December 14, 2022

Deer Valley Homebuilders
205 Carriage St.
Guin, AL 35563

RE: MFT10186-SVM-6808

NTA JOB NUMBER: DVH120822-56

Dear Mr. Jerome Triplett,

The referenced manufactured building has been reviewed and approved. ICC-NTA LLC certifies this plan is in compliance with 2020 Florida Codes – 7th Edition w/2021 and 2022 supplement as referenced in the approved drawings. This approval covers the factory build structure only. Any alterations to the factory-built structure, on site, voids the approval. This plan is subject to the following limitations:

1. This plan is NOT approved for High Velocity Hurricane Zone (i.e. Broward and Dade Counties).
2. Signed and sealed plans are on file with ICC NTA, LLC
3. The Chapter 633 Plan Review and Inspection shall be conducted by the local fire safety inspector.
4. Items installed on site are subject to review and approval by the local authority having jurisdiction. Please reference the list of site installed items on the approved plans.
5. This review included products for compliance with 553.8425 or FAC Chapter 61G20-3.

If you have any additional questions or comments regarding this matter, please contact me at your convenience at (574) 773-7975.

Respectfully,

Michael Faller

Michael Faller SMP-056
Account Manager

ICC NTA LLC

ICC NTA, LLC Office • 305 N. Oakland Ave., Nappanee, IN 46550, US

RANCH STRUCTURAL SYSTEM

MODEL: SVM-6808

SUN VALLEY HOMEBUILDERS

NOMINAL SIZE 32'-0"x 68'-0"
ACTUAL SIZE 30'-0" x 64'-0"
1920 Sq. Ft.

STATE CODES FLORIDA

2017 National Electrical Code
7TH EDITION (2020)Florida Energy Effciency Code for Building Construction With 2022 Supplement
FAC-61-41 MANUFACTURED BUILDINGS
7TH EDITION (2020) Florida Residential Code With 2022 Supplement

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

DESIGN CRITERIA

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

LOAD REQUIREMENTS

FLOOR LIVE LOAD	40 PSF
FLOOR DEAD LOAD	10 PSF
WIND SPEED	(VULT-160MPH)(VASD-124MPH)
ROOF LIVE LOAD	20 PSF TC, 20 PSF BC
ROOF DEAD LOAD	15 PSF TC, 15 PSF BC

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:	Single Family Dwelling
Allowable No. of Floors:	1
Wind Velocity:	160 MPH Vult, 124 MPH Vasd
Fire Rating of Ext. Walls:	0 Hr
Plan No.:	MFT10186-SVM-6808
Allow. Floor Load:	40 PSF
Approval Date:	12/14/2022
Manufacturer:	Deer Valley Homes

DATE 12/14/2022 CERT. NO SMP-056
PLAN NUMBER MFT10186-SVM-6808
APPROVED BY MIchael Faller

(signature)

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. Engineer seal applies ONLY to FACTORY MANUFACTURED portion 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 works. Site work must be designed BY OTHERS for site conditions, under local jurisdiction.

This building shall not be installed in locations with higher loads than designed loads specified in this package

STRUCTURAL SPECIFICATIONS INDEX

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
19. HOME MUST BE IN COMPLIANCE WITH THE FLORIDA BUILDING CODE.

NADER TOMASBI LICENSE No. 56556 STATE OF FLORIDA PROFESSIONAL ENGINEER

12/14/2022

Wind Importance Factor: 1.0
Internal Pressure Coefficient: 0.18
Wind Exposure: C
Seismic Design Category: C
Electrical Service Panel Size: 200 AMPS
Permissible Gas Type: Natural /LP
Thermal Climate Zone: 2
Degree Days: 1306
Minimum Furnace Output: 32875
Thermal Transmittance Values: 22 Floor* 19 Wall* 30 Roof*
WINDOW RATING DP 50 (ASD)

* "R" or "U" as required by State

FLORIDA BUILDING MAT.

.01 SIMPSON LTS & LSTA & CS14
- A. SIMPSON LTS- FL-10456.18-R5
- B. SIMPSON CS14- FL-10456.3-R5
- C. SIMPSON LSTA- FL-13872.5-R4
- C. SIMPSON HDU- FL-10441.4-R6

.03 OWENS CORNING SHINGLES
- A. FL- 10674-R16

.04 MFM SHINGLE STARTER
- A. FL- 11842.1-R8

.05 CROFT WINDOWS
- A. FL- 16082.1-R4

.06 DUNBARTON DOORS
- A. FL- 15362 R3 (9-LITE)
- B. FL- 15362.1 R3 (6 PANEL)
- C. FL- 15362.3 R3 (ATRIUM)

.07 CEMPLANK LAP SIDING
- A. FL- 13192 -R6

.09 CEMPLANK SIDING
- A. FL- 13223 R5

.09 CEMPLANK PANELS
- A. FL- 13265.1-R5

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.

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 CONNECTION 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 THEN 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.

DATA SHEET AND THE STATE (DBPR) INSIGNIA SHALL BE PERMANENTLY MOUNTED TO OR ABOUT THE ELECTRICAL PANEL

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 FINSHED 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.

FL : NOTES

A. RAISED SET OF PLANS ARE ON FILE IN THE 3rd PARTY AGENCY'S OFFICE AS DIRECTED BY THE DBPR

B. THIS BUILDING HAS NOT BEEN DESIGNED OR APPROVED FOR PLACEMENT IN HVHZ (i.e. DADE OR BROWARD)

C. THIS BUILDING IS SUBJECT TO REVIEW AND APPROVAL OF THE FIRE INSPECTOR ON SITE WITH COMPLIANCE WITH CH. 633 FIRE SAFETY CODE

D. THIS STRUCTURE HAS BEEN DESIGNED FOR ERECTION OR INSTALLATION ON A SITE BUILT PERMANENT FOUNDATION AND IS NOT DESIGNED TO BE MOVED ONCE SO ERECTED OR INSTALLED

E. SITE ADDRESS PER FRC R 319.1 ON SITE BY OTHERS

	REVISIONS

CUSTOMER:
Nader Tomasbi, P.E.
58665 Glenriver Drive
Goshen IN 46526

APPROVAL STAMP:

RANCH STRUCTURAL SYSTEM
Deer Valley Homebuilders

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

APPROVED BY: C.JACKSON	SCALE: NTS
PRINT DATE: 12/13/22	REV:
TITLE: COVER SHEET	
MODEL: SVM-6808	DWG. NO: A.01
MODEL: MFT10186-SVM-6808	

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.
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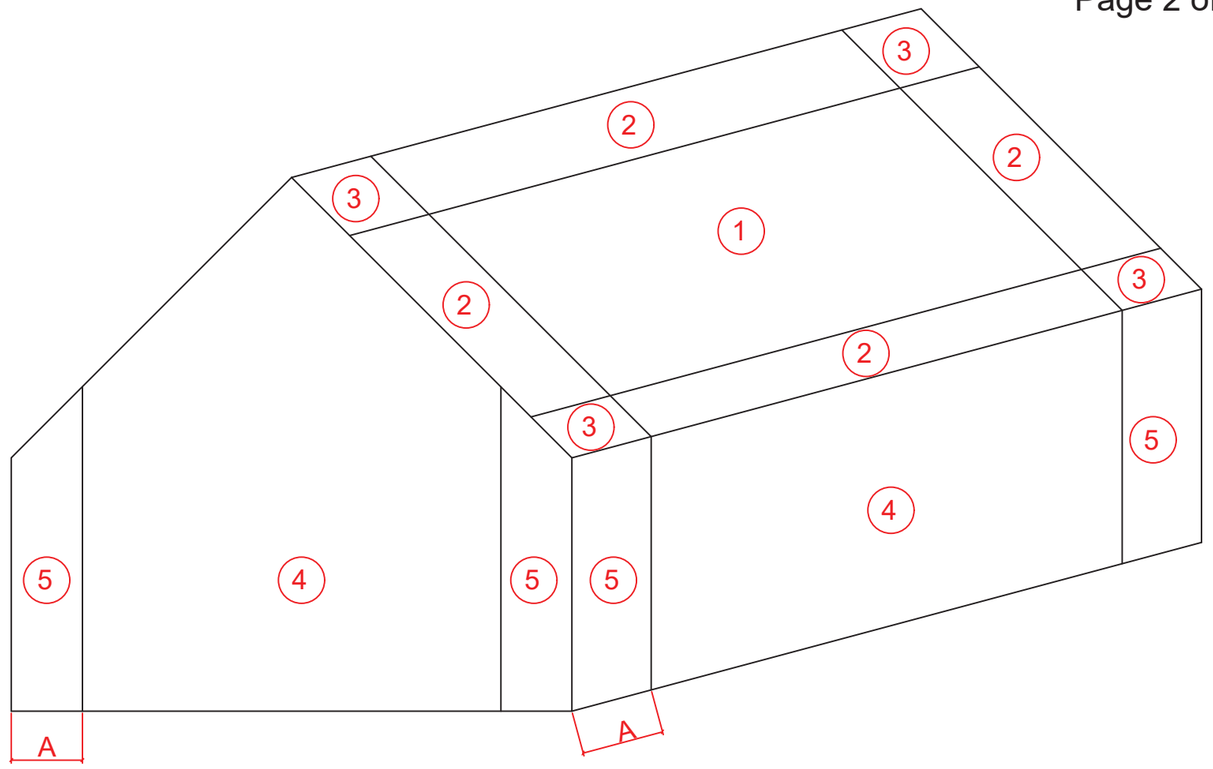
9. EXTERIOR GLAZING PROTECTION.
10. GUTTERS & DOWN SPOUTS WHEN REQUIRED.
11. HVAC EQUIPMENT AND CONNECTIONS.
12. WASHER AND DRYER.
13. FIREPLACE FLUE.
14. MATELINE DOORS.
15. BUILDING SHALL BE OVER 3' AWAY FROM ALL PROPERTY LINES.
16. ALL PLUMBING BELOW FLOOR SYSTEM
17. SINGLE RIDGE CAP AND SET-UP OF 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
	VASD 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

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: Single Family Dwelling
Allowable No. of Floors: 1
Wind Velocity: 160 MPH Vult, 124 MPH Vasd
Fire Rating of Ext. Walls: 0 Hr
Plan No.: MFT10186-SVM-6808
Allow. Floor Load: 40 PSF
Approval Date: 12/14/2022
Manufacturer: Deer Valley Homes

NADER TOMASBI LICENSE No. 56556 STATE OF FLORIDA PROFESSIONAL ENGINEER

12/14/2022

	REVISIONS

CUSTOMER:

APPROVAL STAMP:

RANCH STRUCTURAL SYSTEM
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APPROVED BY: C.JACKSON	SCALE: NTS
PRINT DATE: 12/6/22	REV:
TITLE: COVER SHEET	
MODEL: SVM-6808	DWG. NO: A.01.1
MODEL: MFT10186-SVM-6808	

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.2.)
3. ALL INDIVIDUAL FLOOR PLANS WILL BE WITHIN THE DIMENSIONAL LIMITS SHOWN ON THIS DRAWING.
4. 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.
5. 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 IRC REF.(R312.2.)
6. MINIMUM ROOM SIZE IS 70 SQ.FT. WITH A 7'-0" MIN. DIMENSION AND 1 ROOM AREA OF AT LEAST 120 SQ.FT.
7. 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.
8. OPTIONAL FIREPLACES MAY BE ADDED, PROVIDING THEY MEET ALL REQUUIREMENTS OF IRC/MECHANICAL CODE AND INSTALLED PER MANUFACTURERS INSTALLATION INSTRUCTIONS.
9. CLOTHS DRYER EXHAUST ON SITE BY OTHERS.
10. ALL EXHAUST AIR FROMRANGE HOODS AND BATHROOM VENTS SHALL BE VENTED TO THE EXTERIOR.
11. 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(402.1.3 OF THE 2020 FL ENERGY CODE)
12. ALL SOURCES OF POSSIBLE AIR INFILTRATION ARE REQUIRED TO BE CAULKED, GASKETED, WEATHERSTRIPPED, WRAPPED , OR OTHERWISE SEALED TO LIMIT AIR MOVEMENT.
13. 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
    (SECTION R315.3 AND 325.3, 2013 KRC
19. RECESSED LUMINARY LIGHTING, FAN MOTERS AND OTHER HEAT PRODUCING DEICES SHALL HAVE THE COMBUSTIBLE INSULATION SPACED A MININMUM OF 3 INCHES FROM THE HEAT SOURCE.
    (SECTION R302.13, 2013 KRC)
20. MAXIMUM FLAME SPREAD TO 200 AND MAXIMUM SMOKE DEVELOPMENT OF 450 FOR ALL WALL AND CEILING FINISHES.
    MAXIMUM FLAME SPREAD OF 25 AND MAXIMUM SMOKE DEVELOPMENT OF 450 FOR INSULATION.
    UNLESS SPECIFIED ALL FASTENING PER TABLE R602.3(1). ALL DRILLING AND NOTCHING PER R502.8 AND R602.6

KITCHEN				100
MBA				50
BATH 2				50
BATH 3				50

CROFT WINDOWS(SERIES 20) LIGHT & VENT CHART

WINDOW SCHEDULE SAVANNAH (LOW-E) SG (SAFTY GLAZE)
WINDOW SERIES # 2000 RESIDENTIAL E (EGRESS)

DESCRIPTION	LIGHT	VENT	R.O.	SF-(MAX)	U-FACTOR	SHGC
30 X 40	5.64	2.69	8.33	66 SF	.38	.21
36 X 40	6.80	3.24	10	81 SF	.35	.20
48 X 40	7.96	3.94	13.3	98 SF	.38	.21
24 X 72	8.09	3.95	12	98.5 SF	.35	.20
36 X 72	13.49	7.14	18	164 SF	.35	.20
48 X 72	16.18	7.9	24	197 SF	.35	.20
36X72(BRONZE ALUM.)	1.28	N/A	3	N/A	.42	.21
36X40(BRONZE ALUM.)	1.00	N/A	2.5	N/A	.42	.21
30X40(BRONZE ALUM.)	2.250	N/A	5	N/A	.38	.21
30 X 30 (Glass Block)		N/A	6.35	N/A	N/A	N/A
40 X 40 (Glass Block)		N/A	11.25	N/A	N/A	N/A
34 X 42 (Glass Block)		N/A	10.31	N/A	N/A	N/A
12 X 36 (TRANSOM)	1.28	N/A	3	N/A	.31	.27
12 X 30 (TRANSOM)	1.00	N/A	2.5	N/A	.31	.27
12 X 60 (TRANSOM)	2.25	N/A	5	N/A	.34	.27

CROFT WINDOWS(SERIES 30) LIGHT & VENT CHART

3040	5.43	2.72	8.33	70SF	.38	.21
3640	6.78	3.39	10	87SF	.36	.27
3660	10.98	5.48	15	143SF	.36	.27
3612(TRANSOM)	1.31	N/A	3	NA	.31	.27

DUNBARTON DOORS LIGHT & VENT CHART

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

DP-RATING	
EXP-B	47.2
EXP-C	61.0

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		.16	.00
3680 (9 LITE & ROUNDTOP)	5.50	N/A	21.10			
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			
TOP PANEL	5.92	N/A	5.92			
BOTTOM PANEL	5.92	5.7	5.92			
75 x 80 (ATRUIM DOOR) w/SCREEN	19.6	20.0	43.11	245 SF	.31	.24
72 X 76 (SGD) W/SCREEN	32.00	16.30	38.00	400 SF	.31	.27

ELECTRIC CIRCUIT SCHEDULE

** GFI CIRCUIT PROTECTION *** PER MANUFACTURERS RECOMENDATION/APPLIANCE DEMAND PLUS 125% CONTINUOUS AND/OR MOTOR LOAD FACTOR
FOR 2017 NEC CODES KITCHEN, DISWAHSER, FREEZER & WASHER, CIRCUITS MUST BE GFI & ARC FAULT PROTECTED
ALL OTHER NEC CODES CIRCUITS 15A & 20A MUST BE ARC FAULT PROTECTED WITH EXCEPTION: BATH, KITCHEN, UTILITY.
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	20 (1)	120	12
13	SMALL APPLIANCES	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	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	15 (1)	120	12	38	OPT. UTILITY	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
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
20) APPLIANCES ARE INSTALLED AND IN DWELLING UNITS THAT HAVE ATTACHED GARAGES.(R315.1) RECESSED LUMINARY LIGHTS, FAN MOTERS AND OTHER HEAT PRODUCING DEVICES SHALL HAVE COMBUSTIBLE INSULATION SPACED A MINIMUM OF 3" FROM HEAT SOURCE

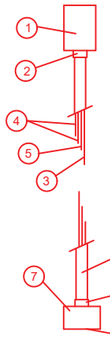
LEGEND

- 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
- F FAN EXHAUST FAN
- EXHAUST FAN & LIGHT EXHAUST FAN
- SA SMOKE ALARM CO SA SMOKE ALARM CARBON MONOXIDE
- WH WATER HEATER
- FURNACE F

LOAD CALCULATION		Worst Case 30'-0" x 86'-0"
	2580 SF x 3 Watts / 1000	7.74 KW
3	APPL. CIRCUITS	4.5 KW
1	RANGE CIRCUIT	12.0 KW
1	LAUNDRY CIRCUIT	1.5 KW
1	WATER HEATER CIRCUIT	4.5 KW
1	DRYER CIRCUIT	5.0 KW
1	WASHER CIRCUIT	1.5 KW
1	GAS FURNACE MOTOR	1.0 KW
1	DISHWASHER	1.4 KW
1	RANGE HOOD VENT FAN	.25 KW
4	BATHROOM VENT FAN	.40 KW
1	HYDRO-MASSAGE TUB	2.0 KW
	TOTAL LOAD:	41.79 KW
1	HEATING EQUIPMENT: 24 kw (@ 65%)	15.6 KW
1	COOLING EQUIPMENT: 10.5 kw (@ 100%)	10.5 KW
	10 kVA X 100%	10.0
	(41.79- 10.0) = 31.79 X 40%	12.72
	HVAC EQUIPMENT (MAX. Heating or Cooling)	15.6
	DESIGN TOTAL:	38.32 kVA
	(38.32 / 240-Volts) x 1000	
	TOTAL AMPS:	159.66 Amps
Install 200 Amp (MIN), 120/240-Volt, Single Phase, Ele. Service Panel		

MANUFACTURERS SPECIFICATIONS

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

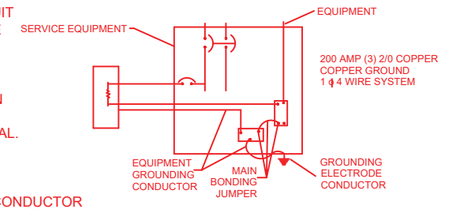


FEEDER ASSEMBLY DETAILS
200 AMP UNDERGROUND

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.)



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:	Single Family Dwelling
Allowable No. of Floors:	1
Wind Velocity:	160 MPH Vult, 124 MPH Vasd
Fire Rating of Ext. Walls:	0 Hr
Plan No.:	MFT10186-SVM-6808
Allow. Floor Load:	40 PSF
Approval Date:	12/14/2022
Manufacturer:	Deer Valley Homes

NADER TOMASBI
LICENSE
No. 56556
STATE OF FLORIDA
PROFESSIONAL ENGINEER
12/14/2022

REVISIONS

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RANCH STRUCTURAL SYSTEM
Deer Valley Homebuilders

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

APPROVED BY: C.JACKSON	SCALE: NTS
PRINT DATE: 12/13/2022	REV: --
TITLE: TYPICAL NOTES	
MODEL: SVM-6808	DWG. NO: A.02
MODEL: MFT10186-SVM-6808	

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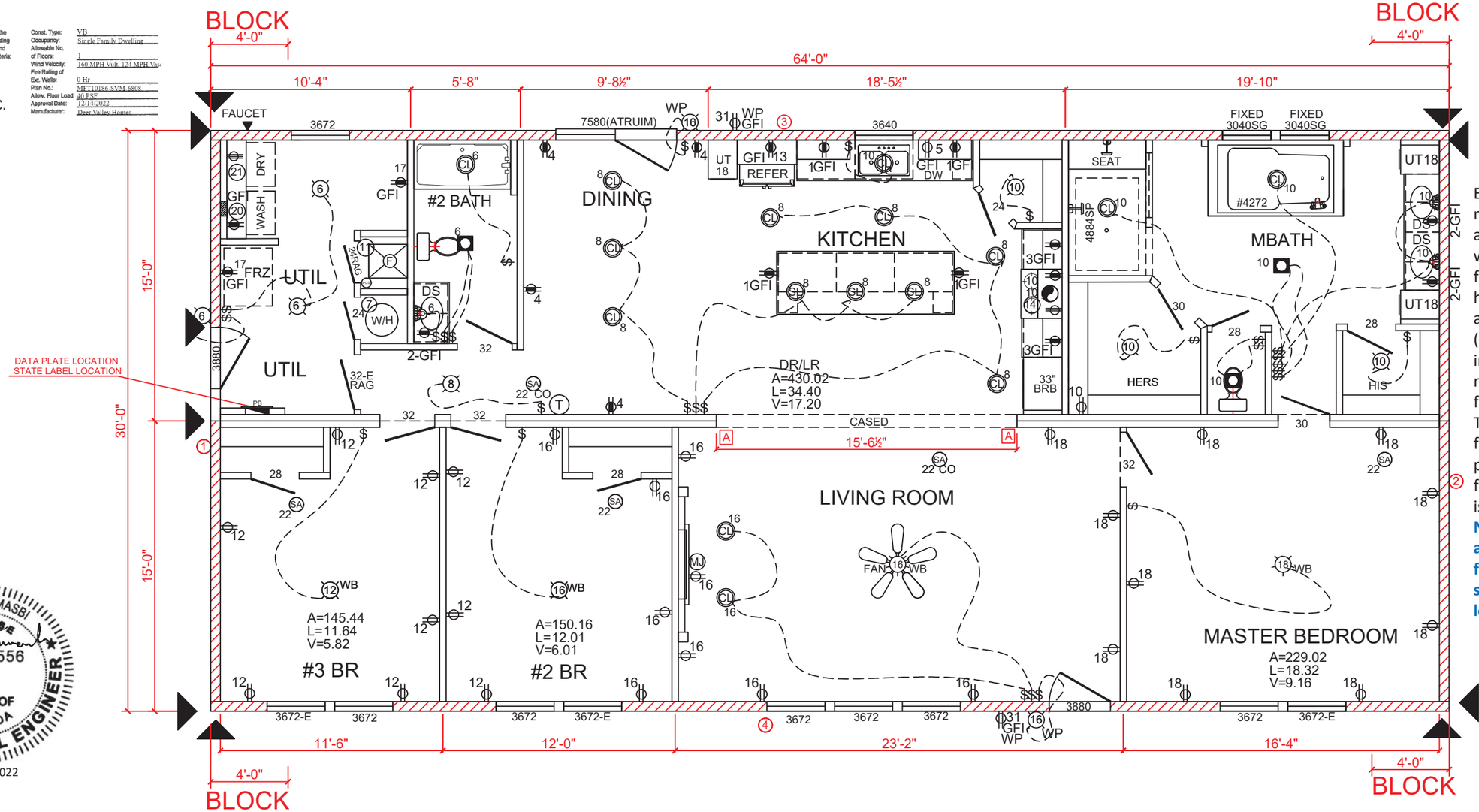
Wind Velocity:	160 MPH Vult. 124 MPH Vasd
Fire Rating of Ext. Walls:	0 Hr
Plan No.:	MFT10186-SVM-6808
Allow. Floor Load:	40 PSF
Approval Date:	12/14/2022
Manufacturer:	Deer Valley Homes



NADER TOMASBI LICENSE No. 56556 STATE OF FLORIDA PROFESSIONAL ENGINEER

12/14/2022

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.

TIE DOWN ANCHOR SPACING				5'-0"								ROOF DIAPHRAGM NOTES:
					SIDE 1			SIDE 2				SHALL BE 7/16" RATED SHEATHING (MIN.)
NO.	LENGTH	PLF	UPLIFT	MATERIAL	FASTENER	SPACING	# OF CS14 STRAPS	MATERIAL	FASTENER	SPACING	JOIST	FASTEN SHEATHING TO ROOF FRAMING WITH:
1	25.17	376	3.4K	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	MAIN UNIT
2	30	315	2.8K	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	.131X2.5" NAILS FASTENED 4" O.C. EDGE SPACING
3	29.93	254	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	BLOCKED 4FT FROM EACH ENDWALL
4	31.33	243	2.2K	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	

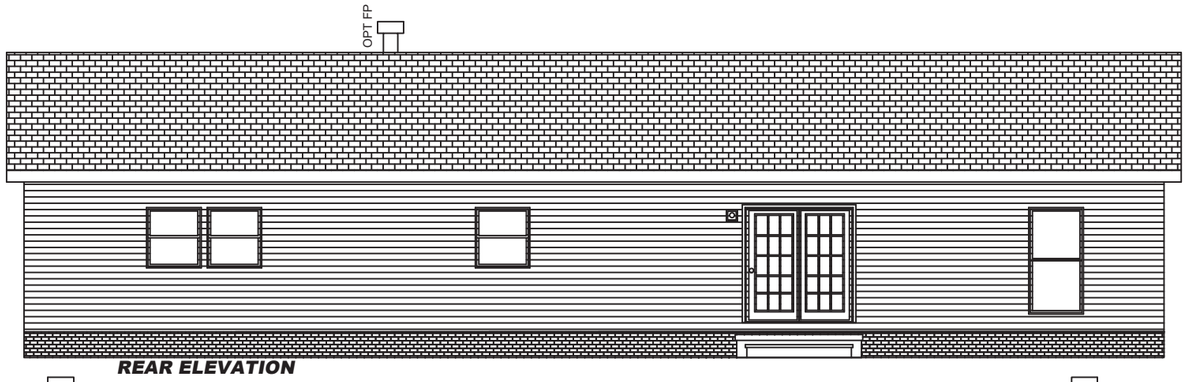
A 1.5"X16" LVL EACH HALF W/ (4) LSTA18 STRAPS FASTENED W/ (7) 10D NAILS EACH END OF STRAP ATTACHED TO (4) #3 2X4 SPF STUDS

REVISIONS

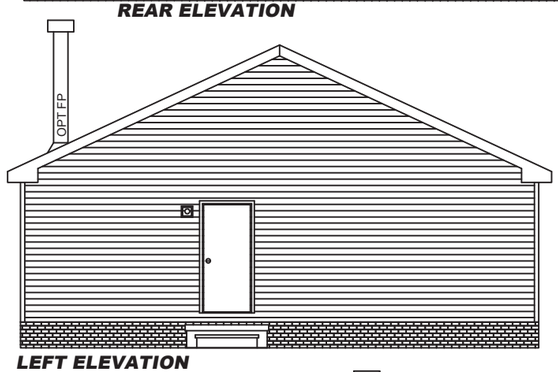
RANCH STRUCTURAL SYSTEM
Deer Valley Homebuilders

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

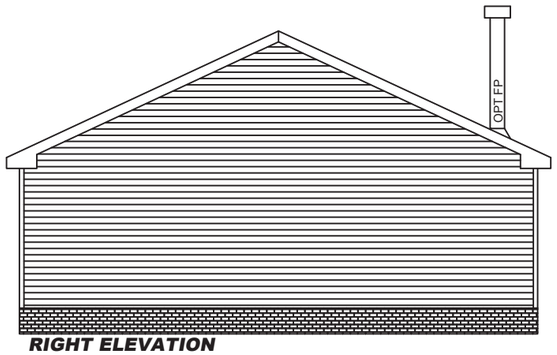
APPROVED BY:	C.JACKSON	SCALE:	NTS
PRINT DATE:	11/17/22	REV:	--
TITLE:	TYPICAL FLOOR PLAN		
MODEL:	SVM-6808	DWG. NO:	A.03
MODEL:	MFT10186-SVM-6808		



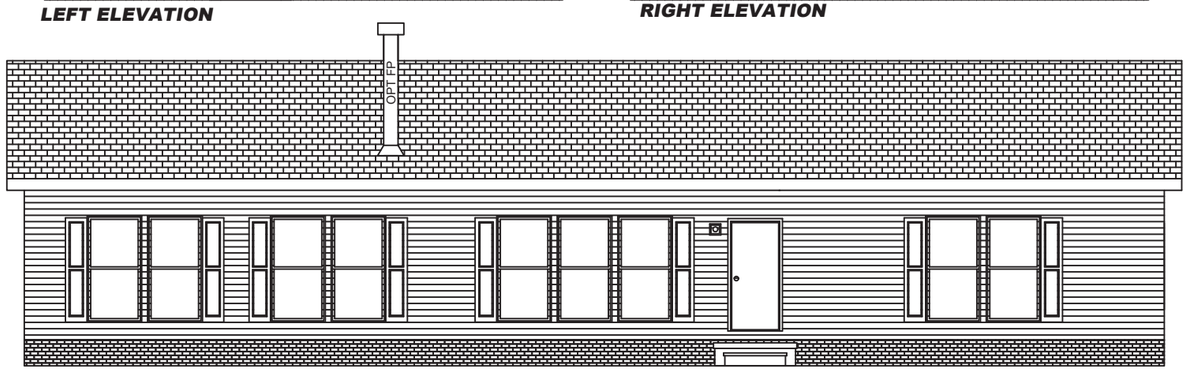
REAR ELEVATION



LEFT ELEVATION



RIGHT ELEVATION



FRONT ELEVATION

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APPROVED BY NTA INC.

Const. Type:	VB
Occupancy:	Single Family Dwelling
Allowable No. of Floors:	1
Wind Velocity:	160 MPH Vult, 124 MPH Vasd
Fire Rating of Ext. Walls:	0 Hr
Plan No.:	MFT10186-SVM-6808
Allow. Floor Load:	40 PSF
Approval Date:	12/14/2022
Manufacturer:	Deer Valley Homes

NADER TOMASBI
LICENSE
No. 56556
STATE OF FLORIDA
PROFESSIONAL ENGINEER
12/14/2022

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".

RANCH STRUCTURAL SYSTEM
Deer Valley Homebuilders

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

REVISIONS

APPROVED BY: C.JACKSON	SCALE: NTS
PRINT DATE: 01/15/20	REV: --
TITLE: EXTERIOR ELEVATIONS	
MODEL: SVM-6808	DWG. NO: A.05
MODEL: MFT10186-SVM-6808	

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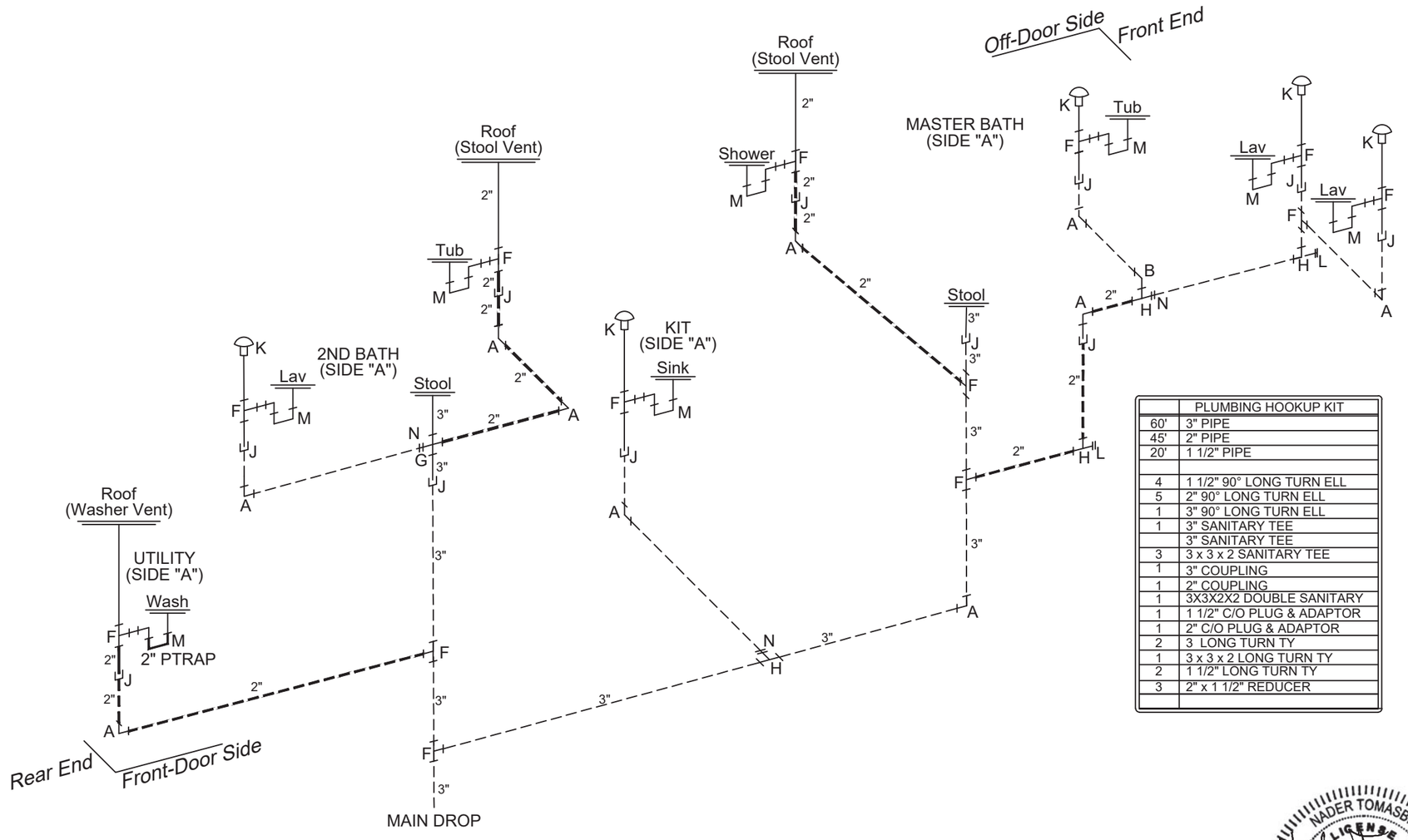
APPROVED BY NTA INC.

Const. Type:	VB
Occupancy:	Single Family Dwelling
Allowable No. of Floors:	1
Wind Velocity:	160 MPH Volt. 124 MPH Vas.
Fire Rating of Ext. Walls:	0 Hr
Plan No.:	MFT10186-SVM-6808
Allow. Floor Load:	40 PSF
Approval Date:	12/14/2022
Manufacturer:	Deer Valley Homes



	PLUMBING HOOKUP KIT
60'	3" PIPE
45'	2" PIPE
20'	1 1/2" PIPE
4	1 1/2" 90° LONG TURN ELL
5	2" 90° LONG TURN ELL
1	3" 90° LONG TURN ELL
1	3" SANITARY TEE
	3" SANITARY TEE
3	3 x 3 x 2 SANITARY TEE
1	3" COUPLING
1	2" COUPLING
1	3X3X2X2 DOUBLE SANITARY
1	1 1/2" C/O PLUG & ADAPTOR
1	2" C/O PLUG & ADAPTOR
2	3 LONG TURN TY
1	3 x 3 x 2 LONG TURN TY
2	1 1/2" LONG TURN TY
3	2" x 1 1/2" REDUCER

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	

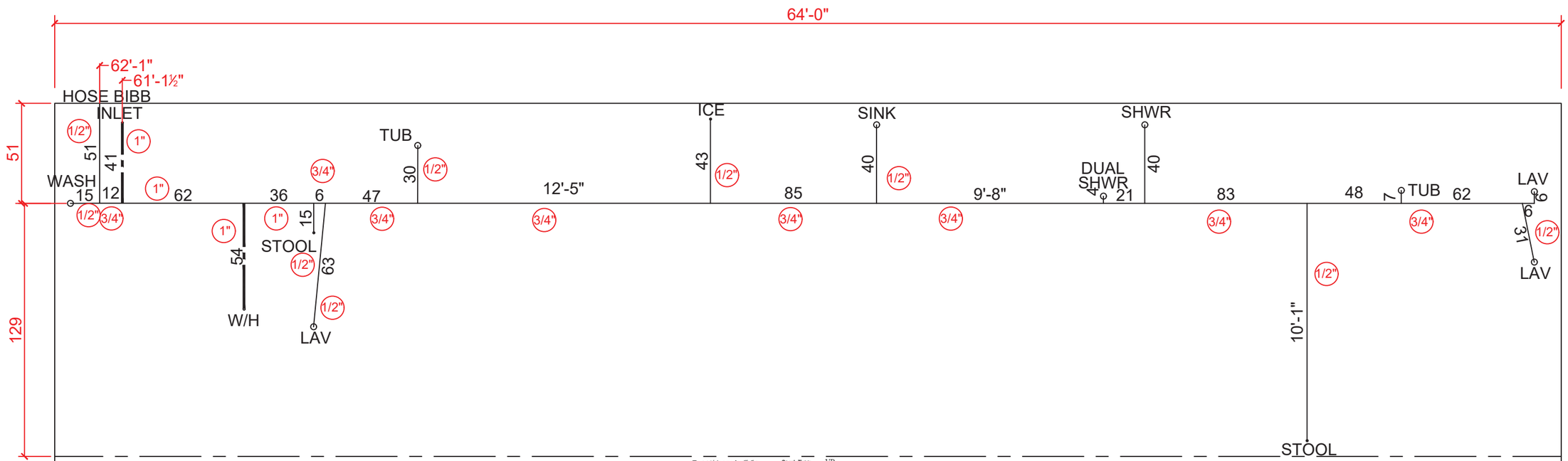
NADER TOMASBI
LICENSE
No. 56556
STATE OF FLORIDA
PROFESSIONAL ENGINEER
12/14/2022

REVISIONS

RANCH STRUCTURAL SYSTEM
Deer Valley Homebuilders

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

APPROVED BY: C.JACKSON	SCALE: NTS
PRINT DATE: 01/15/20	REV. DATE:
TITLE: DRAIN LINE PLUMBING LAYOUT	
MODEL: SVM-6808	DWG. NO: A.6.1
MODEL: MFT10186-SVM-6808	



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:	Single Family Dwelling
Allowable No. of Floors:	1
Wind Velocity:	160 MPH Vult, 124 MPH Vas
Fire Rating of Ext. Walls:	0 Hr
Plan No.:	MFT10186-SVM-6808
Allow. Floor Load:	30 PSF
Approval Date:	12/14/2022
Manufacturer:	Deer Valley Homes

NADER TOMASBI
LICENSE
No. 56556
STATE OF FLORIDA
PROFESSIONAL ENGINEER

12/14/2022

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

RANCH STRUCTURAL SYSTEM
Deer Valley Homebuilders

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

APPROVED BY: C.JACKSON
SCALE: NTS
PRINT DATE: 01/15/20
FOR TN.ONLY:
TITLE: WATER LINE PLUMBING LAYOUT
MODEL: SVM-6808
DWG. NO: A.6.2
MODEL: MFT10186-SVM-6808

2020 FRC	
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:

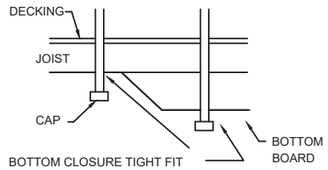
(A) = INLET WITH CAP & CHAIN.

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

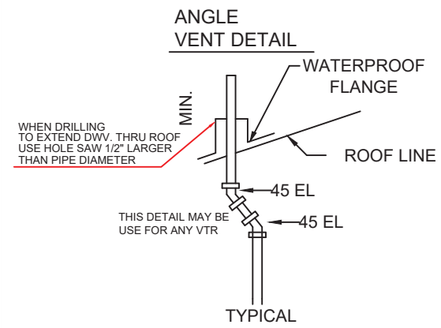
ALL WATER LINES 1/2" UNLESS OTHERWISE SHOWN.

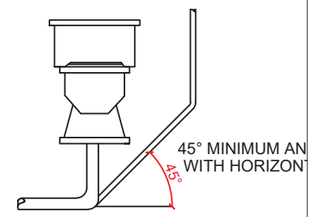
PIPING SUPPORT	
HOT & COLD FLEXIBLE	MAX. SPACING HORZ.&VERT.
3/4" & 1"	2'-8"

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



FLOOR DETAIL





STOOL VENTING DETAIL

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APPROVED BY NTA INC.

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Allowable No. of Floors:	1
Wind Velocity:	160 MPH Vult, 124 MPH Vasc
Fire Rating of Ext. Walls:	0 Hr
Plan No.:	MFT10186-SVM-6808
Allow. Floor Load:	40 PSF
Approval Date:	12/14/2022
Manufacturer:	Deer Valley Homes

< SPECIFY IF NOTE APPLIES TO MANUFACTURER

NOTE:

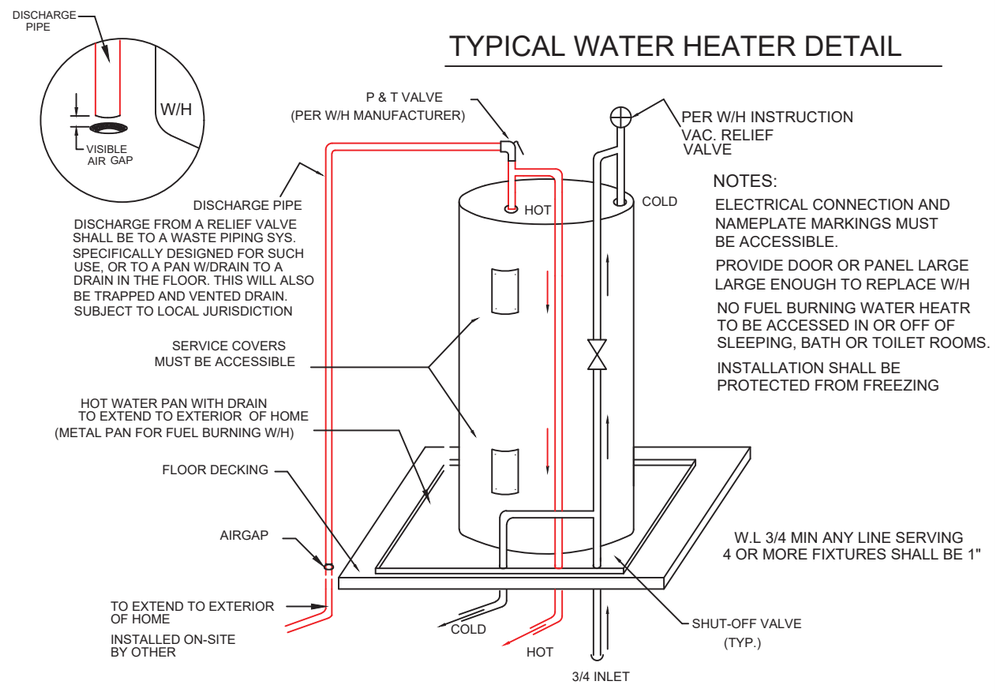
1) MAXIMUM FLOW RATE TO BE 2.2 GPM FOR FAUCETS @60 PSI AND 2.5 GPM FOR SHOWERS @ 80 PSI.
2) DRAINWASTE AND VENT LINES PVC SHALL MEET ASTM D2665-89a REQUIREMENTS.
3) WATER DISTRIBUTION SYSTEM PIPING MAY BE POLYBUTYLENE, CPVC, COPPER, GALV. STEEL OR PEX
4) DRAIN LINE SLOPE TO BE 1/4" MIN./FT.
5) VACUUM 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) 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.

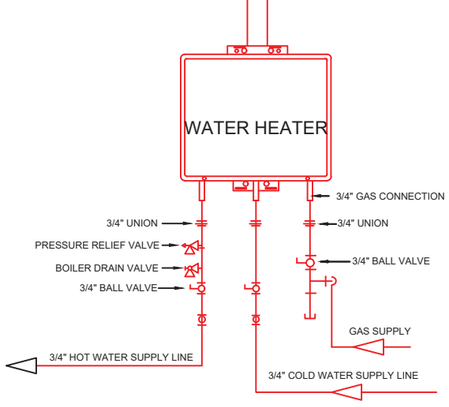
PROVIDE DOOR OR PANEL LARGE LARGE ENOUGH TO REPLACE W/H

NO FUEL BURNING WATER HEATR TO BE ACCESSED IN OR OFF OF SLEEPING, BATH OR TOILET ROOMS.

INSTALLATION SHALL BE PROTECTED FROM FREEZING

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

OPT. GAS TANKLESS WATER HEATER



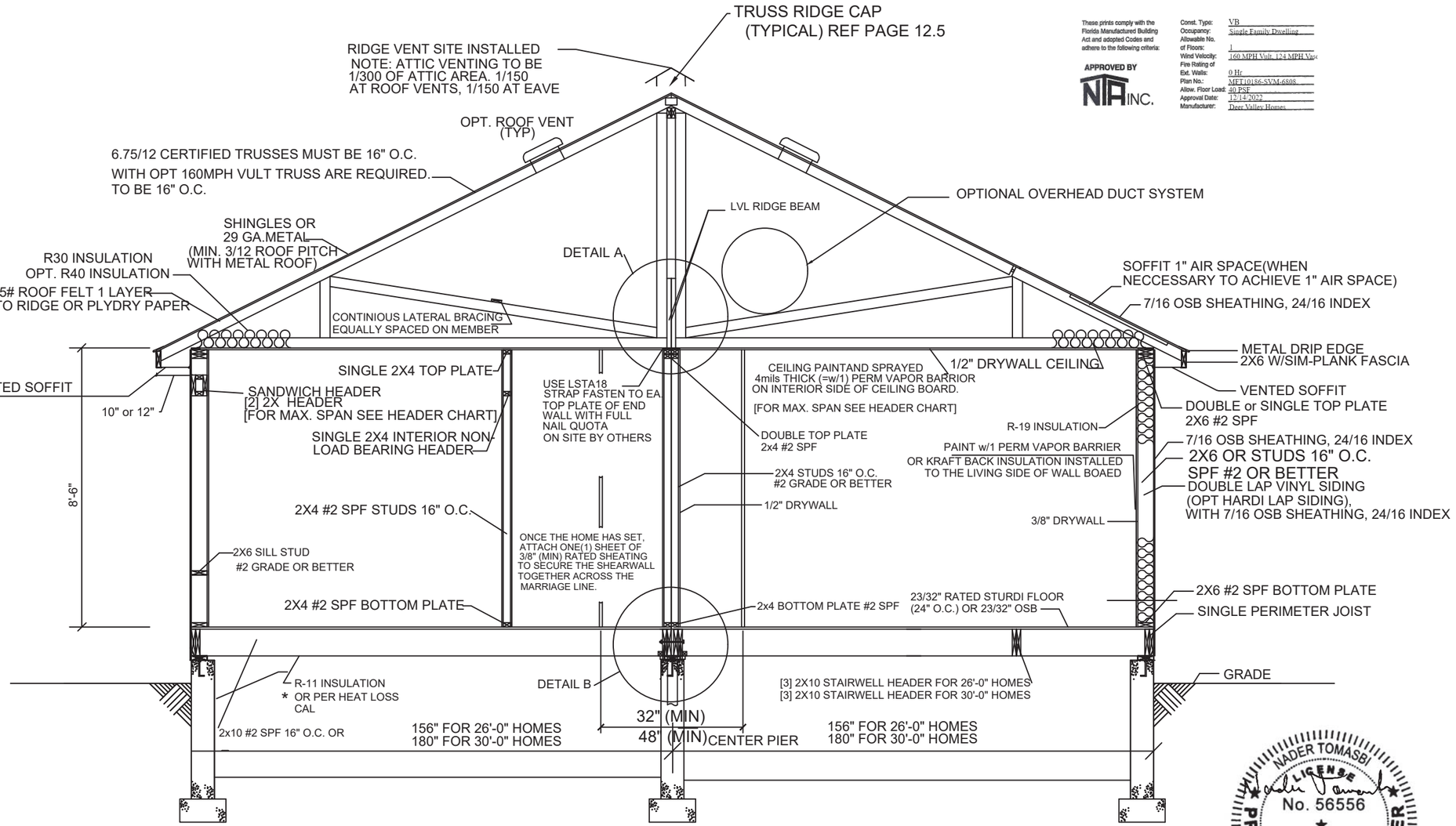
NADER TOMASBI
LICENSE
No. 56556
STATE OF FLORIDA
PROFESSIONAL ENGINEER
12/14/2022

RANCH STRUCTURAL SYSTEM
Deer Valley Homebuilders

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

REVISIONS

APPROVED BY: C.JACKSON		SCALE: NTS	
PRINT DATE: 11/17/22	REV:	REV. DATE:	
TITLE: TYPICAL PLUMBING LAYOUT			
MODEL: SVM-6808		DWG. NO: A.6	
MODEL: MFT10186-SVM-6808			

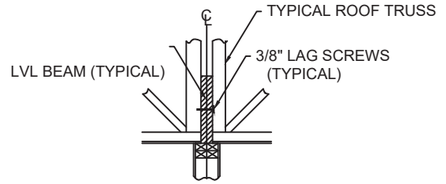


These prints comply with the Florida Manufactured Building Act and adopted Codes and adhere to the following criteria:

APPROVED BY NTA INC.

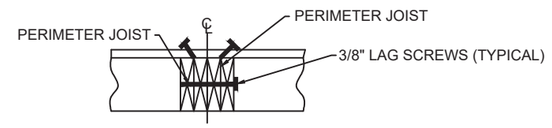
Const. Type:	VB
Occupancy:	Single Family Dwelling
Allowable No. of Floors:	1
Wind Velocity:	160 MPH Vult, 124 MPH Vasd
Fire Rating of Ext. Walls:	0 Hr.
Plan No.:	MFT10186-SVM-6808
Allow. Floor Load:	40 PSF
Approval Date:	12/14/2022
Manufacturer:	Deer Valley Homes

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.

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.

NADER TOMASBI
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12/14/2022

Crawlspace Option

26'-0" & 30'-0" Wide Homes w/10" or 12" Fixed Ovhg.

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.

REVISIONS

RANCH STRUCTURAL SYSTEM
Deer Valley Homebuilders

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

APPROVED BY: C.JACKSON	SCALE: NTS
PRINT DATE: 01/15/20	REV:
TITLE: TYPICAL CROSS SECTION (OFF FRAME)	
MODEL: SVM-6808	DWG. NO. A.9
MODEL: MFT10186-SVM-6808	

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

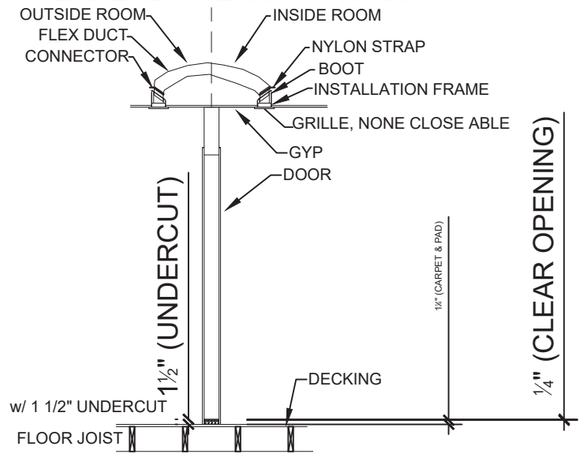
CFM

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

REGISTER SIZE

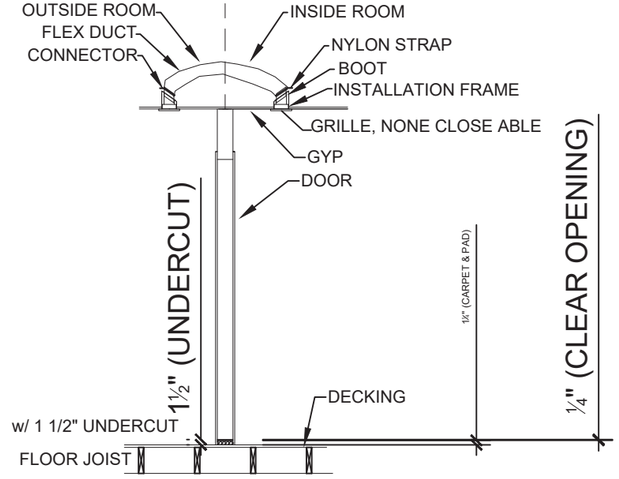
5 = 8x4
6 = 10x6
7 = 12x6
8 = 12x 8

JUMPER PERPENDICULAR TO TRUSS

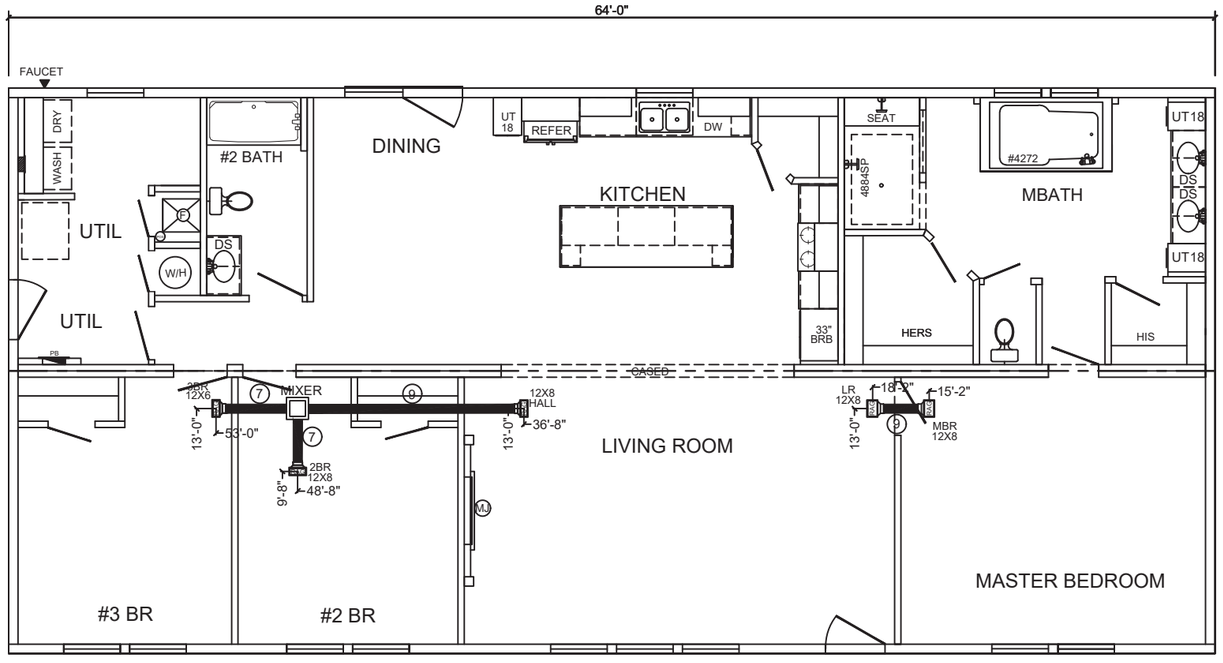


NOTE:
ONE (1) SQUARE INCH OF FREE RETURN AIR SHALL BE PROVIDED FOR EACH FIVE (5) SQUARE FEET OF ROOM AREA.
SEE 3280.715(B) (4) AND B LETTER 80-8-25 FOR MAX. ROOM SIZE.

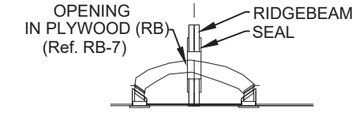
JUMPER PERPENDICULAR TO TRUSS



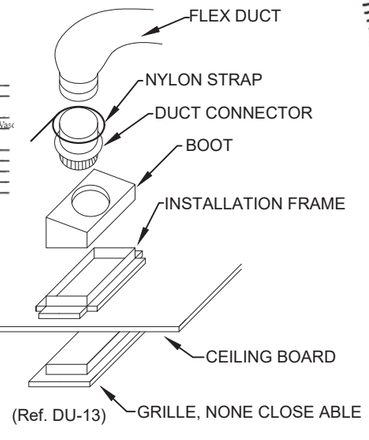
NOTE:
ONE (1) SQUARE INCH OF FREE RETURN AIR SHALL BE PROVIDED FOR EACH FIVE (5) SQUARE FEET OF ROOM AREA.
SEE 3280.715(B) (4) AND B LETTER 80-8-25 FOR MAX. ROOM SIZE.



JUMPER PARALLEL TO TRUSS - CROSS (RB)



JUMPER DETAIL



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:	Single Family Dwelling
Allowable No. of Floors:	1
Wind Velocity:	160 MPH Vult. 124 MPH Vasd
Fire Rating of Ext. Walls:	0 Hr
Plan No.:	MFT10186-SVM-6808
Allow. Floor Load:	40 PSF
Approval Date:	12/14/2022
Manufacturer:	Deer Valley Homes

NADER TOMASBI
LICENSE
No. 56556
STATE OF FLORIDA
PROFESSIONAL ENGINEER
12/14/2022

	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

RANCH STRUCTURAL SYSTEM
Deer Valley Homebuilders

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

APPROVED BY:	C.JACKSON
SCALE:	NTS
PRINT DATE:	12/6/22
REV:	--
TITLE:	HVAC FREE RETURN AIR
MODEL:	SVM-6808
DWG. NO:	A.13.2
MODEL:	MFT10186-SVM-6808

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

Job: MFT10186(SVM-6808)
Date: 12/7/22
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
MFT10186(SVM-6808)

Cooling Equipment

Design Conditions

Outdoor design DB:	97.7 ℉	Sensible gain:	29965	Btuh	Entering coil DB:	76.1 ℉
Outdoor design WB:	79.8 ℉	Latent gain:	8072	Btuh	Entering coil WB:	63.5 ℉
Indoor design DB:	75.0 ℉	Total gain:	38037	Btuh		
Indoor RH:	50%	Estimated airflow:	1289	cfm		

Manufacturer's Performance Data at Actual Design Conditions

Equipment type:	Split AC			
Manufacturer:	Generic		Model: SEER 14.0	
Actual airflow:	1289	cfm		
Sensible capacity:	30774	Btuh	103% of load	
Latent capacity:	13189	Btuh	163% of load	
Total capacity:	43963	Btuh	116% of load	SHR: 70%

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:	Single Family Dwelling
Allowable No. of Floors:	1
Wind Velocity:	160 MPH Vult, 124 MPH Vas
Fire Rating of Ext. Walls:	0 Hr
Plan No.:	MFT10186-SVM-6808
Allow. Floor Load:	40 PSF
Approval Date:	12/14/2022
Manufacturer:	Deer Valley Homes

Heating Equipment

Design Conditions

Outdoor design DB:	23.8 ℉	Heat loss:	32875	Btuh	Entering coil DB:	67.9 ℉
Indoor design DB:	70.0 ℉					

Manufacturer's Performance Data at Actual Design Conditions

Equipment type:	Elec furnace			
Manufacturer:	nordyne		Model: E7E( )-015	
Actual airflow:	1289	cfm		
Output capacity:	53000	Btuh	161% of load	Temp. rise: 0 ℉

NADER TOMASBI LICENSE No. 56556 STATE OF FLORIDA PROFESSIONAL ENGINEER
12/14/2022

Meets all requirements of ACCA Manual S.

wrightsoft®

Load Short Form
Entire House
AMS of Indiana, Inc.

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:	Single Family Dwelling
Allowable No. of Floors:	1
Wind Velocity:	160 MPH Vult, 124 MPH Vas
Fire Rating of Ext. Walls:	0 Hr
Plan No.:	MFT10186-SVM-6808
Allow. Floor Load:	40 PSF
Approval Date:	12/14/2022
Manufacturer:	Deer Valley Homes

Job: MFT10186(SVM-6808)
Date: 12/7/22
By: AMS of Indiana, Inc.

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

NADER TOMASBI LICENSE No. 56556 STATE OF FLORIDA PROFESSIONAL ENGINEER

12/14/2022

Project Information

For: Deer Valley Homebuilders
MFT10186(SVM-6808)

Design Information

	Htg	Clg
Outside db (°F)	24	98
Inside db (°F)	70	75
Design TD (°F)	46	23
Daily range	-	M
Inside humidity (%)	30	50
Moisture difference (gr/lb)	18	61

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	53000	Btuh	
Temperature rise	37	°F	
Actual air flow	1289	cfm	
Air flow factor	0.043	cfm/Btuh	
Static pressure	0.30	in H2O	
Space thermostat			

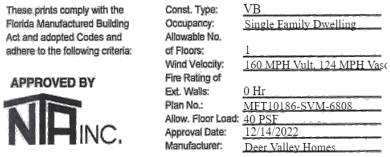
COOLING EQUIPMENT

Make	Generic		
Trade			
Cond	SEER 14.0		
Coil			
AHRI ref			
Efficiency	12.2 EER, 14 SEER		
Sensible cooling	30774	Btuh	
Latent cooling	13189	Btuh	
Total cooling	43963	Btuh	
Actual air flow	1289	cfm	
Air flow factor	0.045	cfm/Btuh	
Static pressure	0.30	in H2O	
Load sensible heat ratio	0.79		

ROOM NAME	Area (ft²)	Htg load (Btuh)	Clg load (Btuh)	Htg AVF (cfm)	Clg AVF (cfm)
U	143	3551	2338	153	106
BA2	62	778	424	34	19
DR\KIT	424	5256	5681	226	257
BA1	199	4297	2619	185	118
HIS	29	0	0	0	0
T	14	0	0	0	0
B1	251	4799	4617	207	209
LR	349	4892	5799	211	262
B2	180	2514	3285	108	149
B3	176	3816	3742	164	169
H	31	0	0	0	0
HER	54	0	0	0	0

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

Entire House	1913	29904	28505	1289	1289
Other equip loads		2971	1460		
Equip. @ 1.03 RSM			30774		
Latent cooling			8072		
TOTALS	1913	32875	38846	1289	1289



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

wrightsoft®

Building Analysis
Entire House
AMS of Indiana, Inc.

Job: MFT10186(SVM-6808)
Date: 12/7/22
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
MFT10186(SVM-6808)

Design Conditions

Location:
Jacksonville Intl, FL, US
Elevation: 26 ft
Latitude: 31 °N

Outdoor:	**Heating**	**Cooling**
Dry bulb (°F)	24	98
Daily range (°F)	-	18 (M)
Wet bulb (°F)	-	80
Wind speed (mph)	15.0	7.5

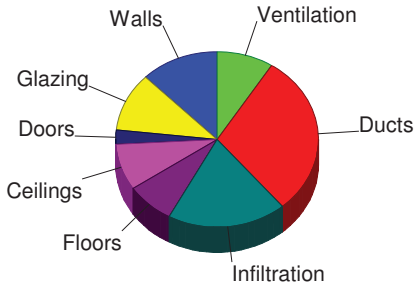
Indoor:	**Heating**	**Cooling**
Indoor temperature (°F)	70	75
Design TD (°F)	46	23
Relative humidity (%)	30	50
Moisture difference (gr/lb)	18.3	60.9

Infiltration:

Method	Simplified
Construction quality	Average
Fireplaces	1 (Average)

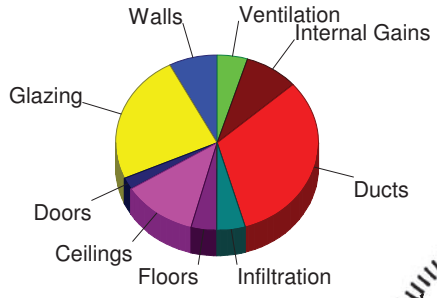
Heating

Component	Btuh/ft²	Btuh	% of load
Walls	3.1	4094	12.5
Glazing	15.7	3558	10.8
Doors	13.4	860	2.6
Ceilings	1.5	2827	8.6
Floors	1.3	2521	7.7
Infiltration	3.9	6243	19.0
Ducts		9801	29.8
Piping		0	0
Humidification		0	0
Ventilation		2971	9.0
Adjustments		0	
Total		**32875**	**100.0**



Cooling

Component	Btuh/ft²	Btuh	% of load
Walls	1.8	2317	7.7
Glazing	31.7	7170	23.9
Doors	10.2	656	2.2
Ceilings	1.9	3596	12.0
Floors	0.6	1239	4.1
Infiltration	0.8	1352	4.5
Ducts		9596	32.0
Ventilation		1460	4.9
Internal gains		2580	8.6
Blower		0	0
Adjustments		0	
Total		**29965**	**100.0**



Latent Cooling Load = 8072 Btuh
Overall U-value = 0.057 Btuh/ft²-°F

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:	Single Family Dwelling
Allowable No. of Floors:	1
Wind Velocity:	160 MPH Vult, 124 MPH Vasd
Fire Rating of Ext. Walls:	0 Hr
Plan No.:	MFT10186-SVM-6808
Allow. Floor Load:	40 PSF
Approval Date:	12/14/2022
Manufacturer:	Deer Valley Homes

NADER TOMASBI LICENSE No. 56556 STATE OF FLORIDA PROFESSIONAL ENGINEER

12/14/2022

wrightsoft®

Component Constructions
Entire House
AMS of Indiana, Inc.

Job: MFT10186(SVM-6808)
Date: 12/7/22
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
MFT10186(SVM-6808)

Design Conditions

Location:
Jacksonville Intl, FL, US
Elevation: 26 ft
Latitude: 31 °N

Outdoor:	Heating	Cooling
Dry bulb (°F)	24	98
Daily range (°F)	-	18 (M)
Wet bulb (°F)	-	80
Wind speed (mph)	15.0	7.5

Indoor:	Heating	Cooling
Indoor temperature (°F)	70	75
Design TD (°F)	46	23
Relative humidity (%)	30	50
Moisture difference (gr/lb)	18.3	60.9

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								
12E-0sw: Frm wall, vnl ext, 3/8" wood shth, r-19 cav ins, 1/2" gypsum board int fnsh, 2"x6" wood frm, 16" o.c. stud	n	233	0.068	19.0	3.14	733	1.78	415
	e	456	0.068	19.0	3.14	1434	1.78	812
	s	255	0.068	19.0	3.14	801	1.78	453
	w	358	0.068	19.0	3.14	1126	1.78	637
	all	1303	0.068	19.0	3.14	4094	1.78	2317
Partitions								
(none)								
Windows								
Croft 3660 Window: 2 glazing, clr low-e outr, argon gas, insulated vinyl frm mat, clr innr, 1/4" gap, 1/8" thk; 6.67 ft head ht	e	65	0.340	0	15.7	1013	27.9	1797
	w	162	0.340	0	15.7	2545	27.9	4513
	all	227	0.340	0	15.7	3558	27.9	6310
Doors								
11P0: Door, mtl pur core type	n	22	0.290	10.5	13.4	289	10.2	221
	e	21	0.290	10.5	13.4	281	10.2	215
	w	22	0.290	10.5	13.4	289	10.2	221
	all	64	0.290	10.5	13.4	860	10.2	656
Ceilings								
16B-30ad: Attic ceiling, asphalt shingles roof mat, r-30 ceil ins, 1/2" gypsum board int fnsh		1913	0.032	30.0	1.48	2827	1.88	3596
Floors								
19A-30cscp: Flr floor, frm flr, 8" thkns, carpet flr fnsh, r-30 cav ins, tight crwl ovr		1913	0.034	30.0	1.32	2521	0.65	1239

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:	Single Family Dwelling
Allowable No. of Floors:	1
Wind Velocity:	160 MPH Vult, 124 MPH Vas
Fire Rating of Ext. Walls:	0 Hr
Plan No.:	MFT10186-SVM-6808
Allow. Floor Load:	40 PSF
Approval Date:	12/14/2022
Manufacturer:	Deer Valley Homes

NADER TOMASBI
LICENSE
No. 56556
STATE OF FLORIDA
PROFESSIONAL ENGINEER
12/14/2022

wrightsoft®

Project Summary
Entire House
AMS of Indiana, Inc.

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

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Occupancy:	Single Family Dwelling
Allowable No. of Floors:	1
Wind Velocity:	160 MPH Vult, 124 MPH Vas
Fire Rating of Ext. Walls:	0 Hr
Plan No.:	MFT10186-SVM-6808
Allow. Floor Load:	40 PSF
Approval Date:	12/14/2022
Manufacturer:	Deer Valley Homes

Job: MFT10186(SVM-6808)
Date: 12/7/22
By: AMS of Indiana, Inc.

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

NADER TOMASBI LICENSE No. 56556 STATE OF FLORIDA PROFESSIONAL ENGINEER

12/14/2022

Project Information

For: Deer Valley Homebuilders
MFT10186(SVM-6808)

Notes: The cooling duct capacity is 42,966 btuh.

Design Information

Weather: Jacksonville Intl, FL, US

Winter Design Conditions

Outside db	24	°F
Inside db	70	°F
Design TD	46	°F

Summer Design Conditions

Outside db	98	°F
Inside db	75	°F
Design TD	23	°F
Daily range	M	
Relative humidity	50	%
Moisture difference	61	gr/lb

Heating Summary

Structure	20103	Btuh
Ducts	9801	Btuh
Central vent (59 cfm) Outside air	2971	Btuh
Humidification	0	Btuh
Piping	0	Btuh
Equipment load	32875	Btuh

Sensible Cooling Equipment Load Sizing

Structure	18909	Btuh
Ducts	9596	Btuh
Central vent (59 cfm) Outside air	1460	Btuh
Blower	0	Btuh
Use manufacturer's data	n	
Rate/swing multiplier	1.03	
Equipment sensible load	30774	Btuh

Infiltration

Method	Simplified
Construction quality	Average
Fireplaces	1 (Average)

	Heating	Cooling
Area (ft²)	1913	1913
Volume (ft³)	16256	16256
Air changes/hour	0.45	0.20
Equiv. AVF (cfm)	123	54

Latent Cooling Equipment Load Sizing

Structure	3443	Btuh
Ducts	2206	Btuh
Central vent (59 cfm) Outside air	2423	Btuh
Equipment latent load	8072	Btuh
Equipment Total Load (Sen+Lat)	38846	Btuh
Req. total capacity at 0.70 SHR	3.7	ton

Heating Equipment Summary

Make	nordyne
Trade	
Model	E7E( )-015
AHRI ref	

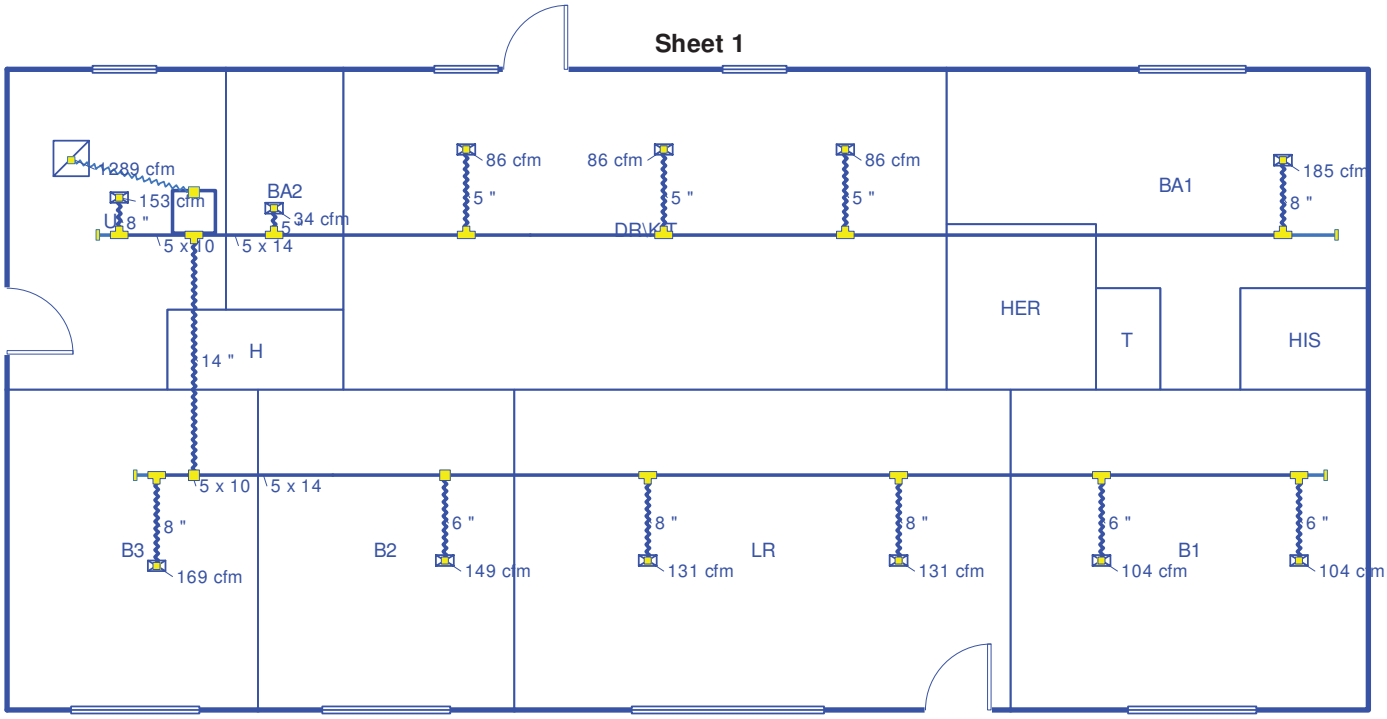
Efficiency	100	AFUE
Heating input	15.0	kW
Heating output	53000	Btuh
Temperature rise	37	°F
Actual air flow	1289	cfm
Air flow factor	0.043	cfm/Btuh
Static pressure	0.30	in H2O
Space thermostat		

Cooling Equipment Summary

Make	Generic
Trade	
Cond	SEER 14.0
Coil	
AHRI ref	

Efficiency	12.2 EER, 14 SEER	
Sensible cooling	30774	Btuh
Latent cooling	13189	Btuh
Total cooling	43963	Btuh
Actual air flow	1289	cfm
Air flow factor	0.045	cfm/Btuh
Static pressure	0.30	in H2O
Load sensible heat ratio	0.79	

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.

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Occupancy:	Single Family Dwelling
Allowable No. of Floors:	1
Wind Velocity:	160 MPH Vult, 124 MPH Vas
Fire Rating of Ext. Walls:	0 Hr
Plan No.:	MFT10186-SVM-6808
Allow. Floor Load:	40 PSF
Approval Date:	12/14/2022
Manufacturer:	Deer Valley Homes

Job #: MFT10186(SVM-6808)
Performed by AMS of Indiana, Inc. for:
Deer Valley Homebuilders
MFT10186(SVM-6808)

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

Scale: 1 : 108

Right-Suite® Universal 2022
22.0.01 RSU02009
2022-Dec-07 14:26:42
...T10186(SVM-6808) attic trunk.rup

Duct System Summary
Entire House
AMS of Indiana, Inc.

Job: MFT10186(SVM-6808)
Date: 12/7/22
By: AMS of Indiana, Inc.

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

NADER TOMASBI LICENSE No. 56556 STATE OF FLORIDA PROFESSIONAL ENGINEER
12/14/2022

Project Information

For: Deer Valley Homebuilders
MFT10186(SVM-6808)

	Heating	Cooling
External static pressure	0.30 in H2O	0.30 in H2O
Pressure losses	0.06 in H2O	0.06 in H2O
Available static pressure	0.24 in H2O	0.24 in H2O
Supply / return available pressure	0.120 / 0.120 in H2O	0.120 / 0.120 in H2O
Lowest friction rate	0.121 in/100ft	0.121 in/100ft
Actual air flow	1289 cfm	1289 cfm
Total effective length (TEL)	198 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
B1	c 2309	103	104	0.121	***6.0***	***0*** x ***0***	VlFx	57.8	140.0	st5
B1-A	c 2309	103	104	0.122	***6.0***	***0*** x ***0***	VlFx	67.0	130.0	st5
B2	c 3285	108	149	0.125	***6.0***	***0*** x ***0***	VlFx	27.0	165.0	st5
B3-A	c 3742	164	169	0.163	8.0	0x 0	VlFx	17.3	130.0	st4
BA1	h 4297	185	118	0.130	***8.0***	***0*** x ***0***	VlFx	54.5	130.0	st2
BA2	h 778	34	19	0.141	5.0	0x 0	VlFx	5.0	165.0	st2
DR\KIT	c 1894	75	86	0.136	5.0	0x 0	VlFx	16.8	160.0	st2
DR\KIT-A	c 1894	75	86	0.138	5.0	0x 0	VlFx	34.5	140.0	st2
DR\KIT-B	c 1894	75	86	0.136	5.0	0x 0	VlFx	26.0	150.0	st2
LR-B	c 2899	105	131	0.122	8.0	0x 0	VlFx	36.5	160.0	st5
LR-C	c 2899	105	131	0.121	8.0	0x 0	VlFx	48.3	150.0	st5
U	h 3551	153	106	0.177	8.0	0x 0	VlFx	5.3	130.0	st1

Supply Trunk Detail Table

Name	Trunk Type	Htg (cfm)	Clg (cfm)	Design FR	Veloc (fpm)	Diam (in)	H x W (in)	Duct Material	Trunk
st4	Peak AVF	164	169	0.163	487	6.4	10 x 5	ShtMetl	st3
st1	Peak AVF	153	106	0.177	441	***8.0***	***10*** x ***5***	ShtMetl	
st5	Peak AVF	526	619	0.121	1274	***14.0***	***14*** x ***5***	ShtMetl	st3
st2	Peak AVF	445	394	0.130	916	***8.0***	***14*** x ***5***	ShtMetl	
st3	Peak AVF	690	789	0.121	738	***14.0***	***0*** x ***0***	VinlFlx	

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APPROVED BY NTA INC.

Const. Type: VB
Occupancy: Single Family Dwelling
Allowable No. of Floors: 1
Wind Velocity: 160 MPH Vult, 124 MPH Vas
Fire Rating of Ext. Walls: 0 Hr
Plan No.: MFT10186-SVM-6808
Allow. Floor Load: 40 PSF
Approval Date: 12/14/2022
Manufacturer: Deer Valley Homes

Bold/italic values have been manually overridden

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	1289	1289	0	0	0	0	0x 0		VlFx	

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Wind Velocity:	160 MPH Vult, 124 MPH Vas
Fire Rating of Ext. Walls:	0 Hr
Plan No.:	MFT10186-SVM-6808
Allow. Floor Load:	40 PSF
Approval Date:	12/14/2022
Manufacturer:	Deer Valley Homes

wrightsoft®

Static Pressure and Friction Rate
Entire House
AMS of Indiana, Inc.

Job: MFT10186(SVM-6808)
Date: 12/7/22
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
MFT10186(SVM-6808)

Available Static Pressure

	Heating (in H2O)	Cooling (in H2O)
External static pressure	0.30	0.30
Pressure losses		
Coil	0	0
Heat exchanger	0	0
Supply diffusers	0.03	0.03
Return grilles	0.03	0.03
Filter	0	0
Humidifier	0	0
Balancing damper	0	0
Other device	0	0
Available static pressure	0.24	0.24

Total Effective Length

	Supply (ft)	Return (ft)
Measured length of run-out	4	0
Measured length of trunk	44	0
Equivalent length of fittings	150	0
Total length	198	0
Total effective length		198

Friction Rate

	Heating (in/100ft)		Cooling (in/100ft)	
Supply Ducts	0.121	OK	0.121	OK
Return Ducts	0.121	OK	0.121	OK

Fitting Equivalent Length Details

Supply 4AD=60, 2A2=55, 1A=35: TotalEL=150

Return TotalEL=0

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Wind Velocity:	160 MPH Vult, 124 MPH Vas
Fire Rating of Ext. Walls:	0 Hr
Plan No.:	MFT10186-SVM-6808
Allow. Floor Load:	40 PSF
Approval Date:	12/14/2022
Manufacturer:	Deer Valley Homes

NADER TOMASBI LICENSE No. 56556 STATE OF FLORIDA PROFESSIONAL ENGINEER

12/14/2022

FORM R405-2020

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONS

Florida Department of Business and Professional Regulation - Residential Perform

NADER TOMASBI LICENSE No. 56556 STATE OF FLORIDA PROFESSIONAL ENGINEER

Project Name:	MFT10186-SVM-6808	Builder Name:	Deer Valley Homebuilde
Street:	278 SW Deputy J Davis Lane	Permit Office:	
City, State, Zip:	Lake City, FL, 32024	Permit Number:	
Owner:	Brian Lucas	Jurisdiction:	
Design Location:	FL, Gainesville	County:	Columbia(Florida Climate

12/14/2022

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)	1920		
Conditioned floor area below grade (ft²)	0		
7. Windows(208.3 sqft.)	Description	Area	
a. U-Factor:	Dbl, U=0.35	208.33	ft²
SHGC:	SHGC=0.21		
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:		0.210	
8. Skylights	Description	Area	
U-Factor:(AVG)	N/A	N/A	ft²
SHGC(AVG):	N/A		

9. Floor Types	Insulation	Area
a. Crawlspace	R= 22.0	1920.00 ft²
b. N/A	R=	ft²
c. N/A	R=	ft²

These plans comply with the Florida Manufactured Building Act and Adopted Codes and adhere to the following criteria:

APPROVED BY NTA INC.

Const. Type:	VB
Occupancy:	Single Family Dwelling
Allowable No. of Floors:	1
Wind Velocity:	160 MPH Vult, 124 MPH Vasc
Fire Rating of Ext. Walls:	0 Hr
Plan No.:	MFT10186-SVM-6808
Allow. Floor Load:	40 PSF
Approval Date:	12/14/2022
Manufacturer:	Deer Valley Homes

10. Wall Types(1598.0 sqft.)	Insulation	Area
a. Frame - Wood, Exterior	R=19.0	1598.00 ft²
b. N/A		
c. N/A		
d. N/A		

11. Ceiling Types(1920.0 sqft.)	Insulation	Area
a. Single assembly, with (Vented)	R=30.0	1920.00 ft²
b. N/A		
c. N/A		

12. Roof(Comp. Shingles, Vented)	Deck R=30.0	2203 ft²

13. Ducts, location & insulation level	R	ft²
a. Sup: Attic, Ret: Attic, AH: Main	8	198
b.		
c.		

14. Cooling Systems	kBtu/hr	Efficiency
a. Central Unit	53.0	SEER2:14.00

15. Heating Systems	kBtu/hr	Efficiency
a. Electric Strip Heat	53.0	COP:1.00

16. Hot Water Systems	
a. Electric	Cap: 50 gallons
	EF: 0.920
b. Conservation features	None
17. Credits	CF

Glass/Floor Area: 0.109

Total Proposed Modified Loads: 49.93

Total Baseline Loads: 55.54

PASS

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

PREPARED BY: _____

DATE: 12/07/2022

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 R405-2020

INPUT SUMMARY CHECKLIST REPORT

PROJECT

Title:	MFT10186-SVM-6808			Address type:	Street Address
Building Type:	User	Bedrooms:	3	Lot #:	---
Owner:	Brian Lucas	Conditioned Area:	1920	Block/SubDivision:	---
		Total Stories:	1	PlatBook:	---
Builder Name:	Deer Valley Homebuilders	Worst Case:	Yes	Street:	278 SW Deputy J Davis Lane
Permit Office:		Rotate Angle:	0	County:	Columbia
Jurisdiction:		Cross Ventilation:	No	City, State, Zip:	Lake City,
Family Type:	Detached	Whole House Fan:	No		FL, 32024
New/Existing:	New (From Plans)	Terrain:	Flat Terrain		
Year Construct:	2023	Shielding:	No obstructions		
Comment:					

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Allow. Floor Load:	40 PSF
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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, Gainesville	FL_GAINESVILLE_REGIONA	32	92	70	75	1305.5	51	Medium

BLOCKS

✓	Number	Name	Area	Volume
___	1	Block1	1920	16512 cu ft

SPACES

✓	Number	Name	Area	Volume	Kitchen	Occupants	Bedrooms	Finished	Cooled	Heated
___	1	Main	1920	16512	Yes	4	3	Yes	Yes	Yes

FLOORS (Total Exposed Area = 1920 sq.ft.)

✓	#	Floor Type	Space	Exposed Perim	Perimeter R-Value	Area	U-Factor	Joist R-Value	Tile	Wood	Carpet
___	1	Crawlspace	Main	190	19	1920 ft	0.056	22	0.60	0.00	0.40

ROOF

✓	#	Type	Materials	Roof Area	Gable Area	Roof Color	Rad Barr	Solar Absor.	SA Tested	Emitt	Emitt Tested	Deck Insul.	Pitch (deg)
___	1	Gable or shed	Composition shingles	2203 ft²	540 ft²	Dark	Y	0.75	Yes	0.9	Yes	30	29.36

ATTIC

✓	#	Type	Ventilation	Vent Ratio (1 in)	Area	RBS	IRCC
___	1	No attic	Vented	300	1920 ft²	Y	N

CEILING (Total Exposed Area = 1920 sq.ft.)

✓	#	Ceiling Type	Space	R-Value	Ins. Type	Area	U-Factor	Framing Frac.	Truss Type
___	1	Single assembly, with airspace(Vented)	Main	30.0	Blown	1920.0ft²	0.055	0.11	Wood

FORM R405-2020

INPUT SUMMARY CHECKLIST REPORT

WALLS (Total Exposed Area = 1598 sq.ft.)

√	#	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	Exterior	Frame - Wood	Main	19.0	64.0	0	8.0	6	544.0	0.071	0	0.23	0.01	0 %
	2	S	Exterior	Frame - Wood	Main	19.0	30.0	0	8.0	6	255.0	0.071		0.23	0.75	0 %
	3	E	Exterior	Frame - Wood	Main	19.0	64.0	0	8.0	6	544.0	0.071		0.23	0.75	0 %
	4	N	Exterior	Frame - Wood	Main	19.0	30.0	0	8.0	6	255.0	0.071		0.23	0.75	0 %

DOORS (Total Exposed Area = 82 sq.ft.)

√	#	Ornt	Adjacent To	Door Type	Space	Storms	U-Value	Width Ft	Width In	Height Ft	Height In	Area
	1	W(Front)		Insulated	Main	None	0.16	3.00	0	6.00	8	20.0ft²
	2	S(Front)		Insulated	Main	None	0.27	3.00	0	6.00	8	20.0ft²
	3	E		Insulated	Main	None	0.35	6.00	3	6.00	8	41.7ft²

WINDOWS (Total Exposed Area = 208 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	1	Vinyl	Low-E Double	Y	0.35	0.21	N	N	162.0	9	3.00	6.00	1.0	1.0	IECC 2012	None
	2	E	3	Vinyl	Low-E Double	Y	0.35	0.21	N	N	20.0	2	3.00	3.33	1.0	1.0	IECC 2012	None
	3	E	3	Vinyl	Low-E Double	Y	0.35	0.21	N	N	8.3	1	2.50	3.33	1.0	1.0	IECC 2012	None
	4	E	3	Vinyl	Low-E Double	Y	0.35	0.21	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	1926	105.69	198.42	0.1412	7.0	All	16512 cu ft

MASS

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

HEATING SYSTEM

√	#	System Type	Subtype	AHRI #	Efficiency	Capacity kBtu/hr	----Geothermal HeatPump---- Entry	Power	Volt	Current	Ducts	Block
	1	Electric Strip Heat	None		COP: 1.00	53.0		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	Single/Single		SEER2:14.0	53.0	1289	0.79	sys#1	1

FORM R405-2020

INPUT SUMMARY CHECKLIST REPORT

HOT WATER SYSTEM

✓	#	System Type	Subtype	Location	EF(UEF)	Cap	Use	SetPnt	Fixture Flow	Pipe Ins.	Pipe length
___	1	Electric	None	Main	0.92 (0.92)	50.00 gal	60 gal	120 deg	Standard	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	Air Handler	CFM 25 TOT	CFM 25 OUT	QN	RLF	HVAC # Heat	HVAC # Cool
___	1	Attic	8.0	198 ft²	Attic	8.0	198 ft²	Proposed Qn	Main	---	---	0.04	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.

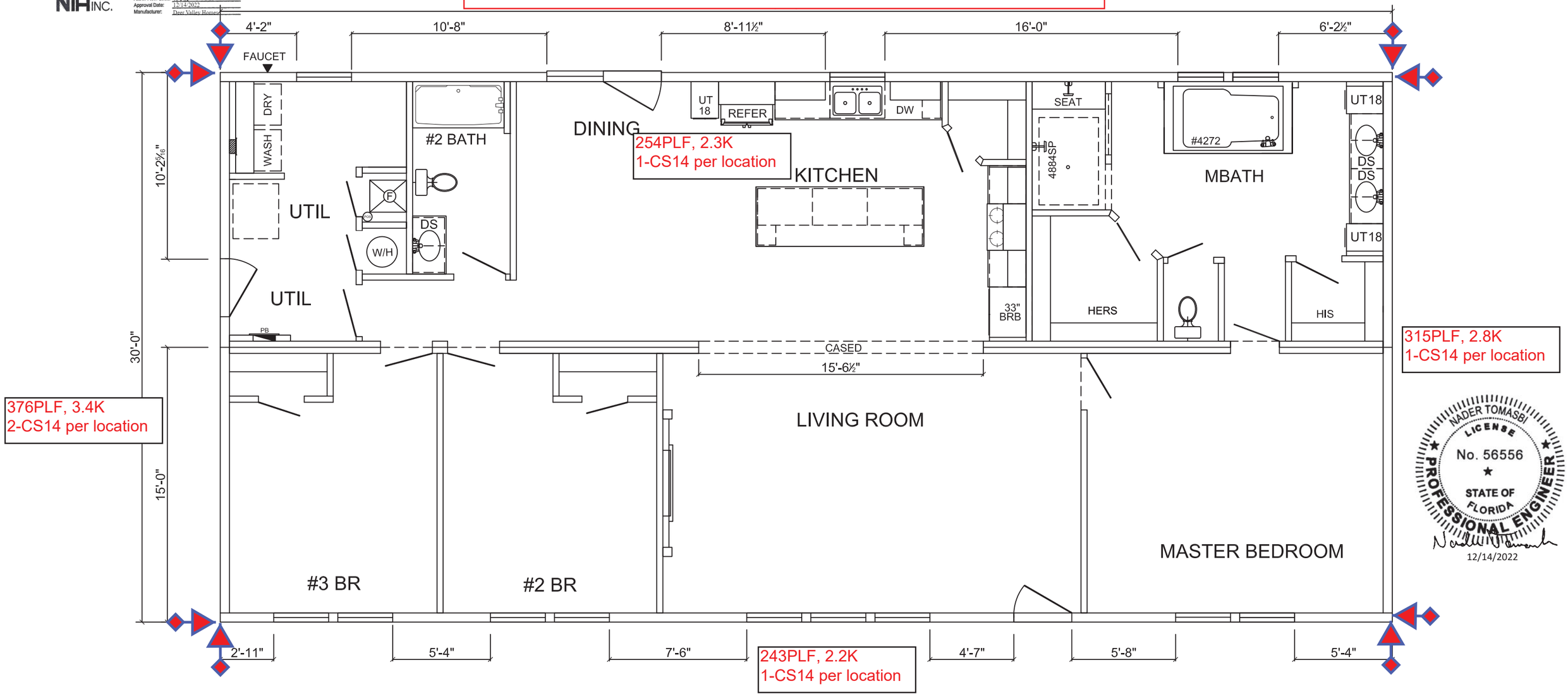
Const. Type: VB
Occupancy: Single Family Dwelling
Allowable No. of Floors: 1
Wind Velocity: 160 MPH Vult, 124 MPH Vas
Fire Rating of Ext. Walls: 0 Hr
Plan No.: MFT10186-SVM-6808
Allow. Floor Load: 40 PSF
Approval Date: 12/14/2022
Manufacturer: Deer Valley Homes

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:	Single Family Dwelling
Allowable No. of Floors:	1
Wind Velocity:	160 MPH Vult. 124 MPH Vasd
Fire Rating of Ext. Walls:	0 Hr
Plan No.:	MFT10186-SVM-6808
Allow. Floor Load:	40 PSF
Approval Date:	12/14/2022
Manufacturer:	Deer Valley Homes

7/16" rated sheathing fastened to roof framing with 0.131 pd nails 4" o.c. Sheathing must be blocked on all edges a minimum of 4' from each end wall.



NADER TOMASBI LICENSE No. 56556 STATE OF FLORIDA PROFESSIONAL ENGINEER
12/14/2022

WIND SPEED:	160 MPH VULT.	FLORIDA
CEILING HEIGHT:	8'-6" Max	ADDRESS
ROOF PITCH	6.75/12 (16" O.C.)	LAKE CITY, FL
OFF FRAME		COLUMBIA COUNTY
2X8 FLOORS (16" O.C.)		
SEISMIC DESIGN CATEGORY	D	

REVISIONS

RANCH STRUCTURAL SYSTEM
Deer Valley Homebuilders

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

APPROVED BY: C.JACKSON	SCALE: NTS
PRINT DATE: 11/17/22	REV: --
TITLE: TYPICAL FLOOR PLAN	
'MFT10186- SVM-6808	DWG. NO: A.00
MODEL: DVH-68	

Bracing Tributary Length Determination

Deer Valley SVM-10459

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

Endwall Length =	30 ft		
Sidewall Length =	64 ft		
Porch Length (Left) =	0 ft		
Porch Length (Right) =	0 ft	**Left Endwall Trib From Wall:**	**32 ft**
Wall Height =	9 ft	**Left Endwall Trib From Roof:**	**32 ft**
Heel Height of Truss =	8 in	**Right Endwall Trib From Wall:**	**32 ft**
Seismic category =	C	**Right Endwall Trib From Roof:**	**32 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

Left Endwall - Bracing #1

Perforated or Segmented: **S**
PLF: 376 plf
Height of Tallest Opening = 7 ft
Wall length when perforated = 30 ft

Segment length - ft	Effective wind	Effective seismic
15	15	15
10.17	10.17	10.17
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 :	25.17	25.17

NADER TOMASBI LICENSE No. 56556 STATE OF FLORIDA PROFESSIONAL ENGINEER
12/14/2022

Right Endwall (hitch end) - Bracing #2

Perforated or Segmented: **S**
PLF: 315 plf
Height of Tallest Opening = 7 ft
Wall length when perforated = 30 ft

Segment length - ft	Effective wind	Effective seismic
15	15	15
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
Total :	30	30

Top Sidewall - Bracing #3

Perforated or Segmented: **P**
PLF: 254 plf
Height of Tallest Opening = 7 ft
Wall length when perforated = 64 ft

Segment length - ft	Effective wind	Effective seismic
4.17	4.17	3.8642
10.67	10.67	10.67
8.92	8.92	8.92
6.17	6.17	6.17
0	0	0
0	0	0
0	0	0
0	0	0
0	0	0
0	0	0
Total :	29.93	29.6242

Tag load: 0 Lb.

Bottom Sidewall - Bracing #4

Perforated or Segmented: **P**
PLF: 243 plf
Height of Tallest Opening = 7 ft
Wall length when perforated = 64 ft

Segment length - ft	Effective wind	Effective seismic
2.92	2.92	1.894756
5.33	5.33	5.33
7.5	7.5	7.5
4.583	4.583	4.583
5.67	5.67	5.67
5.33	5.33	5.33
0	0	0
0	0	0
0	0	0
0	0	0
Total :	31.333	30.30776

Tag load: 0 Lb.

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:	Single Family Dwelling
Allowable No. of Floors:	1
Wind Velocity:	160 MPH Vult, 124 MPH Vasd
Fire Rating of Ext. Walls:	0 Hr
Plan No.:	MFT10186-SVM-6808
Allow. Floor Load:	40 PSF
Approval Date:	12/14/2022
Manufacturer:	Deer Valley Homes

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

Deer Valley SVM-10459

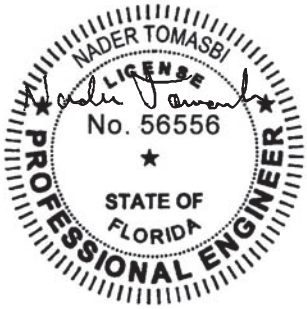
Wind Loads

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



12/14/2022

Building Values

Roof pitch =	6.75 /12	Sidewall Length =	64 ft
Roof angle =	29.4 °		
Wall Height =	9 ft	Endwall Length =	30 ft
Heel Height of Truss =	8 in	a =	3.00 ft
		2a =	6.00 ft
		Porch Length (Left) =	0 ft
Height of Roof =	9.10 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 =	54.6 ft^2 /side	Total Shear =	1172 lbs
Area of Interior Zone of Sidewall =	117.0 ft^2 /side	Total Shear =	3231 lbs
Area of Interior Zone of Roof =	236.7 ft^2 /side	Total Shear =	4106 lbs

Total Shear Force to Endwalls = 9458 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 =	117.0 ft^2 /side	Total Shear =	3231 lbs
Area of Interior Zone of Roof =	236.7 ft^2 /side	Total Shear =	4106 lbs

Total Shear Force to Endwalls = 9458 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 =	41 ft^2 /side	Total Shear =	1118 lbs
Area of Interior Zone of Roof =	58 ft^2 /side	Total Shear =	1606 lbs

Total Shear Force to Sidewalls = 4030 lbs

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:	Single Family Dwelling
Allowable No. of Floors:	1
Wind Velocity:	160 MPH Vult, 124 MPH Vas
Fire Rating of Ext. Walls:	0 Hr
Plan No.:	MFT10186-SVM-6808
Allow. Floor Load:	40 PSF
Approval Date:	12/14/2022
Manufacturer:	Deer Valley Homes

Seismic Loads

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 endwalls = 2253 lbs/wall
shear on sidewalls = 2253 lbs/wall

Compare Wind vs Seismic for shear walls

	Seismic	Wind	Wind with 1.4 reduction
Endwall	2253	9458	6756
Sidewall	2253	4030	2879

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

Left Endwall - Bracing #1

Perforated or **S**egmented:	**S**	
Wall length when perforated =	30	ft
Wall Height =	9	ft
Length of Full Height Sheathing (3.5:1) =	25.17	ft
Length of Full Height Sheathing (2:1) =	25.17	ft
C_o (3.5:1) =	1	from table in IBC
C_o (2:1) =	1	from table in IBC
Total Force (wind) =	9458	lbs
Total Force (seismic) *1.4 =	3154	lbs
Load Taken to Shear Wall Segments =	376	plf <==
Uplift Force at End of Wall =	3382	lbs

NADER TOMASBI LICENSE No. 56556 STATE OF FLORIDA PROFESSIONAL ENGINEER
12/14/2022

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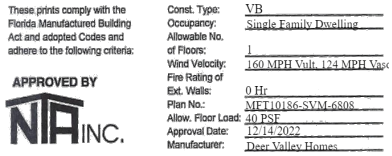
APPROVED BY NTA INC.

Const. Type: VB
Occupancy: Single Family Dwelling
Allowable No. of Floors: 1
Wind Velocity: 160 MPH Vult, 124 MPH Vas
Fire Rating of Ext. Walls: 0 Hr
Plan No.: MFT10186-SVM-6808
Allow. Floor Load: 40 PSF
Approval Date: 12/14/2022
Manufacturer: Deer Valley Homes

Right Endwall (hitch end) - Bracing #2

Perforated or **S**egmented:	**S**	
Wall length when perforated =	30	ft
Wall Height =	9	ft
Length of Full Height Sheathing (3.5:1) =	30	ft
Length of Full Height Sheathing (2:1) =	30	ft
C_o (3.5:1) =	1	from table in IBC
C_o (2:1) =	1	from table in IBC
Total Force (wind) =	9458	lbs
Total Force (seismic) *1.4 =	3154	lbs
Load Taken to Shear Wall Segments =	315	plf <==
Uplift Force at End of Wall =	2837	lbs



Top Sidewall - Bracing #3

Perforated or **S**egmented:	**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) =	29.93	ft
Length of Full Height Sheathing (2:1) =	29.6242	ft
Percent Full Height Sheathing (3.5:1) =	47%	
Percent Full Height Sheathing (2:1) =	46%	
C_o (3.5:1) =	0.53	from table in IBC
C_o (2:1) =	0.53	from table in IBC
Total Force (wind) =	7604	lbs (includes tag load when applicable)
Total Force (seismic) *1.4 =	5951	lbs (includes tag load when applicable)
Load Taken to Shear Wall Segments =	254	plf <==
Uplift Force at End of Wall =	2287	lbs

Bottom Sidewall - Bracing #4

Perforated or **S**egmented:	**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) =	31.333	ft
Length of Full Height Sheathing (2:1) =	30.3078	ft
Percent Full Height Sheathing (3.5:1) =	49%	
Percent Full Height Sheathing (2:1) =	47%	
C_o (3.5:1) =	0.53	from table in IBC
C_o (2:1) =	0.53	from table in IBC
Total Force (wind) =	7604	lbs (includes tag load when applicable)
Total Force (seismic) *1.4 =	5951	lbs (includes tag load when applicable)
Load Taken to Shear Wall Segments =	243	plf <==
Uplift Force at End of Wall =	2184	lbs

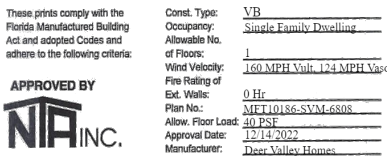
12/14/2022

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**

12/14/2022

One Story Shear Wall Design

Deer Valley SVM-10459
Summary of Forces

Shear Walls

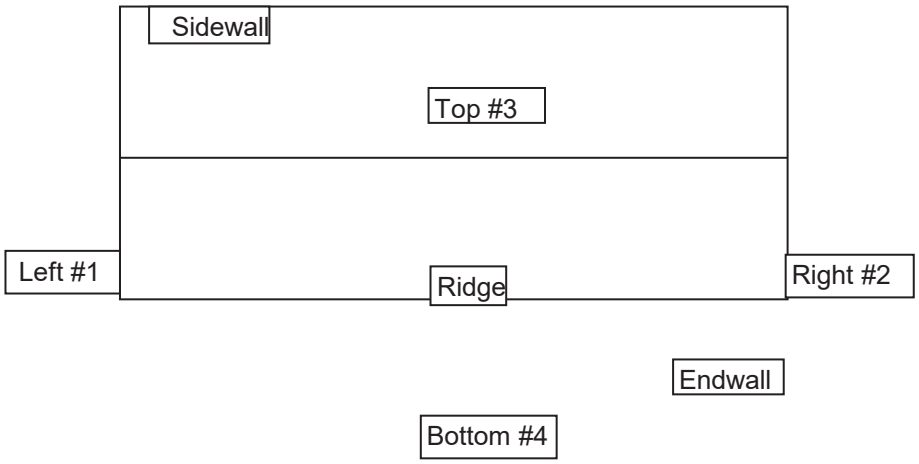
Brace wall	PLF-Load	CONSTRUCTION
Left endwall - Segmented	376	7/16 in sheathing One Side with .131 pd nail (studs at 16" o/c) at 4 in o/c edge spacing
Right endwall - Segmented	315	7/16 in sheathing One Side with .131 pd nail (studs at 16" o/c) at 4 in o/c edge spacing
Top sidewall - Perforated	254	7/16 in sheathing One Side with .131 pd nail (studs at 16" o/c) at 4 in o/c edge spacing
Bottom sidewall - Perforated	243	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 = 9.5 Kips
Total Shear Force to Sidewalls = 4.0 Kips

Racking Load Left endwall -	3.4	Kips	req.# CS14 **1.4**
Racking load right endwall -	2.8	Kips	req.# CS14 **1.1**
Racking Load top sidewall -	2.3	Kips (Includes tag load when applicable)	req.# CS14 **1.0**
Racking Load bottom sidewall -	2.2	Kips (Includes tag load when applicable)	req.# CS14 **1.0**



Roof Diaphragm

7/16 in sheathing with .131 pd nail at 4 in o/c edge spacing
Blocking only required at 4 ft from each endwall

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APPROVED BY NTA INC.

Const. Type:	VB
Occupancy:	Single Family Dwelling
Allowable No. of Floors:	1
Wind Velocity:	160 MPH Vult, 124 MPH Vas
Fire Rating of Ext. Walls:	0 Hr
Plan No.:	MFT10186-SVM-6808
Allow. Floor Load:	40 PSF
Approval Date:	12/14/2022
Manufacturer:	Deer Valley Homes

NADER TOMASBI LICENSE No. 56556 STATE OF FLORIDA PROFESSIONAL ENGINEER

12/14/2022

Shear Wall Design

Deer Valley SVM-10459

Left Shearwall

Shearwall Required Design = 376 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 = 315 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 = 254 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 = 243 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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Const. Type: VB
Occupancy: Single Family Dwelling
Allowable No. of Floors: 1
Wind Velocity: 160 MPH Vult, 124 MPH Vas
Fire Rating of Ext. Walls: 0 Hr
Plan No.: MFT10186-SVM-6808
Allow. Floor Load: 40 PSF
Approval Date: 12/14/2022
Manufacturer: Deer Valley Homes

NADER TOMASBI LICENSE No. 56556 STATE OF FLORIDA PROFESSIONAL ENGINEER

12/14/2022

Roof Diaphragm Design

Deer Valley SVM-10459

Roof Diaphragm	Diaphragm width :	30 ft	30 ft
Top of BC of truss sheathed?[1]	No		
Diaphragm Required Design[2] =	315 plf		315 plf
Thickness of Sheathing =	7/16 "		
Fastener =	.131 pd nail		
Edge Spacing of Fastener[3,4,5] =	4 in o/c		
Species of Framing[6] =	SPF		

Use 7/16 in sheathing with .131 pd nail at 4 in o/c edge spacing

Sheathing Capacity[7] = 437.92 plf

Shear Wall **OK**

Blocking only required at 4 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

12/14/2022

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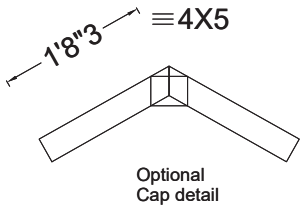
Allowable No. of Floors:	1
Wind Velocity:	160 MPH Vult, 124 MPH Vas
Fire Rating of Ext. Walls:	0 Hr
Plan No.:	MFT10186-SVM-6808
Allow. Floor Load:	40 PSF
Approval Date:	12/14/2022
Manufacturer:	Deer Valley Homes

SEQN: 15227 MONO FROM:	Ply: 1 Qty: 1	**Job Number:** 110388 Deer Valley **Truss Label:** HMD18823 Ref. #10013839	Cust: R 9130 JRef: WG991300007 T23 DrwNo: 179.22.1436.34462 DLD / BAF 06/28/2022



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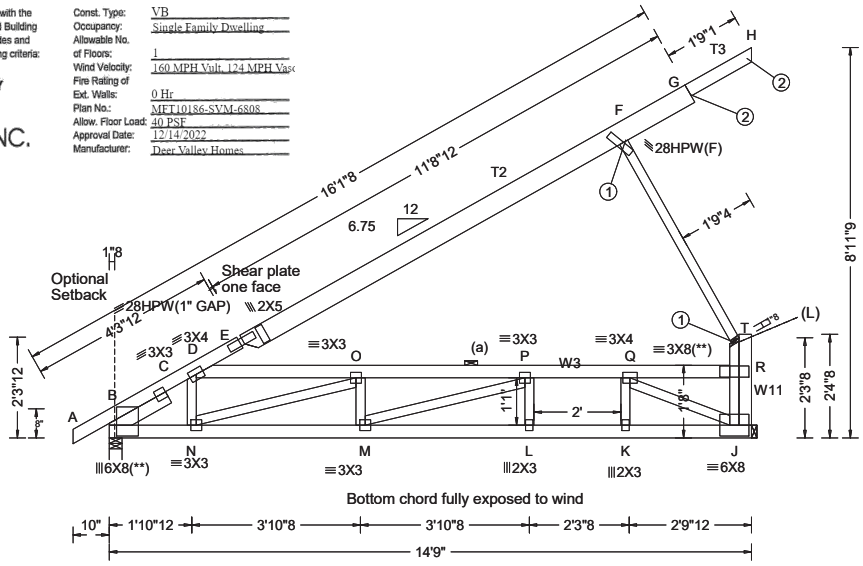
APPROVED BY NTA INC.

Const. Type:	VB
Occupancy:	Single Family Dwelling
Allowable No. of Floors:	1
Wind Velocity:	160 MPH Vult, 124 MPH Vasd
Fire Rating of Ext. Walls:	0 Hr
Plan No.:	MFT10186-SYM-6808
Allow. Floor Load:	40 PSF
Approval Date:	12/14/2022
Manufacturer:	Deer Valley Homes



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:	0.00
Soffit:	2.00
Load Duration:	1.25
Spacing:	24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 140 mph@24"/171@16"
Enclosure: Part. Enc.
Risk Category: II
EXP: D 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 7th Ed. 2020 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):	0.040 L	999	240
VERT(CL):	0.080 L	999	240
HORZ(LL):	-0.019 F	-	-
HORZ(TL):	0.022 F	-	-

Creep Factor: 2.0
Max TC CSI: 0.735
Max BC CSI: 0.258
Max Web CSI: 0.570

VIEW Ver: 22.01.01.0428.21

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	703	/-	/-	/593	/366	/-
J	578	/-	/83	/678	/663	/625

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	682	-1097	D - E	89	-484
C - D	682	-1054	E - F	144	-452

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - N	963	-605	L - K	554	-3
N - M	906	-76	K - J	562	-14
M - L	544	0			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
D - O	881	-777	Q - J	419	-666
N - O	142	-545	Q - R	404	-625
O - P	340	-683	J - R	534	-333
M - P	523	-626	R - T	503	-328
F - T	642	-416			

Lumber
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 : 32.9 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.

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

Refer to DRWG HINGPL161014, HINGPL781014, SHEARPLT1014 for hinge and shear plate details.

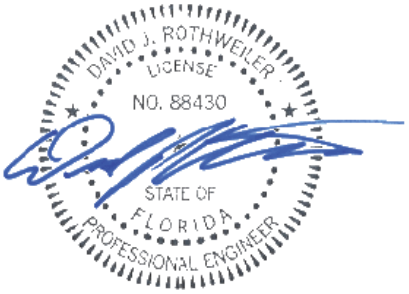
Circled numbers indicate type of field connection required per ply. See schedule for connection loads and requirements. Tight fit is required between all members at the joint. All field connections shall be desinged by the project Engineer and conform to the home manufacturer's installation details.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

Field connection schedule:

Type	Maximum load(lbs) Axial	Shear
1	778T / 469C	---
2	159T / 159C	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.



06/29/2022 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 bracing installed 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

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