NTA INC.

ENGINEERS
PLANNERS
CONSULTANTS

305 NORTH OAKLAND AVENUE • P.O. BOX 490 • NAPPANEE, INDIANA 46550
WEB: WWW.NTAINC.COM
PHONE: 574-773-7975
FAX: 574-773-2732

August 22, 2019

Destiny Homes, LLC
250 RW Bryant Rd
Moultrie, GA 31778

RE: MFT-2437-ME764-750-108-R1

NTA JOB NUMBER: DES072219-32

Dear Mr. Jerry Benton,

The referenced manufactured building has been reviewed and approved. NTA, Inc. certifies this plan is in compliance with 2017 Florida Codes – 6th Edition 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 NTA, Inc.
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
Account Manager
NTA, Inc.

STATE CODES:

FLORIDA

6th Edition (2017) Florida Residential Code
2014 National Electrical Code
6th Edition (2017) Florida Engergy Code

THIS DRAWING COMPLIES WITH 61G20-3.006 (PRODUCT VALIDATION)

BUILDING INFORMATION

CONSTRUCTION TYPE:	WOOD FRAME
TOTAL S.F.:	2254
NUMBER OF FLOORS:	1

BUILDING DESIGN CRITERIA (ASCE 7-10)

BUILDING HAS NOT BEEN DESIGNED FOR PLACEMENT IN HIGH VELOCITY HURRICANE ZONE (HVHZ). (I.E. DADE AND BROWARD COUNTIES)

OCCUPANCY CLASS:	SINGLE FAMILY DWELLING
WIND LOAD DESIGN:	150 MPH (VULT) 116 MPH (VASD)
EXPOSURE:	C
1ST FLOOR LIVE LOAD:	40 PSF
1ST FLOOR DEAD LOAD:	10 PSF
2ND FLOOR LIVE LOAD:	0 PSF
2ND FLOOR DEAD LOAD:	0 PSF
ROOF LIVE LOAD:	20 PSF
ROOF DEAD LOAD:	14 PSF
ATTIC LIVE LOAD:	10 PSF
ATTIC DEAD LOAD:	0 PSF
SEISMIC GROUP:	N/A
FIRE RATING EXT WALLS:	0
INTER. PRESSURE COEFFICIENT	-0.18 (ENCLOSED BUILDING)
RISK CATEGORY	II
MEAN ROOF HEIGHT	20FT

D.W.P. FOR C/C PSF
PR-ROOF C&C LOAD (EA-50)
WIND SPEED 150 VULT (116 VASD)
ZONE1 18.0 PSF - 28.6 PSF
ZONE 2 18.0 PSF - 49.8 PSF
ZONE 3 18.0 PSF - 73.5 PSF
ROOF OVERHANG (EA-10)
ZONE 2 - 63.0 PSF
ZONE 3 - 102.6 PSF
PW-WALL C&C LOAD, WALLS & DOOR (EA-10)
ZONE 4 31.2 PSF - 33.9 PSF
ZONE 5 31.2 PSF - 41.8 PSF

PRESSURES SHOWN ARE ALLOWABLE STRENGTH PRESSURES

MECHANICAL NOTES:

1. ALL SUPPLY REGISTERS ARE ADJUSTABLE, EXCEPT WHERE OTHERWISE SPECIFIED.
2. INTERIOR DOORS SHALL BE UNDERCUT 1.5 ABOVED FINISHED FLOOR FOR AIR RETURN AND/OR AS NOTED ON FLOORPLAN.
3. BATHROOM VENT FANS SHALL PROVIDE 50 CFM MINIMUM OF VENTILATION.
4. HVAC EQUIPMENT SHALL BE EQUIPPED WITH OUTSIDE FRESH AIR INTAKE TO PROVIDE 20 CFM PER PERSON.
5. VENTS SHALL BE DUCTED TO THE EXTERIOR OF HOME.
6. ALL DUCT SYSTEMS COMPONENTS INSTALLED IN THE ATTIC AREA WITH INSULATION SHALL HAVE A MINIMUM R-VALUE OF R-8.0.
7. ALL HVAC COMPONENT INSTALLED ON SITE SHALL BE INSTALLED BY HVAC CONTRACTOR.
8. TESTING IS MANDATORY FOR AIR LEAKAGE OF DWELLING AND TESTING OF DUCT SYSTEM.

MIN. 7.51 SQUARE FEET NET FREE AREA OF ATTIC VENTILATION TO BE PROVIDED BY SOFFIT AND RIDGE VENTS/ROOF VENTS.

MIN. 15.0 SQUARE FEET NET FREE AREA OF CRAWL SPACE VENTILATION TO BE PROVIDED BY FOUNDATION CONTRACTOR.

ATTIC VENTILATION ACHIEVED BY RIDGE VENT AND SOFFIT VENTS (SEE CROSS SECTION DRAWING FOR SPECS)

GENERAL NOTES:

1. ALL GLAZING WITHIN 24 INCH ARC OF DOORS, WHOSE BOTTOM EDGE IS LESS THAN 60 INCHES ABOVE THE FLOOR, AND ALL GLAZING IN DOORS SHALL BE SAFETY, TEMPERED OR ACRYLIC PLASTIC SHEET.
2. OCCUPANT LOAD IS BASED ON 1 PERSON PER 200 SQUARE FEET OF FLOOR AREA.
3. MINIMUM CORRIDOR WIDTH IS 36 INCHES.
4. WINDOWS, GLASS, DOORS, SHALL COMPLY WITH AAMA/NWWDA 101/I.S.2.
5. ALL MATERIALS USE IN THIS CONSTRUCTION OF THE BUILDING WHICH ARE COVERED BY THE FLORIDA BUILDING COMMISSION CHAPTER 61G20-3 RULES SHALL HAVE CURRENT FLORIDA PRODUCT APPROVAL.
6. ALL CONSTRUCTION, MATERIALS AND INSTALLATION SHALL BE IN ACCORDANCE WITH THE CODES SPECIFIED ON THE DRAWING.
7. ATTIC AND CRAWLSPACE VENTILATION SHALL BE PROVIDED IN ACCORDANCE WITH ALL APPLICABLE CODE SECTIONS.
8. DATA PLATE AND STATE INSIGNIAS ARE LOCATED IN OR ON THE PANEL BOX OF THE HOME.
9. THIS HOME SHALL NOT BE PLACED IN AN AREA THAT EXCEEDS THE DESIGN CRITERIA OF BUILDING.

NOTE THE BUILDING SPECIFIED ON THESE DRAWINGS IS EXCLUDING FROM COVERAGE OF THE MANUFACTURED HOUSING CONSTRUCTION AND SAFETY STANDARDS ACT. 42 U.S.C. 5401 ET SEQ. UNDER PROVISIONS OF 24 CFR 3282.12, IN THAT THE BUILDING IS:

1 INTENDED ONLY FOR ERECTION OR INSTALLATION ON A SITE-BUILT PERMANENT FOUNDATION:
2 NOT DESIGNED TO BE MOVED ONCE ERECTED OR INSTALLED: AND
3 DESIGNED AND MANUFACTURED TO COMPLY WITH A NATIONAL RECOGNIZED MODEL BUILDING CODE OR AN EQUIVALENT BUILDING CODE FOR SITE-BUILT HOUSING.

BUILDING SITE INSTALLATION REQUIREMENTS

ATTENTION LOCAL INSPECTION DEPARTMENT
THE FOLLOWING ITEMS HAVE NOT BEEN COMPLETED BY THE BUILDING MANUFACTURER AND HAVE NOT BEEN INSPECTED BY THE THIRD PARTY INSPECTION AGENCY AND ARE NOT CERTIFIED BY THE STATE MODULAR LABEL AND/OR CERTIFICATION. CODE COMPLIANCE FOR THESE ITEMS MUST BE DETERMINED AT THE LOCAL LEVEL:

1 THE COMPLETED FOUNDATION SUPPORT SYSTEM AND TIEDOWN AND/OR ANCHORAGE SYSTEM.
2 RAMPS, STAIRS AND GENERAL ACCESS TO THE BUILDING.
3 BUILDING DRAINS, CLEAN OUTS AND HOOK UPS TO PLUMBING SYSTEM AND FINISH PLUMBING.
4 ELECTRICAL SERVICE HOOK-UP (INCLUDING FEEDERS AND THE MAIN ELECTRICAL PANEL).
5 CONNECTION OF ELECTRICAL CIRCUITS CROSSING OVER MODULAR MATING LINES (MULTI-WIDE UNITS ONLY).
6 STRUCTURAL AND AESTHETIC INTERCONNECTIONS BETWEEN MODULES (MULTI-WIDE UNITS ONLY).
7 INSTALLATION OF INSULATION AT FLOOR, CEILING AND ENDWALLS AT MATING LINES (MULTI-WIDE UNITS ONLY).
8 INSTALL R6.5 INSULATION ON ALL PIPING INSTALLED IN UNCONDITIONAL SPACES.
9 INSTALL FIRESTOPPING AT ALL MODULE MATING LINES AT THE MARRIAGE WALL CEILING HEIGHT AND AT THE FLOOR SYSTEM.
10 CRAWL SPACE LIGHT AND SWITCH.
11 HVAC SYSTEM CROSSOVER DUCTS AND HVAC SYSTEM.
12 RIDGE VENTS MUST BE INSTALLED IN ACCORDANCE WITH THE VENT MANUFACTURERS INSTRUCTIONS.
13. PORTABLE FIRE EXTINGUISHER(S)
14. STORM PROCTECTION PANELS REQUIRED FOR GLAZED OPENINGS PER FBC SECTION R301.2(2).
15. GABLE ENDWALL FRAMING.
16. BUILDING SUBJECT TO REVIEW AND APPROVAL OF THE STATE FIRE INSPECTOR ON SITE WITH COMPLIANCE WITH CH.633 FIRE SAFETY CODE.
17. A/C UNIT
18. A.A.V. (AIR ADMITTANCE VALVE TEST) AFTER DWV TEST
19. HVAC COMPANY IS RESPONSIBLE FOR ANY DAMAGE AND REPAIRS TO MODULAR COMPONENTS (I.E. TRUSSES,ELECTRICAL CONDUCTORS PLUMBING,ATTIC INSULATION ETC)
20. EXTERIOR GFI'S
21. UNIT WILL REQUIRE COMPLIANCE WITH FLORIDA ENERGY CODE

ELEVATION NOTES

THIS STRUCTURE CANNOT BE LOCATED ON THE UPPER HALF OF AN "ISOLATED HILL, RIDGE OR ESCARPMENT" WHICH SATISFIES ALL OF THE FOLLOWING:

1 HILL, RIDGE OR ESCARPMENT IS HIGHER THAN 30 FEET IN EXPOSURE C LOCATIONS AND 60 FEET IN EXPOSURE B LOCATIONS.
2 AVERAGE SLOPE OF HILL EXCEEDS 10%.
3 THE HILL, RIDGE OR ESCARPMENT HAS NO OBSTRUCTIONS TO WIND MOVEMENT BY TOPOGRAPHIC FEATURES FOR A DISTANCE FROM THE HIGH POINT OF THE HILL, RIDGE OR ESCARPMENT EQUAL TO 50 TIMES THE HEIGHT OF THE HILL, RIDGE OR ESCARPMENT OR ONE MILE, WHICHEVER IS LESS.

HANDICAP RAMP(S), STAIR(S) AND RAILS ARE SITE INSTALLED, DESIGNED BY OTHERS AND SUBJECT TO LOCAL JURISDICTION REVIEW AND APPROVAL.
FOUNDATION ENCLOSURE (WHEN PROVIDED) MUST HAVE 1 SQUARE FOOT NET VENT AREA PER 1/150TH OF THE FLOOR AREA AND AN 18" X 24" MINIMUM CRAWL SPACE ACCESS, SITE INSTALLED BY OTHERS AND SUBJECT TO LOCAL JURISDICTION REVIEW AND APPROVAL.
BUILDING ADDRESS AS REQUIRED BY R319.1 TO BE INSTALLED ON SITE BY OTHERS.
THE RAISED SEAL SET OF PLANS ARE ON FILE IN THE THIRD PARTY AGENCY'S OFFICE AS DIRECTED BY THE DBPR.
BUILDING ADDRESS AS REQUIRED BY FRC R319.1 TO BE INSTALLED ON SITE BY OTHERS.

DRAWING INDEX:

THE PLANS MAY BE FLIPPED OR MIRRORED.

ATTIC IS DESIGNED FOR 10 PSF LOAD BUT IS NOT INTENDED TO BE USED FOR STORAGE. INSULATION EXTENDS ABOVE THE TOP OF THE BOTTOM CHORD AND COMPRESSION OF THE INSULATION WILL COMPROMISE THE MINIMUM DESIGNED THERMAL VALUE.

FOUNDATION:

FOUNDATION IS DESIGNED BY OTHERS. DETAILS CONTAINED IN THESE TYPICAL DRAWINGS ARE SUPPLEMENT AND MUST BE EVALUATED BY FOUNDATION DESIGNER FOR COMPATIABILITY WITH THE FOUNDATION DESIGN. (ON 14'-10 FLOORS MODELS WITH LARGE ROOMS WILL REQUIRE ADDITIONAL PIER BLOCKING DOWN CENTER OF FLOOR)

ENGINEER SEAL

ERIK J. MYERS
LICENSE
No 77316
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

Aug 21, 2019

NOTE:
THE PURCHASER IS RESPONSIBLE TO INSURE THE ATTACHED PLANS CONFORM TO LOCAL ORIDINANCES IN RESPECT TO BUILDING SIZE, HEIGHT, SETBACK OR ASTHETICS WHICH IS ENFORCED BY LOCAL JURISDICTIONS.

HOME IS STRUCTURE AS REQUIRED BY THE STATE OF FLORIDA IS DESIGNED AS A 2-STORY EVEN THOUGH ACTUAL CONSTRUCTION IS A 6/12 PITCHED ROOF ON A SINGLE FRAME.

PLUMBING NOTES

1. TUB ACCESS PROVIDED UNDER HOME UNLESS OTHERWISE NOTED.
2. ALL PLUMBING FIXTURES SHALL HAVE SEPARATE SHUT-OFF VALUES.
3. WATER HEATER SHALL HAVE SAFETY PAN WITH 3/4 INCH DRAIN TO EXTERIOR, T&P RELIEF VALVE WITH DRAIN TO EXTERIOR, AND A SHUT OFF VALVE WITHIN 3 FEET ON A COLD WATER SUPPLY LINE.
4. WATER PIPES INSTALLED IN A WALL EXPOSED TO THE EXTERIOR SHALL BE LOCATED ON THE HEATED SIDE OF THE WALL INSULATION. WATER PIPING INSTALLED IN AN UNCONDITIONED ATTIC SHALL BE INSULATED WITH AN INSULATION OF R-6.5-DWV. R3 INSULATION ON 3/4" AND LARGER PIPES AND HOT WATER PIPES INSTALLED OUTSIDE THE CONDITIONED SPACE.
5. DWV SYSTEMS SHALL BE EITHER ABS OR PVC-DWV.
6. WATER SUPPLY LINES SHALL BE PEX, CPVC, OR COPPER; WHEN PEX SUPPLY LINES ARE INSTALLED THE MAXIMUM WATER HEATER TEMPERATURE SETTING IS 180°F. THE PEX PIPE SHALL BE INSTALLED ACCORDANCE WITH THE MANUFACTURES LIMITATIONS AND INSTRUCTIONS.
7. BUILDING DRAIN AND CLEANOUTS ARE DESIGNED AND SITE INSTALLED BY OTHERS, SUBJECT TO LOCAL JURISDICTION APPROVAL.
8. WATER CLOSETS AVERAGE WATER USAGE SHALL NOT EXCEED 1.6 GALLONS PER FLUSH.
9. SHOWER STALLS SHALL BE COVERED WITH NON-ABSORBENT MATERIAL TO A HEIGHT OF 72 INCHES ABOVE THE FINISHED FLOOR.
10. SHOWERS SHALL BE CONTROLLED BY AN APPROVED MIXING VALVE WITH A MAXIMUM WATER OUTLET TEMPERATURE OF 120°F. (48.8°C)
11. AIR ADMITTANCE VALVE (AV) SHALL CONFORM TO ASSE 1051. THE VALVES SHALL BE LOCATED A MINIMUM OF 4 INCHES ABOVE THE HORIZONTAL DRAIN OR FIXTURE DRAIN BEING VENTED AND MUST BE INSTALLED IN A WELL VENTILATED SPACES OR BE PROVIDED WITH VENTILATED ACCESS DOORS.
12. WATER HAMMER ARRESTORS TO BE INSTALLED WHERE QUICK CLOSING VALVES ARE UTILIZED (I.E. DISHWASHERS, CLOTHES WASHERS, ICE MAKERS OR OTHER QUICK CLOSING DEVICES WITH SOLENOID VALVES). ARRESTORS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS SPECIFICATIONS.
13. THIS UNIT MUST BE CONNECTED TO PUBLIC WATER SUPPLY AND SEWER SYSTEM IF THESE ARE AVAILABLE.
14. SINKS 2.2 GALS AND LAVS 2.2 GALS PER MIN MAX. @ 60 PSI.
15. SHOWER HEADS SHALL NOT USE MORE THAN 2.5 GALS/MIN @ 80 PSI PER ANSI STD A 112.18.1M.
16. AN APPROVED THERMAL EXPANSION DEVICE SHALL BE SITE INSTALLED IN THE WATER SUPPLY SYSTEM IN ACCORDANCE WITH MANUFACTURERS INSTALLATION INSTRUCTIONS. (THIS DEVISE IS REQUIRED WHEN BACK FLOW PREVENTORS, PRESSURE REDUCING VALVES, CHECK VALVES OR SYSTEM WHICH MAY PREVENT PRESSURE RELIEF.
17. AN ACCESSIBLE SHUT OFF VALVE SHALL BE PROVIDED AHEAD OF THE FIRST OUTLET OR BRANCH CONNECTED TO THE SERVICE OR DISTRIBUTION PIPE. THIS SHUT OFF VALVE MAY BE SITE INSTALLED.

DESIGN APPROVAL AGENCY STAMP

DATE 8-22-2019 CERT. NO SMP-056
PLAN NUMBER MFT243-ME764750108R1
APPROVED BY Michael Faller

(signature)

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 Unprotected
Occupancy:	Single Family Dwelling
Allowable No. of Floors:	One
Wind Velocity:	150mph vult,116 vasd, Exp.C
Fire Rating of Ext. Walls:	0 Hr.
Plan No.:	MFT2437-ME764-750-108R1
Allow. Floor Load:	40 PSF
Approval Date:	8/22/2019
Manufacturer:	Destiny Industries, LLC

ELECTRICAL NOTES:

1. ALL CIRCUITS AND EQUIPMENT SHALL BE GROUNDED IN ACCORDANCE WITH THE APPROPRIATE ARTICLES OF THE NATIONAL ELECTRICAL CODE (NEC).
2. WHEN LIGHT FIXTURES ARE INSTALLED IN CLOSETS THEY SHALL BE SURFACE MOUNTED OR RECESSED, INCANDESCENT FIXTURES SHALL HAVE COMPLETELY ENCLOSED LAMPS. SURFACE MOUNTED INCANDESCENT FIXTURES SHALL HAVE MINIMUM CLEARANCE OF 12 INCHES AND ALL OTHER FIXTURES SHALL HAVE A MINIMUM CLEARANCE OF 6 INCHES FROM STORAGE AREA AS DEFINED BY NEC 410-8(A).
3. WHEN WATER HEATERS ARE INSTALLED THEY SHALL BE PROVIDED WITH READILY ACCESSIBLE DISCONNECTS ADJACENT TO THE WATER HEATERS SERVED. THE BRANCH CIRCUIT SWITCH OR CIRCUIT BREAKER SHALL BE PERMITTED TO SERVE AS THE DISCONNECTING MEANS ONLY WHERE THE SWITCH OR CIRCUIT BREAKER IS WITHIN SIGHT FROM THE WATER HEATER OR IS CAPABLE OF BEING LOCKED IN THE OPEN POSITION.
4. HVAC EQUIPMENT SHALL BE PROVIDED WITH READILY ACCESSIBLE DISCONNECTS ADJACENT TO THE EQUIPMENT SERVED. A UNIT SWITCH WITH A MARKED "OFF" POSITION THAT IS A PART OF THE HVAC EQUIPMENT AND DISCONNECTS ALL UNDERGROUND CONDUCTORS SHALL BE PERMITTED AS THE DISCONNECTING MEANS WHERE OTHER DISCONNECTING MEANS ARE ALSO PROVIDED BY A READILY ACCESSIBLE CIRCUIT BREAKER.
5. PRIOR TO ENERGIZING THE ELECTRICAL SYSTEM, THE INTERRUPTING RATING OF THE MAIN BREAKER MUST BE DESIGNED AND VERIFIED BY AS BEING IN COMPLIANCE WITH SECTION 110-9 OF THE NEC. BY LOCAL ELECTRICAL CONSULTANT.
6. THE MAIN ELECTRICAL PANEL, SERVICE DISCONNECT (MAIN CIRCUIT BREAKER) AND FEEDERS ARE SITE INSTALLED, DESIGNED BY OTHERS AND SUBJECT TO LOCAL JURISDICTION REVIEW AND APPROVAL.
7. ALL CIRCUITS CROSSING OVER MODULAR MATING LINES SHALL BE SITE CONNECTED WITH APPROVED ACCESSIBLE JUNCTION BOXES OR CABLE CONNECTIONS.
8. ALL OUTLETS LOCATED WITHIN 6 FEET OF A SINK OR BASIN SHALL BE EQUIPPED WITH GFCI PROTECTION.
9. ALL FANS MUST BE DUCTED TO THE EXTERIOR OF THE BUILDING AND TERMINATE AT AN APPROVED VENT CAP.
10. SMOKE DETECTORS SHALL BE WIRED SO THAT THE OPERATION OF ANY ONE SMOKE DETECTOR WILL CAUSE SIMULTANEOUS ACTIVATION OF ALL OTHERS (IN ANY ONE DWELLING UNIT).
11. PROVIDE COMBINATION SMOKE/CARBON MONOXIDE DETECTORS WHEN ANY FOSSIL FUEL APPLIANCES ARE PROVIDED.
12. ALL RECEPTACLES INSTALLED IN WET LOCATIONS (EXTERIOR) SHALL BE IN WEATHER PROOF (WP) ENCLOSURES, THE INTEGRITY OF WHICH IS NOT AFFECTED WHEN AN ATTACHMENT PLUG CAP IS INSERTED OR REMOVED.
13. ALL BRANCH CIRCUITS SUPPLYING 15 AND 20 AMP OUTLETS IN ALL AREAS ARE PROTECTED BY AN ARC-FAULT CIRCUIT INTERRUPTER IN ACCORDANCE WITH SECTION 210.12 IN 2014 NEC.
14. PROVIDE TAMPER RESISTANT RECEPTACLES IN ACCORDANCE WITH SECTION 406.11 IN 2014 NEC.

Destiny Industries, LLC
250 RW BRYANT ROAD
MOULTRIE, GA 31778
PHONE: 1-229-985-6200
E-MAIL: destinyhomebuilders.com

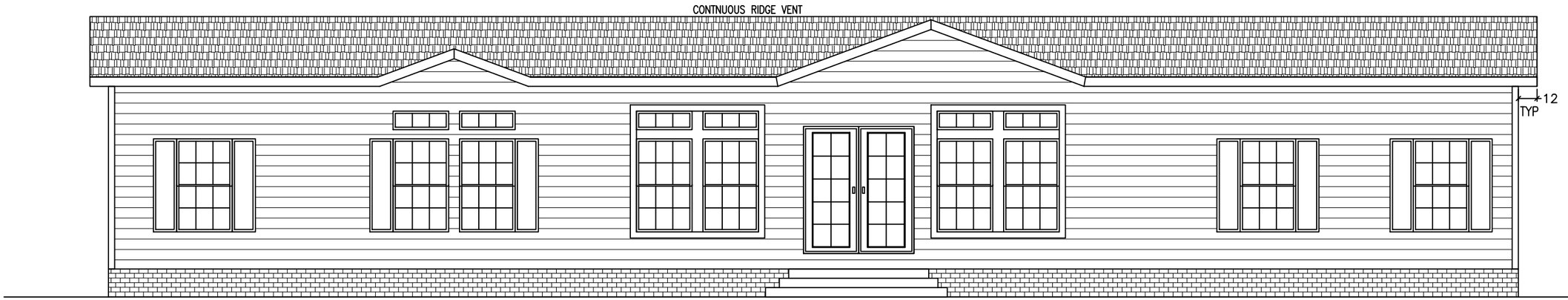
DATE:	7/16/2019
CODES:	2017 FBC
LABELS:	FLORIDA
SCALE:	NTS

3RD PARTY INSPECTION AGENCY
NTA INC
305 NORTH OAKLAND AVE
NAPPANEE, IN 46550
Contact: Dave Barts (574-773-2732)

MODEL: MFT2437-ME764-750-108R1
DRAWN BY: Jerry Benton

DRAWING: COVER/NOTE PAGE
SHEET 1

ERIK MYERS PE, PLLC
2805 28TH STREET
PARKERBURG, WV 26104



FRONT EXTERIOR

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 Unprocted
Occupancy:	Single Family Dwelling
Allowable No. of Floors:	One
Wind Velocity:	150mph vult 116 vasd, Exp C
Fire Rating of Ext. Walls:	0 Hr
Plan No.:	MFT2437-ME764-750-108R1
Allow. Floor Load:	40 PSF
Approval Date:	5/22/2019
Manufacturer:	Destiny Industries, LLC

RIGHT EXTERIOR

ATTIC VENTILATION:
CEILING INLET: (29.67X76)X144 = 324708 SQ.IN.
REQUIRED INLET AREA: (.5X162354)/300 = 541.18 SQ.IN.
PROVIDED INLET AREA: (60X2)5 = 600 SQ.IN
600 SQ.IN > 541.18 SQ.IN THEREFORE OK

REQUIRED OUTLET AREA: (.5X162354)/300 = 541.18 SQ.IN.
RIDGE VENT = 15 SQ.IN. PER FOOT OF AIR FLOW
SOFFIT = 5 SQ. IN PER FOOT OF AIR FLOW
36.07 FT OF RIDGE VENT REQUIRED
108.23 FT OF SOFFIT VENT REQUIRED

1. SEE CROSS SECTION FOR METHOD OF ROOF VENTILATION
2. FOUNDATION ENCLOSURE (WHEN PROVIDED) MUST HAVE ONE SQUARE FOOT NET VENT AREA PER 1/150TH OF THE FLOOR AREA.
3. A 22"X36" MINIMUM CRAWL SPACE ACCESS AND A 6 MIL POLY GROUND COVER, SITE INSTALLED BY OTHERS AND SUBJECT TO LOCAL JURISDICTION.
4. STEPS, RAILS, & DECKS TO BE DESIGNED AND BUILT BY OTHERS ON SITE, IN ACCORDANCE WILL LOCAL CODES REQUIREMENTS AND INSPECTIONS.

ERIK J. MYERS LICENSE No 77316 STATE OF FLORIDA PROFESSIONAL ENGINEER

Aug 21, 2019

Destiny Industries, LLC

250 RW BRYANT ROAD
MOULTRIE, GA 31778
PHONE: 1-229-985-6200
E-MAIL: destinyhomebuilders.com

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NAPPANEE, IN 46550
Contact: Dave Barts (574-773-2732)

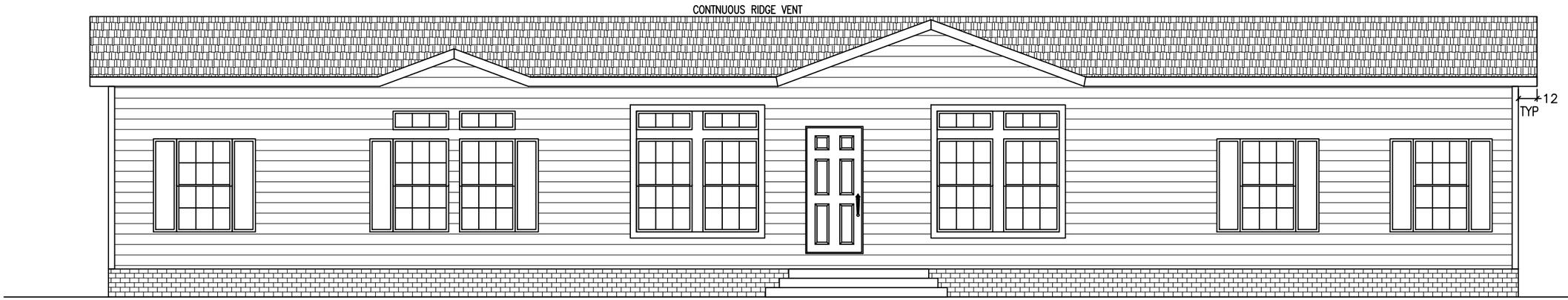
MODEL: MFT2437-ME764-750-108R1

DRAWN BY: Jerry Benton

DRAWING: EXTERIOR ELEVATION

SHEET 2

ERIK MYERS PE, PLLC
2805 28TH STREET
PARKERBURG, WV 26104



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Fire Rating of Ext. Walls:	0 Hr
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Allow. Floor Load:	40 PSF
Approval Date:	5/22/2019
Manufacturer:	Destiny Industries, LLC

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MODEL: MFT2437-ME764-750-108 R1
DRAWN BY: Jerry Benton

DRAWING: EXTERIOR ELEVATION
SHEET 2A

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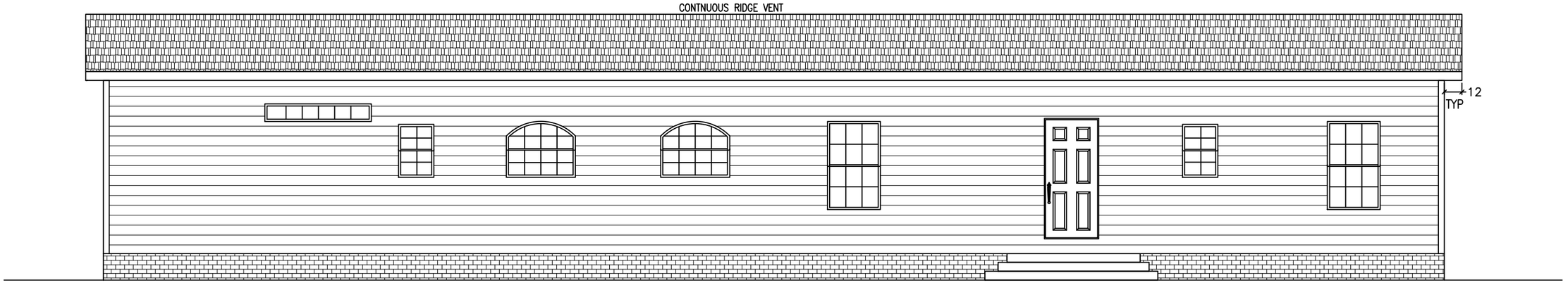
PARKERBURG, WV 26104



REAR EXTERIOR

LEFT EXTERIOR

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NTA INC
305 NORTH OAKLAND AVE
NAPPANEE, IN 46550
Contact: Dave Barts (574-773-2732)

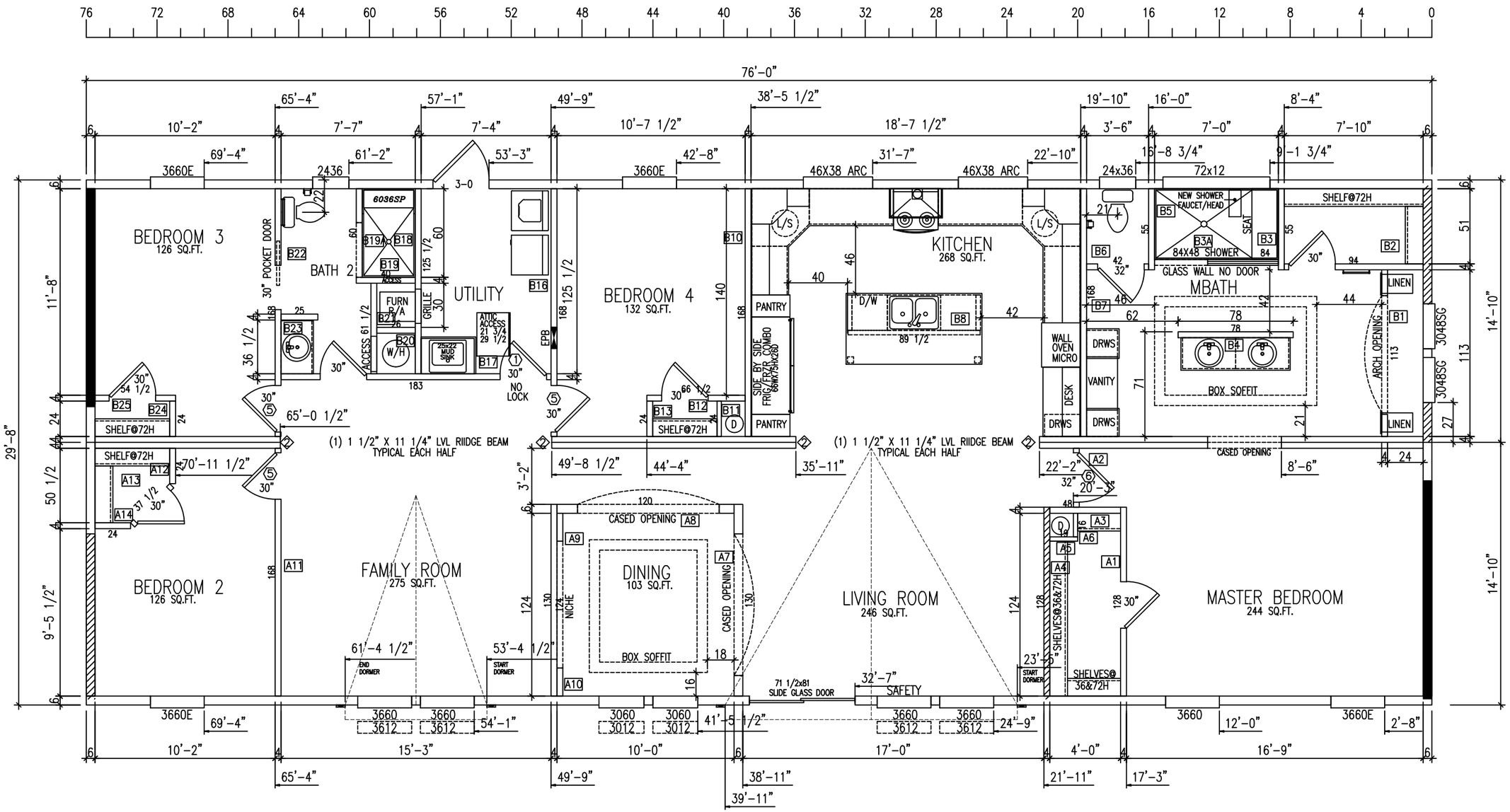
MODEL: MFT2437-ME764-750-108R1

DRAWN BY: Jerry Benton

DRAWING: EXTERIOR ELEVATION

SHEET 3

ERIK MYERS PE, PLLC
2805 28TH STREET
PARKERBURG, WV 26104



*ART. LIGHT AND VENT PROVIDED

LIGHT/VENT CHART	FLOOR AREA SQ. FT.	LIGHT REQUIRED / PROVIDED	VENT REQUIRED / PROVIDED
MASTER BEDROOM	244	19.52	9.76
		26.40	12.92
BEDROOM 2	126	10.08	5.04
		13.20	6.46
BEDROOM 3	126	10.08	5.04
		13.20	6.46
BEDROOM 4	132	10.56	5.28
		13.20	6.46
LIVING ROOM	246	19.68	9.84
		65.20	30.17
FAMILY ROOM	275	22.00	11.00
		30.70	12.92
KITCHEN	268	21.44	10.72
		*20.28	*9.62
DINING	103	8.24	4.12
		26.06	10.70

WINDOW SCHEDULE				
WIDTH	HEIGHT	TYPE	LIGHT SQ FT	VENT SQ FT
30"	12"	SINGLE HUNG	1.77	N/A
30"	30"	SINGLE HUNG	5.86	1.92
30"	48"	SINGLE HUNG	8.82	4.33
30"	60"	SINGLE HUNG	10.88	5.35
36"	12"	SINGLE HUNG	2.15	N/A
36"	36"	SINGLE HUNG	7.51	3.56
36"	40"	SINGLE HUNG	8.48	4.05
36"	60"	SINGLE HUNG	13.20	6.46
66"	32"	SINGLE HUNG	9.07	1.72
71"	81"	SINGLE HUNG	34.50	17.25
72"	12"	SINGLE HUNG	4.30	N/A
46"	38"	SINGLE HUNG	10.14	4.81
24"	36"	SINGLE HUNG	4.87	2.33

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 Unprotected
Occupancy:	Single Family Dwelling
Allowable No. of Floors:	One
Wind Velocity:	150 mph vult.116 vasd.Exp C
Fire Rating of Ext. Walls:	0 Hr
Plan No.:	MFT2437-ME764-750-108-R1
Allow. Floor Load:	40 PSF
Approval Date:	8/22/2019
Manufacturer:	Destiny Industries, LLC

2254 TOTAL SQUARE FOOTAGE
2254 HEATED & COOLED

267.43 SQ FT GLAZING

ERIK J. MYERS LICENSE No 77316 STATE OF FLORIDA PROFESSIONAL ENGINEER

Aug 22, 2019

Destiny Industries, LLC
250 RW BRYANT ROAD
MOULTRIE, GA 31778
PHONE: 1-229-985-6200
E-MAIL: destinyhomebuilders.com

DATE:	7/16/2019
CODES:	2017 FBC
LABELS:	FLORIDA
SCALE:	NTS

3RD PARTY INSPECTION AGENCY
NTA INC
305 NORTH OAKLAND AVE
NAPPANEE, IN 46550
Contact: Dave Barts (574-773-2732)

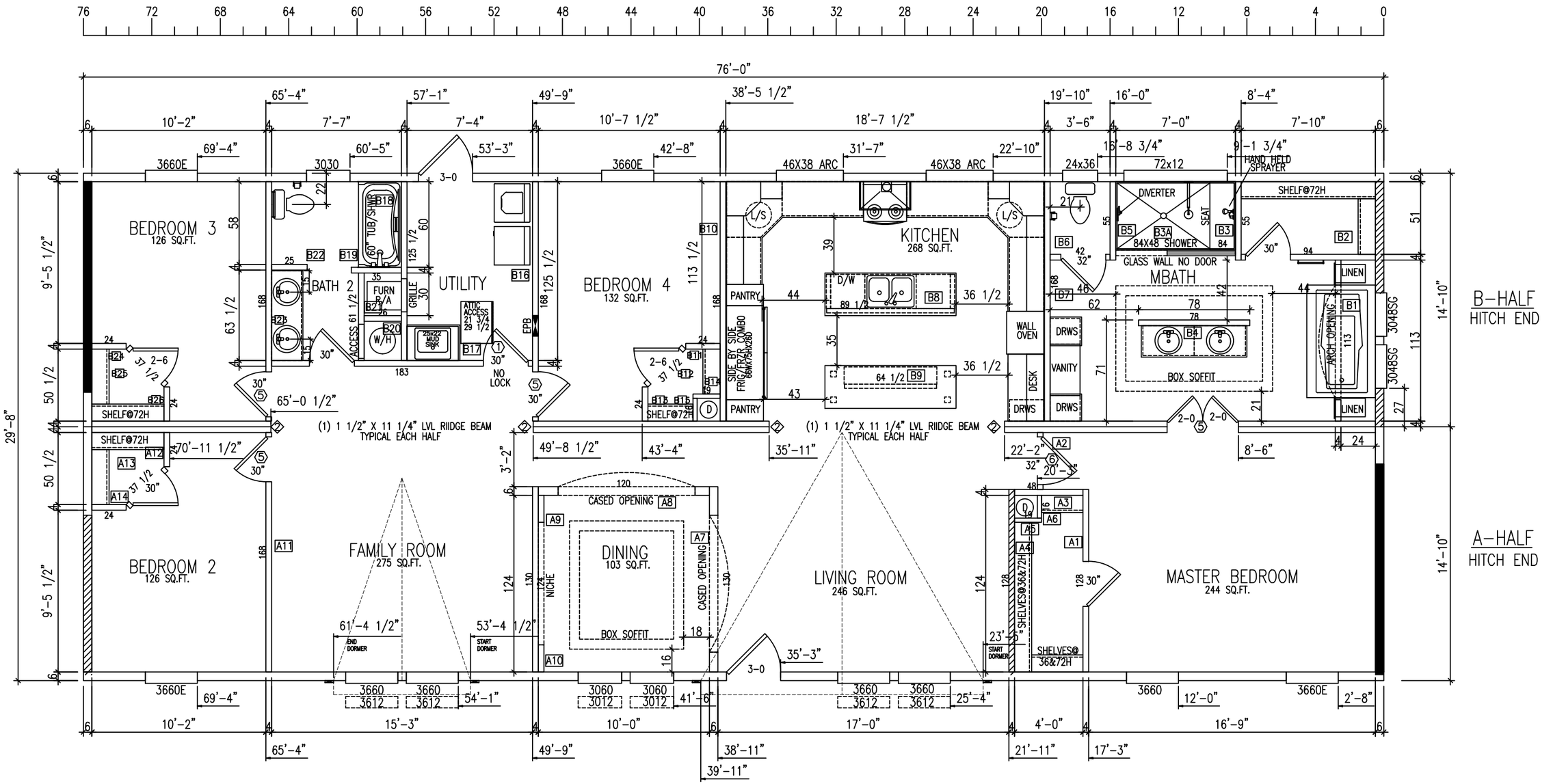
MODEL: MFT2437-ME764-750-108R1

DRAWN BY: Jerry Benton

DRAWING: MASTER PLAN

SHEET 4

ERIK MYERS PE, PLLC
2805 28TH STREET
PARKERBURG, WV 26104



*ART. LIGHT AND VENT PROVIDED

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MASTER BEDROOM	244	19.52	26.40	9.76	12.92
BEDROOM 2	126	10.08	13.20	5.04	6.46
BEDROOM 3	126	10.08	13.20	5.04	6.46
BEDROOM 4	132	10.56	13.20	5.28	6.46
LIVING ROOM	246	19.68	26.40	9.84	12.92
FAMILY ROOM	275	22.00	30.70	11.00	12.92
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30"	60"	SINGLE HUNG	10.88	5.35
36"	12"	SINGLE HUNG	2.15	N/A
36"	36"	SINGLE HUNG	7.51	3.56
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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 Unprotected
Occupancy: Single Family Dwelling
Allowable No. of Floors: One
Wind Velocity: 150 mph vult. 116 vasd. Exp C
Fire Rating of Ext. Walls: 0 HR
Plan No.: MFT2437-ME764-750-108-R1
Allow. Floor Load: 40 PSF
Approval Date: 8/22/2019
Manufacturer: Destiny Industries, LLC

2254 TOTAL SQUARE FOOTAGE
2254 HEATED & COOLED

267.43 SQ FT GLAZING

ERIK J. MYERS LICENSE No 77316 STATE OF FLORIDA PROFESSIONAL ENGINEER

Aug 22, 2019

Destiny Industries, LLC

250 RW BRYANT ROAD
MOULTRIE, GA 31778
PHONE: 1-229-985-6200
E-MAIL: destinyhomebuilders.com

DATE:	7/16/2019
CODES:	2017 FBC
LABELS:	FLORIDA
SCALE:	NTS

3RD PARTY INSPECTION AGENCY
NTA INC
305 NORTH OAKLAND AVE
NAPPANEE, IN 46550
Contact: Dave Barts (574-773-2732)

MODEL: MFT2437-ME764-750-108 R1
DRAWN BY: Jerry Benton

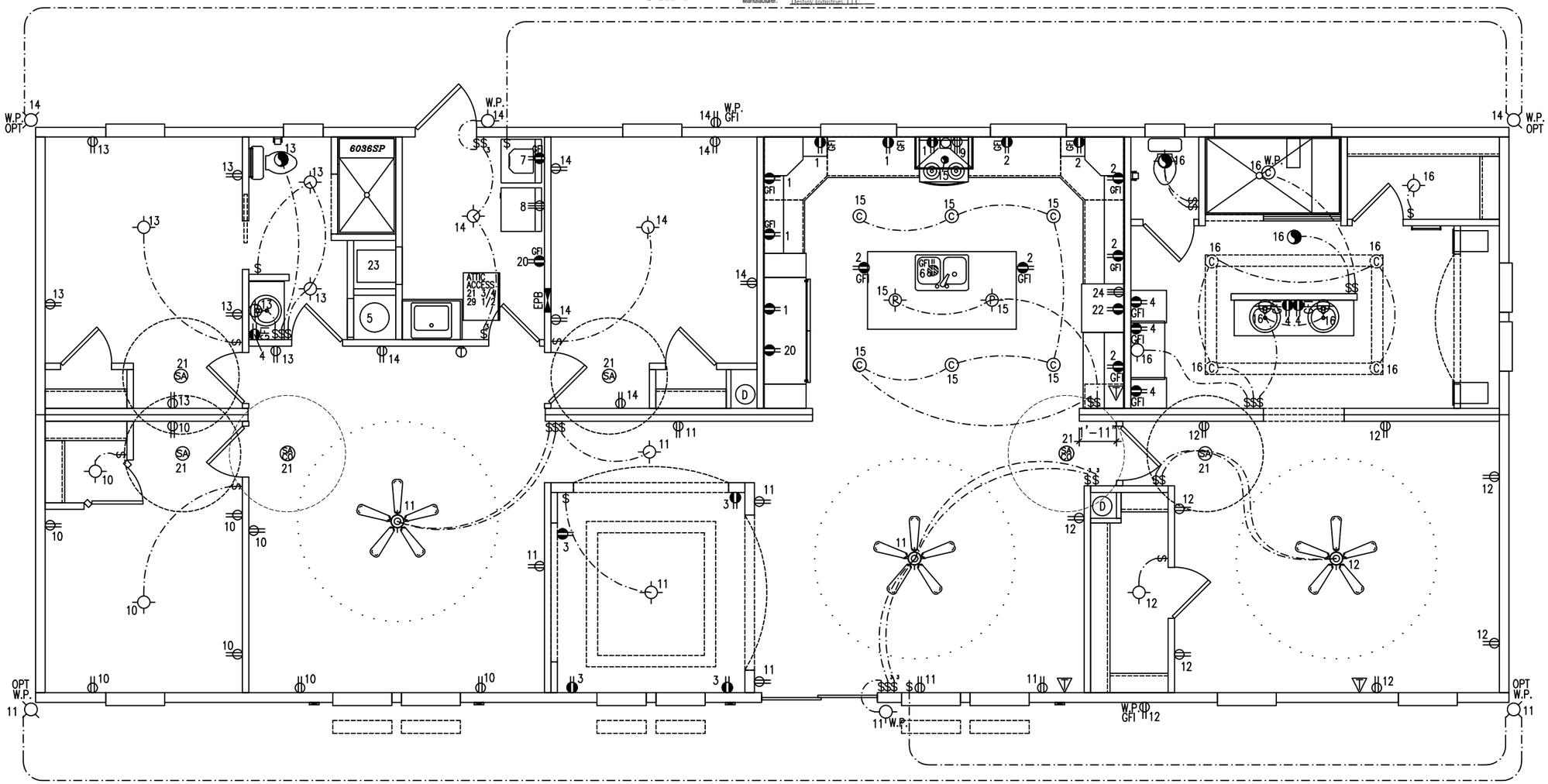
DRAWING: MASTER PLAN
SHEET 4A

ERIK MYERS PE, PLLC
2805 28TH STREET
PARKERBURG, WV 26104

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 Unprocted
Occupancy:	Single Family Dwelling
Allowable No. of Floors:	One
Wind Velocity:	150mph vult,116 vasd, Exp.C
Fire Rating of Ext. Walls:	0 Hr.
Plan No.:	MFT2437-ME764-750-108R1
Allow. Floor Load:	40 PSF
Approval Date:	8/22/2019
Manufacturer:	Destiny Industries, LLC



ELECTRICAL CIRCUIT SCHEDULE			
CIR	DESCRIPTION	COND. SIZE (CU)	BREAKER
1	SMALL APPLIANCE	12-2 W/ GND	20A, AFCI
2	SMALL APPLIANCE	12-2 W/ GND	20A, AFCI
3	SMALL APPLIANCE	12-2 W/ GND	20A, AFCI
4	BATH	12-2 W/ GND	20A
5	WATER HEATER	10-2 W/ GND	25 2P
6	DISHWASHER (OPT)	12-2 W/ GND	20A, AFCI
7	WASHER	12-2 W/ GND	20A, AFCI
8	DRYER	10-3 W/ GND	30 2P
9	RANGE	8-3 W/ GND	40 2P
10	GENERAL LIGHTING	14-2 W/ GND	15A, AFCI
11	GENERAL LIGHTING	14-2 W/ GND	15A, AFCI
12	GENERAL LIGHTING	14-2 W/ GND	15A, AFCI
13	GENERAL LIGHTING	14-2 W/ GND	15A, AFCI
14	GENERAL LIGHTING	14-2 W/ GND	15A, AFCI
15	GENERAL LIGHTING	14-2 W/ GND	15A, AFCI
16	GENERAL LIGHTING	14-2 W/ GND	15A, AFCI
17	GENERAL LIGHTING	14-2 W/ GND	15A, AFCI
18	GENERAL LIGHTING	14-2 W/ GND	15A, AFCI
19	COOK TOP	10-3 W/ GND	30 2P
20	FREEZER (OPT)	12-2 W/ GND	20A, AFCI
21	SMOKE DETECTORS	14-3 W/ GND	15A, AFCI
22	MICROWAVE (OPT)	12-2 W/ GND	20A, AFCI
23	HVAC	PER MFG INSTRUCTIONS	
24	WALL OVEN	10-3 W/ GND	30 2P
25	COOK TOP	10-3 W/ GND	30 2P
26	TANKLESS W/H	PER MFG INSTRUCTIONS	
27	TANKLESS W/H	PER MFG INSTRUCTIONS	

ELECTRICAL LEGEND	
PC	PULL CHAIN LIGHT
	RANGE EXHAUST FAN
WP	EXT PORCH LIGHT
	FLUORESCENT LIGHT
	INCANDESCENT LIGHT
	EXHAUST FAN
	PEDANT LIGHT
	PANEL BOX
SA	SMOKE DETECTOR
SD CO	SMOKE DETECTOR CARBON MONOXIDE
C	CAN LIGHT
	20 AMP DUPLEX RECPTACLE
	15 AMP DUPLEX RECPTACLE
	240V RECEPT
$	SWITCH
$3	3-WAY SWITCH
	PHONE JACK
CJ	CABLE JACK
T	THERMOSTAT
	COMBO LIGHT AND VENT

3-WAY SWITCHES WILL HAVE 14-3 OR 12-3 WIRE FOR SWITCH LEGS.

ERIK J. MYERS LICENSE No 77316 STATE OF FLORIDA PROFESSIONAL ENGINEER

Aug 21, 2019

75% OF LAMPS IN ALL PERMANENTLY INSTALLED LIGHTING FIXTURES MUST BE HIGH EFFICANCY LAMPS.

PANEL SIZING:

2254 SQ. FT. X 3 WATTS/SQ. FT.	= 6.8	KW
3-20 AMP APPLIANCES CKTS	= 4.5	KW
RANGE CIRCUIT	= 13	KW
WATER HEATER CIRCUIT	= 4.5	KW
DISHWASHER CIRCUIT	= 1.4	KW
WASHER CIRCUIT	= 1.5	KW
DRYER CIRCUIT	= 5.5	KW
GARBAGE DISPOSAL	= 1.9	KW
TOTAL	= 40.1	KW
FIRST 10KW @ 100%	= 10	KW
REMAINDER @ 40% (30.1 X 0.40)	= 12.0	KW
HVAC (ASSUMED 20.90)	= 20.0	KW
TOTAL	= 42.0 KW = 42,000 WATTS	
42,000 WATTS/240 VOLTS	= 175.1 AMPS = 200 AMP SERVICE	

Destiny Industries, LLC
250 RW BRYANT ROAD
MOULTRIE, GA 31778
PHONE: 1-229-985-6200
E-MAIL: destinyhomebuilders.com

DATE:	7/16/2019
CODES:	2017 FBC
LABELS:	FLORIDA
SCALE:	NTS

3RD PARTY INSPECTION AGENCY
NTA INC
305 NORTH OAKLAND AVE
NAPPANEE, IN 46550
Contact: Dave Barts (574-773-2732)

MODEL: MFT2437-ME764-750-108R1

DRAWN BY: Jerry Benton

DRAWING: ELECTRICAL LAYOUT

SHEET 5

ERIK MYERS PE, PLLC
2805 28TH STREET
PARKERBURG, WV 26104

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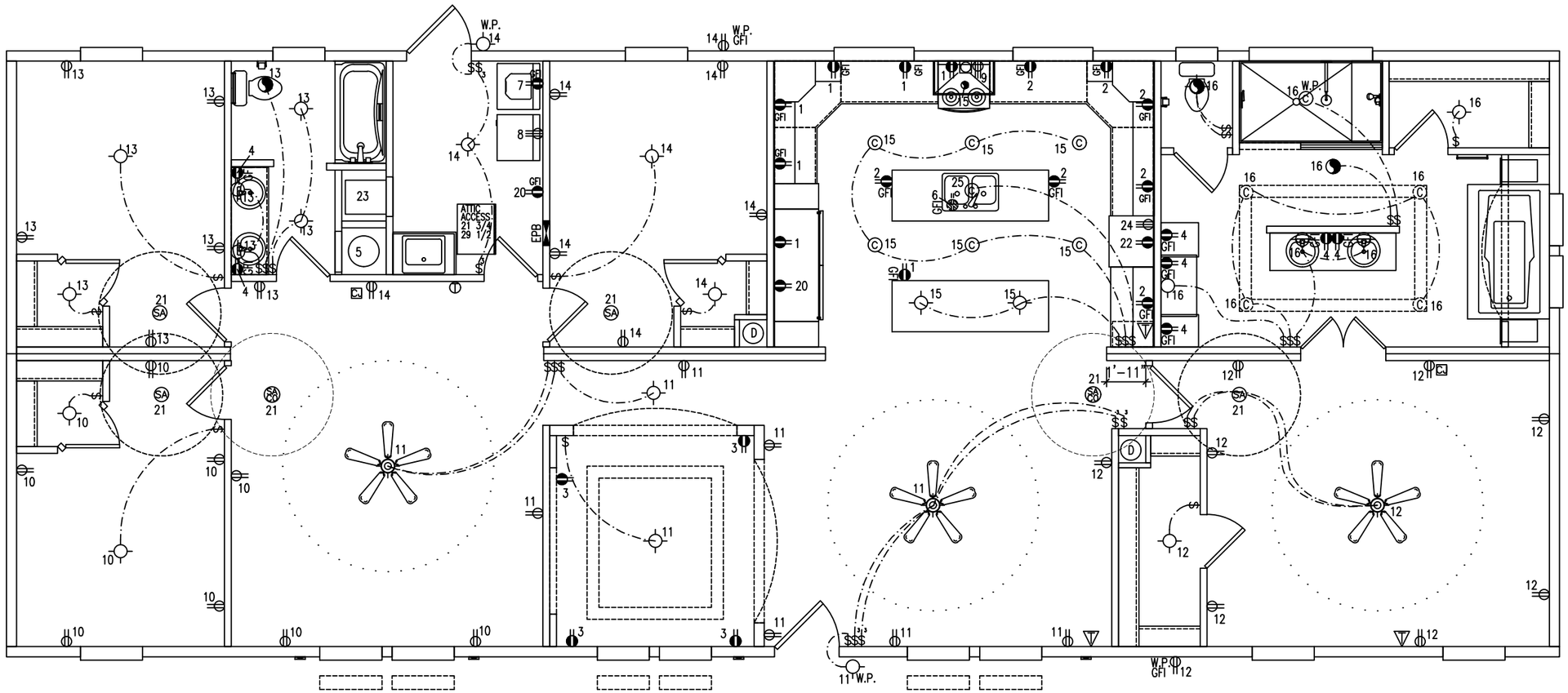
APPROVED BY NTA INC.

Const. Type:	VB Unprocted
Occupancy:	Single Family Dwelling
Allowable No. of Floors:	One
Wind Velocity:	150mph vult 116 vasd, Exp C
Fire Rating of Ext. Walls:	0 Hr.
Plan No.:	MFT2437-ME764-750-108R1
Allow. Floor Load:	40 PSF
Approval Date:	5/22/2019
Manufacturer:	Destiny Industries, LLC



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	20 AMP DUPLEX RECPTACLE
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	240V RECEPT
$	SWITCH
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3-WAY SWITCHES WILL HAVE 14-3 OR 12-3 WIRE FOR SWITCH LEGS.

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Aug 21, 2019

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250 RW BRYANT ROAD
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PHONE: 1-229-985-6200
E-MAIL: destinyhomebuilders.com

DATE:	7/16/2019
CODES:	2017 FBC
LABELS:	FLORIDA
SCALE:	NTS

3RD PARTY INSPECTION AGENCY
NTA INC
305 NORTH OAKLAND AVE
NAPPANEE, IN 46550
Contact: Dave Barts (574-773-2732)

MODEL: MFT2437-ME764-750-108 R1

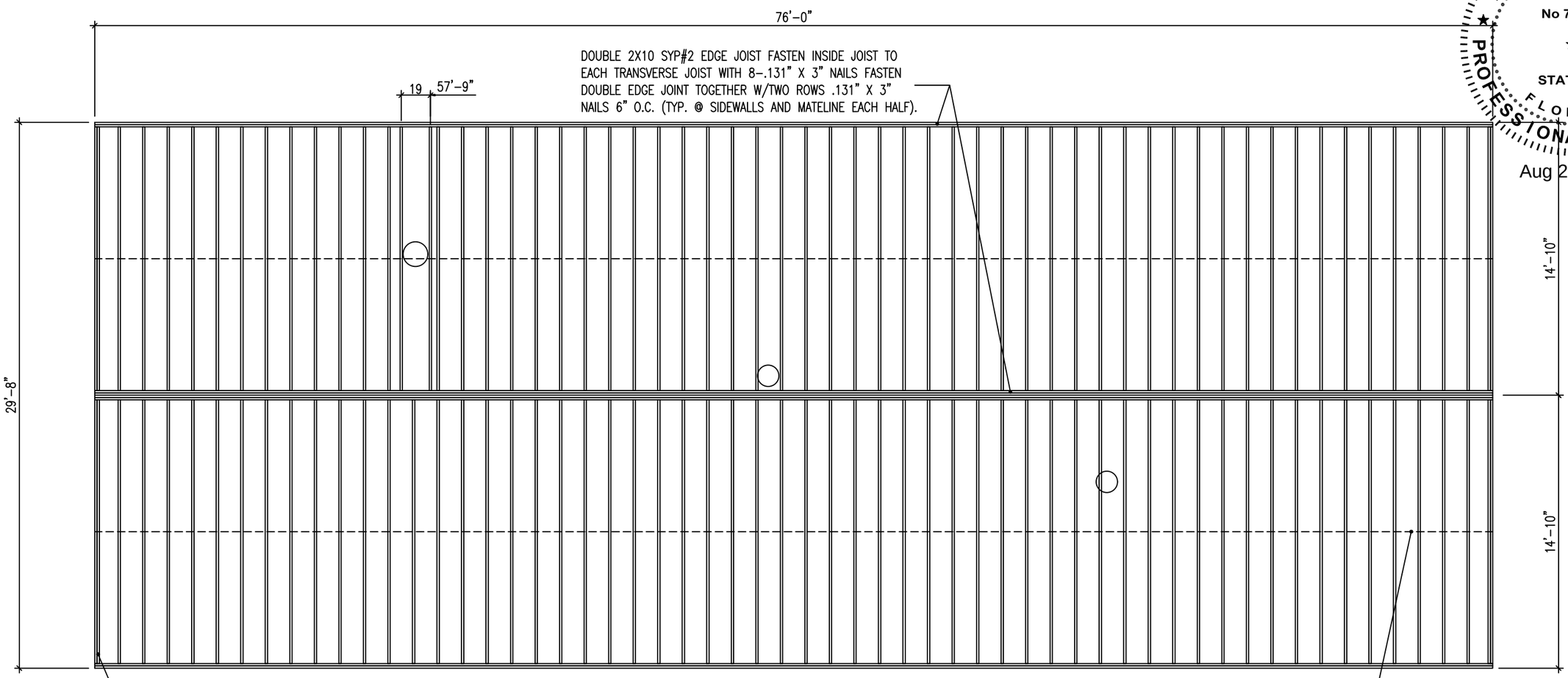
DRAWN BY: Jerry Benton

DRAWING: OPTIONAL ELECTRICAL LAYOUT

SHEET 5A

ERIK MYERS PE, PLLC
2805 28TH STREET
PARKERBURG, WV 26104

* PIER BLOCKING REQUIRED



GIRDER AT MATELINE TO HAVE SPLITS LIMITED TO 4" AND HAVE ALL BUTT JOINTS TO FALL OVER PIERS (TYP. EACH HALF) SEE FOUNDATION PLAN FOR PIER LOCATIONS.

ERIK J. MYERS LICENSE No 77316 STATE OF FLORIDA PROFESSIONAL ENGINEER

Aug 21, 2019

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Occupancy:	Single Family Dwelling
Allowable No. of Floors:	One
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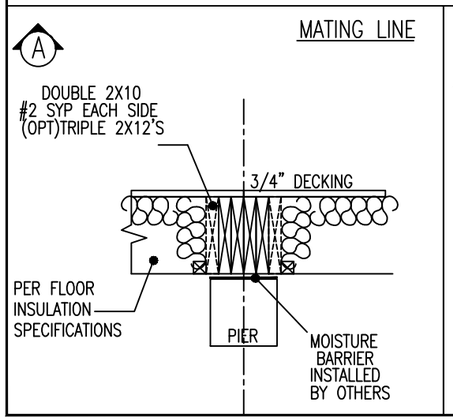
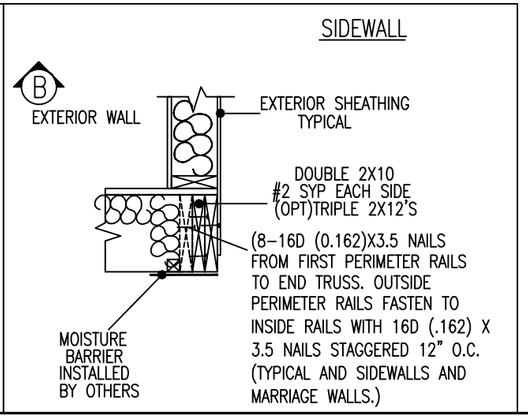
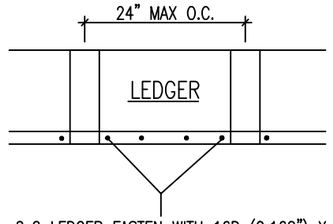
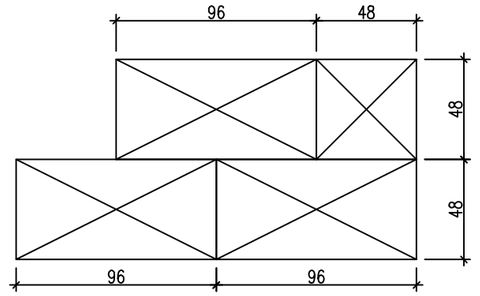
Fire Rating of Ext. Walls:	0 Hr
Plan No.:	MFT2437-ME764-750-108R1
Allow. Floor Load:	40 PSF
Approval Date:	8/22/2019
Manufacturer:	Destiny Industries, LLC







2x2 LEDGER FASTEN WITH 16D (0.162") X 3.5" NAILS. NAIL EACH SIDE OF JOISTS THEN 8" O.C. BETWEEN JOISTS.(MAY USE SIMPSON HUS46 HANGERS IN PLACE OF 2X2 LEDGER)



19/32" PLYWOOD OR OSB SHEATHING PERPENDICULAR TO JOIST W/NEXT ROW STAGGERED @4'-0" (STURDIFLOOR. EXP 1, 20" O.C.) T&G EDGES FASTENED W/100% PVA GLUE & .113"X2" NAILS 6" O.C. EDGES & FEILD.

Destiny Industries, LLC

250 RW BRYANT ROAD
MOULTRIE, GA 31778
PHONE: 1-229-985-6200
E-MAIL: destinyhomebuilders.com

DATE:	7/16/2019
CODES:	2017 FBC
LABELS:	FLORIDA
SCALE:	NTS

3RD PARTY INSPECTION AGENCY
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305 NORTH OAKLAND AVE
NAPPANEE, IN 46550
Contact: Dave Barts (574-773-2732)

MODEL: MFT2437-ME764-750-108R1

DRAWN BY: Jerry Benton

DRAWING: FLOOR FRAMING

SHEET 6

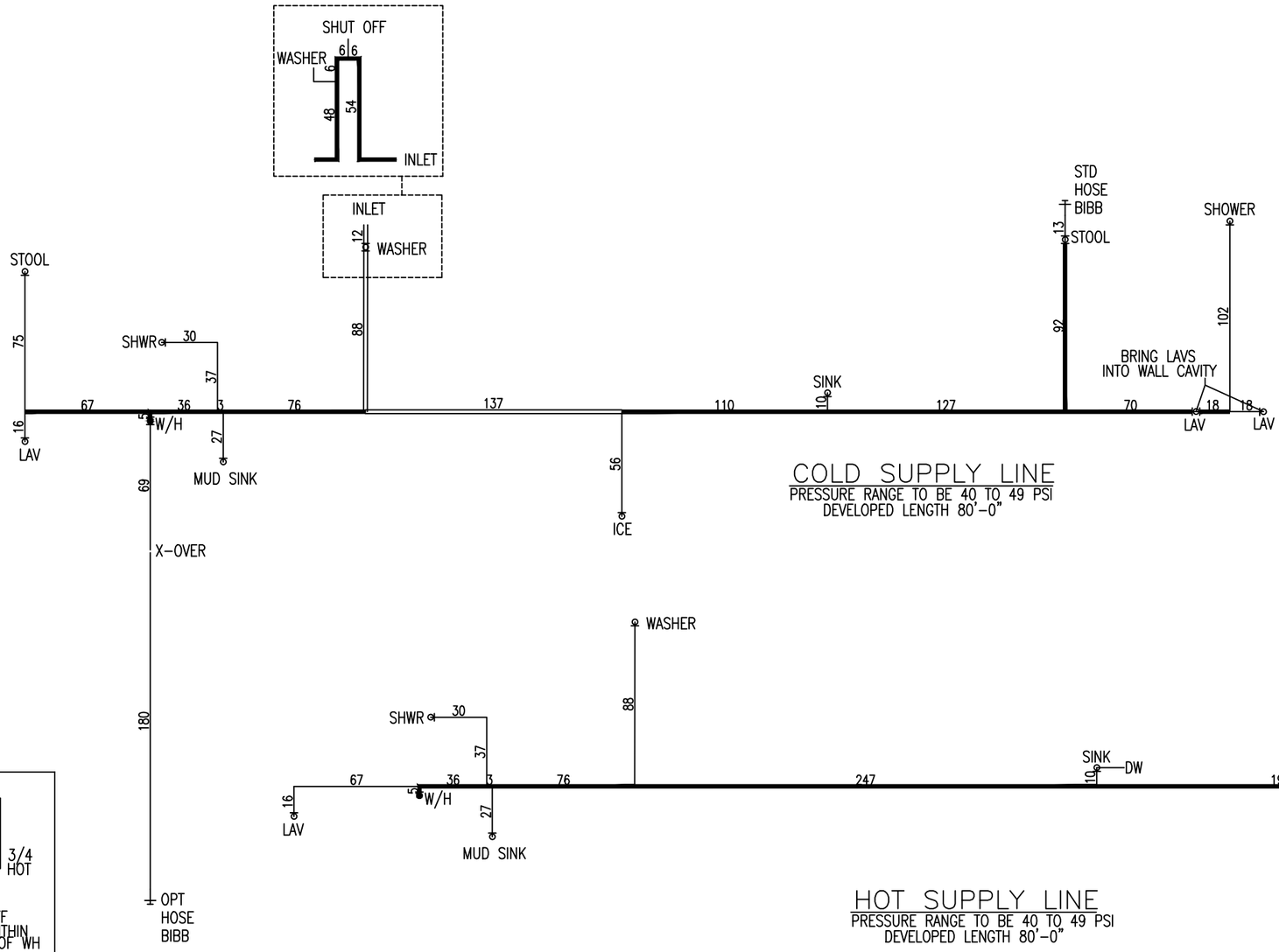
ERIK MYERS PE, PLLC
2805 28TH STREET
PARKERBURG, WV 26104

PIPE LEGEND

1" PIPE

3/4" PIPE

1/2" PIPE



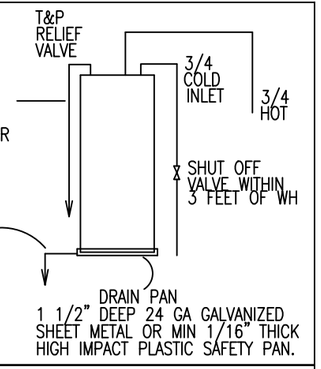
COLD SUPPLY LINE

PRESSURE RANGE TO BE 40 TO 49 PSI
DEVELOPED LENGTH 80'-0"

HOT SUPPLY LINE

PRESSURE RANGE TO BE 40 TO 49 PSI
DEVELOPED LENGTH 80'-0"

WATER HEATER DETAIL



3/4" T&P LINE SHALL DISCHARGE TO THE EXTERIOR OF TEH BUILDING OR TO AN INDIRECT WASTE RECEPTOR WITH A VISIBLE AIR GAP (MAY BE ON SITE BY OTHERS)

3/4" DRAIN TO EXTERIOR
3/4" PAN DRAIN LINE SHALL EXTEND FULL SIZE TO THE EXTERIOR OF THE BUILDING AND TERMINATE 6 TO 24 INCHES ABOVE GRADE.

WATER HEATER NOTES:

1. WATER HEATER SHALL BE PROVIDED WITH A COLD WATER "DIP" TUBE WITH A HOLE AT THE TOP OR A VACUM RELIEF VAVLE INSTALLED IN THE COLD WATER SUPPLY LINE ABOVE THE TOP OF THE WATER HEATER TANK; BOTTOM FED WATER HEATERS SHALL HAVE A VACUM RELIEF VALVE COMPLYING WITH ANSI Z21.22 INSTALLED.
2. WATER HEATERS SHALL BE PROVIDED WITH A TEMPERATURE AND PRESSURE RELIEF VALVE COMPLYING WITH ANSI Z21.22 INSTALLED IN THE SHELL OF THE WATER HEATER TANK. THE VALVE SHALL BE ACTUATED BY THE WATER IN IN THE TOP 6" OF THE TANK AND SHALL HAVE A TEMPERATURE RATING OF NOT MORE THAN 210°F AND A PRESSURE SETTING NOT EXCEEDING THE TANKS RATED WORKING PRESSURE OR 150 PSI, WHICHEVER IS LESS.
3. WATER HEATERS SHALL BE EQUIPPED WITH AN ENERGY CUTOFF DEVICE THAT WILL CUT OFF THE SUPPLY OF HEAT ENERGY TO THE WATER TANK BEFORE THE TEMPERATURE OF THE WATER IN THE TANK EXCEEDS 210°F.

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 Unprocted
Occupancy:	Single Family Dwelling
Allowable No. of Floors:	One
Wind Velocity:	150mph vult/116 vasd, Exp C
Fire Rating of Ext. Walls:	0 Hr
Plan No.:	MFT2437-ME764-750-108R1
Allow. Floor Load:	40 PSF
Approval Date:	8/22/2019
Manufacturer:	Destiny Industries, LLC

ERIK J. MYERS LICENSE No 77316 STATE OF FLORIDA PROFESSIONAL ENGINEER

Aug 21, 2019

Destiny Industries, LLC

250 RW BRYANT ROAD
MOULTRIE, GA 31778
PHONE: 1-229-985-6200
E-MAIL: destinyhomebuilders.com

DATE:	7/1/2013
CODES:	2017 FBC
LABELS:	FLORIDA
SCALE:	NTS

3RD PARTY INSPECTION AGENCY
NTA INC
305 NORTH OAKLAND AVE
NAPPANEE, IN 46550
Contact: Dave Barts (574-773-2732)

MODEL: MFT2437-ME764-750-108R1

DRAWN BY: Jerry Benton

DRAWING: WATER SUPPLY

SHEET 7

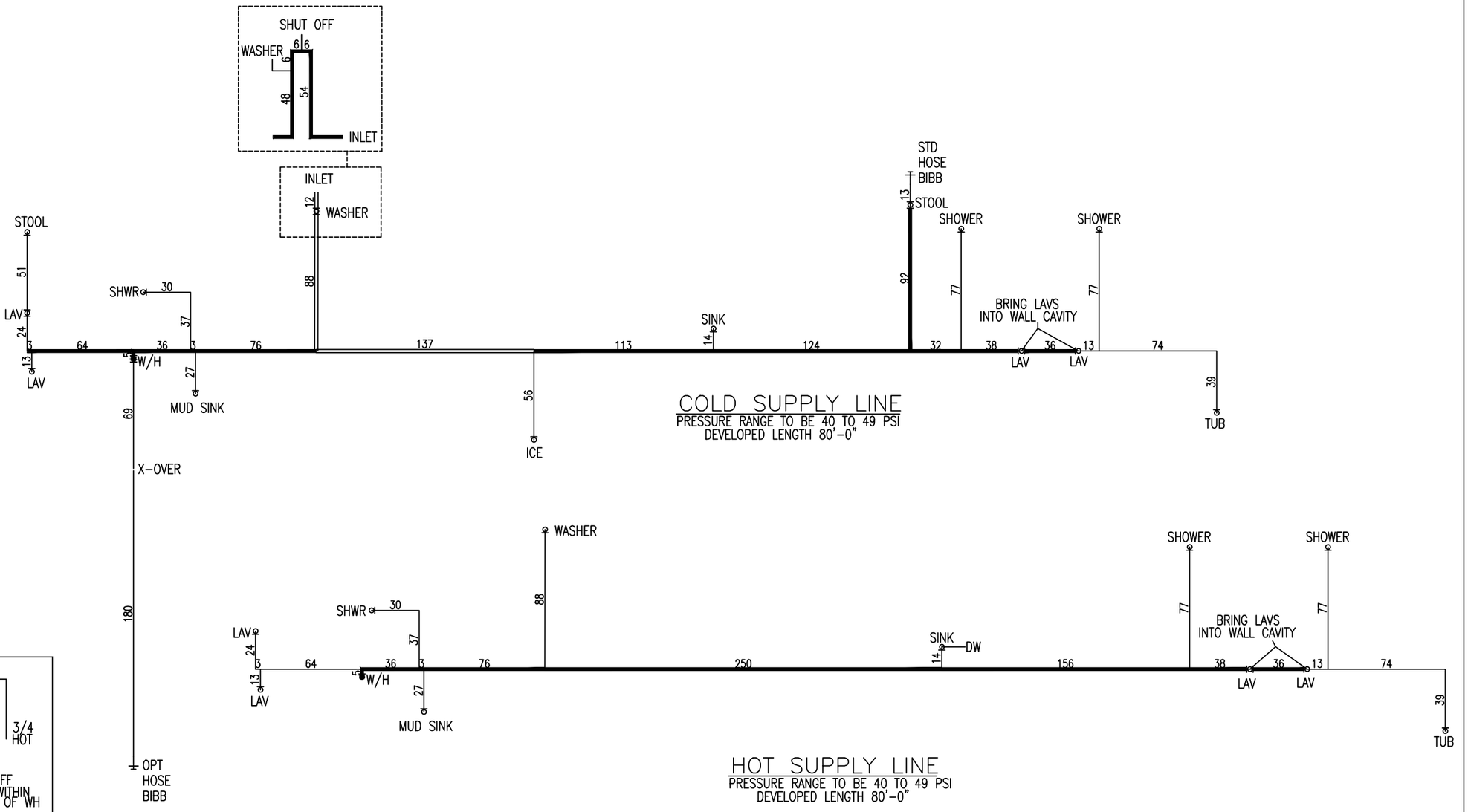
ERIK MYERS PE, PLLC
2805 28TH STREET
PARKERBURG, WV 26104

PIPE LEGEND

1" PIPE

3/4" PIPE

1/2" PIPE



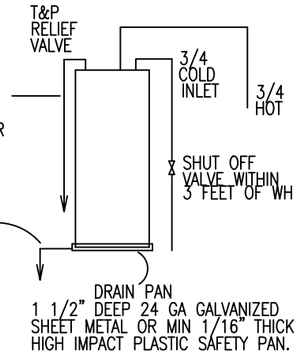
COLD SUPPLY LINE

PRESSURE RANGE TO BE 40 TO 49 PSI
DEVELOPED LENGTH 80'-0"

HOT SUPPLY LINE

PRESSURE RANGE TO BE 40 TO 49 PSI
DEVELOPED LENGTH 80'-0"

WATER HEATER DETAIL



3/4" T&P LINE SHALL DISCHARGE TO THE EXTERIOR OF TEH BUILDING OR TO AN INDIRECT WASTE RECEPTOR WITH A VISIBLE AIR GAP (MAY BE ON SITE BY OTHERS)

3/4" DRAIN TO EXTERIOR
3/4" PAN DRAIN LINE SHALL EXTEND FULL SIZE TO THE EXTERIOR OF THE BUILDING AND TERMINATE 6 TO 24 INCHES ABOVE GRADE.

WATER HEATER NOTES:

1. WATER HEATER SHALL BE PROVIDED WITH A COLD WATER "DIP" TUBE WITH A HOLE AT THE TOP OR A VACUM RELIEF VAVLE INSTALLED IN THE COLD WATER SUPPLY LINE ABOVE THE TOP OF THE WATER HEATER TANK; BOTTOM FED WATER HEATERS SHALL HAVE A VACUM RELIEF VALVE COMPLYING WITH ANSI Z21.22 INSTALLED.
2. WATER HEATERS SHALL BE PROVIDED WITH A TEMPERATURE AND PRESSURE RELIEF VALVE COMPLYING WITH ANSI Z21.22 INSTALLED IN THE SHELL OF THE WATER HEATER TANK. THE VALVE SHALL BE ACTUATED BY THE WATER IN IN THE TOP 6" OF THE TANK AND SHALL HAVE A TEMPERATURE RATING OF NOT MORE THAN 210°F AND A PRESSURE SETTING NOT EXCEEDING THE TANKS RATED WORKING PRESSURE OR 150 PSI, WHICHEVER IS LESS.
3. WATER HEATERS SHALL BE EQUIPPED WITH AN ENERGY CUTOFF DEVICE THAT WILL CUT OFF THE SUPPLY OF HEAT ENERGY TO THE WATER TANK BEFORE THE TEMPERATURE OF THE WATER IN THE TANK EXCEEDS 210°F.

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APPROVED BY NTA INC.

Const. Type:	VB Unprocted
Occupancy:	Single Family Dwelling
Allowable No. of Floors:	One
Wind Velocity:	150mph vult,116 vasd, Exp C
Fire Rating of Ext. Walls:	0 Hr
Plan No.:	MFT2437-ME764-750-108RA
Allow. Floor Load:	40 PSF
Approval Date:	8/22/2019
Manufacturer:	Destiny Industries, LLC

ERIK J. MYERS LICENSE No 77316 STATE OF FLORIDA PROFESSIONAL ENGINEER

Aug 21, 2019

Destiny Industries, LLC

250 RW BRYANT ROAD
MOULTRIE, GA 31778

PHONE: 1-229-985-6200
E-MAIL: destinyhomebuilders.com

DATE:	8/14/2019
CODES:	2017 FBC
LABELS:	FLORIDA
SCALE:	NTS

3RD PARTY INSPECTION AGENCY
NTA INC
305 NORTH OAKLAND AVE
NAPPANEE, IN 46550
Contact: Dave Barts (574-773-2732)

MODEL: MFT2437-ME764-750-108A

DRAWN BY: Jerry Benton

DRAWING: WATER SUPPLY

SHEET 7A

ERIK MYERS PE, PLLC
2805 28TH STREET
PARKERBURG, WV 26104

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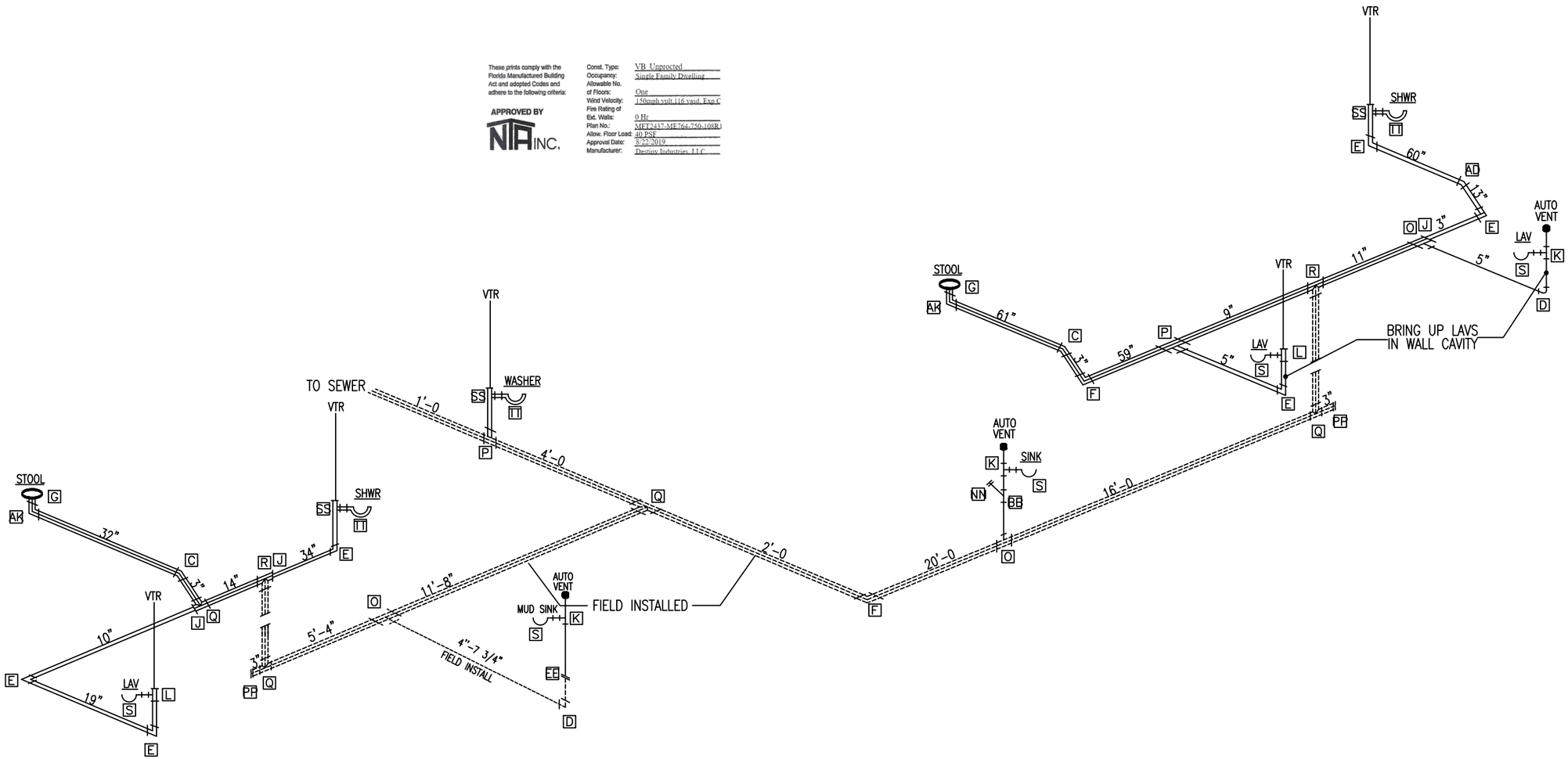

LEGEND

AUTO VENT ═══ 3" PIPE ━━━ 2" PIPE ——— 1 1/2" PIPE

FITTING SCHEDULE

LET	DESCRIPTION	LET	DESCRIPTION	LET	DESCRIPTION	LET	DESCRIPTION
A	1 1/2"x45° LT-1/88			HH	1 1/2" SAN.TEE STREET	YY	4" CLOSET FLANGE
B	2"x45° LT-1/88	R	3" 3-WAY ELBOW	II	2"x1 1/2"x 1 1/2" LTTY	ZZ	4" COUPLING
C	3"x45° LT-1/88	S	1 1/2"x 1 1/2" P-TRAP	JJ	2"x1 1/2"x 2" LTTY	AB	1 1/2" CONTINUOUS WASTE
D	1 1/2"x90° LSWEEP-1/4B	T	3" x 3" x 2" x 1 1/2" DBL.SAN. TEE	KK	2" 1/4b STREET	AC	1 1/2" x 22 1/2° ELBOW STR.
E	2"x90° LSWEEP 1/4B	U	3" x 3" x 1 1/2" SANITARY TEE	LL	2" 45° WYE	AD	2" x 22 1/2° ELBOW STR.
F	3"x90° LSWEEP 1/4B	V	1 1/2" x90° LSWEEP STREET ELL	MM	3" DBL. SAN. TEE	AE	3" x 3" x 2" x 2" DBL. SAN. TEE
G	4"x3" CLOSET FLANGE	W	3" SANITARY TEE	NN	1 1/2" C.O. W/PLUG	AF	2" x 1 1/2"x 1 1/2" SAN.TEE STR.
H	2" x 1 1/2" FLUSH BUSH.	X	3"x 3"x 1 1/2" WYE	OO	2" C.O. W/ PLUG	AG	2" x 1 1/2"x 1 1/2" 3-WAY ELBOW
I	3" x 1 1/2" FLUSH BUSH.	Y	2" 3-WAY ELBOW	PP	3" C.O. W/ PLUG	AH	3" x 22 1/2° 1/168 ELB
J	3" x 2" FLUSH BUSH.	Z	2" x 2" x 1 1/2" LTTY.	QQ	2" x 2" x 1 1/2" x WYE REDUCING	AI	1 1/2" 3-WAY ELBOW
K	1 1/2" SANITARY TEE	AA	3" x 3" x 2" TEE	RR	1 1/2" x 1/4" BEND	AJ	2" x 22 1/2° 1/168 ELBOW
L	2" x 1 1/2" x 1 1/2" SANITARY TEE	BB	1 1/2" x 45° WYE	SS	2" x 1 1/2" x 2" SAN. TEE	AK	4" x 3" CLOSET BEND STR.
M	1 1/2" LTTY	CC	2" x 90° LSWEEP STREET ELL	TT	2" P-TRAP		(CUT DOWN 1.5")
N	2" LTTY	DD	1 1/2" x 45° STREET 1/88	UU	2" x 45° 1/8b STREET	AL	3" x 3" x 3" WYE
O	3" x 3" x 1 1/2" LTTY	EE	1 1/2" COUPLING	VV	2" COUPLING	AM	3" 1/4" BEND
P	3" x 3" x 2" LTTY	FF	3" COUPLING	WW	3" x 45° 1/8b STREET	AN	2" x 3" PIPE INCREASER
Q	3" LTTY	GG	1 1/2" x P-TRAP @ WASHER	XX	2" x SANITARY TEE	AO	3" x 3" x 2" WYE

ERIK J. MYERS LICENSE No 77316 STATE OF FLORIDA PROFESSIONAL ENGINEER

Aug 21, 2019

Destiny Industries, LLC

250 RW BRYANT ROAD
MOULTRIE, GA 31778
PHONE: 1-229-985-6200
E-MAIL: destinyhomebuilders.com

DATE:	7/16/2019
CODES:	2017 FBC
LABELS:	FLORIDA
SCALE:	NTS

3RD PARTY INSPECTION AGENCY
NTA INC
305 NORTH OAKLAND AVE
NAPPANEE, IN 46550
Contact: Dave Barts (574-773-2732)

MODEL: MFT2437-ME764-750-108R1

DRAWN BY: Jerry Benton

DRAWING: DRAIN LINES

SHEET 8

ERIK MYERS PE, PLLC
2805 28TH STREET
PARKERBURG, WV 26104

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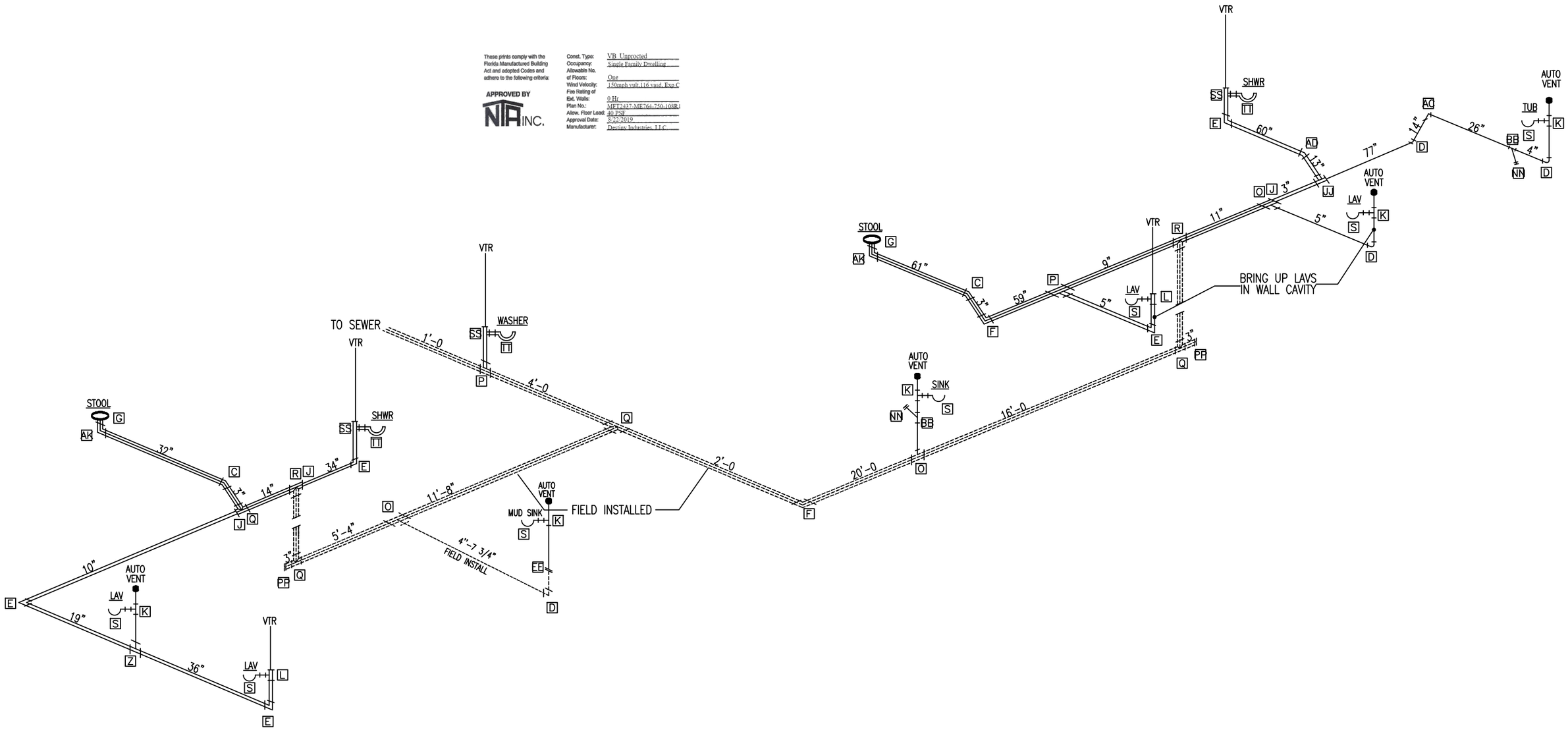
Approval Date:	8/22/2019
Manufacturer:	Destiny Industries, LLC



LEGEND

■ AUTO VENT ═══ 3" PIPE ━━━ 2" PIPE ——— 1 1/2" PIPE

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ERIK J. MYERS LICENSE No 77316 STATE OF FLORIDA PROFESSIONAL ENGINEER

Aug 21, 2019

Destiny Industries, LLC

250 RW BRYANT ROAD
MOULTRIE, GA 31778
PHONE: 1-229-985-6200
E-MAIL: destinyhomebuilders.com

DATE:	7/16/2019
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LABELS:	FLORIDA
SCALE:	NTS

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NTA INC
305 NORTH OAKLAND AVE
NAPPANEE, IN 46550
Contact: Dave Barts (574-773-2732)

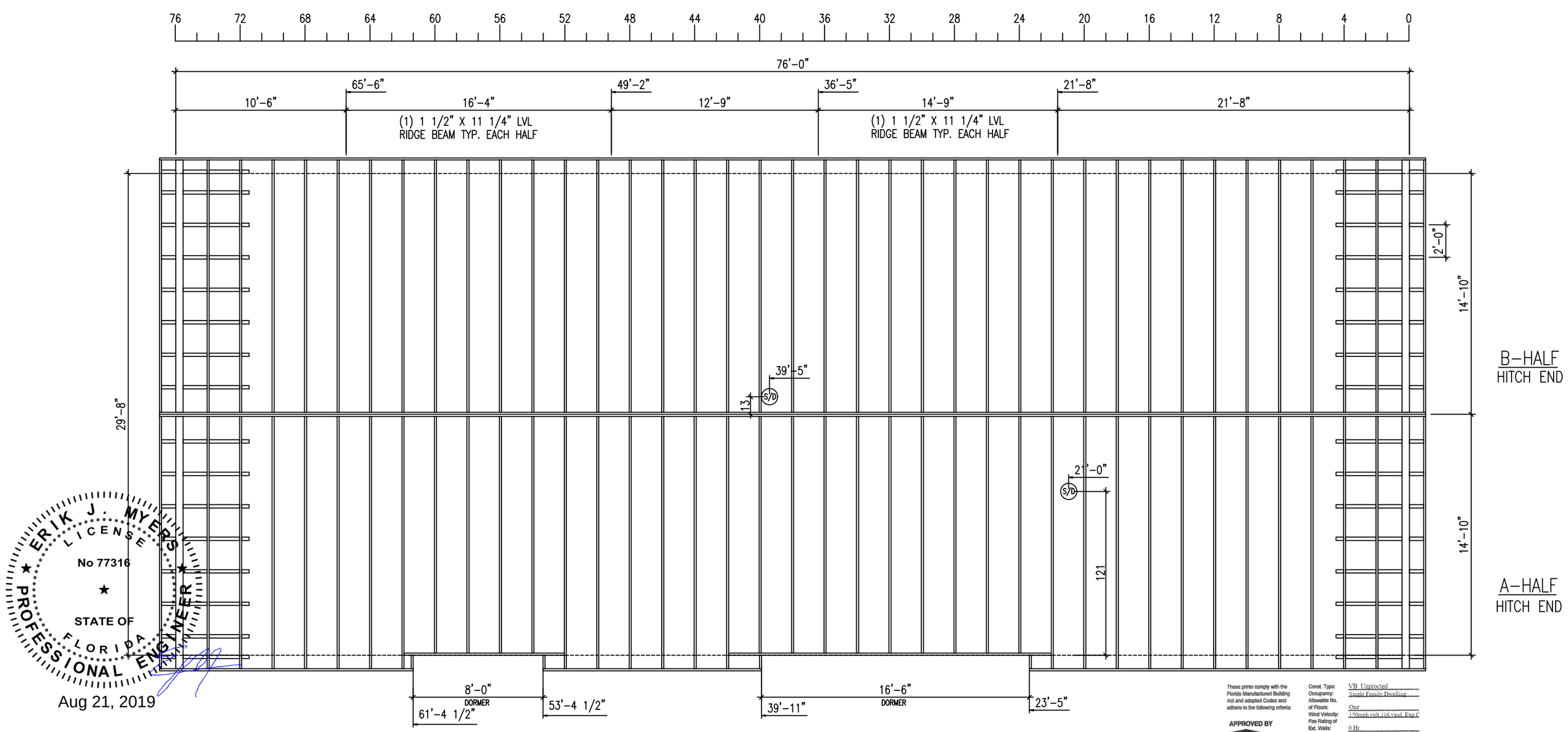
MODEL: MFT2437-ME764-750-108 R1

DRAWN BY: Jerry Benton

DRAWING: DRAIN LINES

SHEET 8A

ERIK MYERS PE, PLLC
2805 28TH STREET
PARKERBURG, WV 26104



B-HALF
HITCH END

A-HALF
HITCH END

ERIK J. MYERS
LICENSE
No 77316
STATE OF FLORIDA
PROFESSIONAL ENGINEER

Aug 21, 2019

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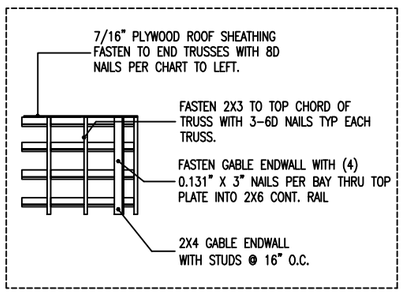

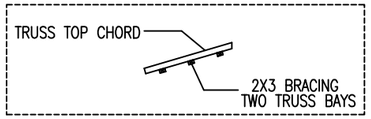

SUCTION FASTENING REQUIREMENTS

FASTEN DECKING WITH (.113") X 2.38" NAILS

	EDGE	FIELD
ZONE 1	6" O.C.	12" O.C.
ZONE 2	6" O.C.	12" O.C.
ZONE 2 OH	6" O.C.	10.4" O.C.
ZONE 3	6" O.C.	8.9" O.C.
ZONE 3 OH	6" O.C.	6.4" O.C.

250 PLF ROOD DECKING

③	②	③
②	①	②
③	②	③
③	②	③
②	①	②
③	②	③

B-HALF
HITCH END

A-HALF
HITCH END

Destiny Industries, LLC

250 RW BRYANT ROAD
MOULTRIE, GA 31778

PHONE: 1-229-985-6200
E-MAIL: destinyhomebuilders.com

DATE:	7/16/2019
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LABELS:	FLORIDA
SCALE:	NTS

3RD PARTY INSPECTION AGENCY
NTA INC
305 NORTH OAKLAND AVE
NAPPANEE, IN 46550
Contact: Dave Barts (574-773-2732)

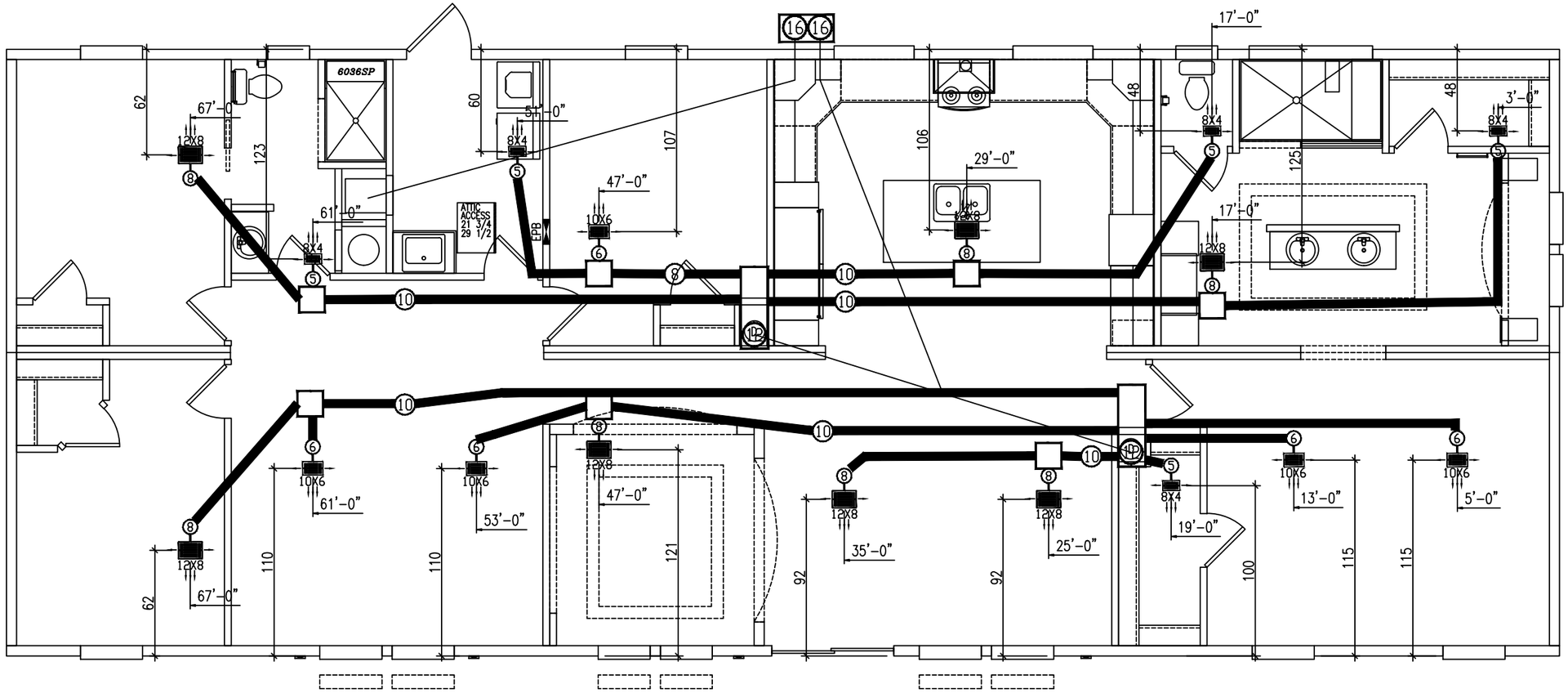
MODEL: MFT2437-ME764-750-108R1

DRAWN BY: Jerry Benton

DRAWING: ROOF LAYOUT

SHEET 9

ERIK MYERS PE, PLLC
2805 28TH STREET
PARKERBURG, WV 26104



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Approval Date:	8/22/2019
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NAPPANEE, IN 46550
Contact: Dave Barts (574-773-2732)

MODEL: MFT2437-ME764-750-108R1

DRAWN BY: Jerry Benton

DRAWING: HVAC LAYOUT

SHEET 10

ERIK MYERS PE, PLLC
2805 28TH STREET
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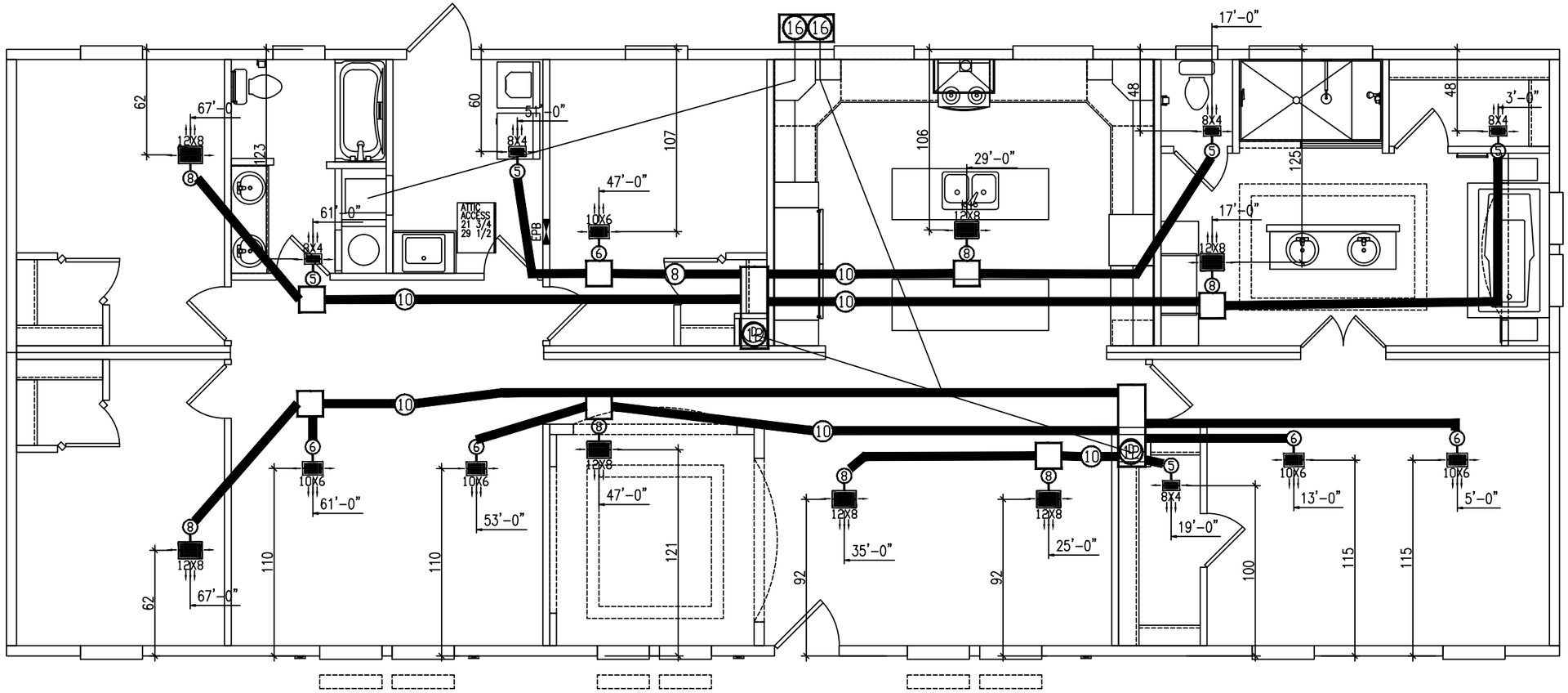

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DRAWN BY: Jerry Benton

DRAWING: HVAC LAYOUT

SHEET 10A

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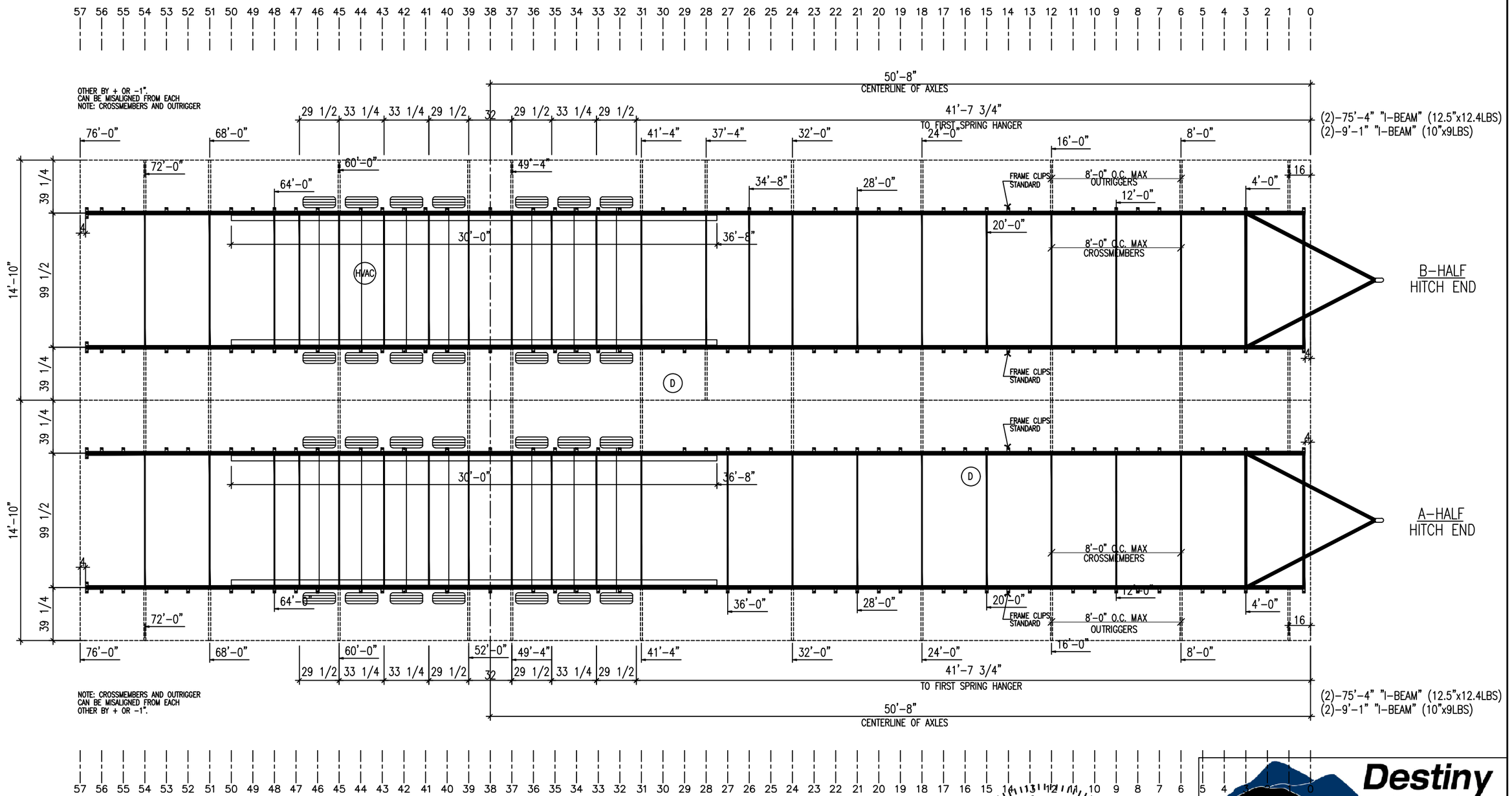

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Aug 21, 2019

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NAPPANEE, IN 46550
Contact: Dave Barts (574-773-2732)

MODEL: MFT2437-ME764-750-108R1

DRAWN BY: Jerry Benton

DRAWING: CHASSIS PLAN

SHEET 11

ERIK MYERS PE, PLLC
2805 28TH STREET
PARKERBURG, WV 26104

RIDGE CAP

TOP C TOP C TENSION

USE (1) SIMPSON LSTA15 STRAP WITH (3) 10D (.148) X 2.5" NAILS EACH END. APPLY TO EVERY TRUSS.

RIDGE TO RIDGE SHEAR

FASTEN WITH (2) 8D (.164) X 4" NAILS EACH BAY EVENLY SPACED.

DETAIL "A"

TOP C TO RIDGE SHEAR

FASTEN WITH (3) 8D (.131) X 3" NAILS FROM RIDGE TO TOP CHORD END GRAIN. APPLY TO EVERY TRUSS.

IF RIDGE BOARDS ARE SEPERATED DUE TO SETTING CONDITIONS. SITE INSTALL FILLER BETWEEN RIDGE BOARDS AND SCREW 3-#8X4" FROM EACH SIDE.

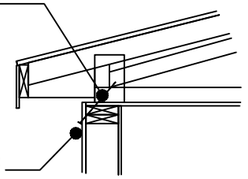
TOP PLATE TO TRUSS UPLIFT

FASTEN (1) SDWC15600 SCREW FROM DBL TOP PLATE INTO THE BOTTOM CHORD OF TRUSS.

EXT. OSB TO PLATES (MIN)

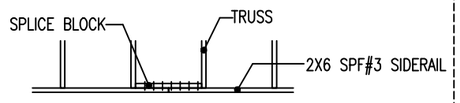
LAP 7/16 OSB OVER BAND. FASTEN WITH (1) 8D (.113) X 2.5" STAPLES 5" O.C. STAGGERED.

OPTIONAL TRUSS FASTENER



TRUSS CONNECTIONS

ROOF EDGE RAIL



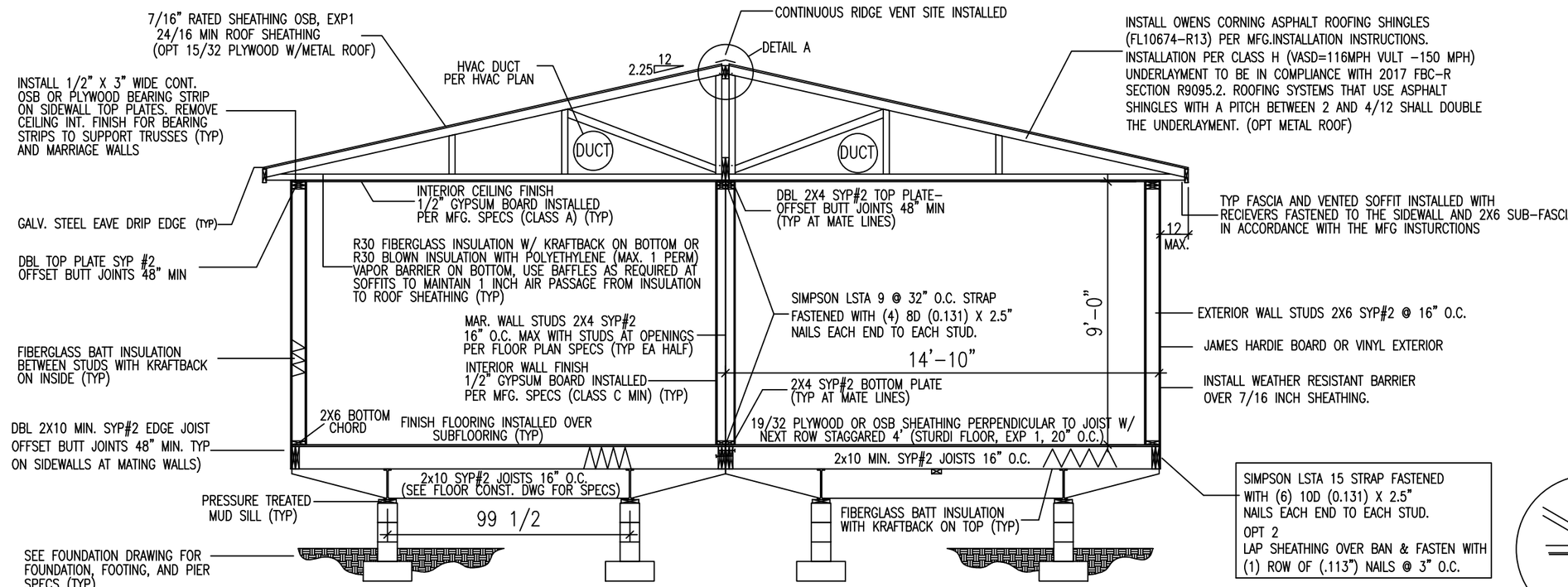
FASTEN SIDERAIL TO SPLICE BLOCK (SAME SPECIES AND GRADE) WITH (13) .131" NAILS EACH SIDE OF SPLICE.

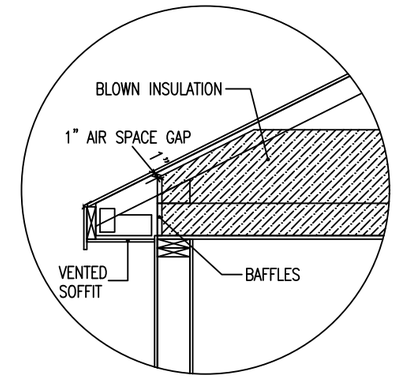
OPTION "B"

5"X5" NAIL PLATE (5000# LOAD MIN.)

ERIK J. MYERS LICENSE No 77316 STATE OF FLORIDA PROFESSIONAL ENGINEER

Aug 21, 2019



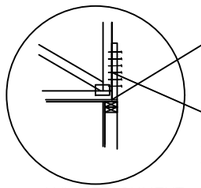


MATE BAND TO TOP-PLATE

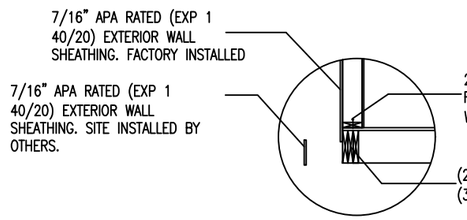
TOE SCREW BAND TO TOP PLATE WITH (1) 10D (.148) X 3.5" NAILS.

MATE BAND TO WALL STRAP

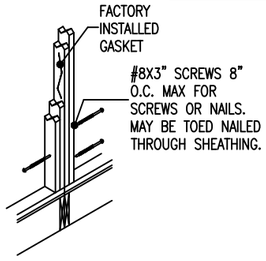
USE (1) LSTA9 STRAP WITH (4) 10D (.148) X 2" NAILS/END. APPLY 24" IN O.C.



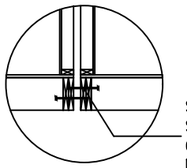
LVL ATTACHMENT



SIDEWALL TO FLOOR

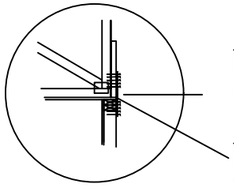


MARRIAGE ENDWALL DETAIL



SITE INSTALL 3/8 DIAMETER LAGS SCREWS STAGGERED FROM SIDE TO SIDE AT 32" O.C. LAG SCREWS MUST PENETRATE 1" MIN. INTO ADJACENT MODULE.

MARRIAGE FLOOR CONNECTION



RIDGE BEAM

BAND TO BAND

FASTEN WITH (1) 1/2" X 4" LAGS FROM BAND TO BAND.

BOTTOM CHORD TO BAND

FASTEN BAND TO BOTTOM CHORD WITH (7) 8D (.131) X 3.25" NAILS. APPLY EVERY TRUSS EVENLY SPACED.

GENERAL NOTES:

EXTERIOR JOINTS IN THE BUILDING ENVELOPE THAT ARE SOURCES OF AIR LEAKAGE, SUCH AS AROUND WINDOWS AND DOOR FRAMES, BETWEEN WALL CAVITIES AND WINDOWS OR DOOR FRAMES, BETWEEN WALLS AND FOUNDATIONS, BETWEEN WALLS AND ROOF/CEILING AND BETWEEN ALL WALL PANELS, OPENINGS AT PENETRATIONS OF UTILITY SERVICES THROUGH WALLS, FLOORS, AND ROOFS, AND ALL OTHER SUCH OPENINGS IN THE BUILDING ENVELOPE SHALL BE CAULKED, GASKETED, WEATHER STRIPPED, OR OTHERWISE SEALED IN AN APPROVED MANNER.

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 Unprocted
Occupancy:	Single Family Dwelling
Allowable No. of Floors:	One
Wind Velocity:	150mph vult 116 vasd, Exp C
Fire Rating of Ext. Walls:	0 Hr
Plan No.:	MFT2437-ME764-750-108A
Allow. Floor Load:	40 PSF
Approval Date:	5/22/2019
Manufacturer:	Destiny Industries, LLC

Destiny Industries, LLC

250 RW BRYANT ROAD
MOULTRIE, GA 31778
PHONE: 1-229-985-6200
E-MAIL: destinyhomebuilders.com

DATE:	7/16/2019
CODES:	2017 FBC
LABELS:	FLORIDA
SCALE:	NTS

3RD PARTY INSPECTION AGENCY
NTA INC
305 NORTH OAKLAND AVE
NAPPANEE, IN 46550
Contact: Dave Barts (574-773-2732)

MODEL: MFT2437-ME764-750-108A
DRAWN BY: Jerry Benton

DRAWING: CROSS SECTION
SHEET 12

ERIK MYERS PE, PLLC
2805 28TH STREET
PARKERBURG, WV 26104

SHEARWALL	PLF	SHEARWALL DESCRIPTION	EDGES	FIELD
①	123	7/16" MIN. OSB SHEATHING FASTENED WITH 0.113" X 2 3/8" NIALS	6" O.C.	12" O.C.
②	84	7/16" MIN. OSB SHEATHING FASTENED WITH 0.113" X 2 3/8" NIALS	6" O.C.	12" O.C.
③	169	7/16" MIN. OSB SHEATHING FASTENED WITH 0.113" X 2 3/8" NIALS	6" O.C.	12" O.C.
④	125	7/16" MIN. OSB SHEATHING FASTENED WITH 0.113" X 2 3/8" NIALS	6" O.C.	12" O.C.

FASTEN SHEATHING OVER TOP PLATES AND FASTEN WITH 0.113" X 2.375" NAILS AT 4" O.C.

○ = TIE SHEARWALLS STUDS/CHORDS TO FLOOR BAND

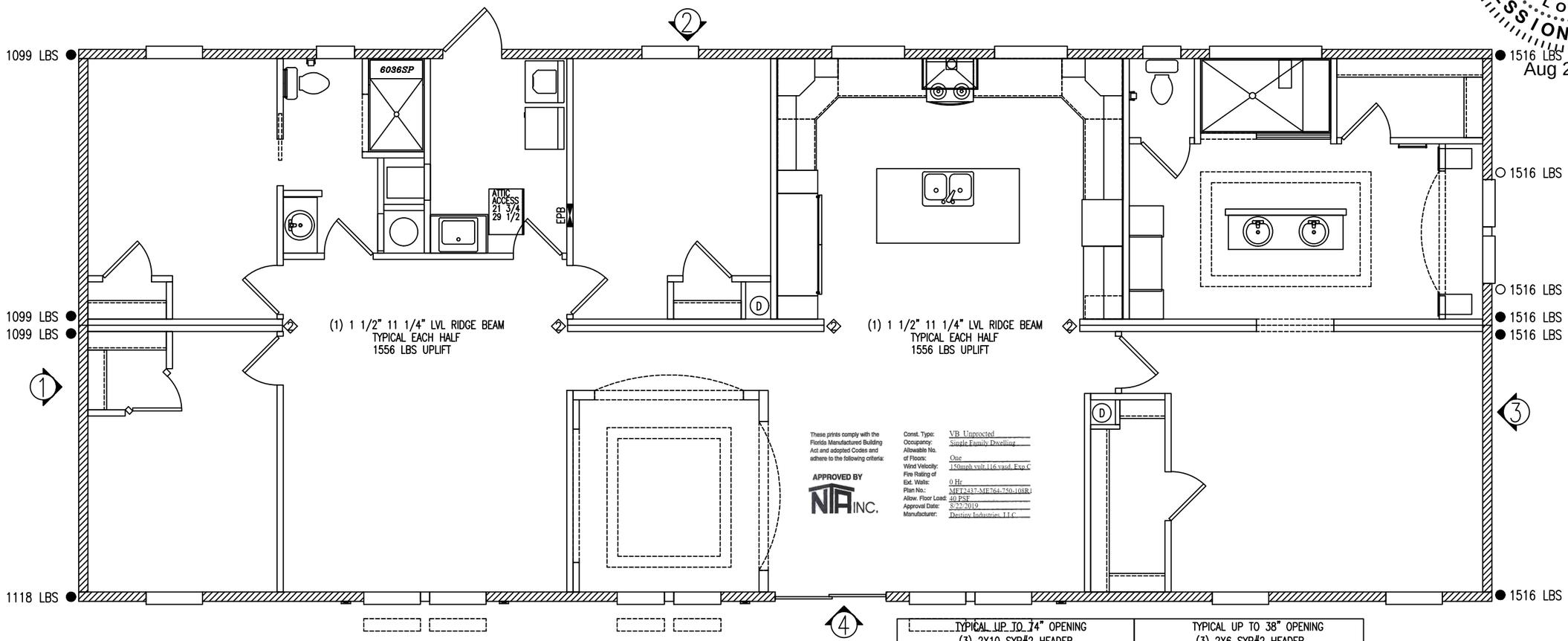
● = TIE SHEARWALLS CHORDS/COLUMNS TO GROUND FOR UPLIFT SHOWN

BLOCK RIM JOIST AT STRAP LOCATIONS FOR ON FRAME OPTION
BLOCKING REQUIRED AT MARRIAGE WALL OPENINGS

SIMPSON LSTA9 = 740 LBS
SIMPSON LSTA12 = 925 LBS
SIMPSON LSTA15 = 1,110 LBS
SIMPSON MSTA12 = 940 LBS
SIMPSON CMST12 = 38" LONG 9,215 LBS
SIMPSON CMST14 = 30" LONG 6,475 LBS

ERIK J. MYERS LICENSE No 77316 STATE OF FLORIDA PROFESSIONAL ENGINEER

Aug 21, 2019



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Plan No.:	MFT2437-ME764-750-108R1
Allow. Floor Load:	40 PSF
Approval Date:	5/22/2019
Manufacturer:	Destiny Industries, LLC

WALL 1

GABLE END PLATE TO TOP PLATE
FASTENING OPTIONS
2 .131" TOE NAIL PER BAY
2 #8 TOE SCREW PER BAY

BOTTOM PLATE TO FLOOR (SHEATHING LAP)
FASTENING OPTIONS
1 .131" TOE NAIL PER BAY

SHEATHING TO TOP PLATE/BAND (STRAP)
FASTENING OPTIONS
6" O.C. .113" NAILS

SHEATHING TO FLOOR BAND (STRAPS)
FASTENING OPTIONS
6" O.C. .113" NAILS

SHEATHING TO FLOOR BAND (WITHOUT STRAPS)
FASTENING OPTIONS
6" O.C. .113" NAILS

WALL 2

TRUSS TO TOP PLATE
FASTENING OPTIONS
3 .131" TOE NAIL PER BAY
3 #8 TOE SCREW PER BAY

BOTTOM PLATE TO FLOOR (SHEATHING LAP)
FASTENING OPTIONS
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FASTENING OPTIONS
6" O.C. .113" NAILS

SHEATHING TO FLOOR BAND (STRAPS)
FASTENING OPTIONS
6" O.C. .113" NAILS

SHEATHING TO FLOOR BAND (WITHOUT STRAPS)
FASTENING OPTIONS
4" O.C. .113" NAILS

WALL 3

GABLE END PLATE TO TOP PLATE
FASTENING OPTIONS
2 .131" TOE NAIL PER BAY
2 #8 TOE SCREW PER BAY

BOTTOM PLATE TO FLOOR (SHEATHING LAP)
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SHEATHING TO TOP PLATE/BAND (STRAP)
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SHEATHING TO FLOOR BAND (STRAPS)
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SHEATHING TO FLOOR BAND (WITHOUT STRAPS)
FASTENING OPTIONS
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WALL 4

GABLE END PLATE TO TOP PLATE
FASTENING OPTIONS
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3 #8 TOE SCREW PER BAY

BOTTOM PLATE TO FLOOR (SHEATHING LAP)
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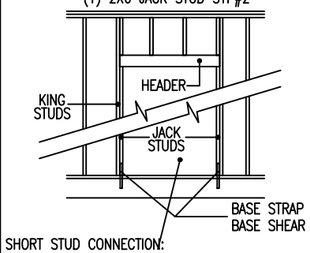
SHEATHING TO FLOOR BAND (STRAPS)
FASTENING OPTIONS
6" O.C. .113" NAILS

SHEATHING TO FLOOR BAND (WITHOUT STRAPS)
FASTENING OPTIONS
3" O.C. .113" NAILS

TYPICAL UP TO 74" OPENING
(3) 2X10 SYP#2 HEADER
(2) 2X6 KING STUD SYP#2
(1) 2X6 JACK STUD SYP#2



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HEADER CONNECTION:
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BASE STRIP:
(1) LSTA15 STRAP FROM KING/JACK COLUMNS TO BAND.

BASE SHEAR:
(12) 8D (0.131") X 3" NAILS FROM BASE TO KING/JACK COLUMNS.

TYPICAL UP TO 38" OPENING
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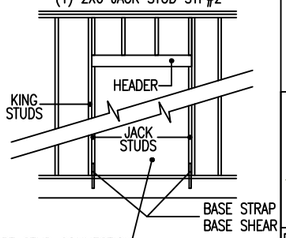
(1) 2X6 KING STUD SYP#2
(1) 2X6 JACK STUD SYP#2



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Destiny Industries, LLC

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MOULTRIE, GA 31778
PHONE: 1-229-985-6200
E-MAIL: destinyhomebuilders.com

DATE:	7/16/2019
CODES:	2017 FBC
LABELS:	FLORIDA
SCALE:	NTS

3RD PARTY INSPECTION AGENCY
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305 NORTH OAKLAND AVE
NAPPANEE, IN 46550
Contact: Dave Barts (574-773-2732)

MODEL: MFT2437-ME764-750-108R1

DRAWN BY: Jerry Benton

DRAWING: SHEARWALLS

SHEET 13

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SIMPSON MSTA12 = 940 LBS
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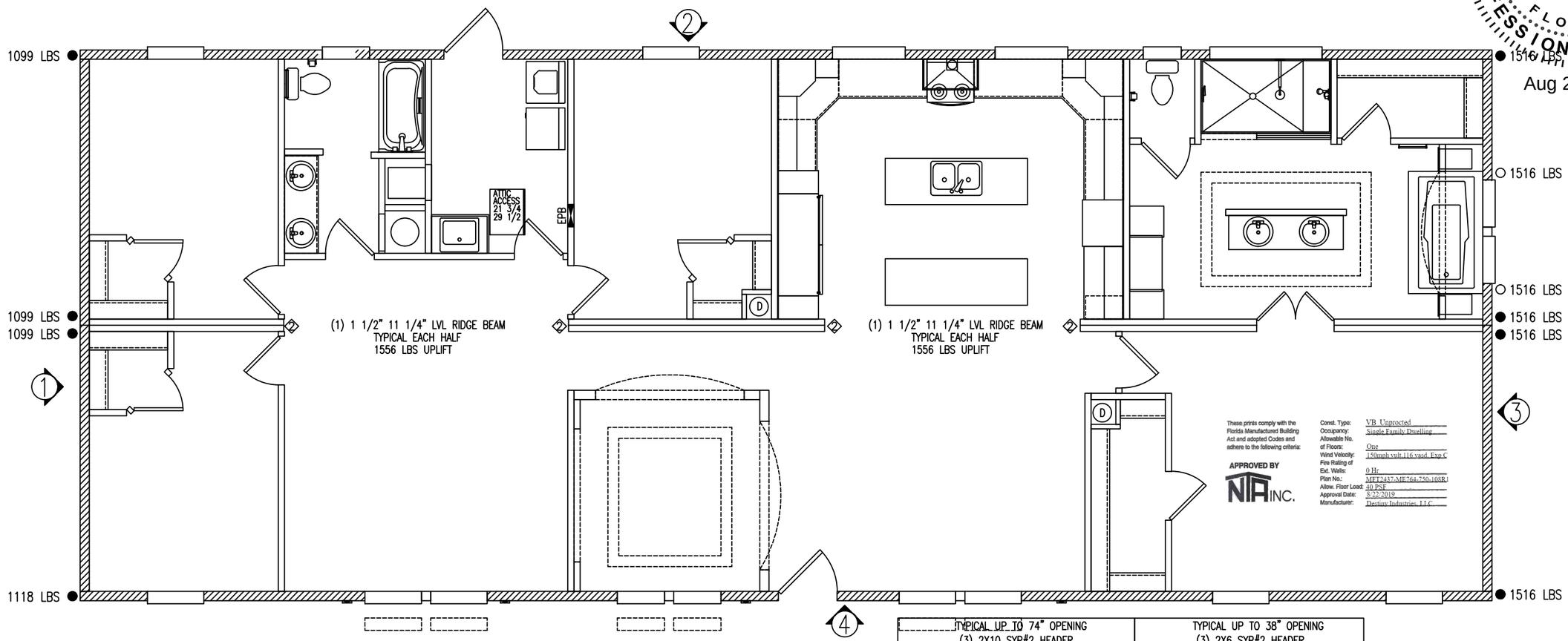
Aug 21, 2019



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Allow. Floor Load:	30 PSF
Approval Date:	8/22/2019
Manufacturer:	Destiny Industries, LLC

WALL 1

GABLE END PLATE TO TOP PLATE
FASTENING OPTIONS
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2 #8 TOE SCREW PER BAY

BOTTOM PLATE TO FLOOR (SHEATHING LAP)
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FASTENING OPTIONS
6" O.C. .113" NAILS

SHEATHING TO FLOOR BAND (WITHOUT STRAPS)
FASTENING OPTIONS
4" O.C. .113" NAILS

WALL 3

GABLE END PLATE TO TOP PLATE
FASTENING OPTIONS
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2 #8 TOE SCREW PER BAY

BOTTOM PLATE TO FLOOR (SHEATHING LAP)
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WALL 4

GABLE END PLATE TO TOP PLATE
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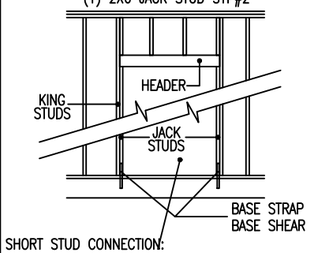

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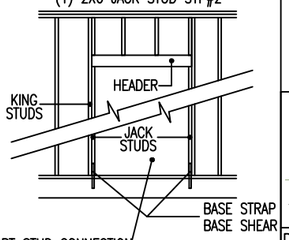

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DRAWING: SHEARWALLS

SHEET 13A

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REScheck Software Version 4.6.5

Compliance Certificate

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Const. Type:	VB Unprotected
Occupancy:	Single Family Dwelling
Allowable No. of Floors:	One
Wind Velocity:	150 mph vult 116 vasd Exp C
Fire Rating of Ext. Walls:	0 hr
Plan No.:	MFT2437-ME764-750-108
Allow. Floor Load:	40 PSF
Approval Date:	7/29/2019
Manufacturer:	Destiny industries, LLC

Project

Energy Code:	**2017 Florida Building Code, Energy Conservation**
Location:	**Tampa, Florida**
Construction Type:	**Single-family**
Project Type:	**New Construction**
Conditioned Floor Area:	**2,254 ft2**
Glazing Area	**18%**
Climate Zone:	**2 (725 HDD)**
Permit Date:	
Permit Number:	

Construction Site: Owner/Agent: Designer/Contractor:

Compliance: Envelope passes UA trade-off. Additional mandatory requirements apply. Complete the REScheck inspection

Compliance: **24.2% Better Than Code** Maximum UA: **582** Your UA: **441** Maximum SHGC: **0.25** Your SHGC: **0.23**

The % Better or Worse Than Code Index reflects how close to compliance the house is based on code trade-off rules.
It DOES NOT provide an estimate of energy use or cost relative to a minimum-code home.

Envelope Assemblies

Assembly	Gross Area or Perimeter	Cavity R-Value	Cont. R-Value	U-Factor	UA
Ceiling 1: Flat Ceiling or Scissor Truss	2,254	30.0	0.0	0.035	79
Wall 1: Wood Frame, 16" o.c.	270	13.0	0.0	0.082	22
Wall 2: Wood Frame, 16" o.c.	684	13.0	0.0	0.082	49
Window 1: Vinyl/Fiberglass Frame:Double Pane with Low-E SHGC: 0.23	68			0.350	24
Door 1: Solid	20			0.350	7
Wall 3: Wood Frame, 16" o.c.	270	13.0	0.0	0.082	21
Window 3: Vinyl/Fiberglass Frame:Double Pane with Low-E SHGC: 0.23	20			0.350	7
Wall 4: Wood Frame, 16" o.c.	684	13.0	0.0	0.082	35
Window 2: Vinyl/Fiberglass Frame:Double Pane with Low-E SHGC: 0.23	120			0.350	42
Door 2: Glass SHGC: 0.23	141			0.350	49
Floor 1: All-Wood Joist/Truss:Over Unconditioned Space	2,254	19.0	0.0	0.047	106

7/22/19

Compliance Statement: The proposed building design described here is consistent with the building plans, specifications, and other calculations submitted with the permit application. The proposed building has been designed to meet the 2017 Florida Building Code, Energy Conservation requirements in RES*check* Version 4.6.5 and to comply with the mandatory requirements listed in the RES*check* Inspection Checklist.

Name - Title	Signature	Date

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Manufacturer:	Destiny industries, LLC

RES*check* Software Version 4.6.5

Inspection Checklist

Energy Code: 2017 Florida Building Code, Energy Conservation

Requirements: 0.0% were addressed directly in the RES*check* software

Text in the "Comments/Assumptions" column is provided by the user in the REScheck Requirements screen. For each requirement, the user certifies that a code requirement will be met and how that is documented, or that an exception is being claimed. Where compliance is itemized in a separate table, a reference to that table is provided.

Section # & Req.ID	Pre-Inspection/Plan Review	Plans Verified Value	Field Verified Value	Complies?	Comments/Assumptions
103.1, 103.2 [PR1][1]	Construction drawings and documentation demonstrate energy code compliance for the building envelope. Thermal envelope represented on construction documents.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
103.1, 103.2, 403.7, 403.8 [PR3][1]	Construction drawings and documentation demonstrate energy code compliance for lighting and mechanical systems. Systems serving multiple dwelling units must demonstrate compliance with the IECC Commercial Provisions.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
302.1, 403.7 [PR2][2]	Heating and cooling equipment is sized per ACCA Manual S based on loads calculated per ACCA Manual J or other methods approved by the code official.	Heating: Btu/hr____ Cooling: Btu/hr____	Heating: Btu/hr____ Cooling: Btu/hr____	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
302.1, 403.7 [PR2][2]	Heating and cooling equipment is sized per ACCA Manual S based on loads calculated per ACCA Manual J or other methods approved by the code official. Refer to R403.7.1 for full details.	Heating: Btu/hr____ Cooling: Btu/hr____	Heating: Btu/hr____ Cooling: Btu/hr____	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	

Additional Comments/Assumptions:

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1	High Impact (Tier 1)	2	Medium Impact (Tier 2)	3	Low Impact (Tier 3)

Section # & Req.ID	Foundation Inspection	Complies?	Comments/Assumptions
303.2.1.3 [FO11][2]	A protective covering is installed to protect exposed exterior insulation and extends a minimum of 6 in. below grade.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
403.9 [FO12][2]	Snow- and ice-melting system controls installed.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	

Additional Comments/Assumptions:

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 Unprotected
Occupancy:	Single Family Dwelling
Allowable No. of Floors:	One
Wind Velocity:	150 mph vult 116 vasd Exp C
Fire Rating of Ext. Walls:	0 hr
Plan No.:	MET2437-ME764-750-108
Allow. Floor Load:	40 PSF
Approval Date:	7/29/2019
Manufacturer:	Destiny industries, LLC

1	High Impact (Tier 1)	2	Medium Impact (Tier 2)	3	Low Impact (Tier 3)

Section # & Req.ID	Framing / Rough-In Inspection	Plans Verified Value	Field Verified Value	Complies?	Comments/Assumptions
303.1.3 [FR4][1]	U-factors of fenestration products are determined in accordance with the NFRC test procedure or taken from the default table.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
402.1.1, 402.3.1, 402.3.3, 503.1.1.1 [FR2][1]	Glazing U-factor (area-weighted average).	U-____	U-____	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	*See the Envelope Assemblies table for values.*
402.1.1, 402.3.2, 402.3.3 [FR3][1]	Glazing SHGC value (area-weighted average).	SHGC:____	SHGC:____	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	*See the Envelope Assemblies table for values.*
402.1.1, 402.3.4 [FR1][1]	Door U-factor.	U-____	U-____	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	*See the Envelope Assemblies table for values.*
402.4.1.1 [FR23][1]	Air barrier and thermal barrier installed per manufacturer's instructions.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
402.4.3 [FR20][1]	Fenestration that is not site built is listed and labeled as meeting AAMA /WDMA/CSA 101/I.S.2/A440 or has infiltration rates per NFRC 400 that do not exceed code limits.	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 Unprotected; Occupancy: Single Family Dwelling; Allowable No. of Floors: One; Wind Velocity: 150 mph vult 116 vasd Exp C; Fire Rating of Ext. Walls: 0 hr; Plan No.: MET2437-ME764-750-108; Allow. Floor Load: 40 PSF; Approval Date: 7/29/2019; Manufacturer: Destiny industries, LLC		☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
402.4.5 [FR16][2]	IC-rated recessed lighting fixtures sealed at housing/interior finish and labeled to indicate ≤2.0 cfm leakage at 75 Pa.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
403.3.1 [FR12][1]	Supply and return ducts in attics insulated >= R-8 where duct is >= 3 inches in diameter and >= R-6 where < 3 inches. Supply and return ducts in other portions of the building insulated >= R-6 for diameter >= 3 inches and R-4.2 for < 3 inches in diameter.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
403.3.5 [FR15][3]	Building cavities are not used as ducts or plenums.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
403.4 [FR17][2]	HVAC piping conveying fluids above 105 ºF or chilled fluids below 55 ºF are insulated to ≥R-3.	R-____	R-____	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
403.4.1 [FR24][1]	Protection of insulation on HVAC piping.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
403.5.3 [FR18][2]	Hot water pipes are insulated to ≥R-3.	R-____	R-____	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	

1	High Impact (Tier 1)	2	Medium Impact (Tier 2)	3	Low Impact (Tier 3)

Section # & Req.ID	Framing / Rough-In Inspection	Plans Verified Value	Field Verified Value	Complies?	Comments/Assumptions
403.5.5 [FR26]²	Storage water heaters not equipped with integral heat traps and having vertical pipe risers have heat traps installed on both the inlets and outlets. External heat traps installed per code guildlines.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
403.5.6.1.1 [FR27]²	Service water heating systems are equipped with automatic temperature controls.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
403.5.6.1.2 [FR28]²	A separate switch permits the power supplied to electric service water systems to be turned off. A separate valve permits the energy supplied to the main burner(s) of combustion types of service water heating systems to be turned off.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
403.5.6.2 [FR29]²	Water heating equipment meets minimum efficiencies of Table C404.2 in Chapter 4 of the Florida Building Code, Energy Conservation, Commercial Provisions. Equipment used to provide heating functions as part of a combination system satisfies all stated requirements for the appropriate water heating category.	Table 404.2 (required Ef):____	Table 404.2 (required Ef):____	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
403.5.6.2.1 [FR30]²	Solar systems for domestic hot water production satisfy energy factor requirements determined from the Florida Solar Energy Center Directory of Certified Solar Systems.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
403.6 [FR19]²	Automatic or gravity dampers are installed on all outdoor air intakes and exhausts.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
403.6.2 [FR31]²	Buildings designed to operate at positive indoor pressure or have mechanical ventilation meet the following criteria: 1) Maximum air-change-hour equal minimums from ASHRAE 62, Ventilation for Acceptable Indoor Air Quality, 2) No ventilation or air-conditioning system make-up air provided from attics, crawlspaces, attached enclosed garages or outdoor spaces adjacent to swimming pools or spas, and 3) Air drawn from enclosed space(s) have walls insulated >= R-11 and ceiling >= R-19, space permitting, or R-10 otherwise.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	

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APPROVED BY NTA INC.

Const. Type:	VB Unprotected
Occupancy:	Single Family Dwelling
Allowable No. of Floors:	One
Wind Velocity:	150 mph vult 116 vasd Exp C
Fire Rating of Ext. Walls:	0 hr
Plan No.:	MFT2437-ME764-750-108
Allow. Floor Load:	40 PSF
Approval Date:	7/29/2019
Manufacturer:	Destiny industries, LLC

Additional Comments/Assumptions:

1	High Impact (Tier 1)	2	Medium Impact (Tier 2)	3	Low Impact (Tier 3)

Section # & Req.ID	Insulation Inspection	Plans Verified Value	Field Verified Value	Complies?	Comments/Assumptions
303.1 [IN13][2]	All installed insulation is labeled or the installed R-values provided.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
303.2 [IN4][1]	Wall insulation is installed per manufacturer's instructions.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
303.2, 402.2.7 [IN2][1]	Floor insulation installed per manufacturer's instructions and in substantial contact with the underside of the subfloor, or floor framing cavity insulation is in contact with the top side of sheathing, or continuous insulation is installed on the underside of floor framing and extends from the bottom to the top of all perimeter floor framing members.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
402.1.1, 402.2.5, 402.2.6 [IN3][1]	Wall insulation R-value. If this is a mass wall with at least ½ of the wall insulation on the wall exterior, the exterior insulation requirement applies (FR10).	R-____ ☐ Wood ☐ Mass ☐ Steel	R-____ ☐ Wood ☐ Mass ☐ Steel	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	*See the Envelope Assemblies table for values.*
402.1.1, 402.2.6 [IN1][1]	Floor insulation R-value.	R-____ ☐ Wood ☐ Steel	R-____ ☐ Wood ☐ Steel	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	*See the Envelope Assemblies table for values.*
402.2.14 [IN14][2]	Walls, ceilings or floors common to separate conditioned tenancies are insulated to >= R-11, space permitting. Mass common walls are insulated to >= R-6.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	

Additional Comments/Assumptions:

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Const. Type:	VB Unprotected
Occupancy:	Single Family Dwelling
Allowable No. of Floors:	One
Wind Velocity:	150 mph vult 116 vasd Exp C
Fire Rating of Ext. Walls:	0 hr
Plan No.:	MET2437-ME764-750-108
Allow. Floor Load:	40 PSF
Approval Date:	7/29/2019
Manufacturer:	Destiny industries, LLC

1	High Impact (Tier 1)	2	Medium Impact (Tier 2)	3	Low Impact (Tier 3)

Section # & Req.ID	Final Inspection Provisions	Plans Verified Value	Field Verified Value	Complies?	Comments/Assumptions
303.1.1.2.1, 303.2 [FI2][1]	Ceiling insulation installed per manufacturer's instructions. Blown insulation marked every 300 ft².			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
303.3 [FI18][3]	Manufacturer manuals for mechanical and water heating systems have been provided.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
401.3 [FI33][2]	An energy performance level (EPL) display card must be completed and certified by the builder before final approval of the building for occupancy. Florida law (Section 553.9085, Florida Statutes) requires the EPL display card to be included as an addendum to each sales contract for both presold and nonpresold residential buildings. A copy of the EPL card form can be found in Appendix C of the "FBC, Energy Conservation".			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable 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 Unprotected Occupancy: Single Family Dwelling Allowable No. of Floors: One Wind Velocity: 150 mph vult 116 vasd Exp C Fire Rating of Ext. Walls: 0 hr Plan No.: MET2437-ME764-750-108 Allow. Floor Load: 40 PSF Approval Date: 7/29/2019 Manufacturer: Destiny industries, LLC
402.1.1, 402.2.1, 402.2.2, 402.2.6 [FI1][1]	Ceiling insulation R-value.	R-____ ☐ Wood ☐ Steel	R-____ ☐ Wood ☐ Steel	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	*See the Envelope Assemblies table for values.*
402.2.3 [FI22][2]	Vented attics with air permeable insulation include baffle adjacent to soffit and eave vents that extends over insulation.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
402.2.4 [FI3][1]	Attic access hatch and door insulation ≥R-value of the adjacent assembly.	R-____	R-____	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
402.4.1.2 [FI17][1]	Blower door test @ 50 Pa. <=7 ach.	ACH 50 =____	ACH 50 =____	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
403.1.1 [FI9][2]	Each separate heating/cooling system has a thermostat			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
403.1.2 [FI9][2]	Programmable thermostats installed for control of primary heating and cooling systems and initially set by manufacturer to code specifications.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
403.1.3 [FI10][2]	Heat pump thermostat installed on heat pumps.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
403.2 [FI26][2]	Hot water boilers supplying heat through one- or two-pipe heating systems have outdoor setback control to lower boiler water temperature based on outdoor temperature.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	

1	High Impact (Tier 1)	2	Medium Impact (Tier 2)	3	Low Impact (Tier 3)

Section # & Req.ID	Final Inspection Provisions	Plans Verified Value	Field Verified Value	Complies?	Comments/Assumptions
403.3.2, 403.3.2.1 [FI24][1]	All ducts, air handlers, and filter boxes shall be constructed and sealed in accordance with Section C403.2.9.2 of the Commercial Provisions of this code. Air handler leakage designated by manufacturer at <=2% of design air flow.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
403.3.3 [FI27][1]	Ducts are pressure tested to determine air leakage with either: Rough-in test: Total leakage measured with a pressure differential of 0.1 inch w.g. across the system including the manufacturer's air handler enclosure if installed at time of test. Postconstruction test: Total leakage measured with a pressure differential of 0.1 inch w.g. across the entire system including the manufacturer's air handler enclosure.	____ cfm/100 ft^2	____ cfm/100 ft^2	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
403.3.4, 403.3.2 [FI4][1]	Duct tightness test result of <=4 cfm/100 ft2 across the system or <=3 cfm/100 ft2 without air handler @ 25 Pa. For rough-in tests, verification may need to occur during Framing Inspection. Duct tightness verified by testing in accordance with ANSI/RESNET/ICC 380-2016 by either individuals as defined in Section 553.993(5) or (7), Florida Statutes, or individuals licensed as set forth in Section 489.105(3)(f), (g), or (i), Florida Statutes, to be "substantially leak free" in accordance with Section R403.3.3.	____ cfm/100 ft^2	____ cfm/100 ft^2	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable 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 Unprotected Occupancy: Single Family Dwelling Allowable No. of Floors: One Wind Velocity: 150 mph vult 116 vasd Exp C Fire Rating of Ext. Walls: 0 hr Plan No.: MFT2437-ME764-750-108 Allow. Floor Load: 40 PSF Approval Date: 7/29/2019 Manufacturer: Destiny industries LLC
403.3.6 [FI33][2]	Air handling units are not installed in attic.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
403.5.1 [FI11][2]	Circulating service hot water systems have automatic or accessible manual controls.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
403.5.1.1 [FI28][2]	Heated water circulation systems have a circulation pump. The system return pipe is a dedicated return pipe or a cold water supply pipe. Gravity and thermos-syphon circulation systems are not present. Controls for circulating hot water system pumps start the pump with signal for hot water demand within the occupancy. Controls automatically turn off the pump when water is in circulation loop is at set-point temperature and no demand for hot water exists.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	

1	High Impact (Tier 1)	2	Medium Impact (Tier 2)	3	Low Impact (Tier 3)

Section # & Req.ID	Final Inspection Provisions	Plans Verified Value	Field Verified Value	Complies?	Comments/Assumptions
403.5.1.2 [FI29][2]	Electric heat trace systems comply with IEEE 515.1 or UL 515. Controls automatically adjust the energy input to the heat tracing to maintain the desired water temperature in the piping.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
403.5.2 [FI30][2]	Water distribution systems that have recirculation pumps that pump water from a heated water supply pipe back to the heated water source through a cold water supply pipe have a demand recirculation water system. Pumps have controls that manage operation of the pump and limit the temperature of the water entering the cold water piping to 104ºF.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
403.5.4 [FI31][2]	Drain water heat recovery units tested in accordance with CSA B55.1. Potable water-side pressure loss of drain water heat recovery units < 3 psi for individual units connected to one or two showers. Potable water-side pressure loss of drain water heat recovery units < 2 psi for individual units connected to three or more showers.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
403.6.1 [FI25][2]	All mechanical ventilation system fans not part of tested and listed HVAC equipment meet efficacy and air flow limits.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
404.1 [FI6][1]	75% of lamps in permanent fixtures or 75% of permanent fixtures have high efficacy lamps. Does not apply to low-voltage lighting.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
404.1.1 [FI23][3]	Fuel gas lighting systems have no continuous pilot light.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	

Additional Comments/Assumptions:

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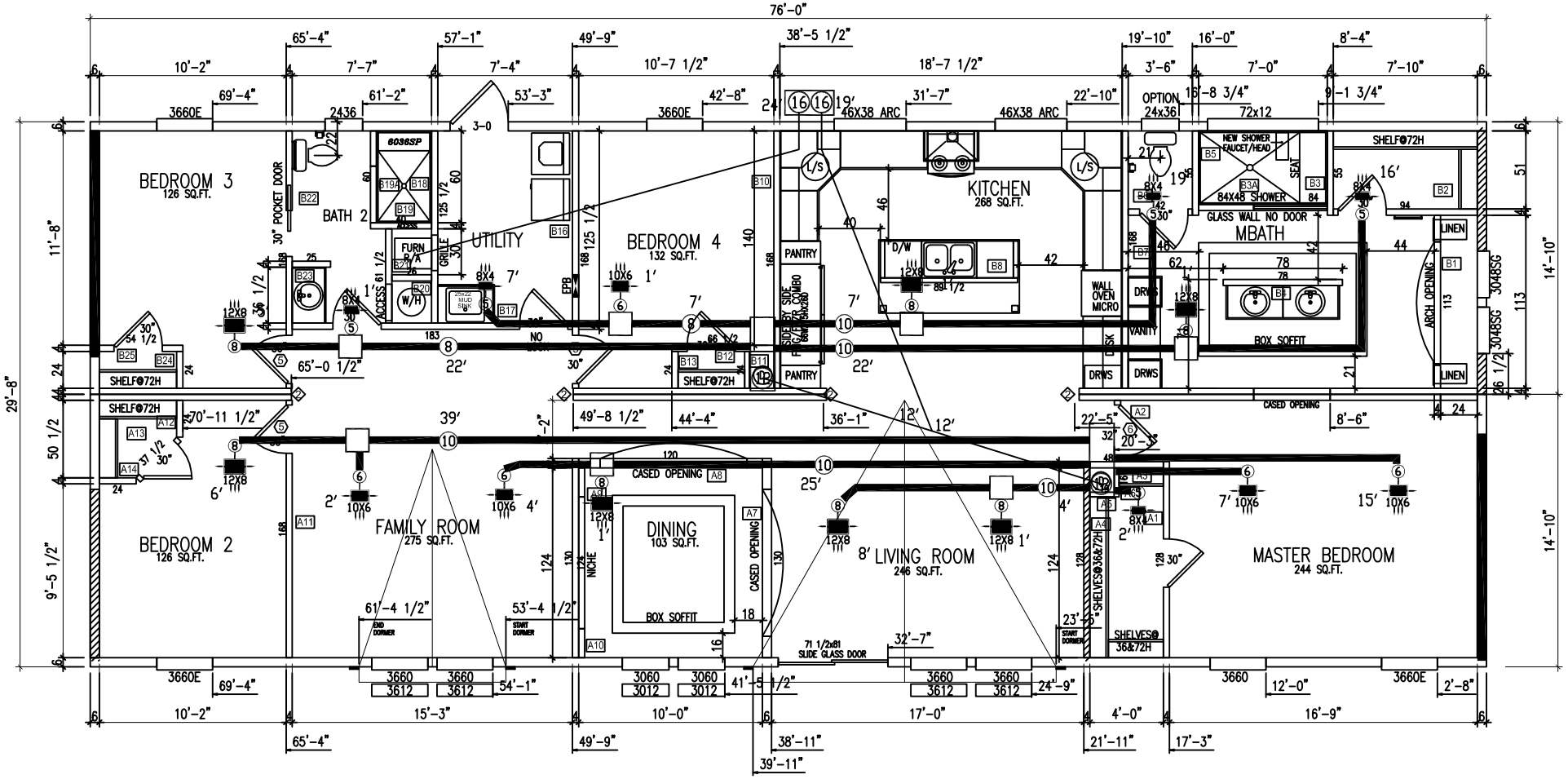
Fire Rating of Ext. Walls:	0 hr
Plan No.:	MFT2437-ME764-750-108
Allow. Floor Load:	40 PSF
Approval Date:	7/29/2019
Manufacturer:	Destiny industries, LLC

1	High Impact (Tier 1)	2	Medium Impact (Tier 2)	3	Low Impact (Tier 3)



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Allow. Floor Load:	40 PSF
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THE AMS GROUP ELKHART, IN.

CUSTOMER: DESTINY

DESCRIPTION: OMIT

MODEL: ME764-750-108

DRAWN: DANNY

CAD FILENAME: DS\DESTINY\

SCALE:

DATE: 7/19/19

Destiny Industries, LLC

ME764-750-108

Erik Myers PE, PLLC
45 Woodyards Cave Rd
Parkersburg, WV
26104
7/17/2019
FL PE Lic. No. 77316

Site Address: tbd

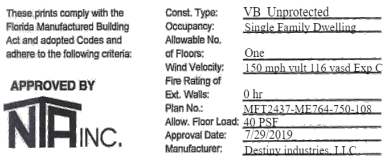
Building Codes: 6th Ed. Florida Residential Code

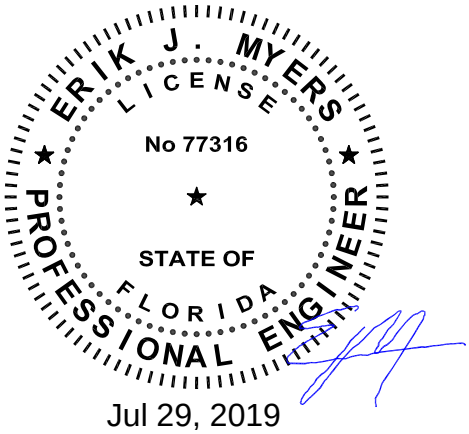
Resources Used: Microsoft Excel for computations; Woodworks Sizer 10.4 for selected beam designs

Building Design Criteria	ASCE 7-10
Wind Load Design:	150 mph Vult
Wind Exposure:	C
1st Floor Live Load:	40 PSF
1st Floor Dead Load:	10 PSF
Roof Live Load:	20 PSF
Roof Dead Load:	14 PSF
Mean Roof Height:	20 FT

Components and Cladding		
Zone 1	18 PSF	-28.6 PSF
Zone 2	18 PSF	-49.8 PSF
Zone 2 OH		-63 PSF
Zone 3	18 PSF	-73.5 PSF
Zone 3 OH		-102.6 PSF
Zone 4	31.2 PSF	-33.9 PSF
Zone 5	31.2 PSF	-41.8 PSF

Calculation Index:





Jul 29, 2019

Design Criteria ASCE 7-10

Total Width =	29.67	ft	Stories =	1	
Module Width =	14.833	ft	Wall Height =	9	ft
Length =	76	ft	Sidewall Eave Height =	10	ft
Roof Slope =	2	/12	Foundation Height =	3.5	ft
Roof Angle =	9.46	º	Roof Projection =	3.00	ft
Sidewall OH =	12	in	Mean Roof Height =	15.00	ft
Endwall OH =	12	in	Min. Mean Roof Height =	20	ft

Wind Loads

Wind Speed =	150	mph
Exposure =	C	
Wind Pressure qh =	26.4	psf

Design Loads

Floor Live =	40	psf
Floor Dead =	10	psf
Wall Dead =	45	plf
Roof Dead =	14	psf

Roof Loads

Roof Live =	20	psf
Min. Roof Live =	20	psf
Ground Snow =	0	psf
Flat Roof Snow =	0.0	psf
Sloped Roof Snow =	0.0	psf
Max Unbalanced =	0.0	psf

Components and Cladding

	-	+	
Zone 1	-28.6	18.0	psf
Zone 2	-49.7	18.0	psf
Zone 2 OH	-62.9		
Zone 3	-73.5	18.0	psf
Zone 3 OH	-102.6		
Zone 4	-33.8	31.2	psf
Zone 5	-41.8	31.2	psf

Main Wind Force Resisting System

		Trans	Long	
EZ	Wall	30.6	27.5	psf
	Roof	-13.0	-13.0	psf
IZ	Wall	20.4	18.2	psf
	Roof	-7.6	-7.6	psf

Soffit Loading for Overhang

Positive =	32.8	psf
Negative =	-39.7	psf

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Allow. Floor Load:	40 PSF
Approval Date:	7/29/2019
Manufacturer:	Destiny industries, LLC

Design Criteria

Wind Speed:	150	mph
Wind Exposure:	C	
Mean Roof Height:	20.00	ft
Roof Live Load:	20	psf
Roof Dead Load:	14	psf
Wall Dead Load:	45	plf
Floor Live Load:	40	psf
Floor Dead Load:	10	psf
Attic Live Load:	20	psf

Building Dimensions

Length:	76	ft
Width:	29.67	ft
Module Width:	14.83	ft
Wall Height:	9	ft
Roof Pitch:	2	/12
Truss Spacing:	24	in
Heel Height:	4.75	in
Slope Factor:	1.014	

Truss Reactions

Calculated Kh Reduction = No

	Sidewall		Matewall		Horizontal		
Uplift	-462	lbs	-447	lbs	F =	221	lbs
Gravity	555	lbs	495	lbs			

Vertical Load Cases

Roof Level

D	115	plf	103	plf
L	0	plf	0	plf
S/Lr	162	plf	145	plf
W	-462	plf	-441	plf
.75(L+S/Lr)	122	plf	109	plf
D+L	115	plf	103	plf
D+S/Lr	278	plf	248	plf
D+.75(L+S/Lr)	237	plf	211	plf
.6D+.6W	-208	plf	-203	plf

Floor Level

D	234	plf	222	plf
L	297	plf	297	plf
S/Lr	162	plf	145	plf
W	-462	plf	-441	plf
.75(L+S/Lr)	344	plf	331	plf
D+L	531	plf	519	plf
D+S/Lr	397	plf	367	plf
D+.75(L+S/Lr)	579	plf	553	plf
.6D+.6W	-136	plf	-131	plf

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Allow. Floor Load:	40 PSF
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Manufacturer:	Destiny industries, LLC

Wind Design ASCE 7-10

Wind Speed:	150	mph
Wind Exposure:	C	
Mean Roof Height:	20.00	ft
Length:	76	ft
Width:	29.67	ft
Module Width:	14.833	ft
Wall Height:	9	ft
Roof Pitch:	2	/12
Truss Spacing:	24	in
Roof Projection:	3.00	ft

MWFRS Horizontal Loads

		Trans	Long	
EZ	Wall	30.6	27.5	psf
	Roof	-13.0	-13.0	psf
IZ	Wall	20.4	18.2	psf
	Roof	-7.6	-7.6	psf

EZ 2a = 6 ft

Wall Sheathing Suction W = 109 lbs

Stud Spacing = 16 in

			Edge	Field	
Zone 4	-33.8	psf	6	12	in o.c.
Zone 5	-41.8	psf	6	12	in o.c.

Wind Load at Roof Level

Perpendicular to Ridge:	3621	lbs
Parallel to Ridge:	1790	lbs

Wind Load at Floor Level

Perpendicular to Ridge:	8047	lbs
Parallel to Ridge:	3431	lbs

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Shearwall Connections

Wall	**1**	Wood Species =	SP		Sg =	0.55	
Wall H =	9 ft	Grade =	#2		Size =	2x6	
Force =	3621 lbs	Stud Spacing =	16	in o.c.	Fc⊥ =	565	psi
Wall L =	29.67 ft	**Segmented**			*Fc⊥ Controls*		
FHS =	29.67 ft				Allowable Load =	4662	lbs
Vu =	122 plf				**Qty =**	**1**	**stud**
OT =	1098 lbs						

Sheathing / Fastening **7/16" OSB** **One Side** **with** **0.113** **" nails**

Edge Spacing =	6	in. o.c.	Fastener Length	
Field Spacing =	12	in. o.c.	L =	2.375 in
Allowable Shear =	**275**	**plf >>> PASS**		

Gable End Plate to Top Plate

Stud Spacing =	16	in. o.c.
Out-of-Plane F =	122	lbs / bay
In-Plane Shear F =	163	lbs / bay
F_R =	163	lbs / bay

Fastening Options

2	.131"	toe-nails / bay
2	#8	toe-screws / bay

Bottom Plate to Floor (Sheathing Lap)

Stud Spacing =	16	in. o.c.
Out-of-Plane F =	122	lbs / bay
In-Plane Shear F =	0	lbs / bay
F_R =	122	lbs / bay

Fastening Options

1	.131"	nails / bay

Sheathing to Top Plate / Band (Straps)

In-Plane Shear F =	122	plf
Uplift F =	0	plf
F_R =	122	plf

Fastening Options

6 in. o.c. 0.113 " nails

Sheathing to Floor Band (Straps)

In-Plane Shear F =	122	plf
Perf. Uplift F =	0	plf
F_R =	122	plf

Fastening Options

6 in. o.c. 0.113 " nails

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 Unprotected
Occupancy:	Single Family Dwelling
Allowable No. of Floors:	One
Wind Velocity:	150 mph vult 116 vasd Exp C
Fire Rating of Ext. Walls:	0 hr
Plan No.:	MFT2437-ME764-750-108
Allow. Floor Load:	40 PSF
Approval Date:	7/29/2019
Manufacturer:	Destiny industries, LLC

Sheathing to Floor Band (Without Straps)

In-Plane Shear F =	122	plf
Uplift F =	0	plf
Perf. Uplift F =	0	plf
F_R =	122	plf

Fastening Options

6 in. o.c. 0.113 " nails

Shearwall Connections

Wall	**2**	Wood Species =	SP		Sg =	0.55	
Wall H =	9 ft	Grade =	#2		Size =	2x6	
Force =	3621 lbs	Stud Spacing =	16	in o.c.	Fc⊥ =	565	psi
Wall L =	76 ft	**Perforated**			*Fc⊥ Controls*		
FHS =	47 ft	Perforated Design			Allowable Load =	4662	lbs
Vu =	83 plf	% FHS =	0.62		**Qty =**	**1**	**stud**
OT =	749 lbs	Co =	0.93				

Sheathing / Fastening **7/16" OSB** **One Side** **with** **0.113** **" nails**

Edge Spacing =	6	in. o.c.	Fastener Length			
Field Spacing =	12	in. o.c.	L =	2.375	in	
Allowable Shear =	**275**	**plf >>> PASS**				

Truss to Top Plate

Truss Spacing =	16	in. o.c.
Out-of-Plane F =	221	lbs
In-Plane Shear F =	64	lbs
F_R =	221	lbs

Fastening Options

3	.131"	toe-nails / truss
3	#8	toe-screws / truss

Bottom Plate to Floor (Sheathing Lap)

Stud Spacing =	16	in. o.c.
Out-of-Plane F =	122	lbs / bay
In-Plane Shear F =	0	lbs / bay
F_R =	122	lbs / bay

Fastening Options

1	.131"	nails / bay

Sheathing to Top Plate / Band (Straps)

In-Plane Shear F =	83	plf
Uplift F =	0	plf
F_R =	83	plf

Fastening Options

6 in. o.c. 0.113 " nails

Sheathing to Floor Band (Straps)

In-Plane Shear F =	83	plf
Perf. Uplift F =	83	plf
F_R =	118	plf

Fastening Options

6 in. o.c. 0.113 " nails

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Allowable No. of Floors:	One
Wind Velocity:	150 mph vult 116 vasd Exp C
Fire Rating of Ext. Walls:	0 hr
Plan No.:	MFT2437-ME764-750-108
Allow. Floor Load:	40 PSF
Approval Date:	7/29/2019
Manufacturer:	Destiny industries, LLC

Sheathing to Floor Band (Without Straps)

In-Plane Shear F =	83	plf
Uplift F =	181	plf
Perf. Uplift F =	83.245	plf
F_R =	277	plf

Fastening Options

4 in. o.c. 0.113 " nails

Shearwall Connections

Wall	**3**	Wood Species =	SP		Sg =	0.55	
Wall H =	9 ft	Grade =	#2		Size =	2x6	
Force =	3621 lbs	Stud Spacing =	16	in o.c.	Fc⊥ =	565	psi
Wall L =	29.67 ft	**Segmented**			*Fc⊥ Controls*		
FHS =	21.5 ft				Allowable Load =	4662	lbs
Vu =	168 plf				**Qty =**	**1**	**stud**
OT =	1516 lbs						

Sheathing / Fastening **7/16" OSB** **One Side** **with** **0.113** **" nails**

Edge Spacing =	6	in. o.c.	Fastener Length	
Field Spacing =	12	in. o.c.	L =	2.375 in
Allowable Shear =	**275**	**plf >>> PASS**		

Gable End Plate to Top Plate

Stud Spacing =	16	in. o.c.
Out-of-Plane F =	122	lbs / bay
In-Plane Shear F =	163	lbs / bay
F_R =	163	lbs / bay

Fastening Options

2	.131"	toe-nails / bay
2	#8	toe-screws / bay

Bottom Plate to Floor (Sheathing Lap)

Stud Spacing =	16	in. o.c.
Out-of-Plane F =	122	lbs / bay
In-Plane Shear F =	0	lbs / bay
F_R =	122	lbs / bay

Fastening Options

1	.131"	nails / bay

Sheathing to Top Plate / Band (Straps)

In-Plane Shear F =	168	plf
Uplift F =	0	plf
F_R =	168	plf

Fastening Options

6 in. o.c. 0.113 " nails

Sheathing to Floor Band (Straps)

In-Plane Shear F =	168	plf
Perf. Uplift F =	0	plf
F_R =	168	plf

Fastening Options

6 in. o.c. 0.113 " nails

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Occupancy:	Single Family Dwelling
Allowable No. of Floors:	One
Wind Velocity:	150 mph vult 116 vasd Exp C
Fire Rating of Ext. Walls:	0 hr
Plan No.:	MFT2437-ME764-750-108
Allow. Floor Load:	40 PSF
Approval Date:	7/29/2019
Manufacturer:	Destiny industries, LLC

Sheathing to Floor Band (Without Straps)

In-Plane Shear F =	168	plf
Uplift F =	0	plf
Perf. Uplift F =	0	plf
F_R =	168	plf

Fastening Options

6 in. o.c. 0.113 " nails

Shearwall Connections

Wall	**4**	Wood Species =	SP		Sg =	0.55	
Wall H =	9 ft	Grade =	#2		Size =	2x6	
Force =	3621 lbs	Stud Spacing =	16	in o.c.	Fc⊥ =	565	psi
Wall L =	71 ft	**Perforated**			*Fc⊥ Controls*		
FHS =	41.5 ft	Perforated Design			Allowable Load =	4662	lbs
Vu =	124 plf	% FHS =	0.58		**Qty =**	**1**	**stud**
OT =	1118 lbs	Co =	0.70				

Sheathing / Fastening **7/16" OSB** **One Side** **with** **0.113** **" nails**

Edge Spacing =	6	in. o.c.	Fastener Length				
Field Spacing =	12	in. o.c.	L =	2.375	in		
Allowable Shear =	**275**	**plf >>> PASS**					

Truss to Top Plate

Truss Spacing =	16	in. o.c.
Out-of-Plane F =	221	lbs
In-Plane Shear F =	68	lbs
F_R =	221	lbs

Fastening Options

3	.131"	toe-nails / truss
3	#8	toe-screws / truss

Bottom Plate to Floor (Sheathing Lap)

Stud Spacing =	16	in. o.c.
Out-of-Plane F =	122	lbs / bay
In-Plane Shear F =	0	lbs / bay
F_R =	122	lbs / bay

Fastening Options

1	.131"	nails / bay

Sheathing to Top Plate / Band (Straps)

In-Plane Shear F =	124	plf
Uplift F =	0	plf
F_R =	124	plf

Fastening Options

6 in. o.c. 0.113 " nails

Sheathing to Floor Band (Straps)

In-Plane Shear F =	124	plf
Perf. Uplift F =	124	plf
F_R =	176	plf

Fastening Options

6 in. o.c. 0.113 " nails

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Allowable No. of Floors:	One
Wind Velocity:	150 mph vult 116 vasd Exp C
Fire Rating of Ext. Walls:	0 hr
Plan No.:	MFT2437-ME764-750-108
Allow. Floor Load:	40 PSF
Approval Date:	7/29/2019
Manufacturer:	Destiny industries, LLC

Sheathing to Floor Band (Without Straps)

In-Plane Shear F =	124	plf
Uplift F =	181	plf
Perf. Uplift F =	124.23	plf
F_R =	330	plf

Fastening Options

3 in. o.c. 0.113 " nails

Shearwall	PLF	Shearwall Description	Edge	Field
1	123	7/16" OSB One Side w/ 0.113" x 2.375" nails	6	12
2	84	7/16" OSB One Side w/ 0.113" x 2.375" nails	6	12
3	169	7/16" OSB One Side w/ 0.113" x 2.375" nails	6	12
4	125	7/16" OSB One Side w/ 0.113" x 2.375" nails	6	12

Wall 1 OT = 1099 lbs

Gable End Plate to Top Plate
2 .131" toe-nails / bay
2 #8 toe-screws / bay

Bottom Plate to Floor (Sheathing Lap)
1 .131" nails / bay

Sheathing to Top Plate / Band (Straps)
6 in. o.c. 0.113 " nails

Sheathing to Floor Band (Straps)
6 in. o.c. 0.113 " nails

Sheathing to Floor Band (Without Straps)
6 in. o.c. 0.113 " nails

Wall 2 OT = 750 lbs

Truss to Top Plate
3 .131" toe-nails / truss
3 #8 toe-screws / truss

Bottom Plate to Floor (Sheathing Lap)
1 .131" nails / bay

Sheathing to Top Plate / Band (Straps)
6 in. o.c. 0.113 " nails

Sheathing to Floor Band (Straps)
6 in. o.c. 0.113 " nails

Sheathing to Floor Band (Without Straps)
4 in. o.c. 0.113 " nails

Wall 3 OT = 1516 lbs

Gable End Plate to Top Plate
2 .131" toe-nails / bay
2 #8 toe-screws / bay

Bottom Plate to Floor (Sheathing Lap)
1 .131" nails / bay

Sheathing to Top Plate / Band (Straps)
6 in. o.c. 0.113 " nails

Sheathing to Floor Band (Straps)
6 in. o.c. 0.113 " nails

Sheathing to Floor Band (Without Straps)
6 in. o.c. 0.113 " nails

Wall 4 OT = 1119 lbs

Truss to Top Plate
3 .131" toe-nails / truss
3 #8 toe-screws / truss

Bottom Plate to Floor (Sheathing Lap)
1 .131" nails / bay

Sheathing to Top Plate / Band (Straps)
6 in. o.c. 0.113 " nails

Sheathing to Floor Band (Straps)
6 in. o.c. 0.113 " nails

Sheathing to Floor Band (Without Straps)
3 in. o.c. 0.113 " nails

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Allowable No. of Floors:	One
Wind Velocity:	150 mph vult 116 vasd Exp C
Fire Rating of Ext. Walls:	0 hr
Plan No.:	MFT2437-ME764-750-108
Allow. Floor Load:	40 PSF
Approval Date:	7/29/2019
Manufacturer:	Destiny industries, LLC

Roof Diaphragm

Roof Diaphragm

V =	3621	lbs	7/16" sheathing w/ .113" nails:	250	plf
Unit shear =	114	plf	6" o.c. edge, 12" o.c. field		

Floor Diaphragm

V =	4426	lbs	19/32" sheathing w/ .113" nails:	275	plf
Unit shear =	149	plf	6" o.c. edge, 6" o.c. field		

Suction Fastening Requirements (spacing limited to diaphragm spacing requirements)

Roof Sheathing Suction W = 109 lbs

Truss Spacing = 24 in

			Edge	Field	
Zone 1	-28.6	psf	6.0	12.0	in o.c.
Zone 2	-49.7	psf	6.0	12.0	in o.c.
Zone 2 OH	-62.9	psf	6.0	10.4	in o.c.
Zone 3	-73.5	psf	6.0	8.9	in o.c.
Zone 3 OH	-102.6	psf	6.0	6.4	in o.c.

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Fire Rating of Ext. Walls:	0 hr
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Allow. Floor Load:	40 PSF
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Manufacturer:	Destiny industries, LLC

Roof Diaphragm Deflection (3 term equation)

$$\delta_{dia} = \frac{5vL^3}{8EAW} + \frac{0.25vL}{1000G_a} + \frac{\sum(x\Delta_c)}{2W}$$

W =	95	plf			
Max T /C =	2173	lbs			
Chord E =	1400000	psi	term 1 =	0.19426	in
Chord A =	8.25	in^2	term 2 =	0.37854	in
Ga =	13	kips/in	term 3 =	0.08904	in
Δc =	0.039163		δ_{dia} =	0.66184	in
Δ_{allow} =	2L/ 120			**OK**	

Chord Splice

Max T / C =	2173	lbs	**Tension Controls**
F_t =	600	psi	
F'_t =	960	psi	
Allowable T =	7920	lbs	

Fasten chord splice with 0.131 in. nails, 13 each side of splice

Tie-Down Anchors (Far Beam)

Building Parameters			Loading Parameters		
Total Width =	356	in	Dead Loads		
Module Width =	178	in	Roof DL =	14	psf
Wall Height =	108	in	Wall DL =	5	psf
Floor Height =	10	in	Floor DL =	15	psf
Roof Projection =	36	in	Wind Loads	Wind FOS =	1
Overhang =	12	in	Horizontal Roof =	-13.0	psf
Roof Pitch =	2	/12	Horizontal Wall =	30.6	psf
I-beam spacing =	99.5	in	Vertical Roof =	-33.0	psf
Frame Height =	12	in	Vertical Roof OH =	-46.3	psf
Pier Height (including frame) =	48	in			
Anchor Inset =	6	in			

Tie-Down Anchors			Allowable Loads		
F_{ult} =	4725	lbs	Horizontal =	2962	lbs
F_{all} =	3150	lbs	Vertical =	3126	lbs
θ horizontal =	19.9	º	Lateral Load =	332	plf
θ vertical =	7.1	º	Spacing for Sliding =	8.92	ft o.c.

Net Uplift at Floor			Total Tension (Overturning + Net Uplift)		
F =	-136	plf	T =	-298.3	plf
Overturning			Spacing for Overturning / Uplift =	10.48	ft o.c.
F =	-1872	ft-lbs / ft			
T =	-162	plf			

Install Anchors on Sidewall Floor Band (rated for 3150 lbs allowable load) at 8.92 ft o.c.

Matewall Uplift

F = -131 plf per half Spacing = 11.89 ft o.c.

Max Matewall Opening for Anchor in each module Span = 34.16 ft

Install Anchors on Matewall Floor Band (rated for 3150 lbs allowable load) at 11.89 ft o.c.

Longitudinal Tie-Downs

Anchor Angle = 70 º

Strap Angle = 20 º min Allowable T = 2413 lbs

Total Horizontal Force

F = 7222 lbs

Longitudinal Anchors Required Each End (Total)

Qty = 3 total 2 each module

Notes:

1. Equivalent anchors into foundation (or ground) designed and installed by others.
2. Matewall spacing assumes single double head foundation anchor with separate strap in each module
3. Max matewall opening span assumes interior zone span and separate foundation anchors.

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Allowable No. of Floors:	One
Wind Velocity:	150 mph vult 116 vasd Exp C
Fire Rating of Ext. Walls:	0 hr
Plan No.:	MFT2437-ME764-750-108
Allow. Floor Load:	40 PSF
Approval Date:	7/29/2019
Manufacturer:	Destiny industries, LLC

Uplift Connections

Uplift Forces

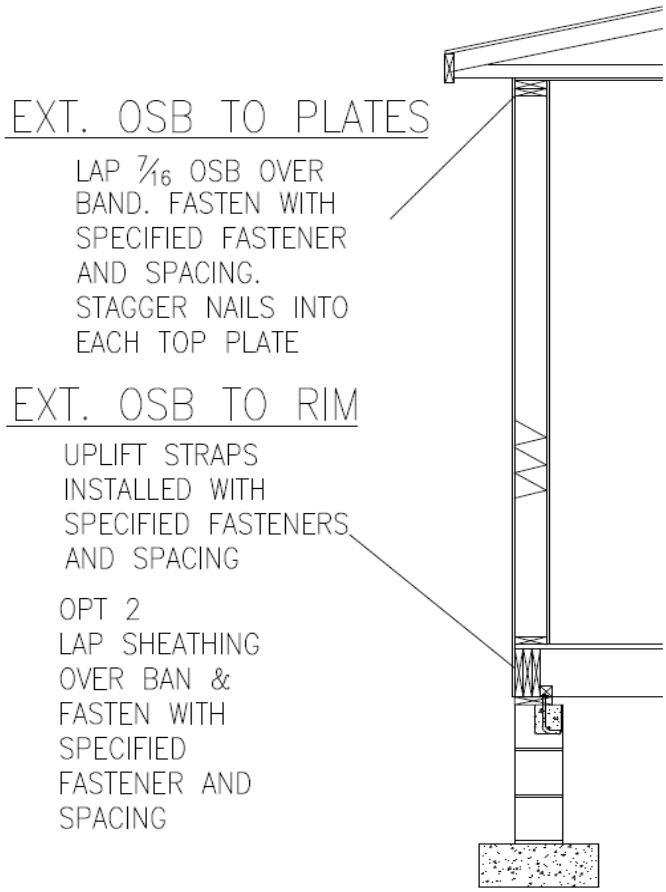
Sidewall		Matewall	
Uplift =	-462 lbs	Uplift =	-447 lbs

Sidewall - OSB Overlap at Top Plate

F = 208 plf

Fastener = .113 nails
Z = 94 lbs
Nail Spacing = 5 inches o.c.
Rows = One Row

Lap Sheathing Over Top Plate and Fasten with One Row of .113 nails at 5 inches o.c.



Sidewall - Connection at Floor

F = 330 plf

Option 1 w/ Straps

LSTA15 921 lbs
Fastener = .131" x 2.5" nail
Strap Spacing = 33 inches o.c.

Use LSTA15 strap 32 inches o.c., w/ (6) .131" x 2.5" nails

Option 2 w/ OSB Overlap

Fastener = .113 nails
Z = 94 lbs
Nail Spacing = 3 inches o.c.
Rows = One Row

Lap Sheathing Over Top Plate and Fasten with One Row of .113 nails at 3 inches o.c.

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Allowable No. of Floors:	One
Wind Velocity:	150 mph vult 116 vasd Exp C
Fire Rating of Ext. Walls:	0 hr
Plan No.:	MFT2437-ME764-750-108
Allow. Floor Load:	40 PSF
Approval Date:	7/29/2019
Manufacturer:	Destiny industries, LLC

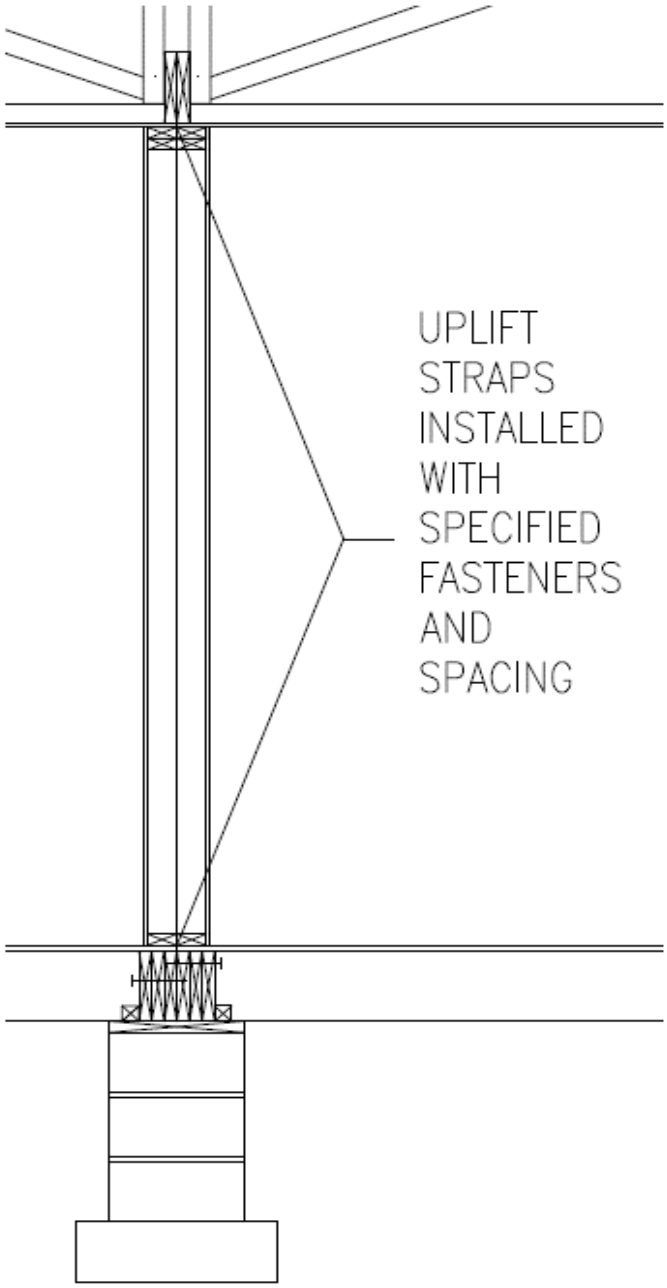
Uplift Connections

Matewall - Ridgebeam to Stud

F = -203 plf

LSTA9 614 lbs
Fastener = .131" x 2.5" nail
Strap Spacing = 36 inches o.c.

Use LSTA9 strap 32 inches o.c., w/ (4) .131" x 2.5" nails



Matwall - Stud to Floor

F = -203 plf

Option 1 w/ Straps

LSTA9 614 lbs
Fastener = .131" x 2.5" nail
Strap Spacing = 36 inches o.c.

Use LSTA9 strap 32 inches o.c., w/ (4) .131" x 2.5" nails

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Occupancy:	Single Family Dwelling
Allowable No. of Floors:	One
Wind Velocity:	150 mph vult 116 vasd Exp C
Fire Rating of Ext. Walls:	0 hr
Plan No.:	MFT2437-ME764-750-108
Allow. Floor Load:	40 PSF
Approval Date:	7/29/2019
Manufacturer:	Destiny industries, LLC

Truss Connections (Fixed Roof)

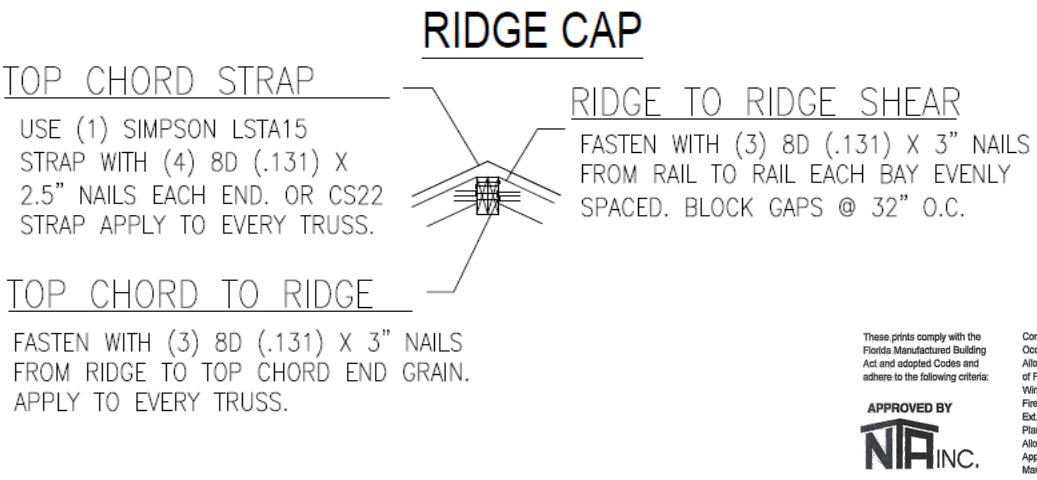
Truss Reactions Truss Chord Species = SP

Sidewall		Matewall	
Horiz. =	221 lbs	Gravity =	495 lbs
Uplift =	-462 lbs	Uplift =	-447 lbs

Top Chord Strap Across Mateline

T = 214 lbs

Strap Options:	Fasteners Each End:	Value:	
LSTA15	(4) .131" x 2.5" nails	615 lbs	**OK**
CS22	(4) .131" x 2.5" nails	653 lbs	**OK**



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

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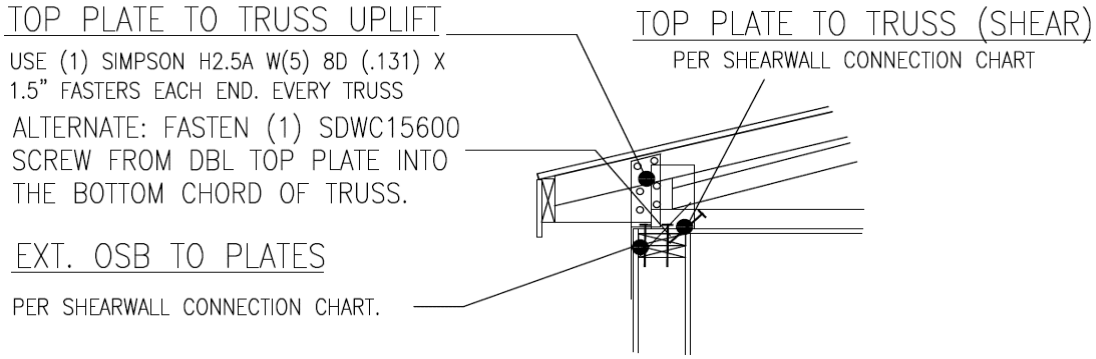
Const. Type:	VB Unprotected
Occupancy:	Single Family Dwelling
Allowable No. of Floors:	One
Wind Velocity:	150 mph vult 116 vasd Exp C
Fire Rating of Ext. Walls:	0 hr
Plan No.:	MET2437-ME764-750-108
Allow. Floor Load:	40 PSF
Approval Date:	7/29/2019
Manufacturer:	Destiny industries, LLC

Uplift Connector at Sidewall Truss Heel

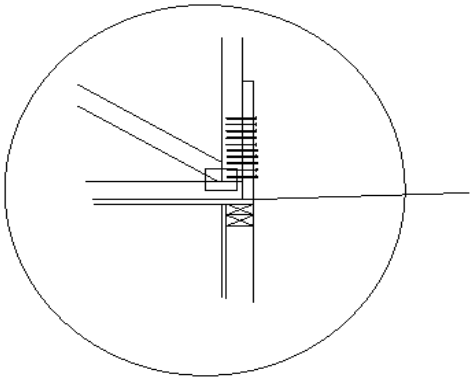
Connector Options:	Fasteners Each End:	Value:	
H2.5A	(5) .131" x 2.5" nails	565 lbs	**OK**
SDWC15600	.152" x 6" screw	615 lbs	**OK**



Matewall Girder Connection Over Openings:

Gravity = 495 lbs **Gravity Controls**
Uplift = -447 lbs

Fastener:		Quantity:
.131" nail	end grain	7



BOTTOM CHORD TO BAND

FASTEN BAND TO BOTTOM CHORD
APPLY EVERY TRUSS EVENLY SPACED.

RIDGE BEAM

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:	One
Wind Velocity:	150 mph vult 116 vasd Exp C
Fire Rating of Ext. Walls:	0 hr
Plan No.:	MFT2437-ME764-750-108
Allow. Floor Load:	40 PSF
Approval Date:	7/29/2019
Manufacturer:	Destiny industries, LLC

Erik Myers PE, PLLC
7/17/2019

Matewall Header

Species =	Murphy		W =	-203	plf	Ld =	1.6	
Grade =	LVL		LL =	145	plf	Ld =	1	
b =	1.5	in	DL =	103	plf			
d =	11.25	in	LLΔ = L/	240				
A =	16.88	in^2	TLΔ = L/	180				
S =	31.64	in^3	WΔ = L/	240				
I =	177.98	in^4						
Qty =	1		Span =	184	in			
Fb =	3100	psi						
Fv =	290	psi		L+D			W	
E =	2000000	psi	F'b =	3100.00	psi	F'b =	4960.00	psi
Lr =	1		F'v =	290	psi	F'v =	464	psi
Cfb =	1							

	L+D			W	
Mu =	87285	in-lbs		49836.3	in-lbs
Mn =	98085.9	in-lbs	OK	156938	in-lbs OK

	L+D			W	
Vu =	1897.5	lbs		1083.4	lbs
Vn =	3262.5	lbs	OK	5220	lbs OK

LLΔ =	0.51	in	Allowable LLΔ =	0.77	in OK
TLΔ =	0.69	in	Allowable TLΔ =	1.02	in OK
WΔ =	0.71	in	Allowable TLΔ =	0.77	in OK

Reaction			Uplift Reaction		
F =	1898	lbs	F =	-1556	lbs

Use (1) 1.5 x 11.25 LVL for 15' 4" span

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Const. Type:	VB Unprotected
Occupancy:	Single Family Dwelling
Allowable No. of Floors:	One
Wind Velocity:	150 mph vult 116 vasd Exp C
Fire Rating of Ext. Walls:	0 hr
Plan No.:	MFT2437-ME764-750-108
Allow. Floor Load:	40 PSF
Approval Date:	7/29/2019
Manufacturer:	Destiny industries, LLC

Matewall Header

Species =	SYP		W =	-203	plf	Ld =	1.6	
Grade =	#2		LL =	145	plf	Ld =	1.25	
b =	1.5	in	DL =	103	plf			
d =	5.5	in	LLΔ = L/	240				
A =	8.25	in^2	TLΔ = L/	180				
S =	7.56	in^3	WΔ = L/	240				
I =	20.80	in^4						
Qty =	1		Span =	48	in			
Fb =	1000	psi						
Fv =	175	psi		L+D			W	
E =	1400000	psi	F'b =	1250.00	psi	F'b =	1600.00	psi
Lr =	1		F'v =	218.75	psi	F'v =	280	psi
Cfb =	1							

	L+D			W		
Mu =	5940	in-lbs		3391.51	in-lbs	
Mn =	9453.13	in-lbs	OK	12100	in-lbs	OK

	L+D			W		
Vu =	495	lbs		282.626	lbs	
Vn =	1203.13	lbs	OK	1540	lbs	OK

LLΔ =	0.03	in	Allowable LLΔ =	0.20	in	OK
TLΔ =	0.04	in	Allowable TLΔ =	0.27	in	OK
WΔ =	0.04	in	Allowable TLΔ =	0.20	in	OK

Reaction			Uplift Reaction		
F =	495	lbs	F =	-406	lbs

Use (1) 2 x 6 #2 SYP for 4' 0" span

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Allow. Floor Load:	40 PSF
Approval Date:	7/29/2019
Manufacturer:	Destiny industries, LLC

Erik Myers PE, PLLC
7/17/2019

Matewall Stud

						W =	-203	plf
L =	108	in	Ke =	1		DL =	103	plf
d =	3.5	in	le =	108	in	LL =	145	plf
t =	1.5	in	le/d =	30.86	< 50 OK			
			Cd =	1				
Spacing =	16	in	Cf(Fc) =	1		Cf(Fb) =	1	

	Fb psi	Ft psi	Fv psi	$Fc_{\perp}$ psi	Fc psi	E psi	Emin psi
#3 SYP	650	400	175	565	850	1300000	470000

Qty	A (in^2)	S (in^3)	I (in^4)	F'b psi	F'c psi
1	5.25	3.06	5.36	650	850
2	10.50	6.13	10.72	650	850
3	15.75	9.19	16.08	748	850

Axial Compression

Qty	FcE psi	αc	Cp	F'c psi	fc psi	fc/F'c		Capacity
1	406	0.48	0.42	355	246	0.69	**OK**	1863 lbs
2	406	0.48	0.42	355	287	0.81	**OK**	3726 lbs
3	406	0.48	0.42	355	308	0.87	**OK**	5589 lbs

Lateral Bending W = 5 psf

Qty	M (in-lbs)	F'c psi	fb psi	fb/F'c	
1	405.00	650	132	0.20	**OK**
2	405.00	650	66	0.10	**OK**
3	405.00	748	44	0.06	**OK**

Combined Stresses

Qty	Axial	Lateral	Combined	Max Load	Max Span (in.)
1	0.69	0.20	1.00	1293	110
2	0.81	0.10	1.00	3012	277
3	0.87	0.06	1.00	4854	455

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Wind Velocity:	150 mph vult 116 vasd Exp C
Fire Rating of Ext. Walls:	0 hr
Plan No.:	MET2437-ME764-750-108
Allow. Floor Load:	40 PSF
Approval Date:	7/29/2019
Manufacturer:	Destiny industries, LLC

Erik Myers PE, PLLC
7/17/2019

Sidewall Headers

Gravity Loading **Wind Loading** Zone = Exterior

W =	-208	plf	LLΔ = L/	240	C&C =	41.8	psf
DL =	115	plf	TLΔ = L/	180	MWFRS =	30.6	psf
LL =	162	plf	Cd_{GRAV} =	1	LLΔ = L/	120	Cd_{WIND} = 1.6

	Qty	b	d	Grade	Species	Direction	Cfu_{GRAV}	Cfu_{WIND}	C_{fb}
1	3	1.5	3.5	#2	SYP	Edge	1	1.1	1
2	3	1.5	5.5	#2	SYP	Edge	1	1.15	1
3	3	1.5	7.25	#2	SYP	Edge	1	1.15	1
4	3	1.5	9.25	#2	SYP	Edge	1	1.2	1
5	3	1.5	11.25	#2	SYP	Edge	1	1.2	1

	A (in^2)	Sx (in^3)	Sy (in^3)	Ix (in^4)	Iy (in^4)	Fb psi	Fv psi	E psi	Emin psi
1	15.75	9.19	3.94	16.08	2.95	1100	175	1400000	510000
2	24.75	22.69	6.19	62.39	4.64	1000	175	1400000	510000
3	32.63	39.42	8.16	142.90	6.12	925	175	1400000	510000
4	41.63	64.17	10.41	296.79	7.80	800	175	1400000	510000
5	50.63	94.92	12.66	533.94	9.49	750	175	1400000	510000

	F_b'	F_v'	F_{bE}	C_L	F_{bEdge}'	F_{bFlat}'
1	1265	175	3499	0.97	2024	2226
2	1150	175	1529	0.90	1840	2116
3	1064	175	974	0.78	1702	1957
4	920	175	681	0.67	1472	1766
5	863	175	512	0.56	1380	1656

	Gravity Only				Lateral Only			Combined	
	M	V	LLΔ	TLΔ	M	V	LLΔ	M	V
1	62.5	165.9	81.1	80.6	74.8	293.3	67.1	61.66	129.42
2	90.3	260.7	127.4	126.7	91.4	460.8	78.0	80.47	203.38
3	106.3	343.7	167.9	167.0	101.0	607.5	85.5	89.67	268.09
4	117.1	438.5	214.2	213.1	108.3	775.0	92.7	96.76	342.04
5	125.8	533.3	260.5	259.1	115.7	942.6	99.0	103.17	415.99

Summary

	Qty	b	d	Grade	Species	Direction	Max Span
1	3	1.5	3.5	#2	SYP	Edge	61.7 in
2	3	1.5	5.5	#2	SYP	Edge	78.0 in
3	3	1.5	7.25	#2	SYP	Edge	85.5 in
4	3	1.5	9.25	#2	SYP	Edge	92.7 in
5	3	1.5	11.25	#2	SYP	Edge	99.0 in

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Wind Velocity: 150 mph vult 116 vasd Exp C
Fire Rating of Ext. Walls: 0 hr
Plan No.: MFT2437-ME764-750-108
Allow. Floor Load: 40 PSF
Approval Date: 7/29/2019
Manufacturer: Destiny industries, LLC

Erik Myers PE, PLLC
7/17/2019

Sidewall Stud

						W =	-259	plf
L =	103.5	in	Ke =	1		DL =	169	plf
d =	5.5	in	le =	103.5	in	LL =	160	plf
t =	1.5	in	le/d =	18.82	< 50 OK			
			Cd =	1				
Spacing =	16	in	Cf(Fc) =	1.15		Cf(Fb) =	1.5	

	Fb psi	Ft psi	Fv psi	$Fc^{\perp}$ psi	Fc psi	E psi	Emin psi
#2 SYP	1000	600	175	565	1400	1400000	510000

Qty						Bearing Capacity
2	16.50	15.13	41.59	1500	1610	9323
3	24.75	22.69	62.39	1725	1610	13984
4	33.00	30.25	83.19	1725	1610	18645
5	41.25	37.81	103.98	1725	1610	23307
6	49.50	45.38	124.78	1725	1610	27968

Axial Compression

Qty	FcE psi	αc	Cp	F'c psi	fc psi	fc/F'c		Axial Capacity
2	1184	0.74	0.58	930	170	0.18	**OK**	15340 lbs
3	1184	0.74	0.58	930	192	0.21	**OK**	23010 lbs
4	1184	0.74	0.58	930	193	0.21	**OK**	30680 lbs
5	1184	0.74	0.58	930	193	0.21	**OK**	38350 lbs
6	1184	0.74	0.58	930	193	0.21	**OK**	46020 lbs

Lateral Bending W = 40.8 psf

Qty	M (in-lbs)	F'c psi	fb psi	fb/F'c	
2	30067	2400	1988	0.83	**OK**
3	50269	2760	2216	0.80	**OK**
4	66915	2760	2212	0.80	**OK**
5	83561	2760	2210	0.80	**OK**
6	100207	2760	2208	0.80	**OK**

Combined Stresses

Qty	Axial	Lateral	Combined	Max Load (lbs)	Max Span (in.)
2	0.18	0.83	1.00	2810	190
3	0.21	0.80	1.00	4757	332
4	0.21	0.80	1.00	6363	449
5	0.21	0.80	1.00	7967	566
6	0.21	0.80	1.00	9577	683

**Note: Stud quantity represents combined jack and jamb total

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Fire Rating of Ext. Walls:	0 hr
Plan No.:	MFT2437-ME764-750-108
Allow. Floor Load:	40 PSF
Approval Date:	7/29/2019
Manufacturer:	Destiny industries, LLC

Header Connections

Zone =	5			Zone 4	-33.8412
H =	80	in		Zone 5	-41.7727
W =	36	in			
Wall H =	108	in			
Stud =	16	in o.c.			
C+C =	41.8	psf	C +C =	188	plf
Uplift =	208	plf			
Fr =	280	plf			
F =	420	lbs			
.131" Z =	114	lbs			

Header to King Stud

F =	420	lbs
	4	nails

Stud to Plate

W1 =	28	plf	a =	68	in
W2 =	91	plf	c =	40	in
R top =	475	lbs			
R bot =	405	lbs			
Max =	475	lbs			
	5	nails			

Uplift

Truss =	16	in o.c.
F =	451	lbs
LSTA15	1110	lbs
	1	straps

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Allow. Floor Load:	40 PSF
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Header Connections

Zone =	4			Zone 4	-33.8412
H =	80	in		Zone 5	-41.7727
W =	72	in			
Wall H =	108	in			
Stud =	16	in o.c.			
C+C =	33.8	psf	C +C =	152	plf
Uplift =	208	plf			
Fr =	258	plf			
F =	773	lbs			
.131" Z =	114	lbs			

Header to King Stud

F =	773	lbs
	7	nails

Stud to Plate

W1 =	23	plf	a =	68	in
W2 =	124	plf	c =	40	in
R top =	737	lbs			
R bot =	578	lbs			
Max =	737	lbs			
	7	nails			

Uplift

Truss =	16	in o.c.
F =	763	lbs
LSTA15	1110	lbs
	1	straps

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Allow. Floor Load:	40 PSF
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Overhang Calculation (Cantilever Under Top Chord)

Loading Conditions:

1	LL:	20 psf		
2	LL:	-62.923 psf	LLΔ L/	180
	DL:	7 psf	TLΔ L/	180

Loading Conditions:

1	C_D:	1
2	C_D:	1.6

Loading Conditions:

Width	Depth	Species	Grade	Fb	Fv	E	C_F
2.5	1.5	SP	#2	1100	175	1400000	1

	Spacing	Qty	A in^2	S in^3	I in^4	Cr	F'b	F'v	E'
1a	16	1	3.75	0.9375	0.7031	1.15	1265	175	1400000
1b	16	1	3.75	0.9375	0.7031	1.15	1265	175	1400000
2a	16	1	3.75	0.9375	0.7031	1.15	2024	280	1400000
2b	16	1	3.75	0.9375	0.7031	1.15	2024	280	1400000

Design Limits

	Bending	Shear	Max Span	LLΔ		TLΔ	
1a	28	147	28 in	0.0013	OK	0.0018	OK
1b	56	292	56 in	0.0098	OK	0.0132	OK
2a	23	102	23 in	0.0042	OK	0.0042	OK
2b	23	102	23 in	0.0368	OK	0.0368	OK

Connections: Overhang L: 12 in Truss Spacing = 24 in

	Load at Truss	Load at Gable
1a	18	-
1b	18	-
2a	-21	-209.74
2b	-	-188.77

Worst Case Reactions Normalized to Ld = 1.0

Load at Truss	Load at Gable
18 lbs	131 lbs

Notes:

1a Overhang loaded only
1b Truss bay loaded only
2a Overhang loaded only
2b Overhang and truss bay loaded
Overhang equal to Truss Spacing

.131" x 3" nail (Ld=1.0) W = 31 lbs
(3) nails per truss = 93 lbs > 18 **OK**
Load at Gable = 131 lbs
Bearing on Gable Endwall **OK**

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WoodWorks® SOFTWARE FOR WOOD DESIGN	**COMPANY** Erik Myers PE PLLC 2805 28th St Parkersburg, WV 26104 (304)-834-9510 July 17, 2019 12:02	**PROJECT** 14-10 On Frame Floor Joist.wwb

Design Check Calculation Sheet

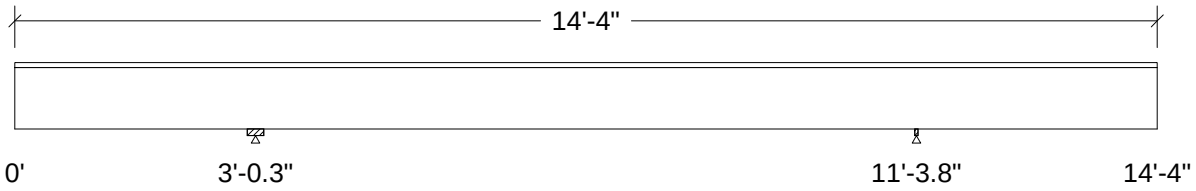
WoodWorks Sizer 10.2

Loads:

Load	Type	Distribution	Pat-tern	Location [ft] Start	End	Magnitude Start	End	Unit
Load1	Dead	Point	No	0.00		214		lbs
Load3	Roof constr.	Point	Yes	0.00		216		lbs
Load4	Roof constr.	Point	Yes	14.33		193		lbs
Load5	Live	Full Area	Yes			40.00 (16.0)*		psf
Load6	Dead	Full Area	No			10.00 (16.0)*		psf
Load7	Wind	Point	No	14.33		-588		lbs
Load9	Wind	Point	No	0.00		-616		lbs
Load10	Dead	Point	No	14.33		137		lbs
Self-weight	Dead	Full UDL	No			3.6		plf

*Tributary Width (in)

Maximum Reactions (lbs), Bearing Capacities (lbs) and Bearing Lengths (in) :



Unfactored:							
Dead			363		230		
Live			412		412		
Wind			-626		-578		
Roof Live			295		263		
Factored:							
Uplift			147		198		
Total			893		736		
Bearing:							
Capacity							
Joist			2437		742		
Anal/Des							
Joist			0.37		0.99		
Load comb			#26		#29		
Length			2.50		0.50*		
Min req'd			0.68		0.50		
Cb			1.15		1.75		
Cb min			1.55		1.75		

*Minimum bearing length setting used: 1/2" for interior supports

Lumber n-ply, S. Pine, No.2, 2x10, 1-ply (1-1/2"x9-1/4")

Supports: All - Non-wood

Floor joist spaced at 16.0" c/c; Total length: 14'-4.0";

Lateral support: top= full, bottom= at supports; Repetitive factor: applied where permitted (refer to online help);

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Allow. Floor Load: 40 PSF
Approval Date: 7/29/2019
Manufacturer: Destiny industries, LLC

Analysis vs. Allowable Stress (psi) and Deflection (in) using NDS 2012 :

Criterion	Analysis Value	Design Value	Analysis/Design
Shear	fv = 55	Fv' = 219	fv/Fv' = 0.25
Bending(+)	fb = 462	Fb' = 1472	fb/Fb' = 0.31
Bending(-)	fb = 783	Fb' = 786	fb/Fb' = 1.00
Deflection:			
Interior Live	0.12 = L/850	0.28 = L/360	0.42
Total	-0.12 = L/819	0.41 = L/240	0.29
Cantil. Live	-0.21 = L/169	0.20 = L/180	1.06
Total	-0.15 = L/247	0.30 = L/120	0.49

Additional Data:

FACTORS:	F/E(psi)	CD	CM	Ct	CL	CF	Cfu	Cr	Cfrt	Ci	Cn	LC#
Fv'	175	1.25	1.00	1.00	-	-	-	-	1.00	1.00	1.00	3
Fb'+	750	1.60	1.00	1.00	1.000	1.067	1.00	1.15	1.00	1.00	-	8
Fb'-	750	1.25	1.00	1.00	0.683	1.067	1.00	1.15	1.00	1.00	-	3
Fcp'	565	-	1.00	1.00	-	-	-	-	1.00	1.00	-	-
E'	1.4 million		1.00	1.00	-	-	-	-	1.00	1.00	-	8
Emin'	0.51 million		1.00	1.00	-	-	-	-	1.00	1.00	-	8

CRITICAL LOAD COMBINATIONS:

Shear : LC #3 = D+.75(L+Lr), V = 548, V design = 505 lbs

Bending(+): LC #8 = .6D+.6W, M = 824 lbs-ft

Bending(-): LC #3 = D+.75(L+Lr), M = 1396 lbs-ft

Deflection: LC #8 = .6D+.6W (live)

LC #28 = (total)

D=dead L=live S=snow W=wind I=impact Lr=roof live Lc=concentrated E=earthquake

All LC's are listed in the Analysis output

Load Patterns: s=S/2, X=L+S or L+Lr, _=no pattern load in this span

Load combinations: ASCE 7-10 / IBC 2012

CALCULATIONS:

Deflection: EI = 139e06 lb-in2

"Live" deflection = Deflection from all non-dead loads (live, wind, snow…)

Total Deflection = 1.00(Dead Load Deflection) + Live Load Deflection.

Design Notes:

1. WoodWorks analysis and design are in accordance with the ICC International Building Code (IBC 2012), the National Design Specification (NDS 2012), and NDS Design Supplement.
2. Please verify that the default deflection limits are appropriate for your application.
3. Continuous or Cantilevered Beams: NDS Clause 4.2.5.5 requires that normal grading provisions be extended to the middle 2/3 of 2 span beams and to the full length of cantilevers and other spans.
4. Sawn lumber bending members shall be laterally supported according to the provisions of NDS Clause 4.4.1.
5. FIRE RATING: Joists, wall studs, and multi-ply members are not rated for fire endurance.
6. The critical deflection value has been determined using maximum back-span deflection. Cantilever deflections do not govern design.

Load Short Form
Entire House
AMS of Indiana, Inc.

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Fire Rating of Ext. Walls:	0 hr
Plan No.:	MFT2437-ME764-750-108
Allow. Floor Load:	40 PSF
Approval Date:	7/29/2019
Manufacturer:	Destiny industries LLC

Job: ME764-750-108 FL
Date: 7/19/19
By: AMS of Indiana, Inc.

3933 E. Jackson Blvd., Elkhart, IN 46516 Phone: (574) 293-5526 Fax: (574) 294-1366 Email: eng-ams@comcast.net

Project Information

For: DESTINY HOMES
ME764-750-108 FL

Design Information

	Htg	Clg
Outside db (°F)	54	91
Inside db (°F)	70	75
Design TD (°F)	16	16
Daily range	-	L
Inside humidity (%)	50	50
Moisture difference (gr/lb)	4	67

Infiltration

Method	Simplified
Construction quality	Average
Fireplaces	0

HEATING EQUIPMENT

Make	Generic		
Trade			
Model	AFUE 100		
AHRI ref			
Efficiency	100 AFUE		
Heating input	4.2	kW	
Heating output	14185	Btuh	
Temperature rise	10	°F	
Actual air flow	1327	cfm	
Air flow factor	0.104	cfm/Btuh	
Static pressure	0.50	in H2O	
Space thermostat			

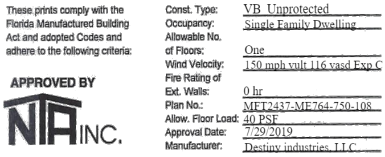
COOLING EQUIPMENT

Make	Generic		
Trade			
Cond	SEER 13.0		
Coil			
AHRI ref			
Efficiency	11.6 EER, 13 SEER		
Sensible cooling	29655	Btuh	
Latent cooling	7414	Btuh	
Total cooling	37069	Btuh	
Actual air flow	1327	cfm	
Air flow factor	0.045	cfm/Btuh	
Static pressure	0.50	in H2O	
Load sensible heat ratio	0.75		

ROOM NAME	Area (ft²)	Htg load (Btuh)	Clg load (Btuh)	Htg AVF (cfm)	Clg AVF (cfm)
U	101	628	768	66	35
BA2	73	419	667	44	30
B3	161	1194	2014	125	91
B4	165	754	1692	79	76
B2	161	1194	2205	125	99
FAM	291	1249	3565	130	161
DIN	158	785	2425	82	109
LIV	268	1430	5815	149	262
KIT	285	1294	3791	135	171
WIC	48	233	245	24	11
MBR	273	1703	3827	178	173
MBA	235	1148	1574	120	71
LINEN	43	502	437	52	20
WC	19	180	406	19	18

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

Entire House	2280	12713	29432	1327	1327
Other equip loads		1472	1490		
Equip. @ 0.96 RSM			29655		
Latent cooling			10486		
TOTALS	2280	14185	40141	1327	1327



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

wrightsoft®

Project Summary
Entire House
AMS of Indiana, Inc.

Job: ME764-750-108 FL
Date: 7/19/19
By: AMS of Indiana, Inc.

3933 E. Jackson Blvd., Elkhart, IN 46516 Phone: (574) 293-5526 Fax: (574) 294-1366 Email: eng-ams@comcast.net

Project Information

For: DESTINY HOMES
ME764-750-108 FL

Notes:

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

APPROVED BY NTA INC.

Const. Type:	VB Unprotected
Occupancy:	Single Family Dwelling
Allowable No. of Floors:	One
Wind Velocity:	150 mph vult 116 vasd Exp C
Fire Rating of Ext. Walls:	0 hr
Plan No.:	MET2437-ME764-750-108
Allow. Floor Load:	40 PSF
Approval Date:	7/29/2019
Manufacturer:	Destiny industries, LLC

Design Information

Weather: Key West/Int., FL, US

Winter Design Conditions

Outside db	54	°F
Inside db	70	°F
Design TD	16	°F

Summer Design Conditions

Outside db	91	°F
Inside db	75	°F
Design TD	16	°F
Daily range	L	
Relative humidity	50	%
Moisture difference	67	gr/lb

Heating Summary

Structure	7739	Btuh
Ducts	4974	Btuh
Central vent (85 cfm) Outside air	1472	Btuh
Humidification	0	Btuh
Piping	0	Btuh
Equipment load	14185	Btuh

Sensible Cooling Equipment Load Sizing

Structure	22893	Btuh
Ducts	6539	Btuh
Central vent (85 cfm) Outside air	1490	Btuh
Blower	0	Btuh
Use manufacturer's data	n	
Rate/swing multiplier	0.96	
Equipment sensible load	29655	Btuh

Infiltration

Method	Simplified
Construction quality	Average
Fireplaces	0

	Heating	Cooling
Area (ft²)	2280	2280
Volume (ft³)	20520	20520
Air changes/hour	0.32	0.16
Equiv. AVF (cfm)	109	55

Latent Cooling Equipment Load Sizing

Structure	3901	Btuh
Ducts	2689	Btuh
Central vent (85 cfm) Outside air	3897	Btuh
Equipment latent load	10486	Btuh
Equipment Total Load (Sen+Lat)	40141	Btuh
Req. total capacity at 0.80 SHR	3.1	ton

Heating Equipment Summary

Make	Generic
Trade	
Model	AFUE 100
AHRI ref	

Efficiency	100	AFUE
Heating input	4.2	kW
Heating output	14185	Btuh
Temperature rise	10	°F
Actual air flow	1327	cfm
Air flow factor	0.104	cfm/Btuh
Static pressure	0.50	in H2O
Space thermostat		

Cooling Equipment Summary

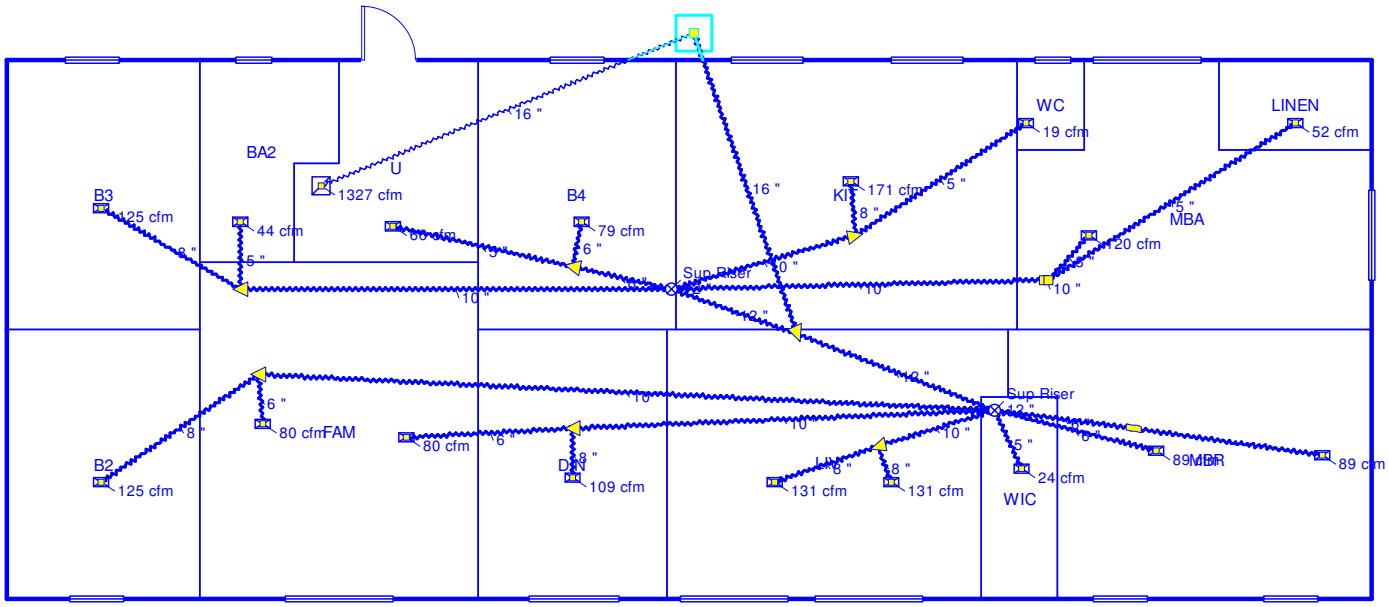
Make	Generic
Trade	
Cond	SEER 13.0
Coil	
AHRI ref	

Efficiency	11.6 EER, 13 SEER	
Sensible cooling	29655	Btuh
Latent cooling	7414	Btuh
Total cooling	37069	Btuh
Actual air flow	1327	cfm
Air flow factor	0.045	cfm/Btuh
Static pressure	0.50	in H2O
Load sensible heat ratio	0.75	

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

N

Sheet A



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 Unprotected
Occupancy:	Single Family Dwelling
Allowable No. of Floors:	One
Wind Velocity:	150 mph vult 116 vasd Exp C
Fire Rating of Ext. Walls:	0 hr
Plan No.:	MFT2437-ME764-750-108
Allow. Floor Load:	40 PSF
Approval Date:	7/29/2019
Manufacturer:	Destiny industries, LLC

Job #: ME764-750-108 FL
Performed by AMS of Indiana, Inc. for:
DESTINY HOMES
ME764-750-108 FL

AMS of Indiana, Inc.
3933 E. Jackson Blvd.
Elkhart, IN 46516
Phone: (574) 293-5526 Fax: (574) 294-1366
eng-ams@comcast.net

Scale: 1 : 128

Right-Suite® Universal 2018
18.0.32 RSU02009
2019-Jul-19 12:47:26
...Homes\ME764-750-108 FL(OMIT)...

Duct System Summary
Entire House
AMS of Indiana, Inc.

Job: ME764-750-108 FL
Date: 7/19/19
By: AMS of Indiana, Inc.

3933 E. Jackson Blvd., Elkhart, IN 46516 Phone: (574) 293-5526 Fax: (574) 294-1366 Email: eng-ams@comcast.net

Project Information

For: DESTINY HOMES
ME764-750-108 FL

	Heating	Cooling
External static pressure	0.50 in H2O	0.50 in H2O
Pressure losses	0.30 in H2O	0.30 in H2O
Available static pressure	0.20 in H2O	0.20 in H2O
Supply / return available pressure	0.151 / 0.049 in H2O	0.151 / 0.049 in H2O
Lowest friction rate	0.059 in/100ft	0.059 in/100ft
Actual air flow	1327 cfm	1327 cfm
Total effective length (TEL)	340 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
B2	h	1194	125	99	0.059	8.0	0x 0	VlFx	91.2	165.0	st12
B3	h	1194	125	91	0.065	8.0	0x 0	VlFx	68.1	165.0	st3
B4	h	754	79	76	0.073	6.0	0x 0	VlFx	43.3	165.0	st4
BA2	h	419	44	30	0.066	5.0	0x 0	VlFx	62.9	165.0	st3
DIN	c	2425	82	109	0.066	8.0	0x 0	VlFx	65.8	165.0	st11
FAM	c	1783	65	80	0.064	6.0	0x 0	VlFx	72.3	165.0	st11
FAM-A	c	1783	65	80	0.061	6.0	0x 0	VlFx	83.3	165.0	st12
KIT	c	3791	135	171	0.071	***8.0***	***0x 0***	VlFx	48.8	165.0	st5
LINEN	h	502	52	20	0.059	5.0	0x 0	VlFx	72.4	185.0	st7
LIV	c	2908	75	131	0.070	8.0	0x 0	VlFx	52.4	165.0	st10
LIV-A	c	2908	75	131	0.071	8.0	0x 0	VlFx	48.4	165.0	st10
MBA	h	1148	120	71	0.062	8.0	0x 0	VlFx	59.5	185.0	st7
MBR	h	852	89	86	0.071	6.0	0x 0	VlFx	57.9	155.0	st8
MBR-A	h	852	89	86	0.078	6.0	0x 0	VlFx	48.8	145.0	st8
U	h	628	66	35	0.070	5.0	0x 0	VlFx	51.0	165.0	st4
WC	h	180	19	18	0.068	5.0	0x 0	VlFx	57.2	165.0	st5
WIC	h	233	24	11	0.081	5.0	0x 0	VlFx	43.1	145.0	st8

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 Unprotected
Occupancy: Single Family Dwelling
Allowable No. of Floors: One
Wind Velocity: 150 mph vult 116 vasd Exp C
Fire Rating of Ext. Walls: 0 hr
Plan No.: MFT2437-ME764-750-108
Allow. Floor Load: 40 PSF
Approval Date: 7/29/2019
Manufacturer: Destiny industries, LLC

Bold/italic values have been manually overridden

Lumber design values are in accordance with ANSI/TPI 1 section 6.3
These truss designs rely on lumber values established by others.

RE: MONO_PEAK -

MiTek USA, Inc.
16023 Swingley Ridge Rd
Chesterfield, MO 63017
314-434-1200

Site Information:
Customer Info: . Project Name: Model:
Lot/Block: Subdivision:
Address: Address
City: City State: State

Name Address and License # of Structural Engineer of Record, If there is one, for the building.
Name: License #:
Address:
City: State:

General Truss Engineering Criteria & Design Loads (Individual Truss Design Drawings Show Special Loading Conditions):

Design Code: FBC2014/TPI2007
Design Program: MiTek 20/20 7.6
Wind Code: ASCE 7-10
Wind Speed: 150 mph
Roof Load: 34.0 psf
Floor Load: N/A psf

This package includes 1 individual, Truss Design Drawings and 0 Additional Drawings.
With my seal affixed to this sheet, I hereby certify that I am the Truss Design Engineer and this index sheet conforms to 61G15-31.003, section 5 of the Florida Board of Professional Engineers Rules.

No.	Seal#	Truss Name	Date
1	I30057782	SWM0040A	6/5/17

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APPROVED BY NTA INC.

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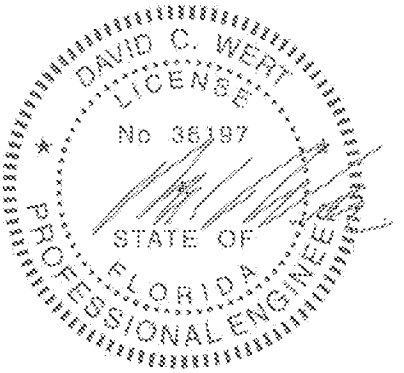
Wind Velocity:	150 mph vult 116 vasd Exp C
Fire Rating of Ext. Walls:	0 hr
Plan No.:	MFT2437-ME764-750-108
Allow. Floor Load:	40 PSF
Approval Date:	7/29/2019
Manufacturer:	Destiny industries, LLC

The truss drawing(s) referenced above have been prepared by MiTek USA, Inc. under my direct supervision based on the parameters provided by Southern Wood Components.

Truss Design Engineer's Name: Wert, David
My license renewal date for the state of Florida is FEBRUARY 28, 2019.



IMPORTANT NOTE: The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which were given to MiTek. Any project specific information included is for MiTek's customers file reference purpose only, and was not taken into account in the preparation of these designs. MiTek has not independently verified the applicability of the design parameters or the designs for any particular building. Before use, the building designer should verify applicability of design parameters and properly incorporate these designs into the overall building design per ANSI/TPI 1, Chapter 2.

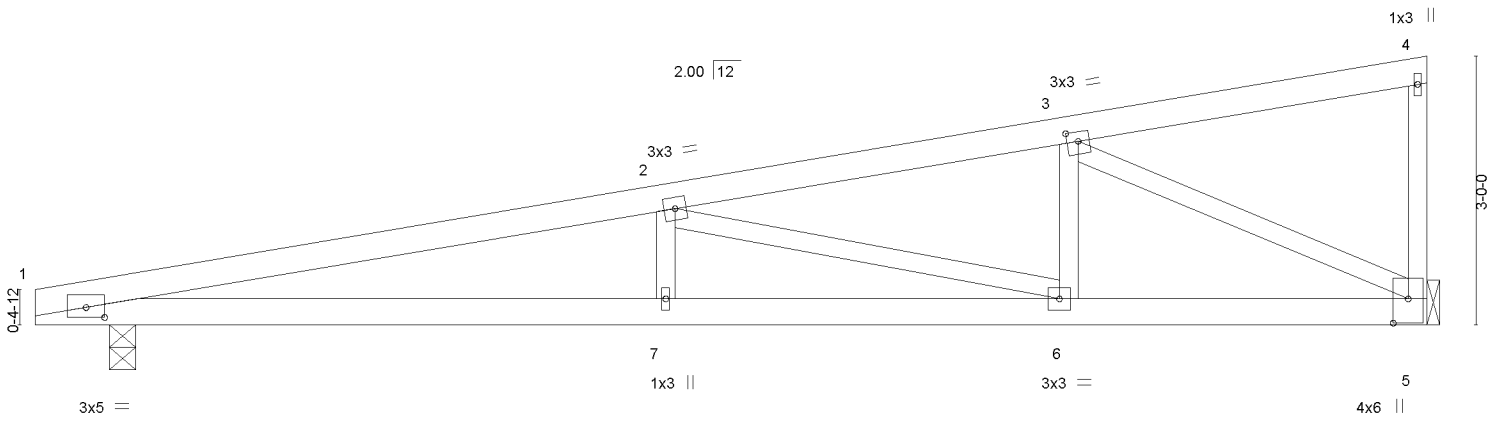
June 5,2017

Job	Truss	Truss Type	Qty	Ply	
MONO_PEAK	SWM0040A	MONO TRUSS	1	1	I30057782
					Job Reference (optional)

Southern Wood Components, Moultrie, GA 31776 — 7.640 s Apr 22 2016 MiTek Industries, Inc. Mon Jun 05 13:15:57 2017 Page 1

ID:tRsY1Yajm35jS?BW3tBTZ4ypJku-yD?Fi6WQcm8MmJ0WLHaSql4gTmZIAD7_mkpIbQz9K0W

-0-10-0 / 0-10-0 — 6-2-8 / 6-2-8 — 10-8-8 / 4-6-0 — 14-8-8 / 4-0-0



6-2-8 / 6-2-8 — 10-8-8 / 4-6-0 — 14-8-8 / 4-0-0

Plate Offsets (X,Y)-- [1:0-2-8,0-1-6], [3:0-1-8,0-1-4], [5:0-3-4,0-2-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.00	TC	0.61	Vert(LL)	0.16	7	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.00	BC	0.57	Vert(TL)	-0.17	7	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.40	Horz(TL)	0.03	5	n/a	n/a		
BCDL	7.0	Code FBC2014/TPI2007		(Matrix-M)							Weight: 61 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
WEBS	2x3 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 4-5-1 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 4-8-14 oc bracing.

REACTIONS. (lb/size) 1=555/0-3-8 (min. 0-1-8), 5=495/Mechanical
Max Horz 1=196(LC 6)
Max Uplift 1=-462(LC 6), 5=-447(LC 6)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-2=-1456/1372, 2-3=-786/721
BOT CHORD	1-7=-1508/1407, 6-7=-1506/1408, 5-6=-800/761
WEBS	3-6=-176/293, 3-5=-857/900, 2-6=-677/737

NOTES-

1) Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=116mph; TCDL=4.2psf; BCDL=4.2psf; h=33ft; B=49ft; L=15ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) zone; cantilever left exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 462 lb uplift at joint 1 and 447 lb uplift at joint 5.
5) "Fix heels only" Member end fixity model was used in the analysis and design of this truss.

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

APPROVED BY NTA INC.

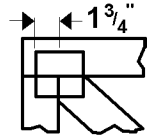
Const. Type:	VB Unprotected
Occupancy:	Single Family Dwelling
Allowable No. of Floors:	One
Wind Velocity:	150 mph vult 116 vasd Exp C
Fire Rating of Ext. Walls:	0 hr
Plan No.:	MFT2437-ME764-750-108
Allow. Floor Load:	40 PSF
Approval Date:	7/29/2019
Manufacturer:	Destiny industries, LLC

Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies

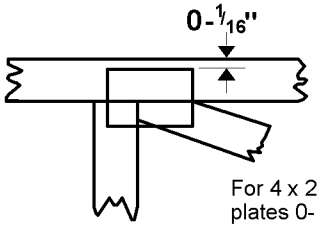
MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Symbols

PLATE LOCATION AND ORIENTATION



Center plate on joint unless x, y offsets are indicated. Dimensions are in ft-in-sixteenths. Apply plates to both sides of truss and fully embed teeth.



For 4 x 2 orientation, locate plates 0- 1/16" from outside edge of truss.

This symbol indicates the required direction of slots in connector plates.

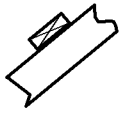
*** Plate location details available in MiTek 20/20 software or upon request.**

PLATE SIZE

4 x 4

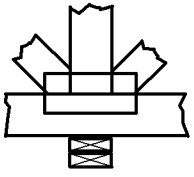
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



Indicated by symbol shown and/or by text in the bracing section of the output. Use T or I bracing if indicated.

BEARING

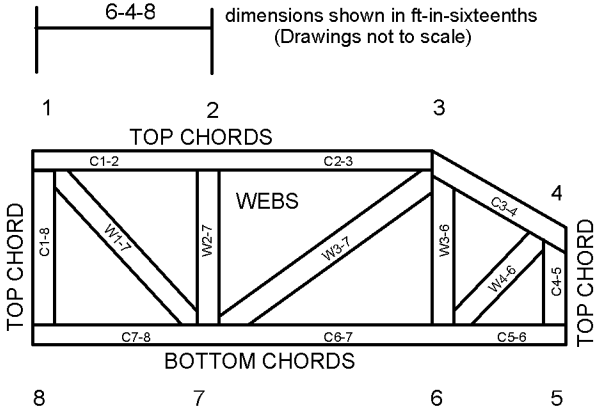


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TPI1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-89: Design Standard for Bracing.
BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

Numbering System



JOINTS ARE GENERALLY NUMBERED/LETTERED CLOCKWISE AROUND THE TRUSS STARTING AT THE JOINT FARTHEST TO THE LEFT.

CHORDS AND WEBS ARE IDENTIFIED BY END JOINT NUMBERS/LETTERS.

These prints comply with the Florida Manufactured Building Act and adopted Codes and Standards for the following criteria:

Const. Type:	VB Unprotected
Occupancy:	Single Family Dwelling
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Plan No.:	MFT2437-ME764-750-108
Allow. Floor Load:	40 PSF
Approval Date:	7/29/2019
Manufacturer:	Destiny industries, LLC

PRODUCT CODE APPROVALS

ICC-ES Reports:

APPROVED BY NTA, INC.

ESR-1311, ESR-1352, ESR-1988, ESR-2508,
ER-3907, ESR-2362, ESR-1397, ESR-3282

Trusses are designed for wind loads in the plane of the truss unless otherwise shown.

Lumber design values are in accordance with ANSI/TPI 1 section 6.3 These truss designs rely on lumber values established by others.

MiTek

MiTek Engineering Reference Sheet: MII-7473 rev. 10/03/2015

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cut members to bear tightly against each other.
6. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
13. Top chords must be sheathed or purlins provided at spacing indicated on design.
14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
15. Connections not shown are the responsibility of others.
16. Do not cut or alter truss member or plate without prior approval of an engineer.
17. Install and load vertically unless indicated otherwise.
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
19. Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.

Supply Trunk Detail Table

Name	Trunk Type	Htg (cfm)	Clg (cfm)	Design FR	Veloc (fpm)	Diam (in)	H x W (in)	Duct Material	Trunk
st3	Peak AVF	168	121	0.065	309	10.0	0 x 0	VinlFlx	st2
st4	Peak AVF	144	111	0.070	413	8.0	0 x 0	VinlFlx	st2
st5	Peak AVF	154	189	0.068	347	10.0	0 x 0	VinlFlx	st2
st6	Peak AVF	172	91	0.059	316	10.0	0 x 0	VinlFlx	st2
st7	Peak AVF	172	91	0.059	316	10.0	0 x 0	VinlFlx	st6
st10	Peak AVF	149	262	0.070	481	***10.0***	***0*** x ***0***	VinlFlx	st8
st11	Peak AVF	147	190	0.064	348	10.0	0 x 0	VinlFlx	st8
st12	Peak AVF	190	180	0.059	348	10.0	0 x 0	VinlFlx	st8
st2	Peak AVF	639	512	0.059	813	***12.0***	***0*** x ***0***	VinlFlx	st1
st1	Peak AVF	1327	1327	0.059	950	***16.0***	***0*** x ***0***	VinlFlx	
st8	Peak AVF	688	815	0.059	1038	***12.0***	***0*** x ***0***	VinlFlx	st1

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	1327	1327	82.4	0.059	950	***16.0***	***0***x ***0***		VlFx	

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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Plan No.:	MFT2437-ME764-750-108
Allow. Floor Load:	40 PSF
Approval Date:	7/29/2019
Manufacturer:	Destiny industries, LLC

Bold/italic values have been manually overridden

DESTINY INDUSTRIES MODEL: MFT2437-ME764-750-108

PRODUCT APPROVAL SPECIFICATION SHEET

As required by Florida Statute 553.842 and Florida Administration Code 61G20-3.006, please provide the information and approval numbers on the building components listed below if they will be utilized on the construction project for which you are applying for a permit. We recommend you contact your local supplier should you not know the product approval number for any of the applicable listed products.

Category/Subcategory	Manufacturer	Product Description	Approval Number(s)
1.EXTERIOR DOORS			
A.SWINGING	KINRO	EXTERIOR DOOR	FL 16170 R3
B. SLIDING	KINRO	SLIDING DOORS	FL 2865.2 R11
C. SECTIONAL	NA	NA	NA
D. ROLL UP	NA	NA	NA
E. AUTOMATIC	NA	NA	NA
F. OTHER	NA	NA	NA
2. WINDOWS			
A. SINGLE HUNG	KINRO	WINDOW	FL 993.2 R16
B. HORIZONTAL SLIDER	NA	NA	NA
C. CASEMENT	NA	NA	NA
D. DOUBLE HUNG	NA	NA	NA
E. FIXED	NA	NA	NA
F. AWNING	NA	NA	NA
G. PASS THROUGH	NA	NA	NA
H. PROJECTED	NA	NA	NA
I.MULLION	NA	NA	NA
J.WIND BREAKER	NA	NA	NA
K. DUAL ACTION	NA	NA	NA
L. IMPACT WINDOWS	NA	NA	NA
3.PANEL WALL			
A. SIDING	JAMES HARDI	HARDI PANELS	FL 13192.1 R5
B.SOFFITS	JAMES HARDI	HARDI SOFFIT PANEL	FL 13265.1 R3
C. SHAKE	NA	NA	NA
D. STOREFRONTS	NA	NA	NA
E. CURTAIN WALLS	NA	NA	NA
F.WALL LOUVER	NA	NA	NA
G. GLASS BLOCK	NA	NA	NA
H. MEMBRANE	NA	NA	NA
I. GREENHOUSE	NA	NA	NA
J. VINYL SIDING	NA	NA	NA
K. SIDING OPTIONAL	NA	NA	NA
4. ROOFING PROD.			
A. ASPHALT SHINGLES	OWENS CORNING	OAKRIDGE PRO 30	FL 10674 R13
B. UNDERLAYMENT	ROBETEX INC	UNDERLAYMENT	FL 17194-R2
C. ROOFING FASTENING	SIMPSON	SIMPSON H2.5A	FL10456.2-R4
D. ROOF FASTENING	SIMPSON	SIMPSON LSTA	FL 10852.5-R4
E.METAL ROOF	UNION CORRUGATING	METAL ROOF	FL 20484.2 R1
F. ROOFING TILES	NA	NA	NA
G.ROOFING INSULATION	KNAUF	ROLLED INSULATION	NA
H. WATERPROOFING	TARCO	ICE AND SHEILD ARMOR	FL 10450 R10
I.BUILT UP ROOFING ROOF SYSTEMS	NA	NA	NA
J. RIDGE VENT	GAF	RIDGE VENT	FL6267-R15
K. SGL PLY ROOF SYSTEM	NA	NA	NA
L. ROOFING SLATE	NA	NA	NA

Category/Subcategory	Manufacturer	Product Description	Approval Number(s)
M. CEMENTS-ADHESIVES COATING	DAP	TAR IN TUBE	??
N. LIQUID APPLIED ROOF SYSTEMS	NA	NA	NA
O. ROOF TILE ADHESIVE	NA	NA	NA
P. SPRAY APPLIED POLYURETHANE ROOF	NA	NA	NA
Q. OTHER	NA	NA	NA
5. SHUTTERS			
A. ACCORDION	NA	NA	NA
B. BAHAMA	NA	NA	NA
C. STORM PANELS	NA	NA	NA
D. COLONIAL	NA	NA	NA
E. ROLL-UP	NA	NA	NA
F. EQUIPMENT	NA	NA	NA
G. OTHERS	MID ATLANTIC	LOUVERED	NA
	NA	NA	NA
6. SKYLIGHTS	NA	NA	NA
A. SKYLIGHTS	NA	NA	NA
B.OTHER	NA	NA	NA
7.STRUCTURAL COMPONENTS			
A. WOOD CONNECTORS / ANCHORS	SIMPSON	LSTA12 STRONG TIE	FL 10852.5-R4
B. TRUSS PLATES	MITEK	MT20	FL 2197.4 R6
C. ENGINEERED LUMBER	NA	NA	NA
D. RAILING	NA	NA	NA
E. COOLERS- FREEZERS	NA	NA	NA
F. CONCRETE ADMIXTURES	NA	NA	NA
G. MATERIAL	NA	NA	NA
H. INSULATION FORMS	NA	NA	NA
I. PLASTICS	NA	NA	NA
J. DECK ROOF	NORBOARD	OSB	??
K. WALL	NA	NA	NA
L. SHEDS	NA	NA	NA
M. OTHER	NA	NA	NA
8.NEW EXTERIOR ENVELOPE PRODUCTS			
A.			
B.			

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 Unprotected
Occupancy: Single Family Dwelling
Allowable No. of Floors: One
Wind Velocity: 150 mph vult 116 vasd Exp C
Fire Rating of Ext. Walls: 0 hr
Plan No.: MFT2437-ME764-750-108
Allow. Floor Load: 40 PSF
Approval Date: 7/29/2019
Manufacturer: Destiny industries, LLC

The products listed below did not demonstrate product approval at plan review.I understand that at the time of inspection of these products the following information must be available to the inspector on the jobsite;1) copy of the product approval,2)the performance characteristics which the product was tested and certified to comply with, 3) copy of the applicable manufactures installation requirements. Further I. understand these products may have been removed if approval cannot be demonstrated during inspection.

APPLICANT SIGNATURE X  DATE : 7/26/19