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 CODES FLORIDA

2020 National Electrical Code

8TH EDITION (2023)Florida Energy Effciency 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:

APPROVED BY NTA 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

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

SPECIAL CONDITIONS & REQUIREMENTS:

1. Any site added structures must be independent of the factory building unless the entire building is re-evaluated by the site engineer/architect.

2.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.

3. 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.

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 5' 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
    PROTECTION OF OPENINGS: REF. R301.2.1.2 (IRC)
    PROVIDED ON-SITE BY OTHERS

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 TYPICIAL 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)

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

(signature)

Wind Importance Factor: 1.0
Internal Pressure Coefficient: 0.18

Nader Tomasbi
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

NADER TOMASBI LICENSE No. 56556 STATE OF FLORIDA PROFESSIONAL ENGINEER

2/20/2026

ADDITIONAL SPECIAL CONDITIONS AND/OR LIMITATIONS AND/OR ITEMS SUBJECT TO LOCAL

A. ELECTRICAL
1. INTERCONNECTION BETWEEN MODULES.
2. SERVICE ENTRANCE AND GROUNDING ELECTRODE CONDUCTORS.
3. FIRE WARRING EQUIPMENT IS TO BE TESTED FOR PROPER OPERATION SEE EQUIPMENT INSTRUCTIONS.
4. MECHANICAL WHOLE HOUSE VENTILATION TO BE FIELD INSTALLED PER TABLES M1507.3.3(1) AND M1507.3.3(2) OF THE 2015 IRC

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(226.5lmin) PER 100 ft2 (9.29m2 OF CONDITIONED FLOOR AREA WHEN TESTED AT A PRESSURE DIFFRENTIAL 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 BOOTS SHALL BE TAPED OR OTHERWISE SEALED DURING THE TEST.

D. STRUCTURAL
1. THE DESIGN AND CONSTRUCTION OF THE FOUNDATION SYSTEM.
2. COMPLETION OF EXTERIOR SIDING AT END WALLS.
3. INSTALLATION OF GABLE OR RIDGE VENTS.
4. CONNECTION OF FLOOR SYSTEM.
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.

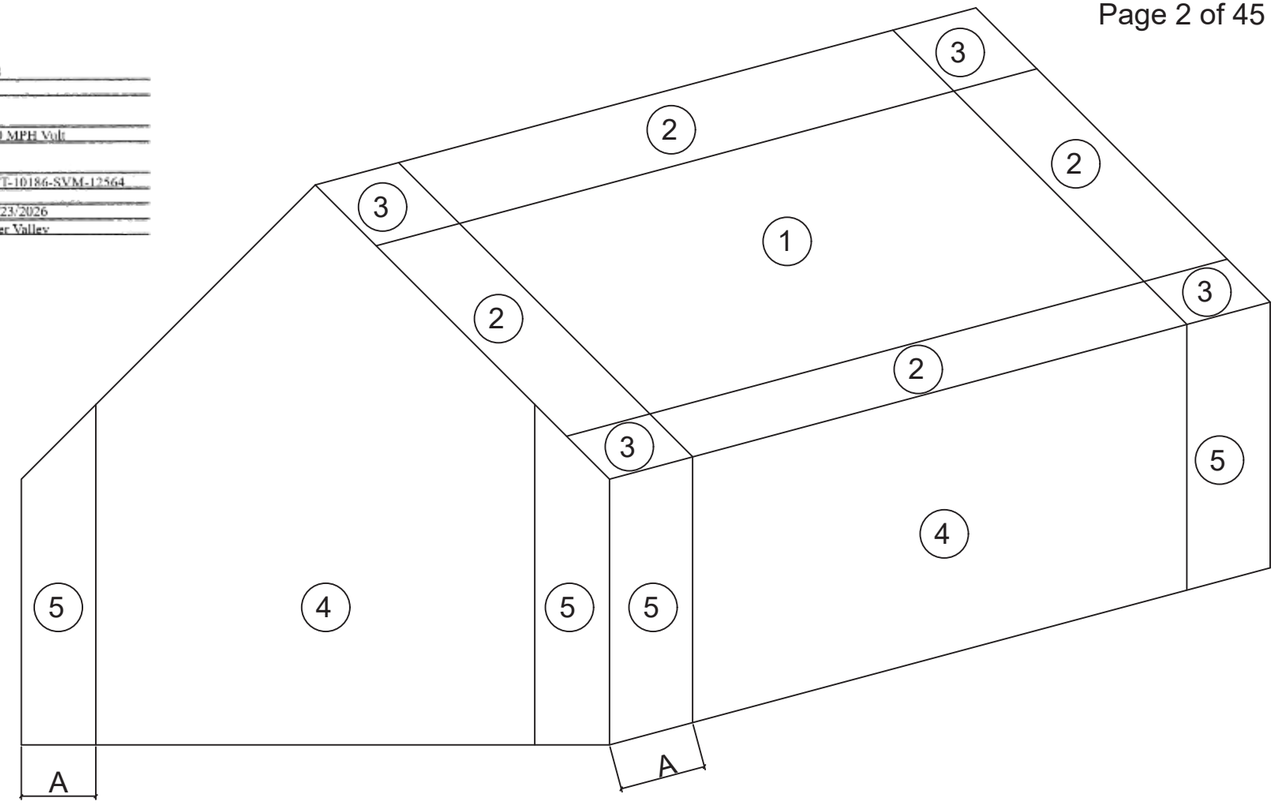
REVISIONS	CUSTOMER:	APPROVAL STAMP:		
		Nader Tomasbi, P.E. 58665 Glenriver Drive Goshen IN 46526	DEER VALLEY HOMEBUILDERS, INC. SIGNATURE SERIES RANCH STRUCTURAL SYSTEM MOD	APPROVED BY: J.TRIPLETT; SCALE: NTS PRINT DATE: 02/10/26; REV: TITLE: COVER SHEET MODEL: SVM-12564; DWG. NO: A.01 MODEL: MFT-10186-SVM-12564

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

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

APPROVED BY NTA 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



SITE INSTALLED ITEMS:

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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

NADER TOMASBI LICENSE No. 56556 STATE OF FLORIDA PROFESSIONAL ENGINEER

2/20/2026

REVISIONS	CUSTOMER:	APPROVAL STAMP:	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:	
TITLE:	COVER SHEET
MODEL:	SVM-12564
DWG. NO:	A.01.1
MODEL:	MFT-10186-SVM-12564

NOTES:

1. 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,
2. FOR DOOR AND WINDOW SIZES SEE SPEC. (SEE PAGE A.02.)
3. 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.
4. ALL FLOOR PLANS MAY BE ROTATED 180 DEGREES AND/OR REVERSED IN ANY DIRECTION, IN PART OR IN THEIR ENTIRETY.
5. ALL INDIVIDUAL FLOOR PLANS WILL BE WITHIN THE DIMENSIONAL LIMITS SHOWN ON THIS DRAWING.
6. 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.
7. 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
8. MINIMUM ROOM SIZE IS 70 SQ.FT. WITH A 7'-0" MIN. DIMENSION AND 1 ROOM AREA OF AT LEAST 120 SQ.FT.
9. 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.
10. OPTIONAL FIREPLACES MAY BE ADDED, PROVIDING THEY MEET ALL REQUUIREMENTS OF IRC/MECHANICAL CODE AND INSTALLED PER MANUFACTURERS INSTALLATION INSTRUCTIONS.
11. EXTERIOR DOORS MAY BE RELOCATED IN SAME ROOM TO DIFFERENT AREA
12. WINDOWS MAY BE REARRANGED OR A WINDOW MAY BE ADDED PER IECC
13. CLOTHS DRYER EXHAUST ON SITE BY OTHERS.
14. ALL EXHAUST AIR FROMRANGE HOODS AND BATHROOM VENTS SHALL BE VENTED TO THE EXTERIOR.
15. 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.
16. ALL SOURCES OF POSSIBLE AIR INFILTRATION ARE REQUIRED TO BE CAULKED, GASKETED, WEATHERSTRIPPED, WRAPPED , OR OTHERWISE SEALED TO LIMIT AIR MOVEMENT.
17. COSTRUCTION DOUMENTS 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

WINDOW LIGHT & VENT CHART

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

"- E" DESIGNATION (3672-E, FOR EXAMPLE) INDICATES EMERGENCY & RESCUE OPENING COMPATABILITY

DOOR LIGHT & VENT CHART

ALL EXTERIOR DOOR W/GLASS REQUIRED SAFETY GLAZE SG (SAFTY GLAZE)

DP-RATING	
EXP-B	47.2
EXP-C	50.0

DESCRIPTION	LIGHT	VENT	R.O.	SF-(MAX)	U-FACTOR	SHGC.
* 3680 (STORM w/OPEN SLIDER)	11.9	5.7	21.10	142 SF		
3680 (6 PANEL)	N/A	N/A	21.10		.27	.00
3680 (9 LITE & ROUNDTOP)	5.50	N/A	21.10		.27	.17
3680 (15 LITE)	9.78	N/A	21.10		.31	.24
3680 (3/4 OVAL)	3.78	N/A	21.10		.24	.16
3680 (FULL OVAL)	7.78	N/A	21.10		.30	.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

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

APPROVED BY NTA 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

ELECTRIC CIRCUIT SCHEDULE

** GFI CIRCUIT PROTECTION **** PER MANUFACTURERS RECOMENDATION/APPLIANCE DEMAND PLUS 125% CONTINUOUS AND/OR MOTOR LOAD FACTOR
KITCHEN, DISWAHSER, FREEZER & WASHER, CIRCUITS MUST BE GFI & ARC FAULT PROTECTED
ALL OTHER NEC CODES CIRCUITS 15A & 20A MUST BE ARC FAULT PROTECTED
ALL CIRCUITS 125V, 15A & 20A MUST BE TAMPER -RESISTANT.

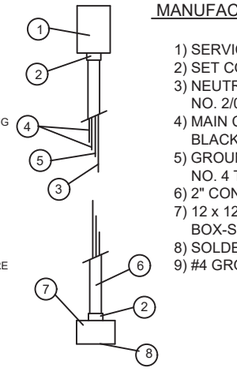
CIR. NO.	PURPOSE	AMPS (POLES)	VOLTS	WIRE SIZE	CIR. NO.	PURPOSE	AMPS (POLES)	VOLTS	WIRE SIZE
1	SMALL APPLIANCES	20 (1)	120	12	20	LAUNDRY (WASHER)	20 (1)	120	12
2	BATHS	20 (1)	120	12	21	DRYER	30 (2)	240	10
3	SMALL APPLIANCES	20 (1)	120	12	22	SMOKE DETECTORS	15 (1)	120	14
4	SMALL APPLIANCES	20 (1)	120	12	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 SEPARATE 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

- S SWITCH LEG
- (CL) LISTED AND APPROVED FOR OVER TUB
- LIGHT (FLUORESCENT)
- SERVICE PANEL
- S SWITCH [JB] JUNCTION BOX
- RECEPTACLE
- RECEPTACLE 20 AMP
- WEATHER PROOF RECEP
- (A) NM CONNECTOR
- RECEPTACLE 220 V
- LIGHT (INCANDESCENT)
- (T) PROGRAMMABLE THERMOSTAT
- EXHAUST FAN
- EXHAUST FAN & LIGHT
- (SA) SMOKE ALARM — CO = CARBON MONOXIDE, PE = PHOTO ELECTRIC
- (WH) WATER HEATER
- [F] FURNACE

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		



FEEDER ASSEMBLY DETAILS
200 AMP UNDERGROUND

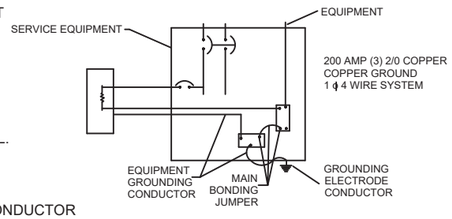
MANUFACTURERS SPECIFICATIONS

1) SERVICE PANEL 200 AMP
2) SET CONNECTOR FOR CONDUIT
3) NEUTRAL CONDUCTOR-WHITE NO. 2/0 THW-COP.
4) MAIN CONDUCTOR-RED AND BLACK 2/0 MCM-THW-CU.
5) GROUND CONDUCTOR-GREEN NO. 4 THW-COP.
6) 2" CONDUIT-EMT PVC OR EQUAL.
7) 12 x 12 x 4 WEATHER PROOF BOX-SCREW COVER.
8) SOLDERLESS CONNECTORS
9) #4 GROUNDING ELECTRODE CONDUCTOR

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

MODULAR GROUNDING DETAIL
200 MAIN SERVICE ENTRANCE

GROUNDING FOR GROUNDED SYSTEMS. SHOWING CONNECTION OF EQUIPMENT GROUNDING BUS TO THE ENCLOSURES AND THE GROUNDED CONDUCTOR. ALL EXPOSED METAL PARTS TO BE GROUNDED TO MAIN BONDING JUMPER (METAL FRAME, GAS LINE, HEAT DUCT, ETC.)



NADER TOMASBI
LICENSE
No. 56556
STATE OF FLORIDA
PROFESSIONAL ENGINEER

2/20/2026

REVISIONS

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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

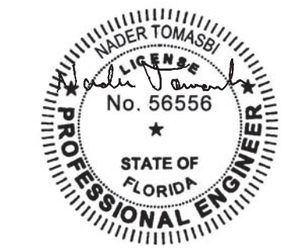
MOD

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

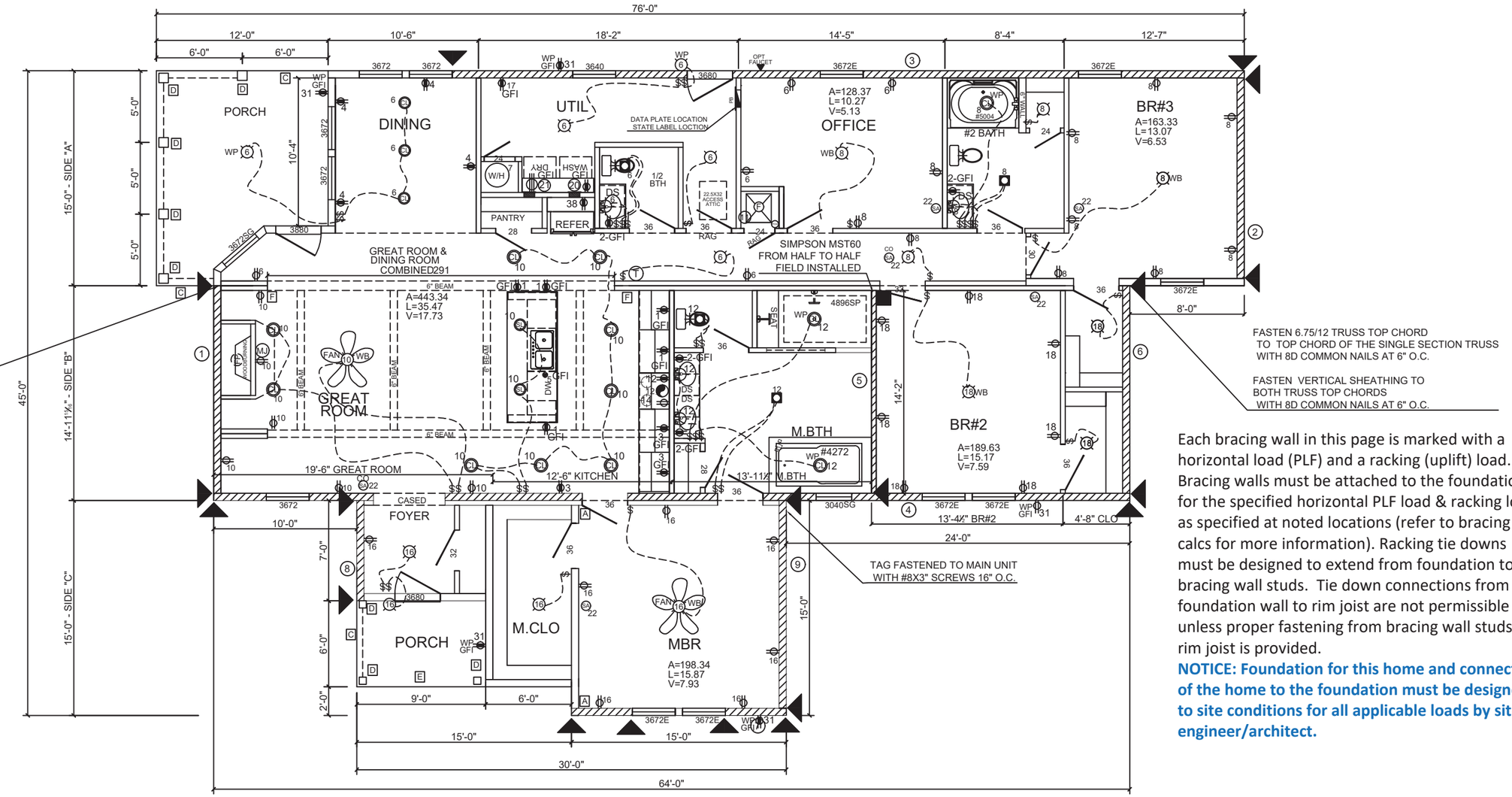
These prints comply with the Florida Manufactured Building Act and adopted Codes and adhere to the following criteria:

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

APPROVED BY NTA INC.



2/20/2026



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.

■ HDU8-SDS2.5 W/ (20) 1/4" X2 1/2 SDS (REQ. 4.5" MIN WOOD THICKNESS)

[E] ATTACH TRUSS TO (5) 2X8 #2 SYP OR SPF PORCH HEADER WITH (2) SDWC15600 SCREWS.

**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	
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	
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	

REVISIONS

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

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

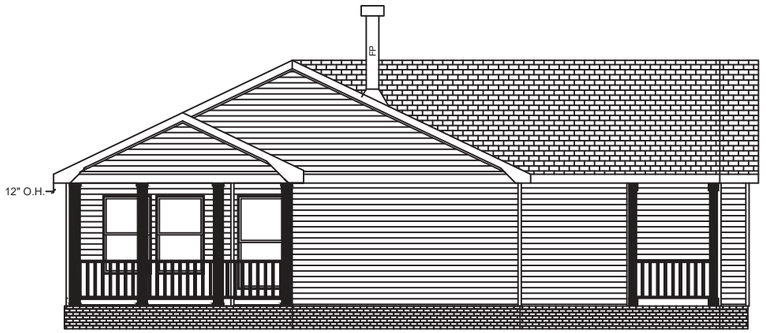
These prints comply with the Florida Manufactured Building Act and adopted Codes and adhere to the following criteria:

APPROVED BY NTA INC.

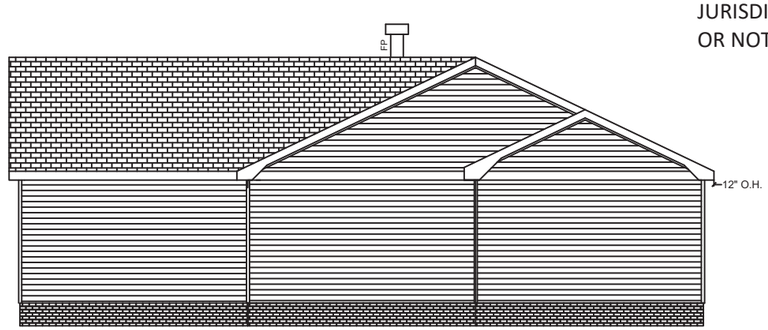
Const. Type:	VB
Occupancy:	R
Allowable No. of Floors:	1
Wind Velocity:	160 MPH Vult
Fire Rating of Ext. Walls:	0
Plan No.:	MFT-10186-SVM-12564
Allow. Floor Load:	40
Approval Date:	02/23/2026
Manufacturer:	Deer Valley

FRONT ELEVATION

ELEVATIONS SHOWN ON THIS PAGE REPRESENT BASIC COMPONENTS AND ARE NOT INTENEDED 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.



LEFT ELEVATION



RIGHT ELEVATION

NADER TOMASBI
LICENSE
No. 56556
STATE OF FLORIDA
PROFESSIONAL ENGINEER

2/20/2026

REAR ELEVATION

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

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

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

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:

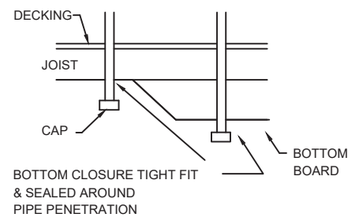
(A) = INLET WITH CAP & CHAIN.

(B) = 3/4 RELIEF DRAIN THRU FLOOR.

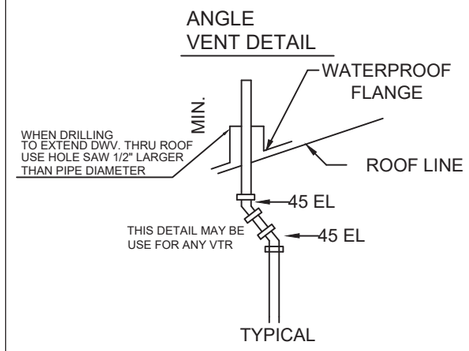
ALL WATER LINES 1/2" UNLESS OTHERWISE SHOWN.

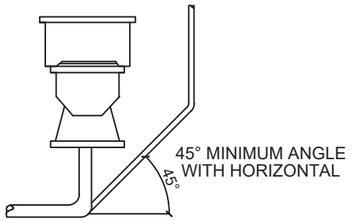
PIPING SUPPORT	
HOT & COLD FLEXIBLE	MAX. SPACING HORZ.&VERT.
3/4" & 1"	2'-8"

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



FLOOR DETAIL





STOOL VENTING DETAIL

< 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

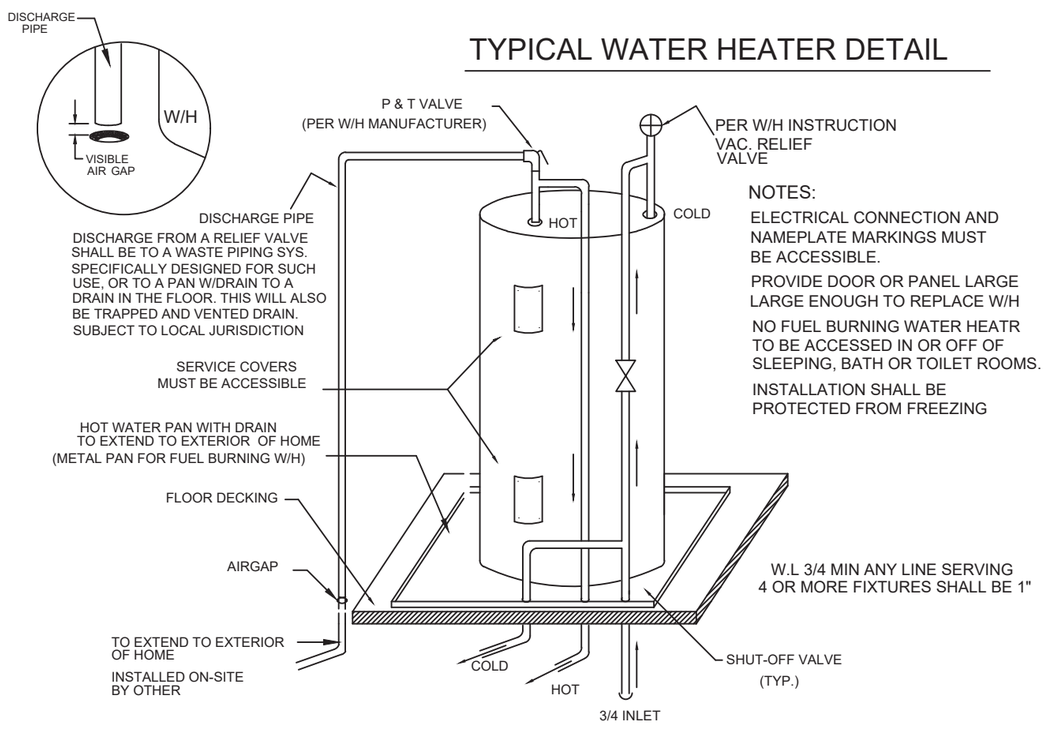
< 29) SHUT OFF VALVES ON ALL FIXTURES (OPTIONAL)

< 30) ALL PLUMBING IS TYPICALLY INSTALLED FOR EACH MODULE AT THE TIME OF MANUFACTURE. CERTAIN CICJ/RCUMSTANCES 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.

TYPICAL WATER HEATER DETAIL



NOTES:

ELECTRICAL CONNECTION AND NAMEPLATE MARKINGS MUST BE ACCESSIBLE.

PROVIDE DOOR OR PANEL LARGE 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

W.L 3/4 MIN ANY LINE SERVING 4 OR MORE FIXTURES SHALL BE 1"

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

OPT. GAS TANKLESS WATER HEATER

NADER TOMASBI
LICENSE
No. 56556
STATE OF FLORIDA
PROFESSIONAL ENGINEER

2/20/2026

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:		SCALE: NTS
PRINT DATE:	REV:	REV. DATE:

TITLE: TYPICAL PLUMBING LAYOUT

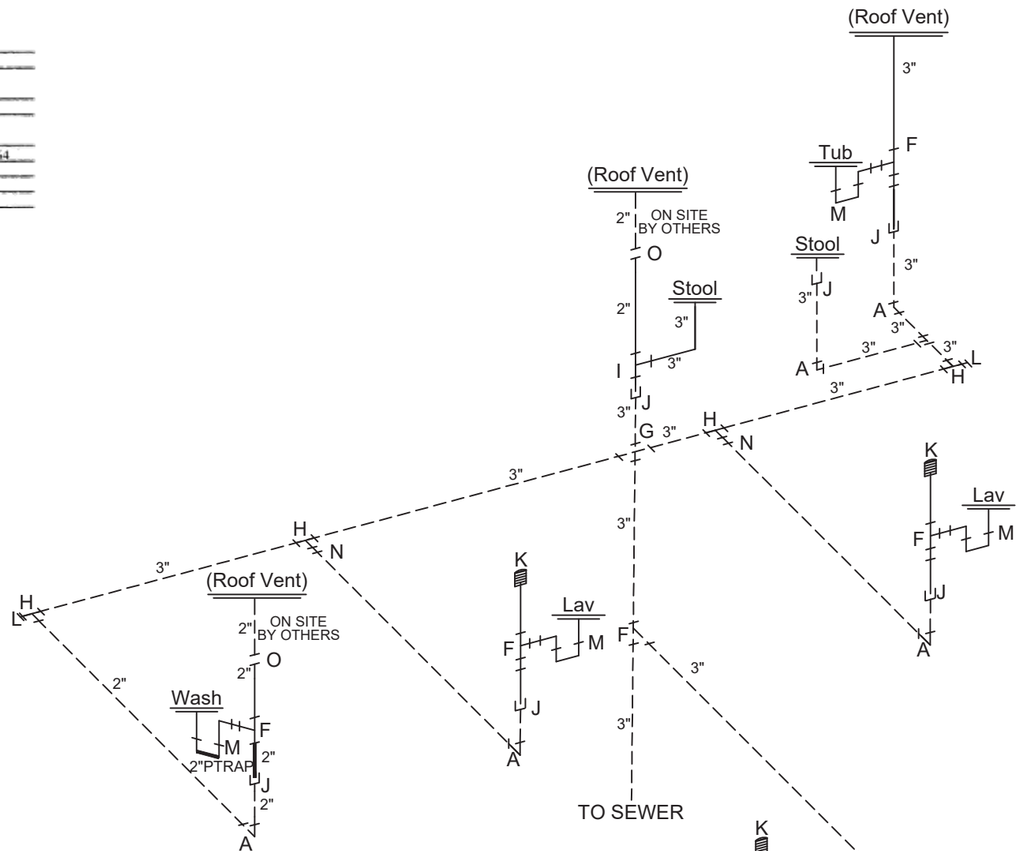
MODEL: MFT-10186-SVM-12564

DWG. NO: A.6

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

APPROVED BY NTA 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



	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	

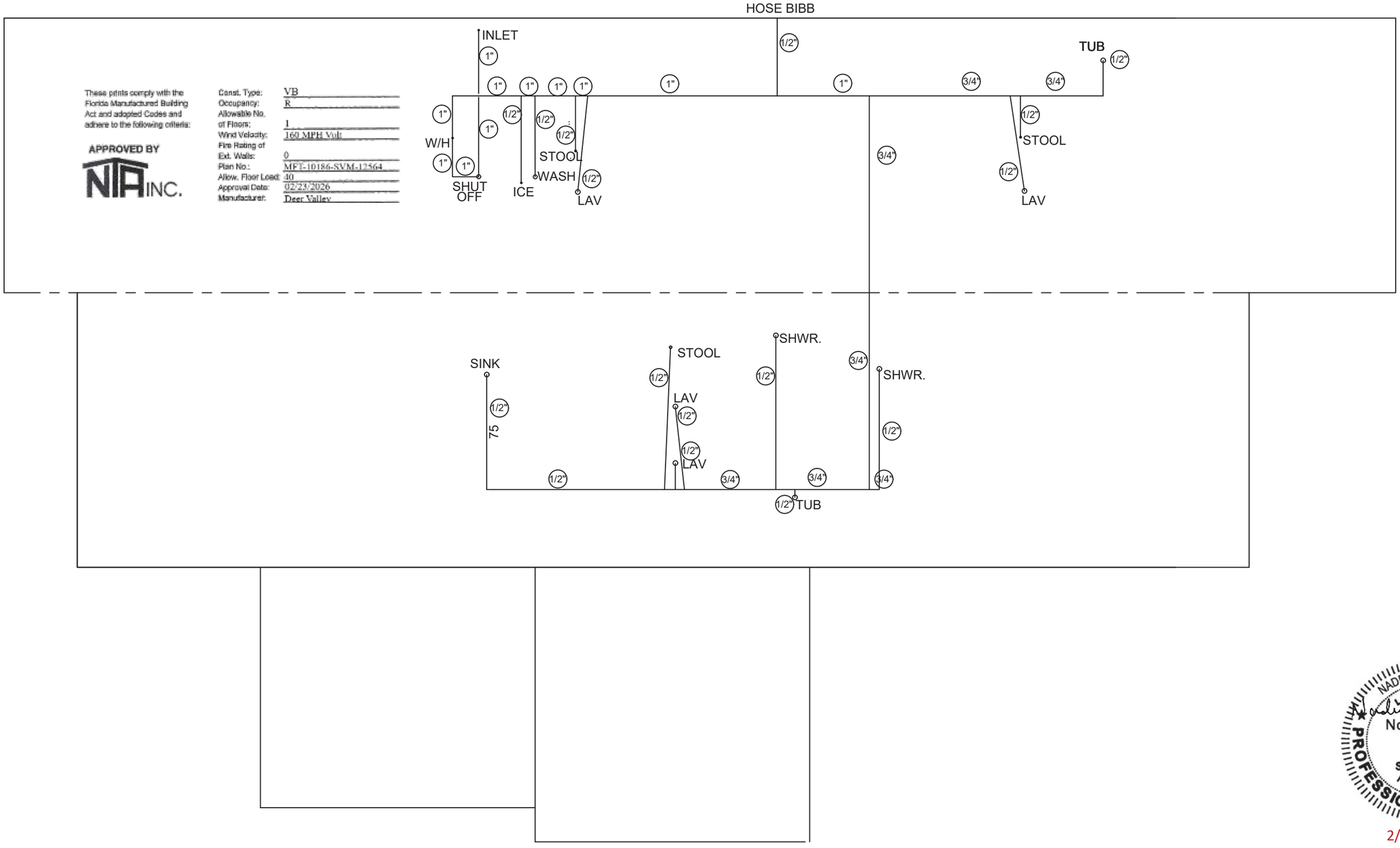
NADER TOMASBI
LICENSE
No. 56556
STATE OF FLORIDA
PROFESSIONAL ENGINEER
2/20/2026

REVISIONS

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

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

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

NADER TOMASBI LICENSE No. 56556 STATE OF FLORIDA PROFESSIONAL ENGINEER

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 CONDTITIONS 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
MOD

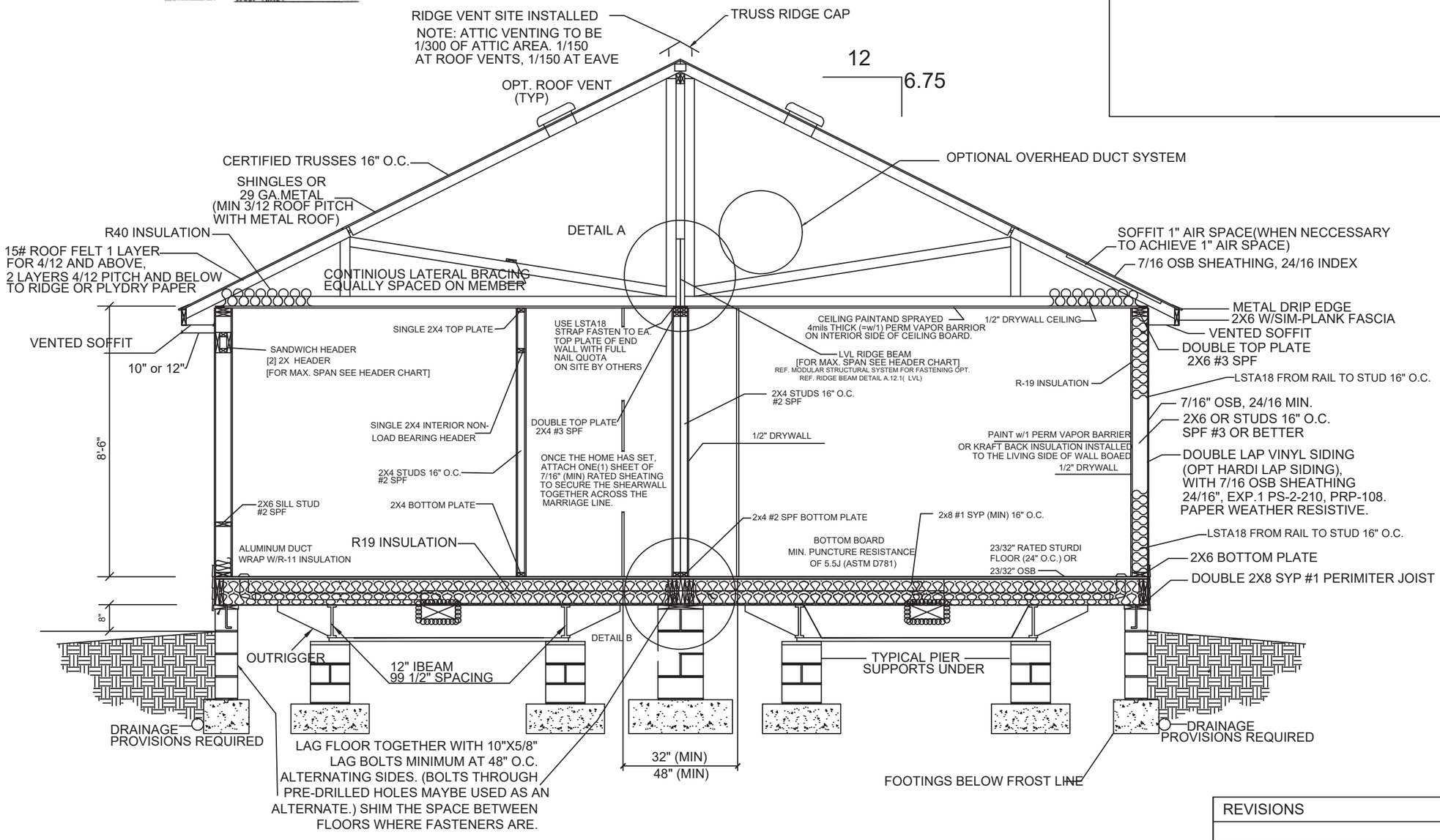
DEER VALLEY HOMEBUILDERS, INC.
205-468-8400
P.O. Box 310 / 205 Carriage St.
Guin, Alabama 35563

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

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

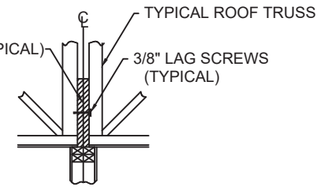
APPROVED BY NTA INC.

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



DETAIL A

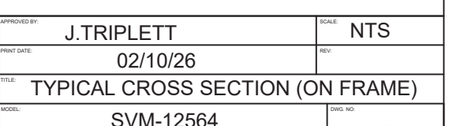
INTER-CONNECTION BETWEEN HALVES OF THE ROOF SYSTEM



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.

NADER TOMASBI
LICENSE
No. 56556
STATE OF FLORIDA
PROFESSIONAL ENGINEER

2/20/2026

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.

REVISIONS

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

APPROVED BY: J.TRIPLETT	SCALE: NTS
PRINT DATE: 02/10/26	REV:
TITLE: TYPICAL CROSS SECTION (ON FRAME)	
MODEL: SVM-12564	DWG. NO. A.9.1
MODEL: MFT-10186-SVM-12564	

FREE RETURN AIR

DOOR SIZE	2 1/2" UNDER CUT	
	1 1/4" (CLEAR OPENING)	
	MAX. SQ. IN. RETURN	MAX. SF ROOM SIZE
24" (23 1/4)	29.06	145 SF
28" (27 1/4)	34.06	170 SF
30" (29 1/4)	36.56	183 SF
32" (31 1/4)	39.06	195 SF
36" (35 1/4)	44.06	220 SF
48" (47 1/4)	59.06	295 SF

DUCT SIZE	FLEX DUCT	
	MAX. SQ. IN. RETURN	MAX. SF ROOM SIZE
5"	19.6	98.1 SF
6"	28.26	141.3 SF
7"	38.46	192.3 SF
8"	50.24	251.2 SF
9"	63.58	317.9 SF
10"	78.5	392.5 SF
12"	113.04	565.2 SF
14"	153.86	769.3 SF

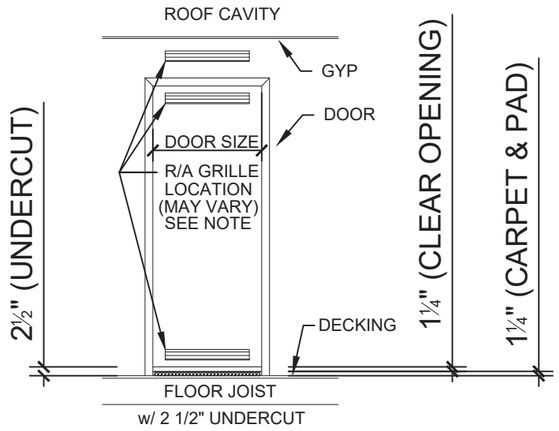
GRILLE SIZE	GRILLE	
	DOOR / WALL / CEILING	
	MAX. SQ. IN. RETURN	MAX. SF ROOM SIZE
24 X 4	63.36	316.8 SF
10 X 6	40.32	201.6 SF
12 X 6	47.52	237.6 SF
12 X 8	63.36	316.8 SF
14 X 20	164.16	820.8 SF
20 X 25	322.56	1612.8 SF

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	

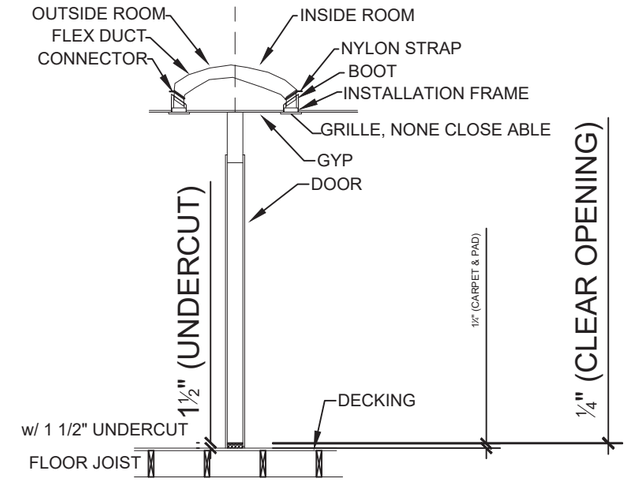
REGISTER SIZE

5 = 8x4
6 = 10x6
7 = 12x6
8 = 12x 8

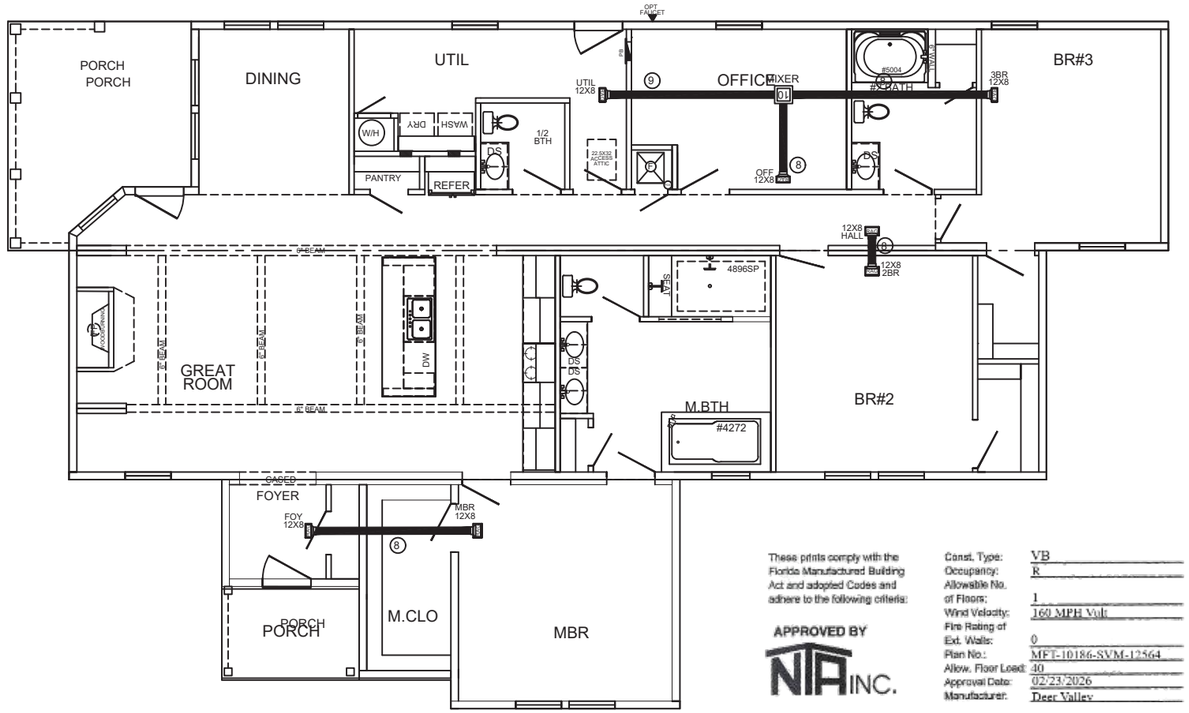


NOTE:
WHEN MAXIMUM ROOM SIZE HAS EXCEDDED THE FREE RETURN AIR PROVIDED BY THE DOOR'S UNDERCUT AREA, ONE OF THE FOLLOWING SHALL BE INSTALLED TO PROVIDE ADDITIONAL FREE RETURN AIR.
1. LOUVERED GRILLE MAY BE INSTALLED IN THE DOOR . OR IN THE HEADER ABOVE THE DOOR.
2. FLEX DUCT JUMPER / GRILLE MAY BE INSTALLED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

JUMPER
PERPENDICULAR TO TRUSS



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.

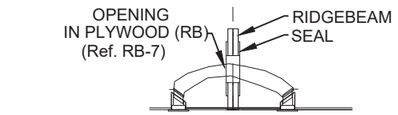


These prints comply with the Florida Manufactured Building Act and adopted Codes and adhere to the following criteria:

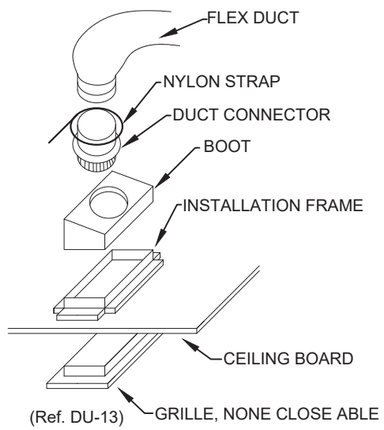
APPROVED BY NTA INC.

Const. Type:	VB
Occupancy:	R
Allowable No. of Floors:	1
Wind Velocity:	160 MPH Ult
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



NADER TOMASBI
LICENSE
No. 56556
STATE OF FLORIDA
PROFESSIONAL ENGINEER
2/20/2026

	REVISIONS
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CUSTOMER

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

MOD

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

Manual S Compliance Report
Entire House
AMS of Indiana, Inc.

Job: SVM-12564(DVHBSS-8026)
Date: 2/4/26
By: AMS of Indiana, Inc.

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)

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		

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

APPROVED BY NTA INC.

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

Manufacturer's Performance Data at Actual Design Conditions

Equipment type:	Split AC				
Manufacturer:	Generic		Model:	SEER2 14.3	
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%

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					
Manufacturer:	NORDYNE		Model:	E7E-015		
Actual airflow:	1035	cfm				
Output capacity:	47000	Btuh	172% of load		Temp. rise:	0 °F

NADER TOMASBI LICENSE No. 56556 STATE OF FLORIDA PROFESSIONAL ENGINEER

2/20/2026

Meets all requirements of ACCA Manual S.

wrightsoft

Load Short Form
Entire House
AMS of Indiana, Inc.

Job: SVM-12564(DVHBSS-8026)
Date: 2/4/26
By: AMS of Indiana, Inc.

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

Project Information

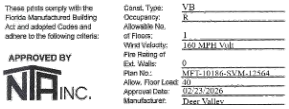
For: Deer Valley Homebuilders
SVM-12564(DVHBSS-8026)

Design Information

	Htg	Clg
Outside db (°F)	30	94
Inside db (°F)	70	75
Design TD (°F)	40	19
Daily range	-	M
Inside humidity (%)	30	50
Moisture difference (gr/lb)	14	42

Infiltration

Method	Simplified
Construction quality	Average
Fireplaces	1 (Average)



HEATING EQUIPMENT

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		

COOLING EQUIPMENT

Make	Generic
Trade	
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
gr\kt	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	34	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 NTA INC.

Const. Type:	VB
Occupancy:	R
Allowable No. of Floors:	1
Wind Velocity:	160 MPH Ult
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

Building Analysis
Entire House
AMS of Indiana, Inc.

Job: SVM-12564(DVHBSS-8026)
Date: 2/4/26
By: AMS of Indiana, Inc.

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

Outdoor:	**Heating**	**Cooling**
Dry bulb (°F)	30	94
Daily range (°F)	-	18 (M)
Wet bulb (°F)	-	76
Wind speed (mph)	15.0	7.5

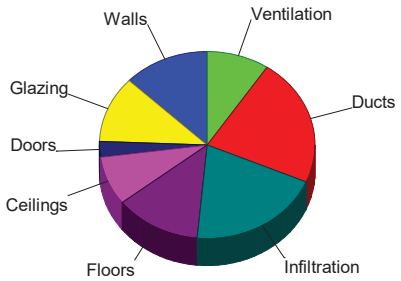
Indoor:	**Heating**	**Cooling**
Indoor temperature (°F)	70	75
Design TD (°F)	40	19
Relative humidity (%)	30	50
Moisture difference (gr/lb)	13.7	42.1

Infiltration:

Method	Simplified
Construction quality	Average
Fireplaces	1 (Average)

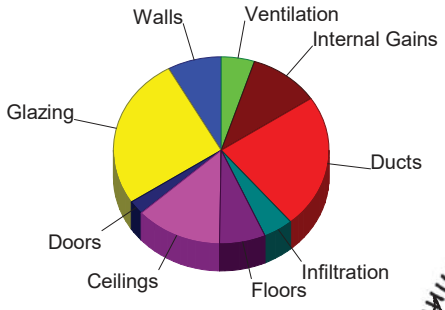
Heating

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	
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	
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:

APPROVED BY NTA 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

NADER TOMASBI
LICENSE
No. 56556
STATE OF FLORIDA
PROFESSIONAL ENGINEER

2/20/2026

wrightsoft

Component Constructions
Entire House
AMS of Indiana, Inc.

Job: SVM-12564(DVHBSS-8026)
Date: 2/4/26
By: AMS of Indiana, Inc.

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

Outdoor:	Heating	Cooling
Dry bulb (°F)	30	94
Daily range (°F)	-	18 (M)
Wet bulb (°F)	-	76
Wind speed (mph)	15.0	7.5

Indoor:	Heating	Cooling
Indoor temperature (°F)	70	75
Design TD (°F)	40	19
Relative humidity (%)	30	50
Moisture difference (gr/lb)	13.7	42.1

Infiltration:

Method	Simplified
Construction quality	Average
Fireplaces	1 (Average)

Construction descriptions	Or	Area ft²	U-value Btuh/ft²-°F	Insul R ft²-°F/Btuh	Htg HTM Btuh/ft²	Loss Btuh	Clg 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	380	0.053	19.0	2.14	814	1.19	453
	e	475	0.053	19.0	2.14	1017	1.19	565
	s	319	0.053	19.0	2.14	683	1.19	379
	sw	19	0.053	19.0	2.14	40	1.19	22
	w	454	0.053	19.0	2.14	972	1.19	540
	all	1647	0.053	19.0	2.14	3526	1.19	1959
Partitions								
(none)								
Windows								
CROFT: CROFT; 6.67 ft head ht	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-19cscp: 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

NADER TOMASBI LICENSE No. 56556 STATE OF FLORIDA PROFESSIONAL ENGINEER

2/20/2026

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

APPROVED BY NTA 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

wrightsoft

Project Summary
Entire House
AMS of Indiana, Inc.

Job: SVM-12564(DVHBSS-8026)
Date: 2/4/26
By: AMS of Indiana, Inc.

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 Manufactured Building Act and adopted Codes and adhere to the following criteria:

APPROVED BY NTA INC.

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

NADER TOMASBI LICENSE No. 56556 STATE OF FLORIDA PROFESSIONAL ENGINEER

2/20/2026

Design Information

Weather: Gainesville, FL, US

Winter Design Conditions

Outside db	30	°F
Inside db	70	°F
Design TD	40	°F
Ventilation Method	MJ8	

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

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

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

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

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

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		

Cooling Equipment Summary

Make	Generic
Trade	
Cond	SEER2 14.3
Coil	
AHRI ref	
Efficiency	12.2 EER 14.3 SEER2

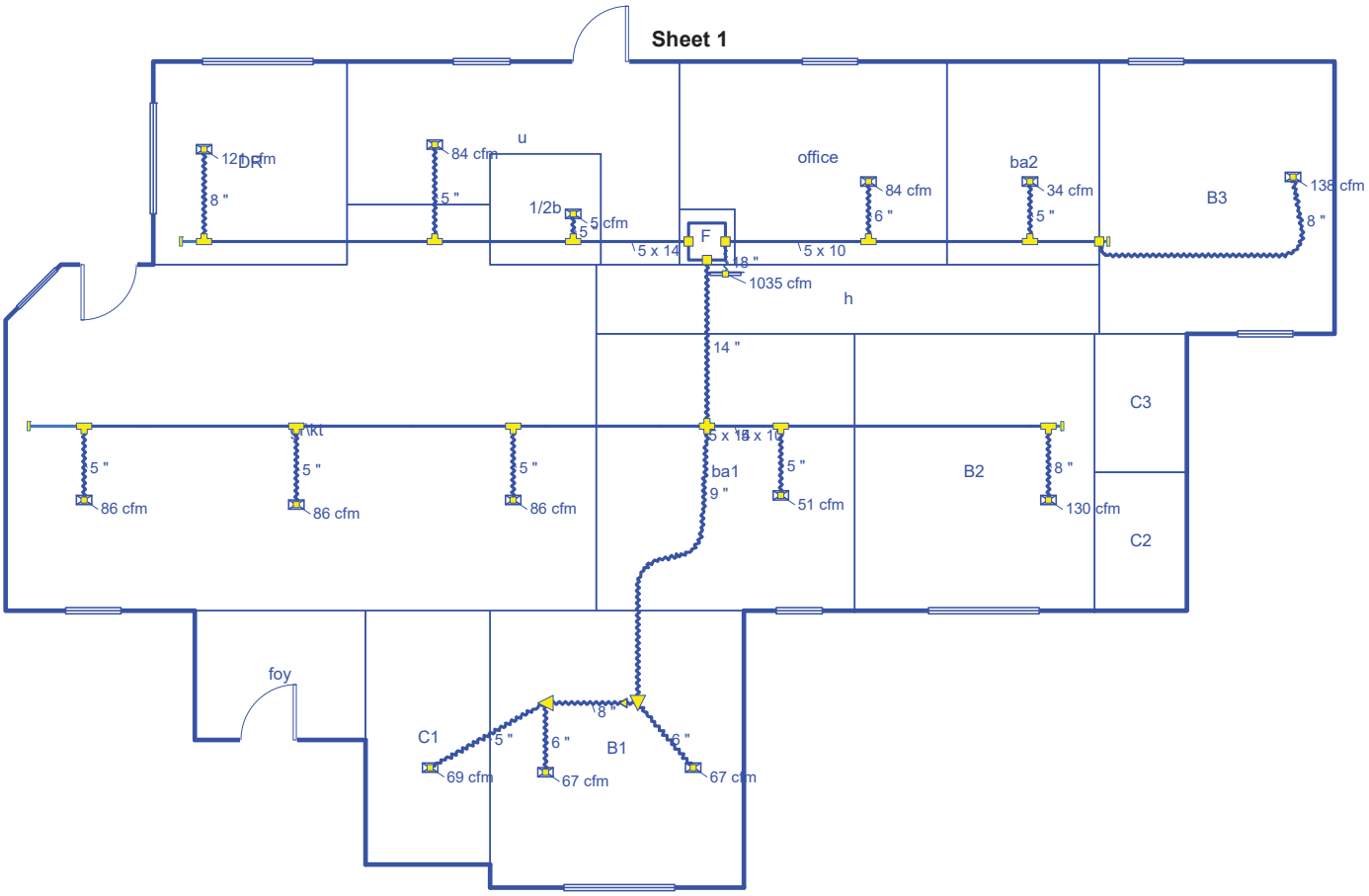
Sensible cooling	23941	Btuh
Latent cooling	10261	Btuh
Total cooling	34202	Btuh
Actual air flow	1035	cfm
Air flow factor	0.045	cfm/Btuh
Static pressure	0.50	in H2O
Load sensible heat ratio	0.81	

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 NTA 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



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 Right-Suite® Universal 2025 25.0.02 RSU56435 2026-Feb-04 15:17:35 ...12564(DVHBSS-8026)flex TRUNK.rup

Duct System Summary
Entire House
AMS of Indiana, Inc.

Job: SVM-12564(DVHBSS-8026)
Date: 2/4/26
By: AMS of Indiana, Inc.

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	0x 0	VlFx	7.8	150.0	st3
B1	c	1486	59	67	0.076	***6.0***	***0x 0***	VlFx	35.5	220.0	st4A
B1-A	c	1486	59	67	0.088	***6.0***	***0x 0***	VlFx	31.4	190.0	st4
B2-A	c	2876	129	130	0.086	8.0	0x 0	VlFx	31.5	195.0	st6
B3	h	3310	138	122	0.110	8.0	0x 0	VlFx	36.4	140.0	st1
C1-A	h	1658	69	36	0.075	5.0	0x 0	VlFx	38.9	220.0	st4A
DR	c	2695	106	121	0.120	8.0	0x 0	VlFx	31.2	130.0	st3
ba1	h	1235	51	46	0.087	5.0	0x 0	VlFx	16.8	205.0	st6
ba2	h	813	34	19	0.121	5.0	0x 0	VlFx	19.8	140.0	st1
gr\kt	c	1903	78	86	0.080	5.0	0x 0	VlFx	46.8	195.0	st5
gr\kt-B	c	1903	78	86	0.081	5.0	0x 0	VlFx	23.5	215.0	st5
gr\kt-D	c	1903	78	86	0.081	5.0	0x 0	VlFx	35.5	205.0	st5
office	c	1873	68	84	0.120	***6.0***	***0x 0***	VlFx	11.0	150.0	st1
u	h	2005	84	81	0.122	5.0	0x 0	VlFx	19.0	140.0	st3

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

APPROVED BY NTA 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

NADER TOMASBI LICENSE No. 56556 STATE OF FLORIDA PROFESSIONAL ENGINEER

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	VinlFlx	st4
st4	Peak AVF	187	169	0.075	424	9.0	0 x 0	VinlFlx	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***	VinlFlx	
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	0x 0	1035	1035	61.8	0.075	586	18.0	0x 0		VlFx	

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

APPROVED BY NTA 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

Bold/italic values have been manually overridden

FORM R405-2023

FLORIDA ENERGY EFFICIENC' JILDING CONSTRUCTION

Florida Department of Business and Pro Residential Performance Method

NADER TOMASBI LICENSE No. 56556 STATE OF FLORIDA PROFESSIONAL ENGINEER
2/20/2026

Project Name:	SVM-12564		Deer Valley Homebuilders
Street:	1716 NW Moore Farms Road		
City, State, Zip:	Lake City, FL, 32055		:
Owner:	David and Angela Moore		
Design Location:	FL, Jacksonville		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 (ft²)			2520	
Conditioned floor area below grade (ft²)			0	
7. Windows(233.9 sqft.)	Description		Area	
a. U-Factor:	Dbl, U=0.30		233.88 ft²	
SHGC:	SHGC=0.22			
b. U-Factor:	N/A		ft²	
SHGC:				
c. U-Factor:	N/A		ft²	
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 ft²	
SHGC(AVG):	N/A			
9. Floor Types		Insulation	Area	
a. Crawlspace		R= 19.0	2520.00 ft²	
b. N/A		R=	ft²	
c. N/A		R=	ft²	

10. Wall Types(1968.5 sqft.)		Insulation	Area
a. Frame - Wood, Exterior		R=19.0	1968.50 ft²
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 ft²
b. N/A			
c. N/A			
12. Roof(Comp. Shingles, Vented)	Deck	R=0.0	2818 ft²
13. Ducts, location & insulation level		R	ft²
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 Triplett

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.

GREAT SEAL OF THE STATE OF FLORIDA IN GOD WE TRUST

BUILDING OFFICIAL: _____

DATE: _____

- Compliance requires certification by the air handler unit manufacturer that the air handler enclosure qualifies as certified factory-sealed in accordance with R403.3.2.1.

- Compliance 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).

FORM R405-2023

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,
Family Type:	Detached	Whole House Fan:	No		FL, 32055
New/Existing:	New (From Plans)	Terrain:	Suburban		
Year Construct:	2026	Shielding:	Suburban		
Comment:					

CLIMATE

√	Design Location	Tmy Site	Design Temp 97.5%	Design Temp 2.5%	Int Design Temp Winter	Int Design Temp Summer	Heating Degree Days	Design Moisture	Daily temp Range
___	FL, Jacksonville	FL_JACKSONVILLE_INTL_A	32	93	70	75	1281	49	Medium

BLOCKS

√	Number	Name	Area	Volume
___	1	Block1	2520	21420 cu ft

SPACES

√	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.)

√	#	Floor Type	Space	Exposed Perim(ft)	Area	R-Value Perim.	R-Value Joist	U-Factor	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

√	#	Type	Materials	Roof Area	Gable Area	Framing. Fract.	Roof Color	Rad Barr	Solar Absor.	SA Tested	Emitt	Emitt Tested	Deck Insul.	Pitch (deg)
___	1	Gable or shed	Composition shingles	2818 ft²	630 ft²	0.00	Unfinished, Galvalum	N	0.75	Yes	0.4	Yes	0	26.57

ATTIC

√	#	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.)

√	#	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

FORM R405-2023

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	Width In	Height Ft	Height 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	Width In	Height Ft	Height 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

FORM R405-2023

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

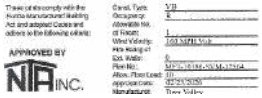
✓	Duct #	Supply Location	Supply R-Value	Supply Area	Return Location	Return R-Value	Return Area	Leakage Type	AHU Location	CFM 25 TOT|OUT	QN OUT	AHU SEALED	RLF	HVAC # Heat	HVAC # Cool
___	1	Attic	6.0	400 ft²	Attic	6.0	100 ft²	Proposed Qn	Main	---|---	0.040	Yes	0.50	1	1

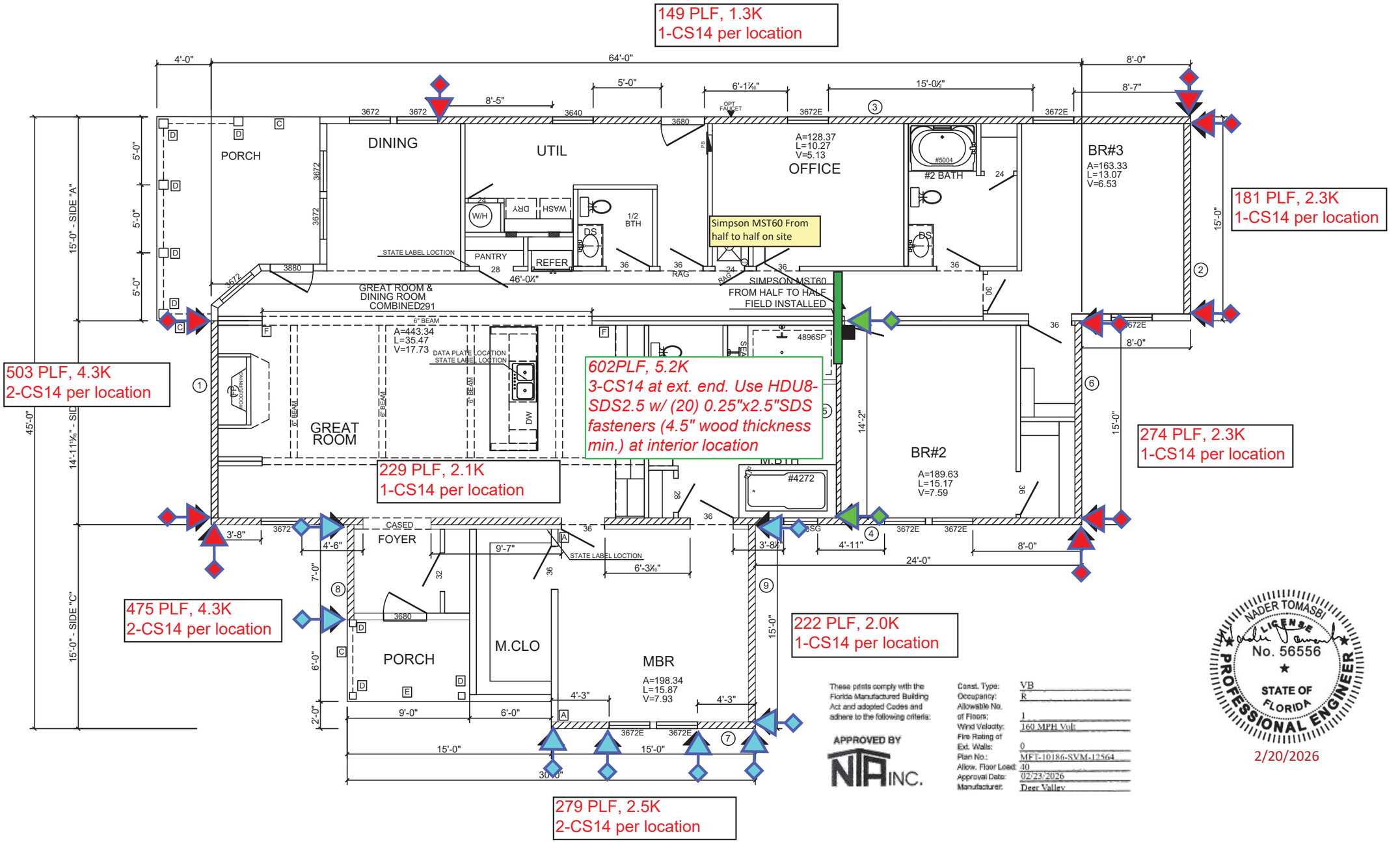
TEMPERATURES

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		Hours 1	2	3	4	5	6	7	8	9	10	11	12
___	Cooling (WD)	AM	75	75	75	75	75	75	75	75	75	75	75	75
		PM	75	75	75	75	75	75	75	75	75	75	75	75
___	Cooling (WEH)	AM	75	75	75	75	75	75	75	75	75	75	75	75
		PM	75	75	75	75	75	75	75	75	75	75	75	75
___	Heating (WD)	AM	72	72	72	72	72	72	72	72	72	72	72	72
		PM	72	72	72	72	72	72	72	72	72	72	72	72
___	Heating (WEH)	AM	72	72	72	72	72	72	72	72	72	72	72	72
		PM	72	72	72	72	72	72	72	72	72	72	72	72





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

APPROVED BY NTA INC.

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

NADER TOMASBI
LICENSE
No. 56556
STATE OF FLORIDA
PROFESSIONAL ENGINEER
2/20/2026

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	W:\DV Logo.dwg (2).jpg	DEER VALLEY HOMEBUILDERS, INC. SIGNATURE SERIES MOD	REV:	REV:	DWG. NO: 1.01
		SCALE: NTS	PRODUCTION BY:			REV:	REV:	

Bracing Tributary Length Determination

One Interior Wall | ASCE 7-16 | Deer Valley SVM-12564 MAIN

Endwall Length =	30	ft	Endwall added area=	0	ft
Sidewall Length =	64	ft			
Left Porch Length =	4	ft			
Right Porch Length =	0	ft	**Left Endwall Trib :**	**23**	**ft**
Wall Height =	9	ft	**First Interior Trib:**	**32**	**ft**
Heel Height of Truss =	8	in	**Right Endwall Trib :**	**9**	**ft**
Seismic category =	C				
Ultimate Wind Speed =	**160**	mph	Length Left endwall to int. wall =	46	ft
Wind Exposure =	**C**		Tag Location:	Bottom	
Roof pitch =	6.75	/12	Tag Wind Load:	2371	lbs
Mean Roof Height =	20	ft	Tag Seismic Load:	1284	lbs

Transition from Perforated to Segmented: **380** PLF

Left Endwall - Bracing #1

Perforated or Segmented: **S**
PLF: 503 plf
Height of Tallest Opening = 6.85 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
Total :	15	15

Right Endwall (hitch end) - Bracing #2

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
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
Total :	10.833	10.833

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2/20/2026

Top Sidewall - Bracing #3

Perforated or Segmented: **P**
PLF: 149 plf
Height of Tallest Opening = 7 ft
Wall length when perforated = 64 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
Total :	42.99967	42.99967

Bottom Sidewall - Bracing #4

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
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
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
0	0	0
Total :	15	15

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

APPROVED BY NTA 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

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LICENSE
No. 56556
STATE OF FLORIDA
PROFESSIONAL ENGINEER

2/20/2026

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

Deer Valley SVM-12564 MAIN

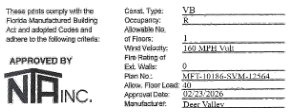
Wind Loads

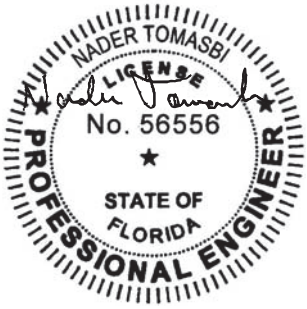
ASCE 7-16

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

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

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

APPROVED BY NTA 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

Seismic category = C
S_{DS} = 0.5

Wall DL = 10 psf
Roof DL = 20 psf

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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2/20/2026

Interior Bracing Wall

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

APPROVED BY NTA INC.

Const. Type:	VB
Occupancy:	R
Allowable No. of Floors:	1
Wind Velocity:	160 MPH Ult
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 =	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

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2/20/2026

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	

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APPROVED BY NTA 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

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		

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LICENSE
No. 56556
STATE OF FLORIDA
PROFESSIONAL ENGINEER

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				
			α =	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	
Building Class =	Enclosed Building			-0.18	

* 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**

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2/20/2026

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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

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APPROVED BY NTA 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

One Story Shear Wall Design

Deer Valley SVM-12564 MAIN

Summary of Forces

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.)

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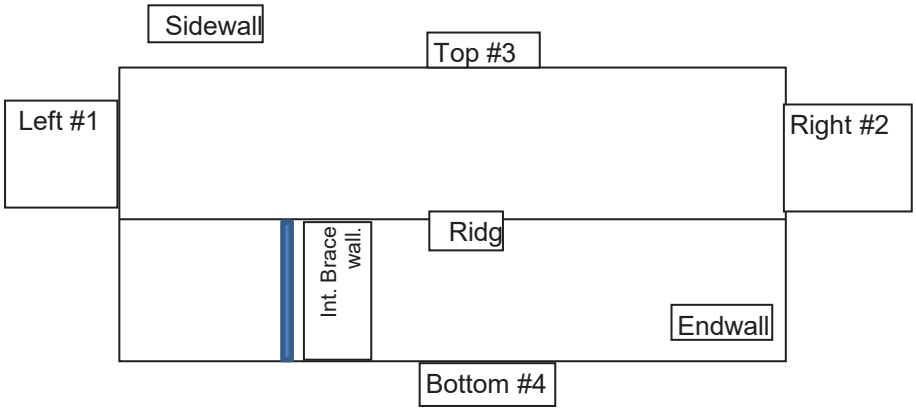
2/20/2026



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

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

APPROVED BY NTA INC.

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

Brace Wall Design

Deer Valley SVM-12564 MAIN

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:

APPROVED BY NTA 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

NADER TOMASBI
LICENSE
No. 56556
STATE OF FLORIDA
PROFESSIONAL ENGINEER

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 Design[2] =	231	plf	450.2727	plf
Thickness of Sheathing =	7/16	"		
Fastener =	.131 pd nail			
Edge Spacing of Fastener[3,4,5] =	nblocked 6	in o/c	3	in o/c
Species of Framing[6] =	SPF			

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

Sheathing Capacity[7] =	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:

APPROVED BY NTA 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

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2/20/2026

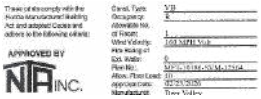
Bracing Tributary Length Determination

Deer Valley Homes SVM-12564 TAG

No Interior Walls | ASCE 7-16 | Endwall added area= 0 ft

Endwall Length =	26 ft		
Sidewall Length =	15 ft		
Porch Length (Left) =	0 ft		
Porch Length (Right) =	0 ft	**Left Endwall Trib From Wall:**	**7.5 ft**
Wall Height =	9 ft	**Left Endwall Trib From Roof:**	**7.5 ft**
Heel Height of Truss =	8 in	**Right Endwall Trib From Wall:**	**7.5 ft**
Seismic category =	C	**Right Endwall Trib From Roof:**	**7.5 ft**
Ultimate Wind Speed =	**160** mph		
Wind Exposure =	**C**		
Roof pitch =	6.75 /12		
Mean Roof Height =	20 ft		

Transition from Perforated to Segmented: **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
Total :	15.833	15.833

Tag load: 2371 Lb. Y

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
Total :	8.5	8.027778

Tag load: 0 Lb. N

Left Sidewall - Bracing #3

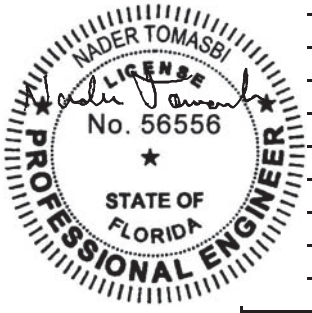
Perforated or Segmented: **S**
PLF: 475 plf
Height of Tallest Opening = 7 ft
Wall length when perforated = 15 ft

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
Total :	7	7

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
Total :	15	15



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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	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

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Building Values

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

APPROVED BY NTA 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

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
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:

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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

F_x = 0

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 **S**egmented:	**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

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Bottom Endwall - Bracing #2

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

APPROVED BY NTA 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

Perforated or **S**egmented:	**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 **S**egmented:	**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	

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Right Sidewall - Bracing #4

Perforated or **S**egmented:	**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				
			α =	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	
Building Class =	Enclosed Building			-0.18	

* 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**

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APPROVED BY NTA INC.

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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

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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:

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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

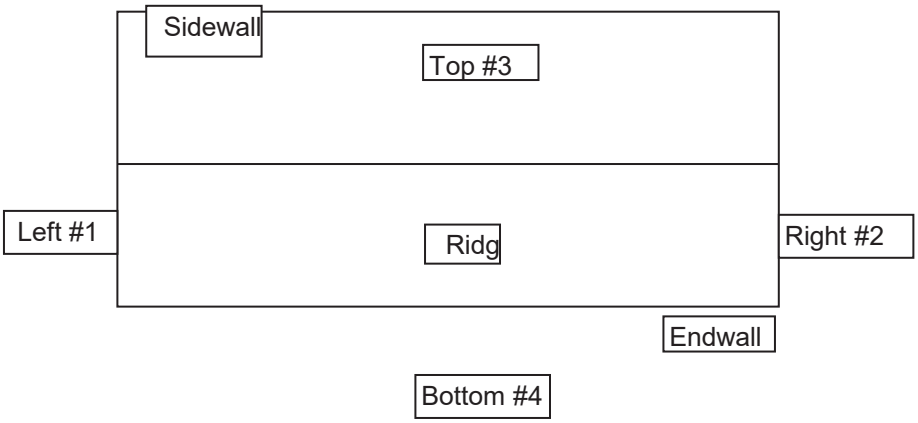
Brace wall	PLF-Load	CONSTRUCTION
Top endwall - Segmented	150	7/16 in sheathing One Side with .131 pd nail (studs at 16" o/c) at 4 in o/c edge spacing
Bottom endwall - Segmented	279	7/16 in sheathing One Side with .131 pd nail (studs at 16" o/c) at 4 in o/c edge spacing
Left sidewall - Segmented	475	7/16 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 Lb. TRANSFER TO MAIN UNIT**	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 tarnsfer:

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

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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 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**

NADER TOMASBI LICENSE No. 56556 STATE OF FLORIDA PROFESSIONAL ENGINEER

2/20/2026

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

APPROVED BY NTA 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

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 Design[2] = 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 Framing[6] = SPF

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

Sheathing Capacity[7] = 296.24 plf

Shear Wall **OK**

Blocking only required at 0 ft from each endwall

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 adjoining panel edges shall be 3" nominal or wider & 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-1539

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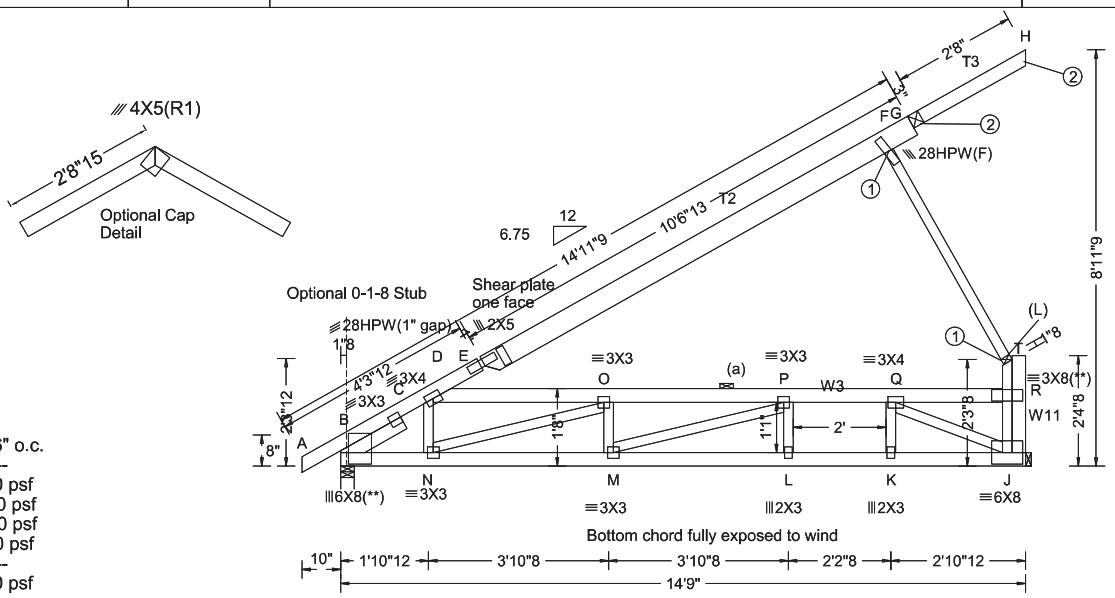
2/20/2026

SEQN: 1505 MONO	Ply: 1	**Job Number:** 115301	Quot: R 9130 Ref: TWR91300003 T63	
FROM:	Qty: 1	DEER VALLEY	DrwNo: 353.23.1549.31027	
		Truss Label: HMD18832 Ref. 10021862	DLD / PPH 12/19/2023	



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)

TCLL:	20.00
TCDL:	10.00
BCLL:	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
TCDL: 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.
B - C	789	-1156	D - E	172	-531
C - D	789	-1114	E - F	226	-498

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - N	1015	-707	L - K	647	0
N - M	963	-181	K - J	629	0
M - L	648	0			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
D - O	925	-811	F - T	597	-383
N - O	144	-541	Q - J	414	-727
O - P	387	-834	Q - R	372	-582
M - P	524	-622	J - R	495	-304
P - Q	0	-526	R - T	467	-302

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 = 1.500'

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.

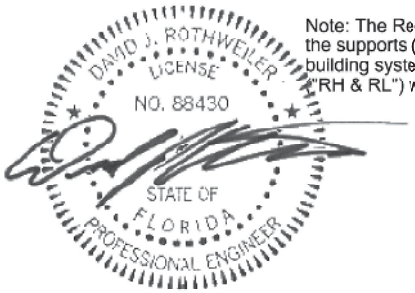
(L) The project engineer or building designer shall provide lateral stability at top of vertical web.

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 desinged 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) Axial	Shear
1	644T / 409C	---
2	236T / 236C	250

Notes:
-T=tension load.
-C=compression load.
-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 SBCA) 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; SBCA: sbcacomponents.com; ICC: iccsafe.org; AWC: awc.org

Fabrication by: UFP Haleyville LLC, #317
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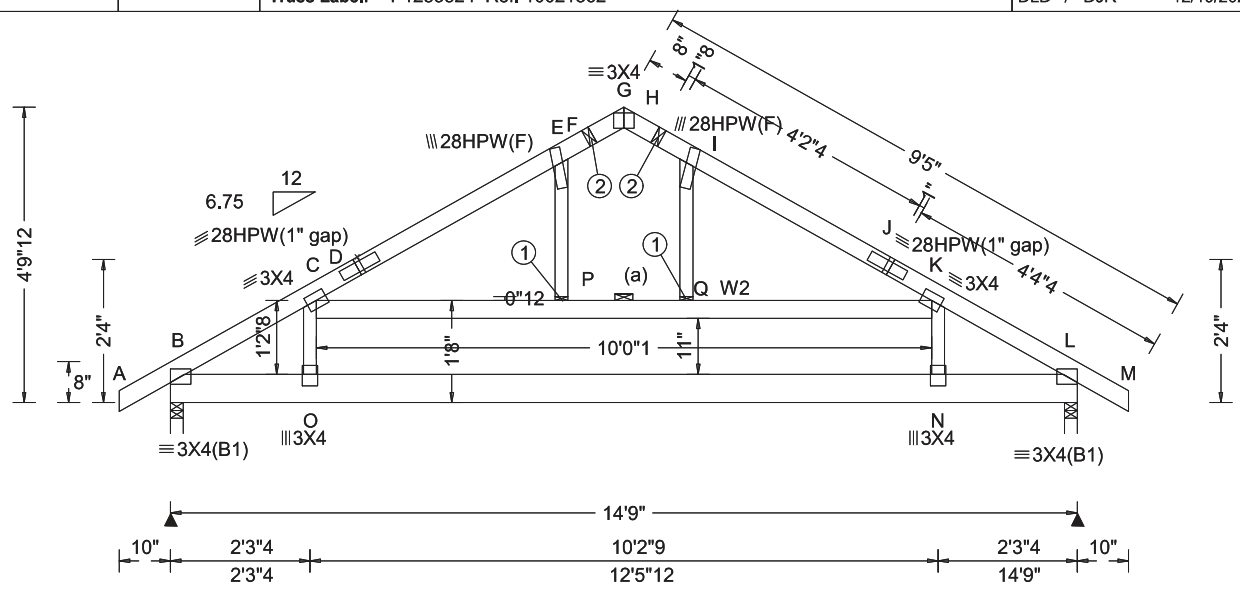
ALPINE
AN ITW COMPANY
155 Harlem Ave
North Building, 4th Floor
Glenview, IL 60025

SEQN: 1503 COMN FROM:	Ply: 1 Qty: 1	**Job Number:** 115301 DEER VALLEY **Truss Label:** P1253524 Ref. 10021862	Quot: R 9130 Ref: TX 991300001 T77 DrwNo: 354.23.0906.31217 DLD / DJR 12/19/2023



Loading Criteria (psf)

TCLL:	20.00
TCDL:	10.00
BCLL:	0.00
BCDL:	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
TCDL: 5.0 psf
BCDL: 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/defl	L/#
VERT(LL):	-0.100	I	999	240
VERT(CL):	-0.115	I	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)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	668	/-	/-	/677	/798	/269
L	668	/-	/-	/677	/798	/-

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)

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

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			

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 desinged 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.

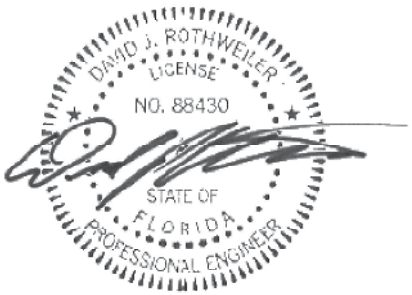
Field connection schedule:

Type	Maximum load(lbs) Axial	Shear	notes:
1	92T / 92C	---|	-T=tension load.
2	742T/ 266C	250|	-C=compression load.
			-design connection for combined axial + shear axial + shear load shown.

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

APPROVED BY NTA 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



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

Fabrication by: UFP Haleyville LLC, #317
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