.0.02 RSU56435

...tic Trunk\SVM-12564(DVHBS-8026)\flexTRUNK.rup Calc = MJ8 Front Door faces: W

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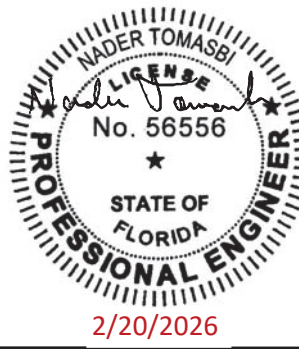
Page 2

FLORIDA ENERGY EFFICIENCY

BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation

Residential Performance Method



Project Name: SVM-12564
 Street: 1716 NW Moore Farms Road
 City, State, Zip: Lake City, FL, 32055
 Owner: David and Angela Moore
 Design Location: FL, Jacksonville

Deer Valley Homebuilders
 Columbia(Florida Climate Zone 2)

1. New construction or existing	New (From Plans)	
2. Single family or multiple family	Detached	
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 (ft ²)	2520	
Conditioned floor area below grade (ft ²)	0	
7. Windows(233.9 sqft.)	Description	Area
a. U-Factor:	Dbl, U=0.30	233.88 ft ²
SHGC:	SHGC=0.22	
b. U-Factor:	N/A	ft ²
SHGC:		
c. U-Factor:	N/A	ft ²
SHGC:		
Area Weighted Average Overhang Depth:	1.000 ft	
Area Weighted Average SHGC:	0.220	
8. Skylights	Description	Area
U-Factor:(AVG)	N/A	N/A ft ²
SHGC(AVG):	N/A	
9. Floor Types	Insulation	Area
a. Crawlspace	R= 19.0	2520.00 ft ²
b. N/A	R=	ft ²
c. N/A	R=	ft ²

10. Wall Types(1968.5 sqft.)	Insulation	Area
a. Frame - Wood, Exterior	R=19.0	1968.50 ft ²
b. N/A		
c. N/A		
d. N/A		
11. Ceiling Types(2520.0 sqft.)	Insulation	Area
a. Single assembly, with (Vented)	R=40.0	2520.00 ft ²
b. N/A		
c. N/A		
12. Roof(Comp. Shingles, Vented)	Deck R=0.0	2818 ft ²
13. Ducts, location & insulation level	R	ft ²
a. Sup: Attic, Ret: Attic, AH: Main	6	400
b.		
c.		
14. Cooling Systems	kBtu/hr	Efficiency
a. Central Unit	47.0	SEER2:14.30
15. Heating Systems	kBtu/hr	Efficiency
a. Electric Heat Pump	47.0	HSPF2:7.50
16. Hot Water Systems		
a. Electric		Cap: 40 gallons
		EF: 0.920
b. Conservation features		
		None
17. Credits		CF

Glass/Floor Area: 0.093 Total Proposed Modified Loads: 61.58
 Total Baseline Loads: 67.60

PASS

NOTE: Proposed residence must have annual total normalized Modified Loads that are less than or equal to 95 percent of the annual total loads of the standard reference design in order to comply.

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

PREPARED BY: Jerome Triplatt


DATE: 02/10/26

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.



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 with a proposed duct leakage Qn requires a PERFORMANCE Duct Leakage Test Report confirming duct leakage to outdoors, tested in accordance with ANSI/RESNET/ICC 380, is not greater than 0.040 Qn for whole house.
- Compliance requires a roof absorptance test and a roof emittance test in accordance with R405.7.2
- Compliance requires an Air Barrier and Insulation Inspection Checklist in accordance with R402.4.1.1 and this project requires a PERFORMANCE envelope leakage test report with envelope leakage no greater than 7.00 ACH50 (R402.4.1.2).

INPUT SUMMARY CHECKLIST REPORT

PROJECT													
Title:	SVM-12564	Address type:	Street Address										
Building Type:	User	Bedrooms:	3	Lot #:	---								
Owner:	David and Angela Moore	Conditioned Area:	2520	Block/SubDivision:	---								
Builder Home ID:		Total Stories:	1	PlatBook:	---								
Builder Name:	Deer Valley Homebuilders	Worst Case:	Yes	Street:	1716 NW Moore Farms Road								
Permit Office:		Rotate Angle:	180	County:	Columbia								
Jurisdiction:		Cross Ventilation:	No	City, State, Zip:	Lake City, FL, 32055								
Family Type:	Detached	Whole House Fan:	No										
New/Existing:	New (From Plans)	Terrain:	Suburban										
Year Construct:	2026	Shielding:	Suburban										
Comment:													
<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="font-size: 8px;"> THIS IS A SUMMARY REPORT FOR THE PROJECT INFORMATION ONLY. IT DOES NOT REPRESENT THE QUALITY OF THE WORK OR THE ACCURACY OF THE INFORMATION. </div> <div style="font-size: 8px;"> CLIENT: SVM PROJECT: SVM-12564 DATE: 10/20/2026 DRAWN BY: NIA INC. CHECKED BY: NIA INC. APPROVED BY: NIA INC. </div> </div>													
CLIMATE													
<input checked="" type="checkbox"/> Design Location	Tmy Site	Design Temp	97.5%	2.5%	Int Design Temp	Winter	Summer	Heating Degree Days	Design Moisture	Daily temp Range			
__ FL, Jacksonville	FL_JACKSONVILLE_INTL_A	32	93		70	75	1281	49	Medium				
BLOCKS													
<input checked="" type="checkbox"/> Number	Name	Area	Volume										
__ 1	Block1	2520	21420 cu ft										
SPACES													
<input checked="" type="checkbox"/> Number	Name	Area	Volume	Kitchen	Occupants	Bedrooms	Finished	Cooled	Heated				
__ 1	Main	2520	21420	Yes	4	3	Yes	Yes	Yes				
FLOORS (Total Exposed Area = 2520 sq.ft.)													
<input checked="" type="checkbox"/> #	Floor Type	Space	Exposed Perim(ft)	Area	R-Value Perim.	U-Factor Joist	Slab Insul. Vert/Horiz	Tile	Wood	Carpet			
__ 1	Crawlspace	Main	230	2520 sqft	0.0	19.0	0.052	-----	0.60	0.00	0.40		
ROOF													
<input checked="" type="checkbox"/> #	Type	Materials	Roof Area	Gable Area	Framing. Fract.	Roof Color	Rad Barr	Solar Absor.	SA Tested	Emitt Tested	Emitt Tested	Deck Insul.	Pitch (deg)
__ 1	Gable or shed	Composition shingles	2818 ft²	630 ft²	0.0	Unfinished, Galvalume	N	0.75	Yes	0.4	Yes	0	26.57
ATTIC													
<input checked="" type="checkbox"/> #	Type	Ventilation	Vent Ratio (1 in)	Area	RBS	IRCC							
__ 1	No attic	Vented	300	2520 ft²	N	N							
CEILING (Total Exposed Area = 2520 sq.ft.)													
<input checked="" type="checkbox"/> #	Ceiling Type	Space	R-Value	Ins. Type	Area	U-Factor	Framing Frac.	Truss Type					
__ 1	Single assembly, with airspace(Vented)	Main	40.0	Blown	2520.0ft²	0.026	0.11	Wood					

INPUT SUMMARY CHECKLIST REPORT

WALLS															(Total Exposed Area = 1968 sq.ft.)		
Note: First wall orientation below is as entered. Actual orientation is modified by the rotate angle (180 degrees) as shown in the "Project" section on page 1.																	
√ #	Ornt	Adjacent To	Wall Type	Space	Cavity R-Value	Width Ft	In	Height Ft	In	Area sq.ft.	U-Factor	Sheath R-Value	Frm. Frac.	Solar Absor.	Below Grade		
___ 1	W=>E	Exterior	Frame - Wood	Main	19.0	10.0	0	8.0	6	85.0	0.061	0	0.23	0.75	0.0 %		
___ 2	N=>S	Exterior	Frame - Wood	Main	19.0	7.0	0	8.0	6	59.5	0.061		0.23	0.75	0.0 %		
___ 3	W=>E	Exterior	Frame - Wood	Main	19.0	9.0	0	8.0	6	76.5	0.061		0.23	0.75	0.0 %		
___ 4	N=>S	Exterior	Frame - Wood	Main	19.0	6.0	0	8.0	6	51.0	0.061		0.23	0.75	0.0 %		
___ 5	W=>E	Exterior	Frame - Wood	Main	19.0	6.0	0	8.0	6	51.0	0.061		0.23	0.75	0.0 %		
___ 6	N=>S	Exterior	Frame - Wood	Main	19.0	2.0	0	8.0	6	17.0	0.061		0.23	0.75	0.0 %		
___ 7	W=>E	Exterior	Frame - Wood	Main	19.0	15.0	0	8.0	6	127.5	0.061		0.23	0.75	0.0 %		
___ 8	S=>N	Exterior	Frame - Wood	Main	19.0	15.0	0	8.0	6	127.5	0.061		0.23	0.75	0.0 %		
___ 9	W=>E	Exterior	Frame - Wood	Main	19.0	24.0	0	8.0	6	204.0	0.061		0.23	0.75	0.0 %		
___ 10	S=>N	Exterior	Frame - Wood	Main	19.0	15.0	0	8.0	6	127.5	0.061		0.23	0.75	0.0 %		
___ 11	W=>E	Exterior	Frame - Wood	Main	19.0	8.0	0	8.0	6	68.0	0.061		0.23	0.75	0.0 %		
___ 12	S=>N	Exterior	Frame - Wood	Main	19.0	15.0	0	8.0	6	127.5	0.061		0.23	0.75	0.0 %		
___ 13	E=>W	Exterior	Frame - Wood	Main	19.0	64.0	0	8.0	6	544.0	0.061		0.23	0.75	0.0 %		
___ 14	N=>S	Exterior	Frame - Wood	Main	19.0	10.0	4	8.0	6	87.8	0.061		0.23	0.75	0.0 %		
___ 15	E=>W	Exterior	Frame - Wood	Main	19.0	4.0	6	8.0	6	38.3	0.061		0.23	0.75	0.0 %		
___ 16	N=>S	Exterior	Frame - Wood	Main	19.0	4.0	7	8.0	6	39.0	0.061		0.23	0.75	0.0 %		
___ 17	N=>S	Exterior	Frame - Wood	Main	19.0	16.0	2	8.0	6	137.4	0.061		0.23	0.75	0.0 %		

DOORS													(Total Exposed Area = 59 sq.ft.)		
√ #	Ornt	Adjacent To	Door Type	Space	Storms	U-Value	Width Ft	In	Height Ft	In	Area				
___ 1	W=>E	Exterior	Insulated	Main	None	0.27	3.00	0	6.00	6	19.5ft²				
___ 2	E=>W	Exterior	Insulated	Main	None	0.27	3.00	0	6.00	6	19.5ft²				
___ 3	E=>W	Exterior	Insulated	Main	None	0.27	3.00	0	6.00	6	19.5ft²				

WINDOWS																	(Total Exposed Area = 234 sq.ft.)		
√ #	Ornt	Wall ID	Frame	Panes	NFRC U-Factor	SHGC	Imp	Storm	Total Area (ft²)	Same Units	Width (ft)	Height (ft)	--Overhang-- Depth (ft)	Sep. (ft)	Interior Shade	Screen			
___ 1	W=>E	1	Vinyl	Low-E Double	Y 0.30	0.22	N	N	18.0	1	3.00	6.00	1.0	1.0	IECC 2012	None			
___ 2	W=>E	7	Vinyl	Low-E Double	Y 0.30	0.22	N	N	36.0	2	3.00	6.00	1.0	1.0	IECC 2012	None			
___ 3	W=>E	9	Vinyl	Low-E Double	Y 0.30	0.22	N	N	8.1	1	2.50	3.25	1.0	1.0	IECC 2012	None			
___ 4	W=>E	9	Vinyl	Low-E Double	Y 0.30	0.22	N	N	18.0	1	3.00	6.00	1.0	1.0	IECC 2012	None			
___ 5	W=>E	11	Vinyl	Low-E Double	Y 0.30	0.22	N	N	18.0	1	3.00	6.00	1.0	1.0	IECC 2012	None			
___ 6	E=>W	13	Vinyl	Low-E Double	Y 0.30	0.22	N	N	9.8	1	3.00	3.25	1.0	1.0	IECC 2012	None			
___ 7	E=>W	13	Vinyl	Low-E Double	Y 0.30	0.22	N	N	72.0	4	3.00	6.00	1.0	1.0	IECC 2012	None			
___ 8	N=>S	14	Vinyl	Low-E Double	Y 0.30	0.22	N	N	36.0	2	3.00	6.00	1.0	1.0	IECC 2012	None			
___ 9	N=>S	16	Vinyl	Low-E Double	Y 0.30	0.22	N	N	18.0	1	3.00	6.00	1.0	1.0	IECC 2012	None			

INFILTRATION											
√ #	Scope	Method	SLA	CFM50	ELA	EqLA	ACH	ACH50	Space(s)	Infiltration Test Volume	
___ 1	Wholehouse	Proposed ACH(50)	0.00038	2499	137.10	257.39	0.1405	7.0	All	21420 cu ft	

MASS					
√ #	Mass Type	Area	Thickness	Furniture Fraction	Space
___ 1	Default(8 lbs/sq.ft.)	0 ft²	0 ft	0.30	Main



INPUT SUMMARY CHECKLIST REPORT

HEATING SYSTEM

✓ #	System Type	Subtype/Speed	AHRI #	Efficiency	Capacity kBtu/hr	---Geothermal HeatPump--- Entry Power Volt Current			Ducts	Block
___ 1	Electric Heat Pump	None/Single		HSPF2: 7.50	47.0	0.00	0.00	0.00	sys#1	1

COOLING SYSTEM

✓ #	System Type	Subtype/Speed	AHRI #	Efficiency	Capacity kBtu/hr	Air Flow cfm	SHR	Duct	Block
___ 1	Central Unit	None/Single		SEER2:14.3	47.0	1410	0.75	sys#1	1

HOT WATER SYSTEM

✓ #	System Type	Subtype	Location	EF(UEF)	Cap	Use	SetPnt	Fixt. Flow	Trap	Pipe Ins.	Pipe length
___ 1	Electric	None	Main	0.92 (0.92)	40.0 gal	60 gal	120 deg	Standard	Yes	None	99
	Recirculation System	Recirc Control Type	Loop length	Branch length	Pump power	DWHR	Facilities Connected	Equal Flow	DWHR Eff	Other Credits	
___ 1	No		NA	NA	NA	No	NA	NA	NA	None	

DUCTS

✓ Duct #	Location	Supply----- R-Value Area	Return----- Location R-Value Area	Leakage Type	AHU Location	CFM 25 TOT OUT	QN OUT SEALED	AHU RLF	HVAC # Heat Cool
___ 1	Attic	6.0 400 ft²	Attic 6.0 100 ft²	Proposed Qn	Main	--- ---	0.040	Yes	0.50 1 1

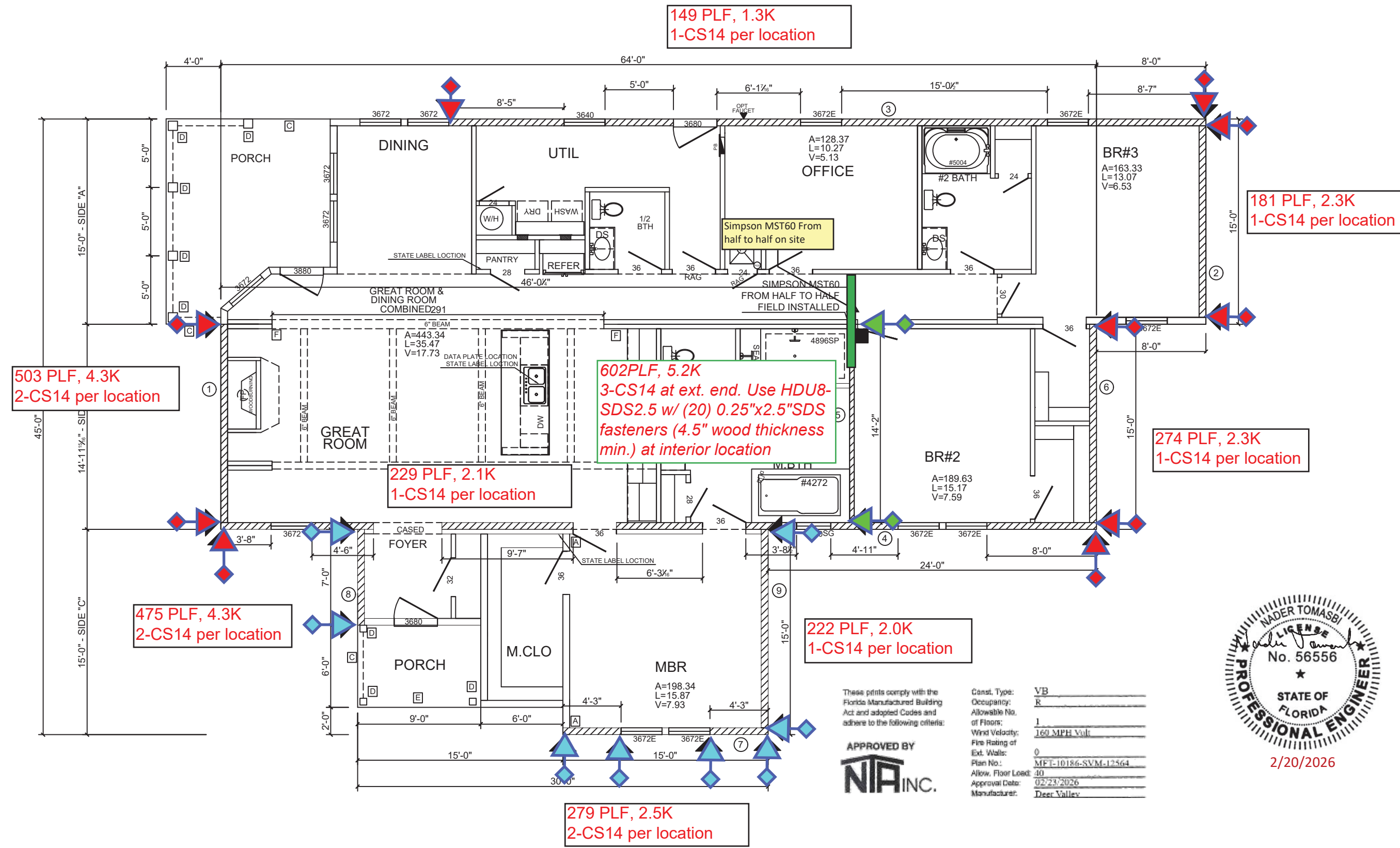
TEMPERATURES

Programable Thermostat: N				Ceiling Fans: N											
Cooling	[X] Jan	[X] Feb	[X] Mar	[X] Apr	[X] May	[X] Jun	[X] Jul	[X] Aug	[X] Sep	[X] Oct	[X] Nov	[X] Dec			
Heating	[X] Jan	[X] Feb	[X] Mar	[X] Apr	[X] May	[X] Jun	[X] Jul	[X] Aug	[X] Sep	[X] Oct	[X] Nov	[X] Dec			
Venting	[X] Jan	[X] Feb	[X] Mar	[X] Apr	[X] May	[X] Jun	[X] Jul	[X] Aug	[X] Sep	[X] Oct	[X] Nov	[X] Dec			
✓	Thermostat Schedule: FloridaCode 2014														
Schedule Type	1	2	3	4	5	6	7	8	9	10	11	12			
___ Cooling (WD)	AM PM	75 75	75 75	75 75	75 75	75 75	75 75	75 75	75 75	75 75	75 75	75 75	75 75		
___ Cooling (WEH)	AM PM	75 75	75 75	75 75	75 75	75 75	75 75	75 75	75 75	75 75	75 75	75 75	75 75		
___ Heating (WD)	AM PM	72 72	72 72	72 72	72 72	72 72	72 72	72 72	72 72	72 72	72 72	72 72	72 72		
___ Heating (WEH)	AM PM	72 72	72 72	72 72	72 72	72 72	72 72	72 72	72 72	72 72	72 72	72 72	72 72		

These calculations were performed using the Florida Mechanical Heating, AC and Exhaust Codes and address as follows (check):

APPROVED BY


Client, Title: _____
 Occupier of: _____
 Address: _____
 City: _____
 State: _____
 Zip: _____
 Date: _____
 Project: _____
 Approved: _____
 Manufacturer: _____



These prints comply with the Florida Manufactured Building Act and adopted Codes and adhere to the following criteria:

APPROVED BY
NIA INC.

Const. Type:	VB
Occupancy:	R
Allowable No. of Floors:	1
Wind Velocity:	160 MPH Vult
Fire Rating of Ext. Walls:	0
Plan No.:	MFT-10186-SVM-12564
Allow. Floor Load:	40
Approval Date:	02/23/2026
Manufacturer:	Deer Valley



SVM-12564 - LAKE CITY, FL - 124/160 MPH 8'6" SIDEWALL - 6.75 PITCH

* =FINISHED WALL TO FINISHED WALL DIMENSION

TITLE: BRACING PLAN	PRINT DATE: 2/9/2026	APPROVED BY: J. TRIPLETT	DEER VALLEY HOMEBUILDERS, INC. SIGNATURE SERIES MOD	REV:	DWG. NO.: 1.01
SCALE: NTS	PRODUCTION BY:	W:\DV Logo.dwg (2).jpg			

Bracing Tributary Length Determination

One Interior Wall

ASCE 7-16

Deer Valley SVM-12564 MAIN

Endwall Length = 30 ft
 Sidewall Length = 64 ft
 Left Porch Length = 4 ft
 Right Porch Length = 0 ft
 Wall Height = 9 ft
 Heel Height of Truss = 8 in
 Seismic category = C
 Ultimate Wind Speed = 160 mph
 Wind Exposure = C
 Roof pitch = 6.75 /12
 Mean Roof Height = 20 ft

Endwall added area= 0 ft

Left Endwall Trib : 23 ft
 First Interior Trib: 32 ft
 Right Endwall Trib : 9 ft

Length Left endwall to int. wall = 46 ft

Tag Location:	Bottom
Tag Wind Load:	2371 lbs
Tag Seismic Load:	1284 lbs

Transition from Perforated to Segmented:

380 PLF

Left Endwall - Bracing #1

Right Endwall (hitch end) - Bracing #2

Perforated or Segmented: S
 PLF: 503 plf
 Height of Tallest Opening = 6.85 ft
 Wall length when perforated = 30 ft

Perforated or Segmented: S
 PLF: 274 plf
 Height of Tallest Opening = 5.71 ft
 Wall length when perforated = 30 ft

Segment length - ft	Effective wind	Effective seismic
15	15	15
0	0	0
0	0	0
0	0	0
0	0	0
0	0	0
0	0	0
0	0	0
0	0	0
0	0	0
0	0	0
Total :	15	15

Segment length - ft	Effective wind	Effective seismic
10.833	10.833	10.833
0	0	0
0	0	0
0	0	0
0	0	0
0	0	0
0	0	0
0	0	0
0	0	0
0	0	0
0	0	0
Total :	10.833	10.833



2/20/2026

Top Sidewall - Bracing #3

Bottom Sidewall - Bracing #4

Perforated or Segmented: P
 PLF: 149 plf
 Height of Tallest Opening = 7 ft
 Wall length when perforated = 64 ft

Perforated or Segmented: P
 PLF: 229 plf
 Height of Tallest Opening = 7 ft
 Wall length when perforated = 53 ft

Segment length - ft	Effective wind	Effective seismic
8.416667	8.416667	8.416667
5	5	5
6	6	6
15	15	15
8.583	8.583	8.583
0	0	0
0	0	0
0	0	0
0	0	0
0	0	0
0	0	0
Total :	42.99967	42.99967

Segment length - ft	Effective wind	Effective seismic
3.666667	3.666667	2.987654
4.5	4.5	4.5
9.583333	9.583333	9.583333
6.25	6.25	6.25
3.67	3.67	2.993089
4.92	4.92	4.92
8	8	8
0	0	0
0	0	0
0	0	0
0	0	0
Total :	40.59	39.23408

Bracing Tributary Length Determination

One Interior Wall

Deer Valley SVM-12564 MAIN

Interior Bracing Wall

Perforated or Segmented: **S**

PLF: 602 plf

Height of Tallest Opening = 5.71 ft

Wall length when perforated = 15 ft

Segment length - ft	Effective wind	Effective seismic
---------------------	----------------	-------------------

15	15	15
0	0	0
0	0	0
0	0	0
0	0	0
0	0	0
0	0	0
0	0	0
0	0	0
0	0	0
Total :	15	15

These prints comply with the Florida Manufactured Building Act and adopted Codes and adhere to the following criteria:



Const. Type:	VB
Occupancy:	R
Allowable No. of Floors:	1
Wind Velocity:	160 MPH Valt
Fire Rating of Ext. Walls:	0
Plan No.:	MFT-10186-SVM-12564
Allow. Floor Load:	40
Approval Date:	02/23/2026
Manufacturer:	Deer Valley



2/20/2026

One Story Brace Wall Wind/Seismic Analysis - One Interior Shear Wall

Deer Valley SVM-12564 MAIN

Wind Loads**ASCE 7-16**

MWF

Nominal wind speed =	123	mph			
Ultimate Wind Speed =	160	mph			
Exposure =	C				
Mean Roof Height =	20	ft			
Wind load Areas	A	B	C	D	
(psf)	35.2	21.5	27.6	17.3	

A = End zone of Wall
 B = End zone of Roof
 C = Interior zone of Wall
 D = Interior zone of Roof



2/20/2026

These prints comply with the Florida Manufactured Building Act and subject to Code and adhere to the following criteria:

Client Type:	VB
Occupancy:	R
Allowable No. of Floors:	1
Wind Velocity (100 MPH):	100 MPH
Ex. Wall:	0
Plan No.:	VF-10198-SVM-12564
Allow. Floor Load:	20
Approval Date:	02/20/2026
Manufacturer:	Deer Valley

APPROVED BY
NIA, INC.

Building Values

roof angle =	6.75 /12	Sidewall Length =	64 ft
roof angle =	29.4 °		0
Wall Height =	9 ft	Endwall Length =	30 ft
Heel Height of Truss =	8 in	a =	3.00 ft
		2a =	6.00 ft
Height of Roof =	9.10 ft		

Left Endwall Shear Values

Area of End Zone of Sidewall =	27.0 ft ² /side	Total Shear =	950 lbs
Area of End Zone of Roof =	54.6 ft ² /side	Total Shear =	1172 lbs
Area of Interior Zone of Sidewall =	76.5 ft ² /side	Total Shear =	2112 lbs
Area of Interior Zone of Roof =	191.2 ft ² /side	Total Shear =	3316 lbs
Total Shear Force to Endwall =	7550 lbs		

First Interior Shear Values

Area of End Zone of Sidewall =	0.0 ft ² /side	Total Shear =	0 lbs
Area of End Zone of Roof =	0.0 ft ² /side	Total Shear =	0 lbs
Area of Interior Zone of Sidewall =	144.0 ft ² /side	Total Shear =	3976 lbs
Area of Interior Zone of Roof =	291.3 ft ² /side	Total Shear =	5053 lbs
Total Shear Force to Endwall =	9029 lbs		

Right Endwall Shear Values

Area of End Zone of Sidewall =	27.0 ft ² /side	Total Shear =	950 lbs
Area of End Zone of Roof =	54.6 ft ² /side	Total Shear =	1172 lbs
Area of Interior Zone of Sidewall =	13.5 ft ² /side	Total Shear =	373 lbs
Area of Interior Zone of Roof =	27.3 ft ² /side	Total Shear =	474 lbs
Total Shear Force to Endwall =	2968 lbs		

Sidewall Shear Values

Area of End Zone of Wall =	27 ft ² /side	Total Shear =	950 lbs
Area of End Zone of Roof =	10 ft ² /side	Total Shear =	356 lbs
Area of Interior Zone of Wall =	36 ft ² /side	Total Shear =	994 lbs
Area of Interior Zone of Roof =	63 ft ² /side	Total Shear =	1731 lbs

Total Shear Force to Sidewall = 4032 lbs

Seismic Loads

Seismic category = C
 $S_{DS} = 0.5$
 Wall DL = 10 psf
 Roof DL = 20 psf

These prints comply with the Florida Manufactured Building Act and adopted Codes and adhere to the following criteria:



Const. Type:	VB
Occupancy:	R
Allowable No. of Floors:	1
Wind Velocity:	160 MPH Valt
Fire Rating of Ext. Walls:	0
Plan No.:	MFT-10186-SVM-12564
Allow. Floor Load:	30
Approval Date:	02/23/2026
Manufacturer:	Deer Valley

Total W for seismic shear walls = 46860 lbs
 $R = 6.5$
 $C_s = 0.09615$
 $F_x = 4505.77$ lbs

$F_x = 0$

shear on Left endwall = 1619 lbs/wall
 shear on interior wall = 2253 lbs/wall
 shear on Right endwall = 634 lbs/wall
 shear on sidewalls = 2253 lbs/wall

Compare Wind vs Seismic for shear walls

	Seismic	Wind	Wind with 1.4 reduction
Endwall L	1619	7550	5393
Int Wall	2253	9029	6449
Endwall R	634	2968	2120
Sidewall	2253	4032	2880

Controlling factors for shear wall panels

Endwall L -----> Wind
 Int Wall -----> Wind
 Endwall R -----> Wind
 Sidewall -----> Wind

Controlling factors for Uplift/Shear Forces

Endwall L -----> Wind
 Int Wall -----> Wind
 Endwall R -----> Wind
 Sidewall -----> Wind

Determination of shear wall panel loads

Left Endwall - Bracing #1

Perforated or Segmented: S
 Wall length when perforated = 30 ft
 Wall Height = 9 ft
 Length of Full Height Sheathing (3.5:1) = 15 ft
 Length of Full Height Sheathing (2:1) = 15 ft
 $C_o (3.5:1) = 1$
 $C_o (2:1) = 1$

Total Force (wind) = 7550 lbs
 Total Force (seismic) *1.4 = 2267 lbs
 Load Taken to Shear Wall Segments = 503 plf
 Uplift Force at End of Wall = 4530 lbs



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Perforated or Segmented: **S**
 Wall length when perforated = 15 ft
 Wall Height = 9 ft

Length of Full Height Sheathing (3.5:1) = 15 ft
 Length of Full Height Sheathing (2:1) = 15 ft

C_o (3.5:1) = 1
 C_o (2:1) = 1

Total Force (wind) = 9029 lbs
 Total Force (seismic) *1.4 = 3154 lbs
 Load Taken to Shear Wall Segments = 602 plf
 Uplift Force at End of Wall = 5418 lbs

Right Endwall (hitch end) - Bracing #2

Perforated or Segmented: **S**
 Wall length when perforated = 30 ft
 Wall Height = 9 ft

Length of Full Height Sheathing (3.5:1) = 10.833 ft
 Length of Full Height Sheathing (2:1) = 10.833 ft

C_o (3.5:1) = 1
 C_o (2:1) = 1

Total Force (wind) = 2968 lbs
 Total Force (seismic) *1.4 = 887 lbs
 Load Taken to Shear Wall Segments = 274 plf
 Uplift Force at End of Wall = 2466 lbs

Top Sidewall - Bracing #3

Perforated or Segmented: **P**
 Wall length when perforated = 64 ft
 Wall Height = 9 ft
 Height of Tallest Opening = 7 ft

Height Ratio = 0.77778
 Length of Full Height Sheathing (3.5:1) = 42.9997 ft
 Length of Full Height Sheathing (2:1) = 42.9997 ft
 Percent Full Height Sheathing (3.5:1) = 67%
 Percent Full Height Sheathing (2:1) = 67%

C_o (3.5:1) = 0.63
 C_o (2:1) = 0.63

Total Force (wind) = 6399 lbs
 Total Force (seismic) *1.4 = 5006 lbs
 Load Taken to Shear Wall Segments = 149 plf
 Uplift Force at End of Wall = 1339 lbs

These prints comply with the Florida Manufactured Building Act and adopted Codes and adhere to the following criteria:



Const. Type:	VB
Occupancy:	R
Allowable No. of Floors:	1
Wind Velocity:	160 MPH Valt
Fire Rating of Ext. Walls:	0
Plan No.:	MFT-10186-SVM-12564
Allow. Floor Load:	40
Approval Date:	02/23/2026
Manufacturer:	Deer Valley



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Bottom Sidewall - Bracing #4

Perforated or **S**egmented: **P**
 Wall length when perforated = 53 ft
 Wall Height = 9 ft
 Height of Tallest Opening = 7 ft
 Height Ratio = 0.77778
 Length of Full Height Sheathing (3.5:1) = 40.59 ft
 Length of Full Height Sheathing (2:1) = 39.2341 ft
 Percent Full Height Sheathing (3.5:1) = 77%
 Percent Full Height Sheathing (2:1) = 74%

C_o (3.5:1) = 0.69
 C_o (2:1) = 0.69

Transferred from TAG - WALL 2

Total Force (wind) = 5843 lbs + (2371 lbs / 0.69) = 9279 lbs
 Total Force (seismic) *1.4 = 4571 lbs + (1284 lbs / 0.69) = 6432 lbs
 Load Taken to Shear Wall Segments = 229 plf
 Uplift Force at End of Wall = 2057 lbs

These prints comply with the Florida Manufactured Building Act and adopted Codes and adhere to the following criteria:



Const. Type:	VB
Occupancy:	R
Allowable No. of Floors:	1
Wind Velocity:	160 MPH Valt
Fire Rating of Ext. Walls:	0
Plan No.:	MFT-10186-SVM-12564
Allow. Floor Load:	30
Approval Date:	02/23/2026
Manufacturer:	Deer Valley



2/20/2026

Wind Load Determination Worksheet

MWF Low-rise building Method 2

ASCE 7-16

Nominal Wind Speed = 123 mph Roof Slope = 6.75 /12
 Ultimate Wind Speed = 160 mph 29.36 °
 Exposure = C
 Mean Roof Height = 20 ft

K_d = 0.85K_{zt} = 1K_z = 0.90

I = 1

α = 9.5

z_g = 900 ftq_h = 29.63 psfGC_{pi} = 0.18

-0.18

Building Class = Enclosed Building

* GC_{pi} cancels-out on total building calcs

Load A - End Zone of Wall

1E = 0.70

4E = -0.49

A = 35.18 psf

GC_{pf} = 1.19

Load C - Interior Zone of Wall

1 = 0.56

4 = -0.37

C = 27.61 psf

GC_{pf} = 0.93

Load B - End Zone of Roof

2E = 0.18

3E = -0.54

Horz 2E load = 2.67

Horz 3E load = -7.85

2E load = 5.45

3E load = -16.01

B = 21.46 psf

Load D - End Zone of Roof

2 = 0.152198

3 = -0.43321

Horz 2E load = 2.21

Horz 3E load = -6.29

2E load = 4.51

3E load = -12.84

D = 17.34 psf

These prints comply with the
 Florida Manufactured Building
 Act and adopted Codes and
 adhere to the following criteria:

APPROVED BY


Const. Type: VB
 Occupancy: R
 Allowable No. of Floors: 1
 Wind Velocity: 160 MPH Vult
 Fire Rating of Ext. Walls: 0
 Plan No.: MFT-10186-SVM-12564
 Allow. Floor Load: 30
 Approval Date: 02/23/2026
 Manufacturer: Deer Valley



2/20/2026

One Story Shear Wall Design

Deer Valley SVM-12564 MAIN
Summary of Forces

These prints comply with the Florida Manufactured Building Act and adopted Codes and adhere to the following criteria:



Const. Type:	VB
Occupancy:	R
Allowable No. of Floors:	1
Wind Velocity:	160 MPH Vult
Fire Rating of Ext. Walls:	0
Plan No.:	MFT-10186-SVM-12564
Allow. Floor Load:	40
Approval Date:	02/23/2026
Manufacturer:	Deer Valley

Shear Walls

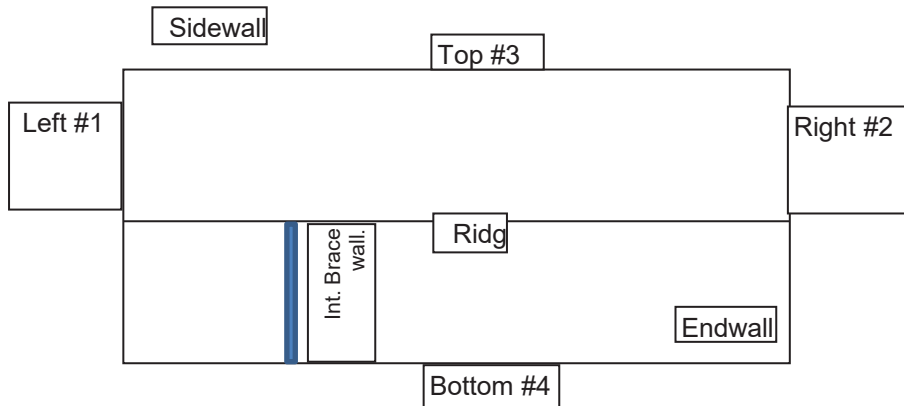
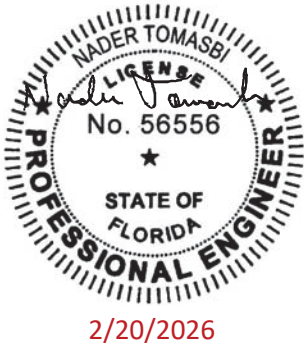
Brace wall	PLF-Load	CONSTRUCTION
Left endwall - Segmented	503 7/16 in sheathing	One Side with .131 pd nail (studs at 16" o/c) at 3 in o/c edge spacing
Interior wall - Segmented	602 7/16 in sheathing	One Side with .131 pd nail (studs at 16" o/c) at 3 in o/c edge spacing
Right endwall - Segmented	274 7/16 in sheathing	One Side with .131 pd nail (studs at 16" o/c) at 6 in o/c edge spacing
Top sidewall - Preforated	149 7/16 in sheathing	One Side with .131 pd nail (studs at 16" o/c) at 4 in o/c edge spacing
Bottom sidewall - Preforated	229 7/16 in sheathing	One Side with .131 pd nail (studs at 16" o/c) at 4 in o/c edge spacing

Overturning Forces

Simpson CS14 strap capacity : 2.49 Kips

			req.# CS14		
Racking Left Endwall =	4.5	K-0.6 DL=	4.3 Kips	1.8	shear on Left endwall = 1.6 Kips
Racking Interior Wall =	5.4	K-0.6 DL=	5.2 Kips	2.2	shear on interior wall = 2.3 Kips
Racking Right Endwall =	2.5	K-0.6 DL=	2.3 Kips	1.0	shear on Right endwall = 0.6 Kips
Racking Top Sidewall =	1.3	K-0.6 DL=	1.1 Kips	1.0	shear on sidewalls = 2.3 Kips
Racking Lower Sidewall =	2.1	K-0.6 DL=	1.9 Kips	1.0	

* Use HDU8-SDS2.5 w/ (20) 0.25"x2.5"SDS fasteners (3.5" wood thickness min.)



Roof Diaphragm Design

7/16 in sheathing with .131 pd nail at unblocked 6 in o/c edge spacing
Blocking required at 0 ft from each end shearwall

Check Shear Transfer from half to half

Interior wall - 4515 Lb.

Use Simpson MST60 (23 - 16d nails per end 5405#) from half to half on site

Brace Wall Design

Deer Valley SVM-12564 MAIN

These prints comply with the Florida Manufactured Building Act and adopted Codes and adhere to the following criteria:

APPROVED BY
NIA INC.

Const. Type:	VB
Occupancy:	R
Allowable No. of Floors:	1
Wind Velocity:	160 MPH Valt
Fire Rating of Ext. Walls:	0
Plan No.:	MFT-10186-SVM-12564
Allow. Floor Load:	40
Approval Date:	02/23/2026
Manufacturer:	Deer Valley

Shearwall Design Left Endwall

Shearwall Required Design = 503 plf
 Thickness of Sheathing = 7/16 "
 Fastener = .131 pd nail (studs at 16" o/c)
 Edge Spacing of Fastener = 3 in o/c
 Species of Framing = SPF
 Sheathing on Both sides? One Side

Use 7/16 in sheathing One Side with .131 pd nail (studs at 16" o/c) at 3 in o/c edge spacing

Sheathing Capacity = 631.12 plf
 Shear Wall **OK**

Shearwall Design Interior Wall

Shearwall Required Design = 602 plf
 Thickness of Sheathing = 7/16 "
 Fastener = .131 pd nail (studs at 16" o/c)
 Edge Spacing of Fastener = 3 in o/c
 Species of Framing = SPF
 Sheathing on Both sides? One Side

Use 7/16 in sheathing One Side with .131 pd nail (studs at 16" o/c) at 3 in o/c edge spacing

Sheathing Capacity = 631.12 plf
 Shear Wall **OK**

Shearwall Design Right Endwall

Shearwall Required Design = 274 plf
 Thickness of Sheathing = 7/16 "
 Fastener = .131 pd nail (studs at 16" o/c)
 Edge Spacing of Fastener = 6 in o/c
 Species of Framing = SPF
 Sheathing on Both sides? One Side

Use 7/16 in sheathing One Side with .131 pd nail (studs at 16" o/c) at 6 in o/c edge spacing

Sheathing Capacity = 334.88 plf
 Shear Wall **OK**

Shearwall Design Top Sidewall

Shearwall Required Design = 149 plf
 Thickness of Sheathing = 7/16 "
 Fastener = .131 pd nail (studs at 16" o/c)
 Edge Spacing of Fastener = 4 in o/c
 Species of Framing = SPF
 Sheathing on Both sides? One Side

Use 7/16 in sheathing One Side with .131 pd nail (studs at 16" o/c) at 4 in o/c edge spacing

Sheathing Capacity = 489.44 plf
 Shear Wall **OK**



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Shearwall Design Lower Sidewall

Shearwall Required Design = 229 plf
Thickness of Sheathing = 7/16 "
Fastener = .131 pd nail (studs at 16" o/c)
Edge Spacing of Fastener = 4 in o/c
Species of Framing = SPF

Sheathing on Both sides? One Side

Use 7/16 in sheathing One Side with .131 pd nail (studs at 16" o/c) at 4 in o/c edge spacing

Sheathing Capacity = 489.44 plf

Shear Wall **OK**

These prints comply with the Florida Manufactured Building Act and adopted Codes and adhere to the following criteria:



Const. Type: VB
Occupancy: R
Allowable No. of Floors: 1
Wind Velocity: 160 MPH Valt
Fire Rating of Ext. Walls: 0
Plan No.: MFT-10186-SVM-12564
Allow. Floor Load: 40
Approval Date: 02/23/2026
Manufacturer: Deer Valley



2/20/2026

Roof Diaphragm Design

Deer Valley SVM-12564 MAIN

Max diaphragm span = 46 ft 44.833 ft
 Load to diaphragm at end zone = 354 plf
 Load to diaphragm at int zone = 282 plf
 end zone = 6.00 ft
 Diaphragm Width = 30 ft 15 ft

Roof Diaphragm

Top of BC of truss sheathed?¹ **No**
 Diaphragm Required Design² = 231 plf 450.2727 plf
 Thickness of Sheathing = 7/16 "
 Fastener = .131 pd nail
 Edge Spacing of Fastener^{3,4,5} = **blocked 6 in o/c** 3 in o/c
 Species of Framing⁶ = **SPF**
 Use **7/16 in sheathing with .131 pd nail at unblocked 6 in o/c edge spacing**
 Sheathing Capacity⁷ = 296.24 plf 589.26 plf
 Shear Wall **OK** Block roof sheating 6' from rear end wall
(Single section roof on;ly)

 Sheathing capacity without blocking = 296.24 plf
 Max diaphragm span without blocking = 60.0 ft

Blocking required at 0 ft from each end shearwall

1. Design assumes 19/32" min sheathing of at least 1/2 of BC of trusses with .131 pd nails at 6" o/c
2. Load increased by 1.4 if seismic loads control to compensate for 1.4 increase in diaphragm panel
3. Nail spacing at other panel edges to be as follows
 - 6" o/c if edge spacing is 6" o/c
 - 6" o/c if edge spacing is 4" o/c
 - 3" o/c if edge spacing is 2" o/c
4. Framing at panel edges shall be 3" nominal or wider and nails be staggard where nails are spaced 2" o/c
5. Roof sheathing is blocked unless stated unblocked
6. Diaphragm panels are reduced by 0.82 for SPF lumber
7. Per tables in ESR-1359

These prints comply with the Florida Manufactured Building Act and adopted Codes and adhere to the following criteria:



Const. Type: VB
 Occupancy: R
 Allowable No. of Floors: 1
 Wind Velocity: 160 MPH Valt
 Fire Rating of Ext. Walls: 0
 Plan No.: MFT-10186-SVM-12564
 Allow. Floor Load: 40
 Approval Date: 02/23/2026
 Manufacturer: Deer Valley



2/20/2026

Bracing Tributary Length Determination

Deer Valley Homes SVM-12564 TAG

No Interior Walls **ASCE 7-16**
 Endwall Length = 26 ft
 Sidewall Length = 15 ft
 Porch Length (Left) = 0 ft
 Porch Length (Right) = 0 ft
 Wall Height = 9 ft
 Heel Height of Truss = 8 in
Seismic category = C
Ultimate Wind Speed = 160 mph
Wind Exposure = C
 Roof pitch = 6.75 /12
 Mean Roof Height = 20 ft
 Transition from Perforated to Segmented:

Endwall added area= 0 ft
Left Endwall Trib From Wall: 7.5 ft
Left Endwall Trib From Roof: 7.5 ft
Right Endwall Trib From Wall: 7.5 ft
Right Endwall Trib From Roof: 7.5 ft



380 PLF

Top Endwall - Bracing #1

Perforated or Segmented: **S**
 PLF: 150 plf
 Height of Tallest Opening = 7 ft
 Wall length when perforated = 26 ft

Segment length - ft	Effective wind	Effective seismic
9.583	9.583	9.583
6.25	6.25	6.25
0	0	0
0	0	0
0	0	0
0	0	0
0	0	0
0	0	0
0	0	0
0	0	0
0	0	0
Total :	15.833	15.833

Tag load: 2371 Lb. Y

Left Sidewall - Bracing #3

Perforated or Segmented: **S**
 PLF: 475 plf
 Height of Tallest Opening = 7 ft
 Wall length when perforated = 15 ft

Segment length - ft	Effective wind	Effective seismic
7	7	7
0	0	0
0	0	0
0	0	0
0	0	0
0	0	0
0	0	0
0	0	0
0	0	0
0	0	0
0	0	0
Total :	7	7

Bottom Endwall - Bracing #2

Perforated or Segmented: **S**
 PLF: 279 plf
 Height of Tallest Opening = 7 ft
 Wall length when perforated = 26 ft

Segment length - ft	Effective wind	Effective seismic
4.25	4.25	4.013889
4.25	4.25	4.013889
0	0	0
0	0	0
0	0	0
0	0	0
0	0	0
0	0	0
0	0	0
0	0	0
0	0	0
Total :	8.5	8.027778

Tag load: 0 Lb. N

Right Sidewall - Bracing #4

Perforated or Segmented: **S**
 PLF: 222 plf
 Height of Tallest Opening = 7 ft
 Wall length when perforated = 15 ft

Segment length - ft	Effective wind	Effective seismic
15	15	15
0	0	0
0	0	0
0	0	0
0	0	0
0	0	0
0	0	0
0	0	0
0	0	0
0	0	0
0	0	0
Total :	15	15



2/20/2026

One Story Shear Wall Wind/Seismic Analysis - No Interior Shearwalls

Deer Valley Homes SVM-12564 TAG

Wind Loads

ASCE 7-16

MWF

Nominal wind speed =	123	mph		
Ultimate Wind Speed =	160	mph		
Exposure =	C			
Mean Roof Height =	20	ft		
Wind load Areas (psf)	A	B	C	D
	35.2	21.5	27.6	17.3

- A = End zone of Wall
- B = End zone of Roof
- C = Interior zone of Wall
- D = Interior zone of Roof



2/20/2026

Building Values

Roof pitch =	6.75 /12	Sidewall Length =	15 ft
Roof angle =	29.4 °	Endwall Length =	26 ft
Wall Height =	9 ft	a =	3.00 ft
Heel Height of Truss =	8 in	2a =	6.00 ft
		Porch Length (Left) =	0 ft
		Porch Length (Right) =	0 ft
Height of Roof =	7.98 ft		

Left Endwall Shear Values

Area of End Zone of Sidewall =	27.0 ft ² /side	Total Shear =	950 lbs
Area of End Zone of Roof =	47.9 ft ² /side	Total Shear =	1027 lbs
Area of Interior Zone of Sidewall =	6.8 ft ² /side	Total Shear =	186 lbs
Area of Interior Zone of Roof =	12.0 ft ² /side	Total Shear =	208 lbs

Total Shear Force to Endwalls = 2371 lbs

Right Endwall Shear Values

Area of End Zone of Sidewall =	27.0 ft ² /side	Total Shear =	950 lbs
Area of End Zone of Roof =	47.9 ft ² /side	Total Shear =	1027 lbs
Area of Interior Zone of Sidewall =	6.8 ft ² /side	Total Shear =	186 lbs
Area of Interior Zone of Roof =	12.0 ft ² /side	Total Shear =	208 lbs

Total Shear Force to Endwalls = 2371 lbs

Sidewall Shear Values

Area of End Zone of Wall =	27 ft ² /side	Total Shear =	950 lbs
Area of End Zone of Roof =	10 ft ² /side	Total Shear =	356 lbs
Area of Interior Zone of Wall =	32 ft ² /side	Total Shear =	870 lbs
Area of Interior Zone of Roof =	42 ft ² /side	Total Shear =	1153 lbs

Total Shear Force to Sidewalls = 3328 lbs

These prints comply with the Florida Manufactured Building Act and adopted Codes and adhere to the following criteria:



Const. Type:	VB
Occupancy:	R
Allowable No. of Floors:	1
Wind Velocity:	160 MPH Valt
Fire Rating of Ext. Walls:	0
Plan No.:	MFT-10186-SVM-12564
Allow. Floor Load:	40
Approval Date:	02/23/2026
Manufacturer:	Deer Valley

Seismic Loads

Seismic category = C
 $S_{DS} = 0.5$

Wall DL = 10 psf
 Roof DL = 20 psf

Total W for seismic shear walls = 11490 lbs
 $R = 6.5$
 $C_s = 0.09615$

$F_x = 1104.81$ lbs

$F_x = 0$

shear on endwalls = 552 lbs/wall
 shear on sidewalls = 552 lbs/wall

These prints comply with the Florida Manufactured Building Act and adopted Codes and adhere to the following criteria:



Const. Type: VB
 Occupancy: R
 Allowable No. of Floors: 1
 Wind Velocity: 160 MPH Valt
 Fire Rating of Ext. Walls: 0
 Plan No.: MFT-10186-SVM-12564
 Allow. Floor Load: 40
 Approval Date: 02/23/2026
 Manufacturer: Deer Valley

Compare Wind vs Seismic for shear walls

	Seismic	Wind	Wind with 1.4 reduction
Endwall	552	2371	1694
Sidewall	552	3328	2377

Controlling factors for shear wall panels

Endwall -----> Wind
 Sidewall -----> Wind

Controlling factors for Uplift/Shear Forces

Endwall -----> Wind
 Sidewall -----> Wind

Determination of shear wall panel loads

Top Endwall - Bracing #1

Perforated or Segmented: S
 Wall length when perforated = 26 ft
 Wall Height = 9 ft

Length of Full Height Sheathing (3.5:1) = 15.833 ft
 Length of Full Height Sheathing (2:1) = 15.833 ft

$C_o (3.5:1) = 1$
 $C_o (2:1) = 1$

Total Force (wind) = 2371 lbs
 Total Force (seismic) *1.4 = 773 lbs
 Load Taken to Shear Wall Segments = 150 plf
 Uplift Force at End of Wall = 1348 lbs



2/20/2026

<==

These prints comply with the Florida Manufactured Building Act and adopted Codes and adhere to the following criteria:

Const. Type:	VB
Occupancy:	R
Allowable No. of Floors:	1
Wind Velocity:	160 MPH Valt
Fire Rating of Ext. Walls:	0
Plan No.:	MFT-10186-SVM-12564
Allow. Floor Load:	40
Approval Date:	02/23/2026
Manufacturer:	Deer Valley



Perforated or Segmented: **S**
 Wall length when perforated = 26 ft
 Wall Height = 9 ft

Length of Full Height Sheathing (3.5:1) = 8.5 ft
 Length of Full Height Sheathing (2:1) = 8.02778 ft

C_o (3.5:1) = 1
 C_o (2:1) = 1

Total Force (wind) = 2371 lbs
 Total Force (seismic) *1.4 = 773 lbs
 Load Taken to Shear Wall Segments = 279 plf
 Uplift Force at End of Wall = 2511 lbs



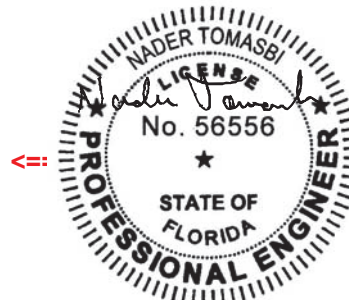
Left Sidewall - Bracing #3

Perforated or Segmented: **S**
 Wall length when perforated = 15 ft
 Wall Height = 9 ft

Length of Full Height Sheathing (3.5:1) = 7 ft
 Length of Full Height Sheathing (2:1) = 7 ft

C_o (3.5:1) = 1
 C_o (2:1) = 1

Total Force (wind) = 3328 lbs
 Total Force (seismic) *1.4 = 773 lbs
 Load Taken to Shear Wall Segments = 475 plf
 Uplift Force at End of Wall = 4279 lbs



2/20/2026

Right Sidewall - Bracing #4

Perforated or Segmented: **S**
 Wall length when perforated = 15 ft
 Wall Height = 9 ft

Length of Full Height Sheathing (3.5:1) = 15 ft
 Length of Full Height Sheathing (2:1) = 15 ft

C_o (3.5:1) = 1
 C_o (2:1) = 1

Total Force (wind) = 3328 lbs
 Total Force (seismic) *1.4 = 773 lbs
 Load Taken to Shear Wall Segments = 222 plf
 Uplift Force at End of Wall = 1997 lbs



Wind Load Determination Worksheet

MWF Low-rise building Method 2

ASCE 7-16

Nominal Wind Speed =	123 mph	Roof Slope =	6.75 /12
Ultimate Wind Speed =	160 mph		29.36 °
Exposure =	C		
Mean Roof Height =	20 ft		
		$\alpha =$	9.5
$K_d =$	0.85	$Z_g =$	900 ft
$K_{zt} =$	1		
$K_z =$	0.90	$q_h =$	29.63 psf
$I =$	1		

$GC_{pi} =$	0.18
	-0.18

Building Class = Enclosed Building

* GC_{pi} cancels-out on total building calcs

Load A - End Zone of Wall

1E =	0.70	$GC_{pf} =$	1.19
4E =	-0.49		
A =	35.18 psf		

Load C - Interior Zone of Wall

1 =	0.56	$GC_{pf} =$	0.93
4 =	-0.37		
C =	27.61 psf		

Load B - End Zone of Roof

2E =	0.18	2E load =	5.45
3E =	-0.54	3E load =	-16.01
Horz 2E load =	2.67		
Horz 3E load =	-7.85	B =	21.46 psf

Load D - End Zone of Roof

2 =	0.152198	2E load =	4.51
3 =	-0.43321	3E load =	-12.84
Horz 2E load =	2.21		
Horz 3E load =	-6.29	D =	17.34 psf

These prints comply with the Florida Manufactured Building Act and adopted Codes and adhere to the following criteria:

APPROVED BY
NIA INC.

Const. Type: VB
 Occupancy: R
 Allowable No. of Floors: 1
 Wind Velocity: 160 MPH Valt
 Fire Rating of Ext. Walls: 0
 Plan No.: MFT-10186-SVM-12564
 Allow. Floor Load: 30
 Approval Date: 02/23/2026
 Manufacturer: Deer Valley



2/20/2026

One Story Shear Wall Design

Deer Valley Homes SVM-12564 TAG
Summary of Forces

These prints comply with the Florida Manufactured Building Act and adopted Codes and adhere to the following criteria:



Const. Type:	VB
Occupancy:	R
Allowable No. of Floors:	1
Wind Velocity:	160 MPH Vult
Fire Rating of Ext. Walls:	0
Plan No.:	MFT-10186-SVM-12564
Allow. Floor Load:	40
Approval Date:	02/23/2026
Manufacturer:	Deer Valley

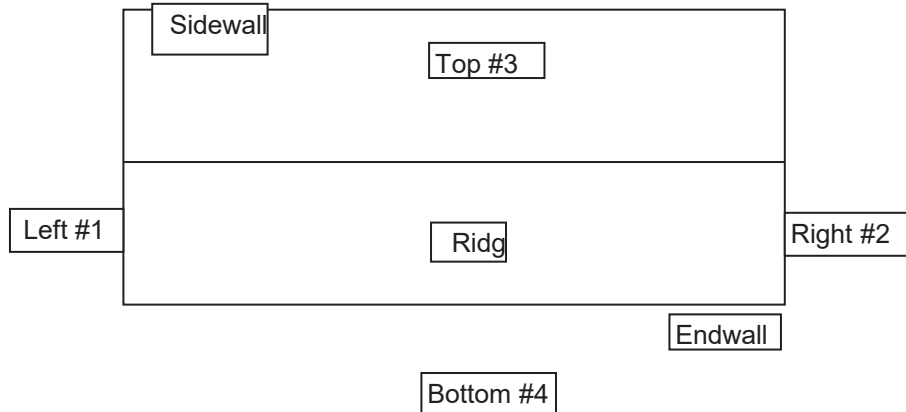
Shear Walls

Brace wall	PLF-Load	CONSTRUCTION
Top endwall - Segmented	150	7/16 in sheathing One Side with .131 pd nail (studs at 16" o/c) at 4 in o/c edge spacing
Bottom endwall - Segmented	279	7/16 in sheathing One Side with .131 pd nail (studs at 16" o/c) at 4 in o/c edge spacing
Left sidewall - Segmented	475	7/16 in sheathing One Side with .131 pd nail (studs at 16" o/c) at 4 in o/c edge spacing
Right sidewall - Segmented	222	7/16 in sheathing One Side with .131 pd nail (studs at 16" o/c) at 4 in o/c edge spacing

Overturning Forces

Simpson CS14 strap capacity : 2.49 Kips Total Shear Force to Endwalls = 2.4 Kips
 Total Shear Force to Sidewalls = 3.3 Kips

Racking Load top endwall -	1.3 Kips	2371 <u>Lb. TRANSFER TO MAIN UNIT</u>	req.# CS14 1.0
Racking load bottom endwall -	2.5 Kips		req.# CS14 1.0
Racking Load left sidewall -	4.3 Kips		req.# CS14 1.7
Racking Load right sidewall -	2.0 Kips		req.# CS14 1.0



Roof Diaphragm

7/16 in sheathing with .131 pd nail at unblocked 6 in o/c edge spacing

Tag to main unit load transfer:

#8x3" wood screws: 124.8 Lb.
 Spacing: 16.42179 inches o/c



2/20/2026

These prints comply with the Florida Manufactured Building Act and adopted Codes and adhere to the following criteria:

APPROVED BY
NIA INC.

Const. Type:	VB
Occupancy:	R
Allowable No. of Floors:	1
Wind Velocity:	160 MPH Valt
Fire Rating of Ext. Walls:	0
Plan No.:	MFT-10186-SVM-12564
Allow. Floor Load:	40
Approval Date:	02/23/2026
Manufacturer:	Deer Valley

Shear Wall Design

Deer Valley Homes SVM-12564 TAG

Left Shearwall

Shearwall Required Design = 150 plf
 Thickness of Sheathing = 7/16 "
 Fastener = .131 pd nail (studs at 16" o/c)
 Edge Spacing of Fastener = 4 in o/c
 Species of Framing = SPF
 Sheathing on Both sides? One Side

Use 7/16 in sheathing One Side with .131 pd nail (studs at 16" o/c) at 4 in o/c edge spacing

Sheathing Capacity = 489.44 plf

Shear Wall **OK**

Right Shearwall

Shearwall Required Design = 279 plf
 Thickness of Sheathing = 7/16 "
 Fastener = .131 pd nail (studs at 16" o/c)
 Edge Spacing of Fastener = 4 in o/c
 Species of Framing = SPF
 Sheathing on Both sides? One Side

Use 7/16 in sheathing One Side with .131 pd nail (studs at 16" o/c) at 4 in o/c edge spacing

Sheathing Capacity = 489.44 plf

Shear Wall **OK**

Top Shearwall

Shearwall Required Design = 475 plf
 Thickness of Sheathing = 7/16 "
 Fastener = .131 pd nail (studs at 16" o/c)
 Edge Spacing of Fastener = 4 in o/c
 Species of Framing = SPF
 Sheathing on Both sides? One Side

Use 7/16 in sheathing One Side with .131 pd nail (studs at 16" o/c) at 4 in o/c edge spacing

Sheathing Capacity = 489.44 plf

Shear Wall **OK**

Bottom Shearwall

Shearwall Required Design = 222 plf
 Thickness of Sheathing = 7/16 "
 Fastener = .131 pd nail (studs at 16" o/c)
 Edge Spacing of Fastener = 4 in o/c
 Species of Framing = SPF
 Sheathing on Both sides? One Side

Use 7/16 in sheathing One Side with .131 pd nail (studs at 16" o/c) at 4 in o/c edge spacing

Sheathing Capacity = 489.44 plf

Shear Wall **OK**



2/20/2026

These prints comply with the Florida Manufactured Building Act and adopted Codes and adhere to the following criteria:

Const. Type:	VB
Occupancy:	R
Allowable No. of Floors:	1
Wind Velocity:	160 MPH Valt
Fire Rating of Ext. Walls:	0
Plan No.:	MFT-10186-SVM-12564
Allow. Floor Load:	40
Approval Date:	02/23/2026
Manufacturer:	Deer Valley



Roof Diaphragm Design

Deer Valley Homes SVM-12564 TAG

Roof Diaphragm Diaphragm width : 26 ft

Top of BC of truss sheathed?¹ No

Diaphragm Required Design² = 91 plf

Thickness of Sheathing = 7/16 "

Fastener = .131 pd nail

Edge Spacing of Fastener^{3,4,5} = unblocked 6 in o/c

Species of Framing⁶ = SPF

Use 7/16 in sheathing with .131 pd nail at unblocked 6 in o/c edge spacing

Sheathing Capacity⁷ = 296.24 plf

Shear Wall **OK**

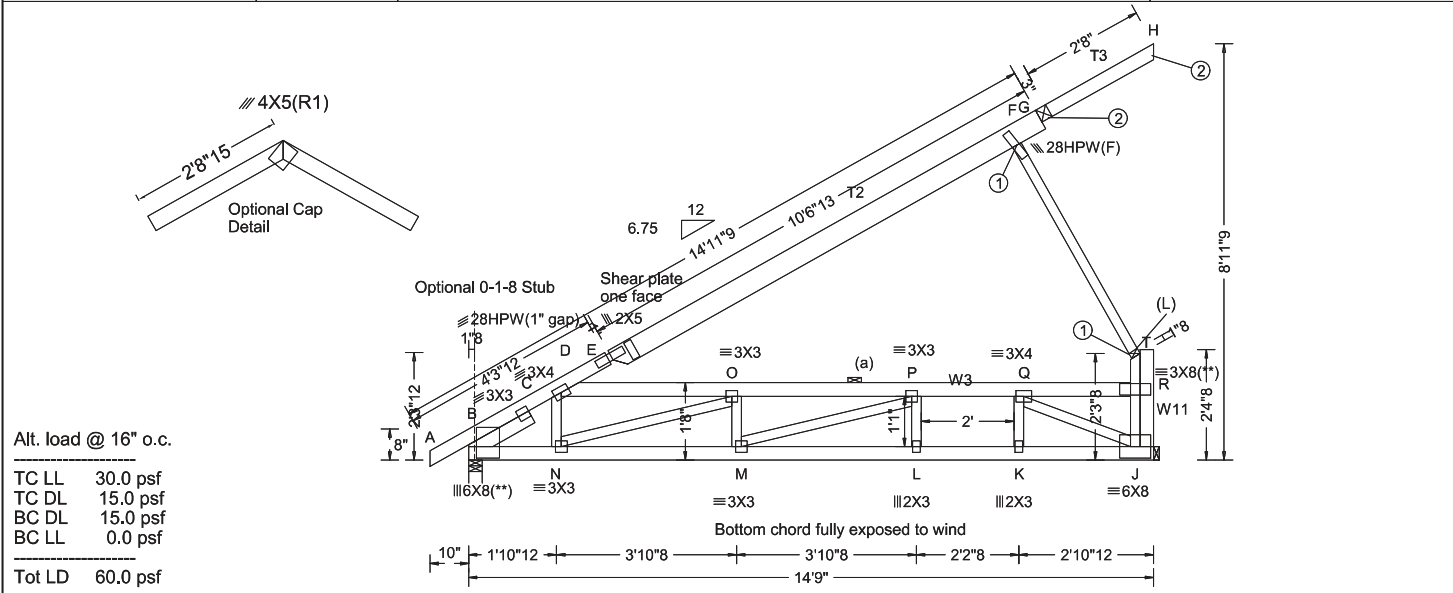
Blocking only required at 0 ft from each endwall

- Design assumes 19/32" min sheathing of at least 1/2 of BC of trusses with .131 pd nails at 6" o/c
- Load increased by 1.4 if seismic loads control to compensate for 1.4 increase in diaphragm panel
- Nail spacing at other panel edges to be as follows
 - 6" o/c if edge spacing is 6" o/c
 - 6" o/c if edge spacing is 4" o/c
 - 3" o/c if edge spacing is 2" o/c
- Framing at adjoining panel edges shall be 3" nominal or wider & nails be staggard where nails are spaced 2" o/c
- Roof sheathing is blocked unless stated unblocked
- Diaphragm panels are reduced by 0.82 for SPF lumber
- Per tables in ESR-1539



2/20/2026

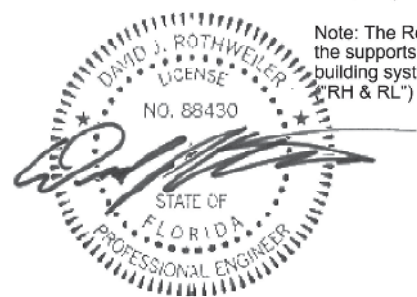
SEQN: 1505 FROM:	MONO Ply: 1 Qty: 1	Job Number: 115301 DEER VALLEY Truss Label: HMD18832 Ref. 10021862	Doc: R 9130 Ref: TXW91300003 T63 DrwNo: 353.23.1549.31027 DLD / PPH 12/19/2023
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Alt. load @ 16" o.c.

TC LL	30.0 psf
TC DL	15.0 psf
BC DL	15.0 psf
BC LL	0.0 psf
Tot LD	60.0 psf

Loading Criteria (psf) TC LL: 20.00 TC DL: 10.00 BC LL: 0.00 BCDL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.15 Spacing: 24.0 "	Wind Criteria Wind Std: ASCE 7-22 Speed: 142 mph@24"/180@16" Enclosure: Part. Enc. Risk Category: II EXP: C Kzt: NA Mean Height: 25.00 ft TC DL: 5.0 psf@24"/7.5@16" BCDL: 5.0 psf@24"/7.5@16" MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.55 Wind Duration: 1.60	Snow Criteria (Pg,Pf in PSF) Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 8th Ed. 2023 Res. TPI Std: 2014 Rep Fac: Yes FT/RT:0(0)/0(0) Plate Type(s): WAVE	Defl/CSI Criteria PP Deflection in loc L/defl L/# VERT(LL): 0.042 L 999 240 VERT(CL): 0.097 L 999 240 HORZ(LL): -0.017 F - - HORZ(TL): 0.019 F - - Creep Factor: 2.0 Max TC CSI: 0.807 Max BC CSI: 0.280 Max Web CSI: 0.530 VIEW Ver: 23.02.01.1109.17	▲ Maximum Reactions (lbs) Gravity Non-Gravity Loc R+ /R- /Rh /Rw /U /RL B 736 /- /- /611 /388 /- J 555 /- /146 /619 /551 /493 Wind reactions based on MWFRS B Brg Wid = 3.5 Min Req = 1.5 (Truss) J Brg Wid = 1.5 Min Req = - Bearing B is a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp.				
				Lumber Value Set: NDS 2015 Top chord: 2x4 SP #1; T2 2x6 SP #2; T3 2x4 SP #2; Bot chord: 2x4 SP #1; Webs: 2x3 SPF Stud; W3 2x4 SP #1; W11 2x4 SP #2; Lt Slider: 2x4 SP #1; block length = 1.50' Bracing (a) Continuous lateral restraint equally spaced on member. (**) 2 plate(s) require special positioning. Refer to scaled plate plot details for special positioning requirements. Wind Wind loads based on MWFRS with additional C&C member design. Wind loading based on both gable and hip roof types. Lanai/Porch Loading : 33.8 PLF wind pressure applied to the bottom chord of the truss from 0.00 ft to 14.75 ft. (F) No gap at hinged connection, provide a minimum of 2" wood to wood contact when hinged section is raised. Refer to DRWG HINGPL161014, HINGPL781014, SHEARPLT1014 for hinge and shear plate details. (L) The project engineer or building designer shall provide lateral stability at top of vertical web.	Circling numbers indicate type of field connection required per ply. See schedule for connection loads and requirements. Tight fit is required between all members at the joint. All field connections shall be designed by the project Engineer and conform to the home manufacturer's installation details. Warning: Failure to provide proper field connection may result in inadequate structural performance. Field connection schedule: <table border="1"> <thead> <tr> <th>Type</th> <th>Maximum load(lbs) notes:</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>644T / 409C -T=tension load. -C=compression load.</td> </tr> <tr> <td>2</td> <td>236T / 236C 250 -design connection for combined axial + shear axial + shear load shown.</td> </tr> </tbody> </table>	Type	Maximum load(lbs) notes:	1
Type	Maximum load(lbs) notes:							
1	644T / 409C -T=tension load. -C=compression load.							
2	236T / 236C 250 -design connection for combined axial + shear axial + shear load shown.							



Note: The Registered Design Professional shall design the supports (wall and/or beams, connections, and building system) To accommodate horizontal reactions ("RH & RL") where shown.



12/20/2023 FL REQ# 278, David J. Rothweiler, FL PE# 88430

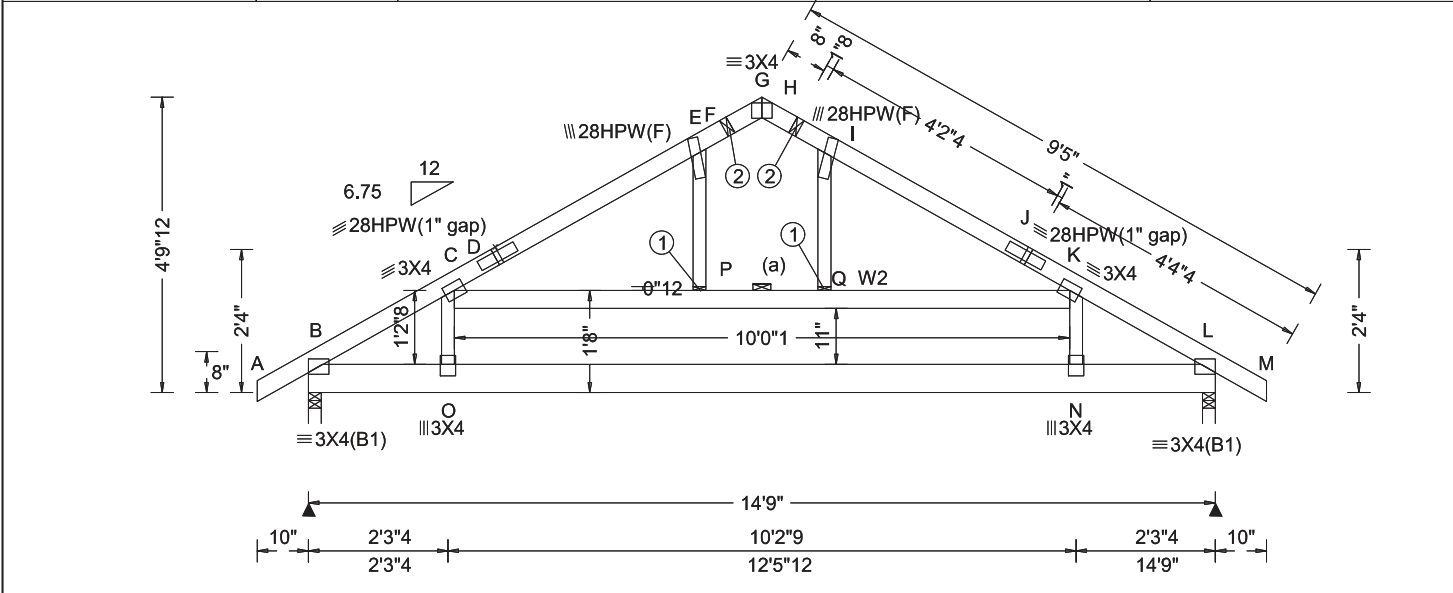
****WARNING** READ AND FOLLOW ALL NOTES ON THIS DRAWING!**
****IMPORTANT** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS**
 Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCEA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have continuous lateral restraint (CLR), installed with diagonal bracing installed on the CLR per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. Refer to job's General Notes page for additional information.
 Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.
 For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCEA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

Fabrication by: UFP
 Haleyville LLC, #317
 AL

ALPINE
 AN ITW COMPANY
 155 Harlem Ave
 North Building, 4th Floor
 Glenview, IL 60025

SEQN: 1503 FROM: COMN Ply: 1 Qty: 1 Job Number: 115301 DEER VALLEY Truss Label: P1253524 Ref. 10021862

Doc: R1130 Ref: TW991300001 T77 DwnNo: 354.23.0906.31217 DLD / DJR 12/19/2023



Loading Criteria (psf) TCCL: 20.00 TCCL: 10.00 BCLL: 0.00 BCLL: 10.00 Des Ld: 40.00 NCBCLL: 10.00 Soffit: 2.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Criteria Wind Std: ASCE 7-22 Speed: 180 mph Enclosure: Part. Enc. Risk Category: II EXP: C Kzt: NA Mean Height: 25.00 ft TCCL: 5.0 psf BCLL: 5.0 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.55 Wind Duration: 1.60	Snow Criteria (Pg,Pf in PSF) Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Building Code: FBC 8th Ed. 2023 Res. TPI Std: 2014 Rep Fac: Yes FT/RT:0(0)/0(0) Plate Type(s): WAVE	Defl/CSI Criteria PP Deflection in loc L/def L/# VERT(LL): -0.100 999 240 VERT(CL): -0.115 999 240 HORZ(LL): -0.045 E - - - HORZ(TL): 0.048 E - - - Creep Factor: 2.0 Max TC CSI: 0.658 Max BC CSI: 0.417 Max Web CSI: 0.299 VIEW Ver: 23.02.01.1109.17	Maximum Reactions (lbs) <table border="1"> <thead> <tr> <th rowspan="2">Loc</th> <th colspan="3">Gravity</th> <th colspan="3">Non-Gravity</th> </tr> <tr> <th>R+</th> <th>/R-</th> <th>/Rh</th> <th>/Rw</th> <th>/U</th> <th>/RL</th> </tr> </thead> <tbody> <tr> <td>B</td> <td>668</td> <td>-</td> <td>-</td> <td>677</td> <td>798</td> <td>269</td> </tr> <tr> <td>L</td> <td>668</td> <td>-</td> <td>-</td> <td>677</td> <td>798</td> <td>-</td> </tr> </tbody> </table> Wind reactions based on MWFRS B Brg Wid = 2.5 Min Req = 1.5 (Truss) L Brg Wid = 2.5 Min Req = 1.5 (Truss) Bearings B & L are a rigid surface. Members not listed have forces less than 375# Maximum Top Chord Forces Per Ply (lbs) <table border="1"> <thead> <tr> <th colspan="2">Chords</th> <th>Tens.Comp.</th> <th colspan="2">Chords</th> <th>Tens. Comp.</th> </tr> </thead> <tbody> <tr> <td>B - C</td> <td>1376</td> <td>-1014</td> <td>G - H</td> <td>689</td> <td>-248</td> </tr> <tr> <td>C - D</td> <td>660</td> <td>-387</td> <td>H - I</td> <td>687</td> <td>-265</td> </tr> <tr> <td>D - E</td> <td>678</td> <td>-364</td> <td>I - J</td> <td>678</td> <td>-364</td> </tr> <tr> <td>E - F</td> <td>687</td> <td>-265</td> <td>J - K</td> <td>660</td> <td>-387</td> </tr> <tr> <td>F - G</td> <td>689</td> <td>-248</td> <td>K - L</td> <td>1372</td> <td>-982</td> </tr> </tbody> </table>	Loc	Gravity			Non-Gravity			R+	/R-	/Rh	/Rw	/U	/RL	B	668	-	-	677	798	269	L	668	-	-	677	798	-	Chords		Tens.Comp.	Chords		Tens. Comp.	B - C	1376	-1014	G - H	689	-248	C - D	660	-387	H - I	687	-265	D - E	678	-364	I - J	678	-364	E - F	687	-265	J - K	660	-387	F - G	689	-248	K - L	1372	-982
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F - G	689	-248	K - L	1372	-982																																																														

Lumber
 Value Set: NDS 2015
 Top chord: 2x4 SP #2;
 Bot chord: 2x6 SP #2;
 Webs: 2x3 SPF Stud; W2 2x4 SP #2;

Bracing
 (a) Continuous lateral restraint equally spaced on member.

Wind
 Wind loads based on MWFRS with additional C&C member design.
 Wind loading based on both gable and hip roof types.
 (F) No gap at hinged connection, provide a minimum of 2" wood to wood contact when hinged section is raised.
 Refer to DRWG HINGPL161014, HINGPL781014, SHEARPLT1014 for hinge and shear plate details.
 Horizontal web supports no additional loads.

Circled numbers indicate type of field connection required per ply. See schedule for connection loads and requirements. Tight fit is required between all members at the joint. All field connections shall be designed by the project Engineer and conform to the home manufacturer's installation details. Warning: Failure to provide proper field connection may result in inadequate structural performance.

Field connection schedule:

Type	Maximum load(lbs)	Notes:
1	92T / 92C	-T=tension load. -C=compression load.
2	742T/ 266C	-design connection for combined axial + shear axial + shear load shown.

Maximum Bot Chord Forces Per Ply (lbs)

Chords		Tens.Comp.	Chords		Tens. Comp.
B - O	844	-1054	N - L	851	-1054
O - N	846	-1059			

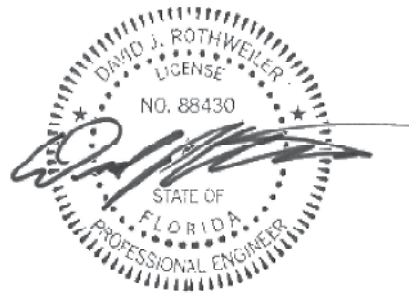
Maximum Web Forces Per Ply (lbs)

Webs		Tens.Comp.	Webs		Tens. Comp.
C - P	963	-619	Q - K	963	-619
P - Q	963	-619			

These prints comply with the Florida Manufactured Building Act and adopted Codes and adhere to the following criteria:

APPROVED BY

Const. Type: VB
 Occupancy: R
 Allowable No. of Floors: 1
 Wind Velocity: 160 MPH Vel.
 Fire Rating of Ext. Walls: 0
 Plan No.: MET-10186-SVM-12564
 Allow. Floor Load: 40
 Approval Date: 02/23/2026
 Manufacturer: Deer Valley



12/20/2023 FL REQ# 278, David J. Rothweiler, FL PE# 88430

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 For more information see these web sites: Alpine: alpineitw.com; TPI: tpinst.org; SBCEA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

Fabrication by: UFP Haleyville LLC, #317 AL

 155 Harlem Ave North Building, 4th Floor Glenview, IL 60025