

"Z" FLASHING SHIPPED LOOSE FOR SITE INSTALLATION "Z" FLASHING - BAND BOARD

CERTAINTEED LANDMARK / TAMCO HERITAGE SHINGLES FIRE RESISTANCE:

•UL 790 CLASS A FIRE RESISTANCE •UL CERTIFIED TO MEET ASTM E108 TYPE 1

SIDVING CHART						
CRANE TRIPLE 6 & DOUBLE 7 SOLID CORE SIDING	BOTTOM ROW OF SIDING SHIPPED					
D4, D4.5 & D5 VINYL SIDING	BOTTOM 2 ROWS OF SIDING SHIPPED					

VENTILATION CALCULATIONS

NET FREE AIR PER SQ.FT. RIDGE VENT: LINEAL FOOT = 8.06 SQFT. NET FREE AIR VENTILATED SOFFIT: 0.041 NET FREE AIR PER SQ.FT. LINEAL FOOT = 5.08 SQFT. NET FREE AIR

1100 RIVES ROAD, MARTINSVILLE, VA 24112 (276) 632–7100 WWW.NATIONWIDECUSTOMHOMES.COM

T NO.: 196879
| PROCESS DATE & BY: 6/25/24 CR | PLOTTED: 7/56/2024 2-48 FM

PURCHASER: HOMES BY VANDERBUILT
JOB NO.: MS4-24 | CONTRACT NO.
BLACKLINE DATE & BY: | PLAN REVISION DATE: 7.26.2024 BXK01

PLAN NAME: HEARTLAND II

COLLECTON/SERIES: HEARTLAND

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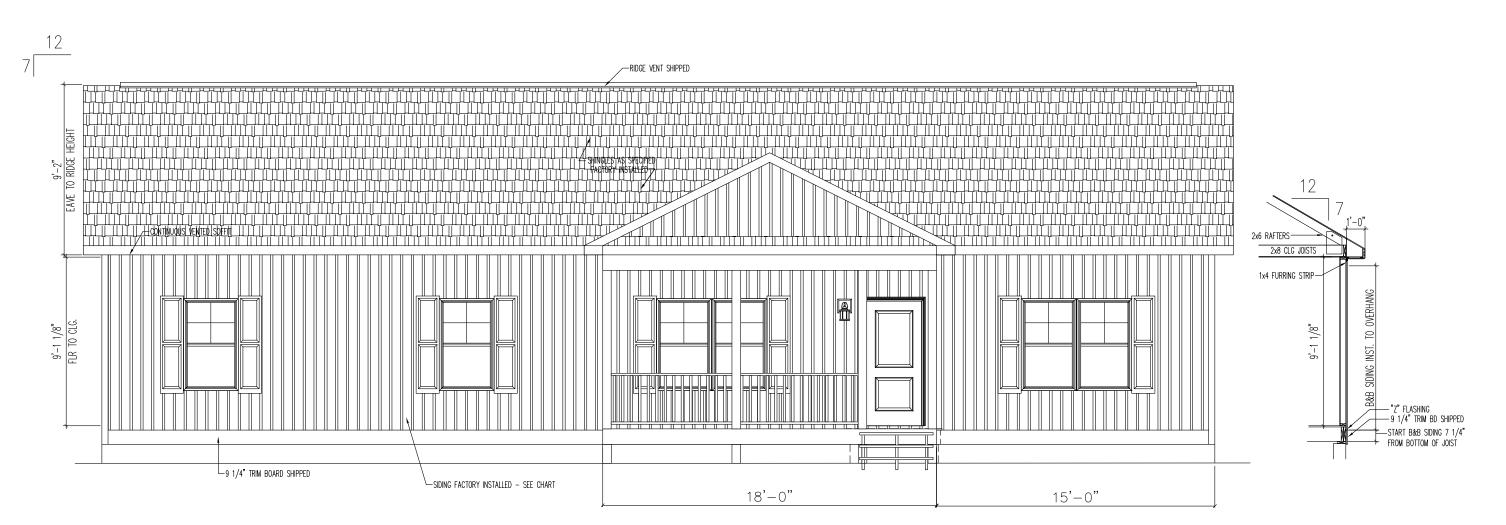
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EXTERIOR PORTFOLIO VINYL SIDING & SOFFIT FLAME SPREAD-PVC: <25 (ASTM E84) PER SECTION

R302.1.2 OF THE 2018 NORTH CAROLINA RESIDENTIAL CODE SMOKE DENSITY-PVC: <450 (ASTM E84)

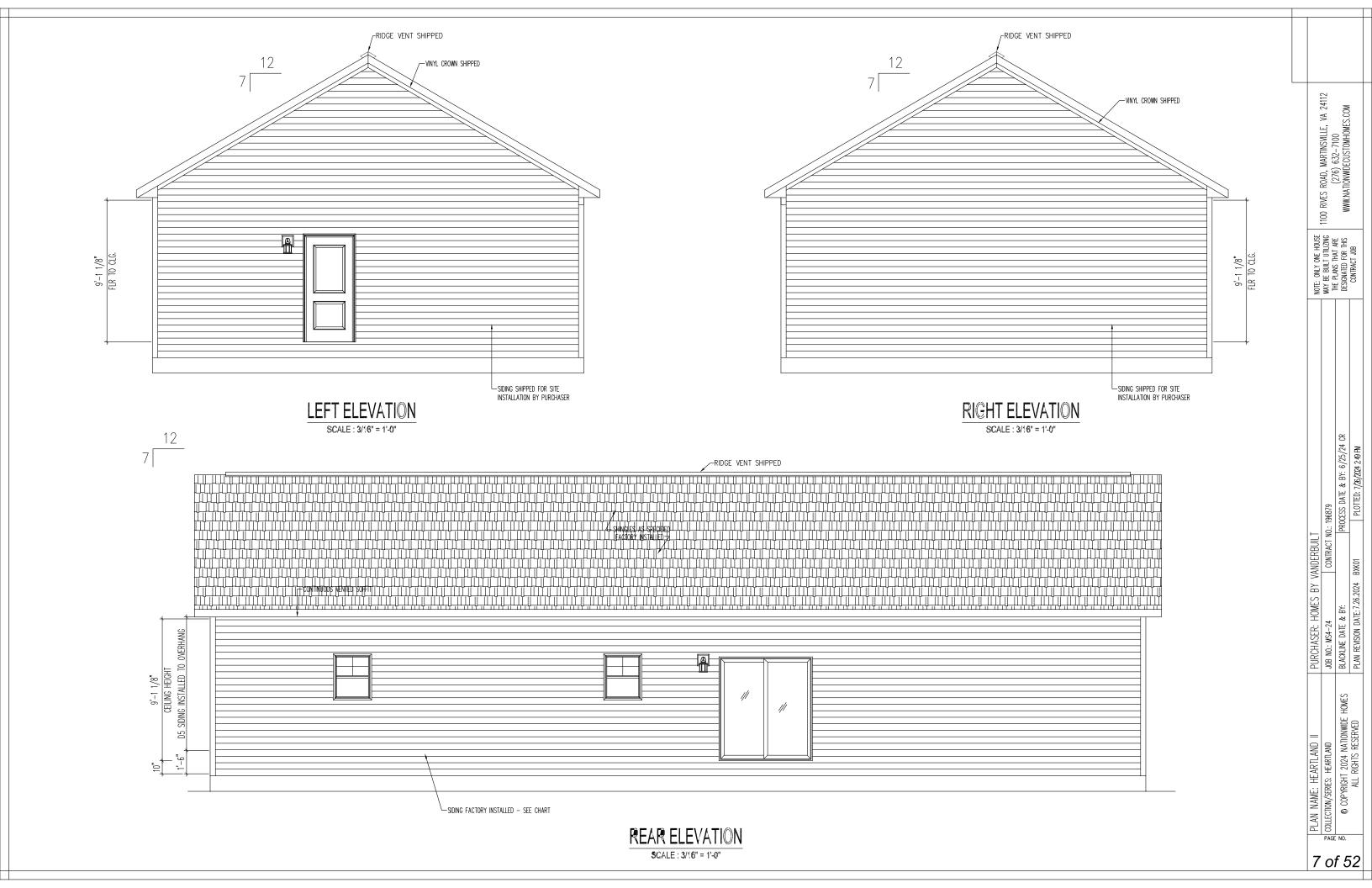
NOTE:

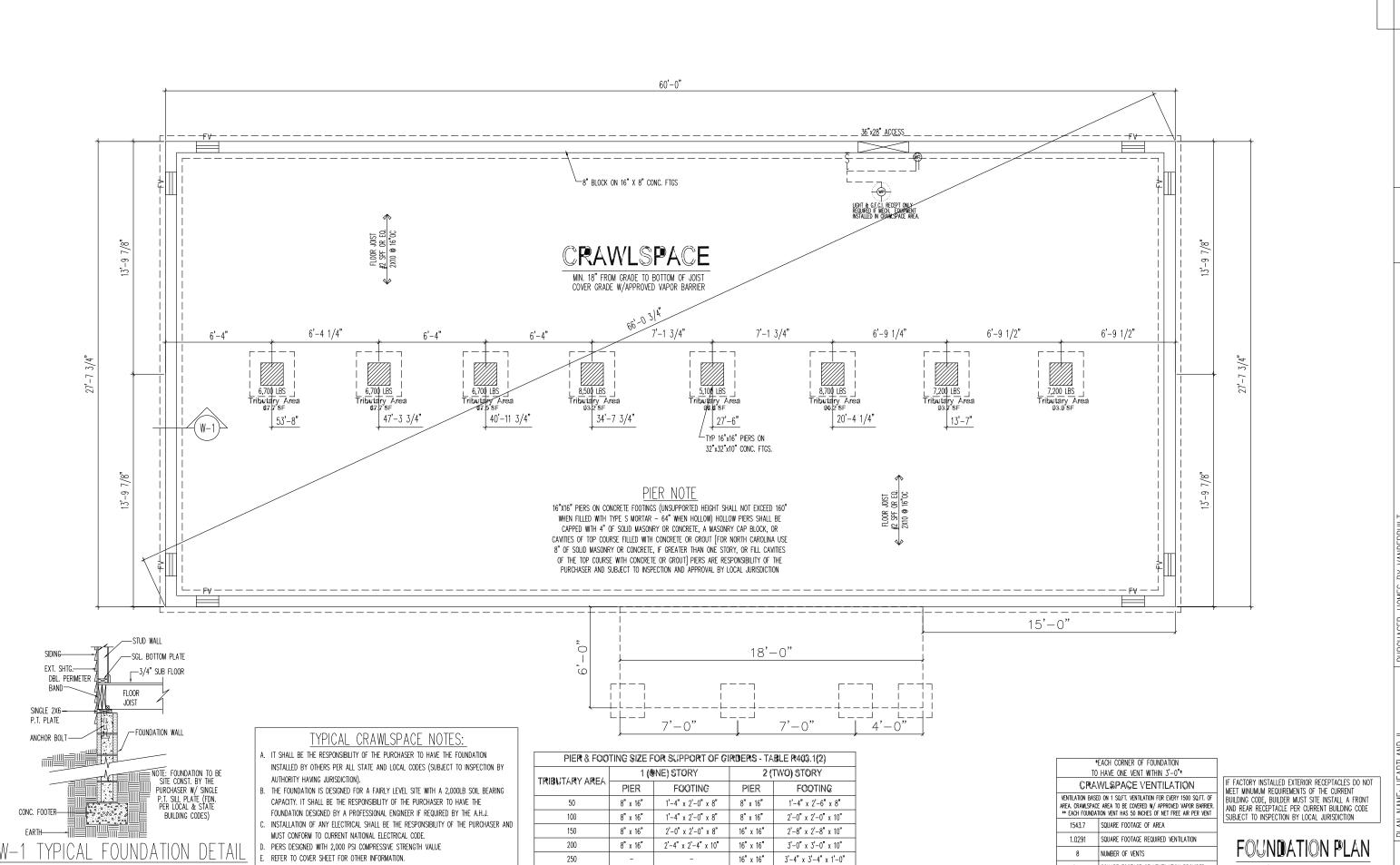
SOFFIT MATERIALS FOR THIS UNIT ASSUMES THAT THE BUILDING FACE WILL BE 10 FT. OR GREATER FROM THE PROPERTY LINE WHEN INSTALLED ON SITE. WHERE THE BUILDING FACE IS LESS THAN 10 FT. FROM THE PROPERTY LINE, THE UNDERLAYMENT MATERIALS AND VENTILATION IN ACCORDANCE WITH SECTION R302.1.1 OF THE NORTH CAROLINA RESIDENTIAL CODE, MUST BE PROVIDED & INSTALLED AT THE SITE WITH INSPECTION AND APPROVAL BY THE LOCAL JURISDICTION



OMIT SALEM TRIM

FRONT ELEVATION SCALE : 3/16" = 1'-0"





3'-8" x 3'-8" x 1'-2"

16" x 16"

HOSE BIBS SHALL BE RESPONSIBILITY OF THE PURCHASER, WHEN NOT FACTORY INSTALLED

1100 RIVES ROAD, MARTINSVILLE, VA 24112 (276) 632—7100 WWW.NATIONWIDECUSTOMHOMES.COM T NO.: 196879
| PROCESS DATE & BY: 6/25/24 CR
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FOUNDATION PLAN SCALE: 3/16" = 1'-0"

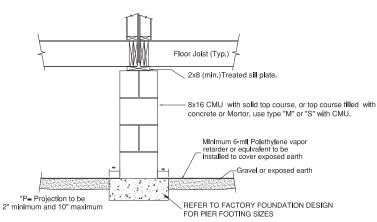
SQUARE FOOTAGE OF VENTILATION PROVIDED

N.C. Foundation Cross Section- 90 to 130 Mph 1-1/2, 2, OR 2-1/2 STORY 1/2" diameter anchor bolt embedded into wall top courses with a minimum of 7" deep anchor with washers, in 115-129 mph zones. OPTIONAL A minimum of 15" deep anchor with washers, (2"x 2" x 1/8" washers in 130 mph) Minimum 6" strip of 7/16" OSB continuous band Anchor bolts within 12" from corners and ends of sill plates. Anchor bolt spacing: fastened to both sill plate and rim joist with 8d nails 72" O.C. - 90-129 MPH or 15ga x 7/16x 1 1/2 staples 5" O.C. 48" O.C. - 130 Mph Rim Joist to Sill plate fastened Floor Joist (Typ.), 8d nails- 5" O.C. Max. 2x6 (min.)Treated sill plate. Sill plate bolt may be countersunk with double sill plate only. Refer to table 404.1.1(1) in the North Carolina Residential Code forbackfill requirements Poured wall (typ) or 8x16 CMU wall with top course filled with concrete or Mortor, use type "M" or "S" with CMU. Foundation dampproofing required where the outside grade is higher than the inside grade. Minimum 6-mil Polethylene vapor retarder or equivalent to be nstalled to cover exposed earth -Gravel or exposed earth *P= Projection to be ∞ 2" minimum and 8" maximum Continuous rebar in footings when required per soil conditions and local code.

BOTTOM OF FOOTINGS TO BE A MIN. OF 12" BELOW GRADE

Applicable to Seismic Zone C with minimum soil bearing capacity of 1500 PSF. Concrete 2500-PSI. min. Wind speed up to 130 Mph Exp. C. Refer to Chapter 4 in the North Carolina Residential Code for specific foundation application or CMU Construction. Refer to the wind bracing pages for additional tie down and braced wall requirements.

N.C. Pier Cross Section- All Zones- UP TO 3 STORIES

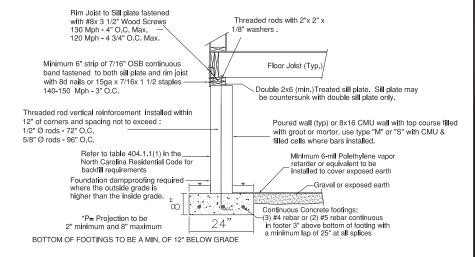


BOTTOM OF FOOTINGS TO BE A MIN. OF 12" BELOW GRADE

R404.1.5.4Piers.

The unsupported height of masonry piers shal Inot exceed 10 times their least dimension. When structural clay tile or hollow concrete masonry units are used for isolated piers to support beams and girders, the cellular spaces shall be filled solidly with concrete or Type M or S mortar, except that unfilled hollow piers may be used if their unsupported height is not more than four times their least dimension. When hollow masonry units are solidly filled with concrete or Type M or S mortar, the allowable compressive stress may be increased as provided in Table 806.9.

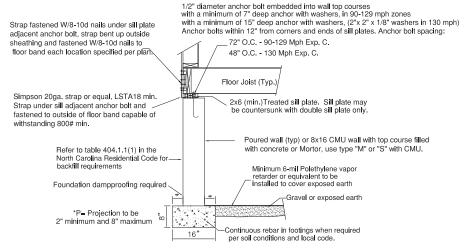
N.C. High Wind Foundation Cross Section- 140 to 150 Mph 1-1/2, 2, OR 2-1/2 STORY



Applicable to Seismic Zone C, D0, D1 with minimum soil bearing capacity of 2500 PSF. Concrete-2500 PSI.min. Wind speed up to 130 Mph maximum. Refer to wind bracing pages for additional fie down requirements at braced wall locations. Refer to Chapters 4 & 45 in the North Carolina Residential Code for specific foundation application or CMU Construction.

REFER TO FIGURE R4504.2(B) FOUNDATION WALL WITH UPLIFT ANCHOR BOLTS FROM FOOTING TO SILL PLATE

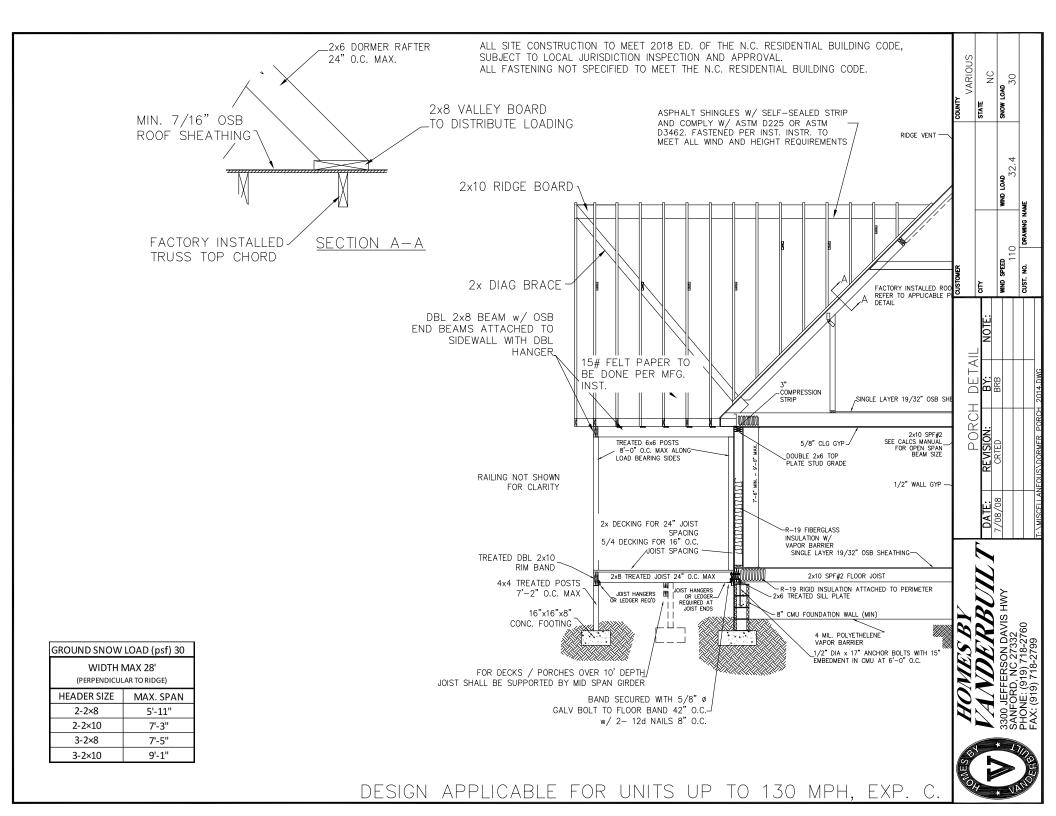
N.C. 800# HOLD DOWN STRAP DEVICE



Applicable to Seismic Zone C with minimum soil bearing capacity of 2500 PSF. Concrete 2500-PSI. min. Wind speed up to 110 Mph Exp. C. Refer to Chapter 4 In the North Carolina Residential Code for specific foundation application or CMU Construction.

Refer to the wind bracing pages for additional tie down and braced wall requirements.

S 20 20 ALI SNOW QW \exists 150 SPEED 110 S S <u>N</u> UNDATI EVISION: 징



DESIGN INFORMATION USE GROUP R-3TYPE VB CONSTRUCTION FLOOR LOAD(S) 40/10 1st 30/10 ROOF LOAD 20 (ATTIC LIVE LOAD: 20 LBS FOR STORAGE /30 LBS FOR CAPE) GROUND SNOW LOAD WIND LOAD 120 mph Vult / 93 mph Vasd $^{(1)(2)(3)(4)}$ SEISMIC DESIGN С С **EXPOSURE** CLIMATE ZONE 4a MAXIMUM DESIGNED MEAN ROOF HEIGHT 18'-0"

FOOTNOTES:

- IF 115Vuit/89Vasd MPH STRUCTURE MUST BE LOCATED AT AN ELEVATION OF LESS THAN 2,700 FEET IN MOUNTAIN REGIONS.
- IF 120Vuit/93Vasd MPH STRUCTURE MUST BE LOCATED AT AN ELEVATION OF 2,700 TO LESS THAN 3.000 FEET IN MOUNTAIN REGIONS.
- IF 130Vult/101Vasd MPH STRUCTURE MUST BE LOCATED AT AN ELEVATION OF 3.000 TO LESS THAN 3,500 FEET IN MOUNTAIN REGIONS.
- IF 140Vult/108Vasd MPH STRUCTURE MUST BE LOCATED AT AN ELEVATION OF 3,500 TO LESS THAN 4,500 FEET IN MOUNTAIN REGIONS
- 150Vult/116Vgsd MPH STRUCTURE MUST BE LOCATED AT AN ELEVATION OF 4.500 FEET OR GREATER IN MOUNTAIN REGIONS

MIND BORNE DEBRIS AREA'S: HURRICANE SHUTTERS (IF REQUIRED) SHALL BE SUPPLIED AND SITE INSTALLED BY THE PURCHASER.

NOTICE:

IT IS THE RESPONSIBILITY OF THE PURCHASER TO INSURE THAT THE ATTACHED PLANS CONFORM TO LOCAL ORDINANCES IN RESPECT TO BUILDING SIZE, HEIGHT, SETBACKS, OR AESTHETICS WHICH ARE ENFORCED BY THE LOCAL JURISDICTION

PLANS ARE EXTRACTED FROM APPROVED SYSTEMS DOCUMENTATION AND CAN NOT BE MODIFIED OUTSIDE THE PARAMETERS SET FORTH. ANY CHANGES TO PLANS MUST BE APPROVED BY NATIONWIDE HOMES ENGINEERING DEPARTMENT. ANY MINOR CHANGES OR MODIFICATIONS ARE SUBJECT TO THIRD PARTY INSPECTION.

PHYSICAL ADDRESS: LINE ROAD, CAMERON, NC (HARNETT CO)

CODE CONFORMANCE

NORTH CAROLINA

- NC RESIDENTIAL CODE, 2018 EDITION
- NC ENERGY CODE, 2018 EDITION
- 2017 NC ELECTRICAL CODE

ATTENTION LOCAL INSPECTION DEPARTMENT

IF THIS STRUCTURE IS IN A THERMAL ZONE THAT IS MORE STRINGENT THAN THAT LISTED ON THESE PLANS, IS SET ON PILINGS, OR IS INSTALLED AT A MOUNTAIN REGION OR COASTAL HIGH HAZARD SITE SUCH THAT WIND OR OTHER DESIGN PARAMETERS ARE INCREASED, THE DESIGN MUST BE DETERMINED TO BE ADEQUATE FOR THE actual site conditions. Alterations may then be required to bring the home into compliance with THE MORE STRINGENT CONDITIONS.

ATTENTION THIS NOTE APPLIED IF UPPER LEVEL IS COMPLETELY FINISHED

BEFORE A CERTIFICATE OF OCCUPANCY CAN BE ISSUED FOR CAPE MODEL DESIGNS. THE UPPER LEVEL MUST BE FINISHED AND ALL COMPLETION OF THE UPPER LEVEL IS SUBJECT TO SITE INSPECTION WITH APPROVAL BY THE LOCAL JURISDICTION (EXCEPTION: UPPER LEVELS LABELED AS UNFINISHED AND/OR STORAGE ONLY)

INFORMATION

REFER TO "NOTE-2" ON FLOOR PLAN:

A) 3rd PARTY INSPECTION LABEL

CERTIFICATION INFORMATION LOCATED IN ADJACENT SECTIONS ON CLOSET WALL

- PLANS MAY BE MASTERED
- PLANS MAY BE REVERSED

SEE QC MANUAL PAGE 3.79 FOR CRANE LIFTING POINTS

CERTIFICATION

REFER TO "NOTE-1" ON FLOOR PLAN CERTIFICATION INFORMATION LOCATED UNDER THE KITCHEN SINK:

- A) DATA PLATE B) 3rd PARTY INSPECTION LABEL
- C) STATE LABEL
- D) INSULATION CERTIFICATION (NC)

2. DOOR & WINDOW SIZE & LOCATION SUBJECT TO CHANGE ACCORDING TO SITE CONDITIONS. 3. BACKFILL TO BE IN & TAMPED PRIOR TO ARRIVAL OF HOUSE. 4. FOUNDATION DRAINAGE & DAMP-PROOFING TO CONFORM TO CURRENT BUILDING CODE. 5. ALL FLECTRICAL PLUMBING & MECHANICAL INSTALLATION WITHIN THE BASEMENT ARE THE RESPONSIBILITY OF THE

FOOTING NOTES:

. 4" CONC. OVER 6"X6" #8 WIRE MESH.

3. OFFSET CAP TO CARRY SLAB.

PERIMETER OF HOUSE.

THE ENTIRE PERIMETER OF HOUSE.

NEEDS FOR UNIT SETTING.

REQUIREMENTS OF AUTHORITY HAVING JURISDICTION.

TYPICAL TERRACE NOTES:

. INSTALL METAL FLASHING BETWEEN CONC. & WOOD MEMBERS.

OPTIONAL BASEMENT NOTES:

5. TERRACES TO BE CONSTRUCTED AFTER HOUSE IS SET ON FOUNDATION.

UNIT FASTENING REQUIREMENTS:

120 mph Vult / 93 mph Vasd AREAS & LESS:

GENERAL FOUNDATION NOTES:

PURCHASER TO USE MORTAR TYPE "S" OR "M" FOR FOUNDATION CONSTRUCTION AS REQUIRED BY STATE DOOAL BODGES

1. PURCHASER TO TOENAIL PERIMETER OF FLOOR RIM TO SILL PLATE w/ 16d NAILS (NON-CORROSIVE TYPE) AT 16" O.C. FOR THE ENTIRE

2. MODULE TO MODULE GIRDER CONNECTION TO BE SIMPSON SDS25800 (SIMPSON 8" LAG SCREW) AT 32" O/C. LAG SCREWS TO BE SET

MIN. OF 2" INTO GIRDER BY FLOOR CREW. DRIVERS TO SHIM AND COMPLETE PENETRATION OF LAG SCREWS ONCE UNITS ARE SET ON

3. SECOND LEVEL OF 2 STORY MODELS TO BE TOE-NAILED TO THE FIRST LEVEL CEILING PREMIER PLATE w/ 16d NAILS AT 16" O.C. FOR

4. PURCHASER TO REFER TO THE "BUILDER RESPONSIBILITY BULLETIN" FOR INSTRUCTION ON JOB SITE PREPARATION AND PERMANENTED BY

- . GROUND SURFACE WITHIN CRAWLSPACE AREAS TO BE COVERED WITH APPROVED VAPOR BARRIER TO ALLOW 1/1500 VENT REDUCTION AS CALCULATED. VENTS MUST BE LOCATED WITHIN 3'-0" OF EACH CORNER.
- 5. ALL FOUNDATION PLANS ARE SUGGESTIVE ONLY & MUST BE CONST. IN ACCORDANCE WITH STATE & LOCAL CODE

TYPICAL FOUNDATION NOTES

. Exterior concrete to be air entrained with a min. 28 day compressive strength of 3000 psi (or local requirement)

BOTTOM OF ALL FOOTINGS TO BE BELOW FROST LINE AS DETERMINED BY LOCAL BUILDING CODES

CONCRETE TO DEVELOP A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 3000 PSI

6. PURCHASER RESPONSIBLE FOR ACCESSIBILITY INTO LIVING UNIT PER STATE & LOCAL CODE.

1. ALL BASEMENT DOORS & WINDOWS ARE SUPPLIED & INSTALLED BY PURCHASER.

PURCHASER & SUBJECT TO APPROVAL & INSPECTION BY THE LOCAL JURISDICTION.

FOOTINGS BASED ON 2,000psf SOIL BEARING CAPACITY, IF SOIL BEARING CAPACITY IS LOWER, FOOTINGS MUST BE REVISED AS DETERMINED BY

- 4. FOUNDATION DESIGNED FOR PROJECT SPECIFIC WIND ZONE. (3—SEC. GUST) (SEE FLOOR PLAN FOR EXACT WIND SPEED) BRICK CASED DIMENSION NOTES: (IMPORTANT)
- I. An allowance of 5" must be incorporated to each side of the foundation dimensions if Brick cased exterior is selected. Note that LIVING UNIT SIZES ARE NOT ADJUSTED. VERIFY DIMENSIONS W/ NATIONWIDE ENGINEERING DEPARTMENT OF CLARIFICATION OF DIMENSIONS ARE NEEDED PRIOR TO CONSTRUCTION.

PLUMBING NOTES TYPICAL

- ALL SUPPLY, DRAIN, WASTE & VENT LINES TO BE SUPPORTED AT 4'-0" O.C.
- PURCHASER TO SUPPLY & INSTALL ALL DWY & SUPPLY LINE MATERIALS FOR SITE COMPLETION OF PLUMBING CONNECTIONS UNDER FLOOR & BETWEEN TWO STORY STACK-ON SECTIONS. CONNECTIONS TO BE MADE AT WALL ACCESS ON TWO STORIES AS NOTED ON THE FLOOR PLAN WITH ALL CONNECTIONS SUBJECT TO INSPECTION BY LOCAL JURISDICTION.
- ALL VENTS SHALL TERMINATE MINIMUM 12" ABOVE THE ROOF.
- ALL FITTINGS, DRAIN WASTE, & VENT PIPES SHALL BE PVC/DWV PIPE w/ SOLVENT WELDED JOINTS PER THE MANUFACTURER INSTALLATION INSTRUCTIONS.
- ALL PLUMBING (ON 1ST LEVEL) WILL BE FACTORY INSTALLED TO BOTTOM OF FLOOR JOISTS. PURCHASER RESPONSIBLE FOR PLUMBING COMPLETION TO CONFORM TO
- ALL CLEAN OUTS BY PURCHASER PER CURRENT PLUMBING CODE.
- ALL PVC/DWV TO CONFORM TO CURRENT PLUMBING CODE.
- ANTI-SCALD FAUCETS INSTALLED ON ALL SHOWER FAUCETS. PURCHASER RESPONSIBLE FOR FIRE-STOPPING ALL FLOOR CUTOUTS AT TUB TRAPS.
- HEATED WATER TO BATHTUBS/WHIRLPOOL TUBS LIMITED TO 120 DEGREES F. BY WATER TEMPERATURE LIMITING DEVICE CONFORMING TO CURRENT BUILDING CODE.
- SHOWER AND TUB/SHOWER COMBINATION VALVES SHALL BE EQUIPPED WITH CONTROL VALVES OF THE PRESSURE-BALANCE, THERMOSTATIC-MIXING OR COMBINATION PRESSURE-BALANCE/THERMOSTATIC-MIXING VALVE TYPES WITH A HIGH LIMIT STOP IN ACCORDANCE WITH ASSE 1016/ASME A112.1016/CSA B125.16. THE HIGH LIMIT STOP SHALL BE SET TO LIMIT THE WATER TEMPERATURE TO NOT GREATER THAN 120'F
- TEMPERATURE-ACTUATED MIXING VALVES, WHICH ARE INSTALLED TO REDUCE WATER TEMPERATURES TO DEFINED LIMITS. SHALL COMPLY WITH ASSE 1017. SUCH VALVES SHALL RE INSTALLED AT THE HOT WATER SOURCE
- TEMPERATURE—ACTUATED, FLOW-REDUCTION DEVICES, WHERE INSTALLED FOR INDIVIDUAL FIXTURE FITTINGS, SHALL CONFORM TO ASSE 1062, SUCH VALVES SHALL NOT BE USED AS A SUBSTITUTE FOR THE BALANCED PRESSURE. THERMOSTATIC OR COMBINATION SHOWER VALVES REQUIRED FOR SHOWERS IN SECTION P2708.4.
- NOTES FOR WATER HAMMER ARRESTORS "WATER HAMMER ARRESTORS CONFORMING TO ASSE 1010 AND INSTALLED PER MANUFACTURERS INSTRUCTIONS" AND "NOT REQUIRED FOR PLASTIC WATER DISTRIBUTION PIPE"
- A MEANS FOR CONTROLLING INCREASED PRESSURE CAUSED BY THERMAL EXPANSION SHALL BE INSTALLED WHERE REQUIRED IN ACCORDANCE WITH THE FOLLOWING:
- FOR WATER SERVICE SYSTEM SIZES UP TO AND INCLUDING 2 INCHES (51 MM), A DEVICE FOR CONTROLLING PRESSURE SHALL BE INSTALLED WHERE, BECAUSE OF THERMAL EXPANSION, THE PRESSURE ON THE DOWNSTREAM SIDE OF A PRESSURE-REDUCING VALVE EXCEEDS THE PRESSURE-REDUCING VALVE SETTING.
- WHERE A BACKFLOW PREVENTION DEVICE, CHECK VALVE OR OTHER DEVICE IS INSTALLED ON A WATER SUPPLY SYSTEM USING STORAGE WATER HEATING EQUIPMENT SUCH THAT THERMAL EXPANSION CAUSES AN INCREASE IN PRESSURE, A DEVICE FOR CONTROLLING PRESSURE SHALL BE INSTALLED.

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HOME PLANS AND GENERAL NOTES

- 1. THIS UNIT MUST BE CONNECTED TO A PUBLIC WATER SUPPLY & SEWER SYSTEM IF AVAILABLE
- 2. ONLY ONE HOUSE MAY BE BUILT UTILIZING THE PLANS DESIGNED FOR THIS CONTRACT JOB.

ATTENTION LOCAL INSPECTION DEPARTMENT

SET-UP INSTRUCTIONS FOR THIS MODULAR UNIT ARE INCLUDED WITHIN THESE PLANS.

THE FOLLOWING ITEMS HAVE NOT BEEN COMPLETED BY NATIONWIDE HOMES. HAVE NOT BEEN INSPECTED BY NTA Inc. CODE COMPLIANCE MUST BE DETERMINED AT THE LOCAL LEVEL:

- FOUNDATION (INCLUDING FOOTING, WALLS, PIFRS, COLUMNS, DRAINAGE)
- INSTALLATION AND CONNECTION OF WELL AND PUMP OR CONNECTION TO PUBLIC WATER SYSTEM
- INSTALLATION AND CONNECTION OF SEPTIC SYSTEM OR CONNECTION TO PUBLIC SEWER SYSTEM
- INSTALLATION AND CONNECTION OF ELECTRICAL METER AND METER BASE WITH CONNECTION OF ELECTRICAL POWER FROM PUBLIC UTILITIES.
- CONSTRUCTION OF STOOPS, PORCHES, STEPS, WALKS, DRIVEWAYS AND ALL SITE BUILT ATTACHMENTS.
- COMPLETE FINAL GRADE AND LANDSCAPING, INCLUDING PLANTING & SEEDING.
- CARPET SHIPPED PRE-WRAPPED, LABELED BY ROOM FOR BUILDING INSTALLATION.
- HEATING/COOLING SYSTEM SUPPLIED AND SITE INSTALLED BY PURCHASER.
- BASED ON STYLE OF HOUSE, ON—SITE CONNECTIONS AND/OR COMPLETING AS PRESCRIBED BY THE BUILDER OPERATIONS MANUAL. • IF WATER HEATER IS SHIPPED OR OMITTED, PURCHASER IS RESPONSIBLE FOR INSTALLATION TO FACTORY INSTALLED SUPPLY LINES & SITE
- CONNECTION TO ELECTRICAL SUPPLY.
- HIF AN OPTIONAL GAS FIREPLACE IS FACTORY INSTALLED IN MODULAR UNITS, CONNECTION OF A GAS SUPPLY LINE TO THE INSTALLED FIREPLACE DRYER VENTED TO OUTSIDE AIR BY PURCHASER PER SECTION M1502 OF N.C.R.C.
- IF BASEMENT FOUNDATION, BASEMENT STAIRS SUPPLIED & SITE CONST. BY PURCHASER.
- 10-kVA ASSUMED FOR THE HVAC SYSTEM FOR SERVICE PANEL SIZING.
- ኒያያቸያያዘልLL be the responsibility of the purchaser to insure any site completion of an unfinished area to meet light/ventilation, EGRESS, PLUMING AND ELECTRICAL REQUIREMENTS AND SUBJECT TO INSPECTION BY LOCAL AND/OR STATE JURISDICTION.
- Any unused conduits or piping are to be sealed at each end on site by others and is the responsibility of the purchaser. And IS SUBJECT TO INSPECTION AND APPROVAL BY THE LOCAL JURISDICTION.
- · water heater drain pan drain shall extend to the exterior of the building and terminate not less than 6" and not more than 24" ABOVE ADJACENT GROUND SURFACE PER SECTION P2801.6.2 OF THE 2018 NCRC
- COMMUNICATIONS OUTLET SUPPLIED & INSTALLED BY PURCHASER AS REQUIRED BY CURRENT NEC. CHAPTER 8
- ANY FACT, INST, SYSTEMS THAT ARE COMPLETED ON-SITE SHALL BE TESTED AS A WHOLE IN ACCORDANCE WITH 2018 NCRC

RODENT PROOFING

Approval of this document does n

approve any deviation or deviation

uirements of applicable State I

- OPENINGS AND/OR PENETRATIONS AROUND ALL DRAIN PIPES, WATER SUPPLY LINES, AND ELECTRICAL WIRES AND CONDUITS, SHALL BE SEALED IN FACTORY WITH AN APPROVED METAL COLLAR OR OTHER APPROVED MATERIALS THAT ADHERE TO THE ADJOINING STRUCTURE.
- -AT ALL TUB AND SHOWER P-TRAP CUTOUTS OR ACCESSES, IT SHALL BE THE RESPONSIBILITY OF THE PURCHASER TO INSURE THAT THE OPENING/ACCESS IS SEALED ON SITE BY A FABRICATED WOOD PANEL, SECURED TO BLOCKING, AND SEALED TO INSURE NO RODENT PENETRATION CAN OCCUR INTO THE HOME.

REQUIREMENT FOR INTERIOR FINISHES
FLAME SPREAD
MAXIMUM FLAME SPREAD RATING FOR WALL AND CEILING FINISHES SHALL NOT EXCEED 200
- Maximum flame spread rating for insulation
SHALL NOT EXCEED 25
SMOKE DEVELOPMENT
MAXIMUM SMOKE DEVELOPED INDEX FOR WALL AND CEILING FINISHES SHALL NOT EXCEED 450
MAXIMUM SMOKE DEVELOPED RATING FOR INSULATION SHALL NOT EXCEED 450 PER ASTM E 84 OR UL 723
Shall not exceed <u>450</u> per astm e 84 or Ul 723

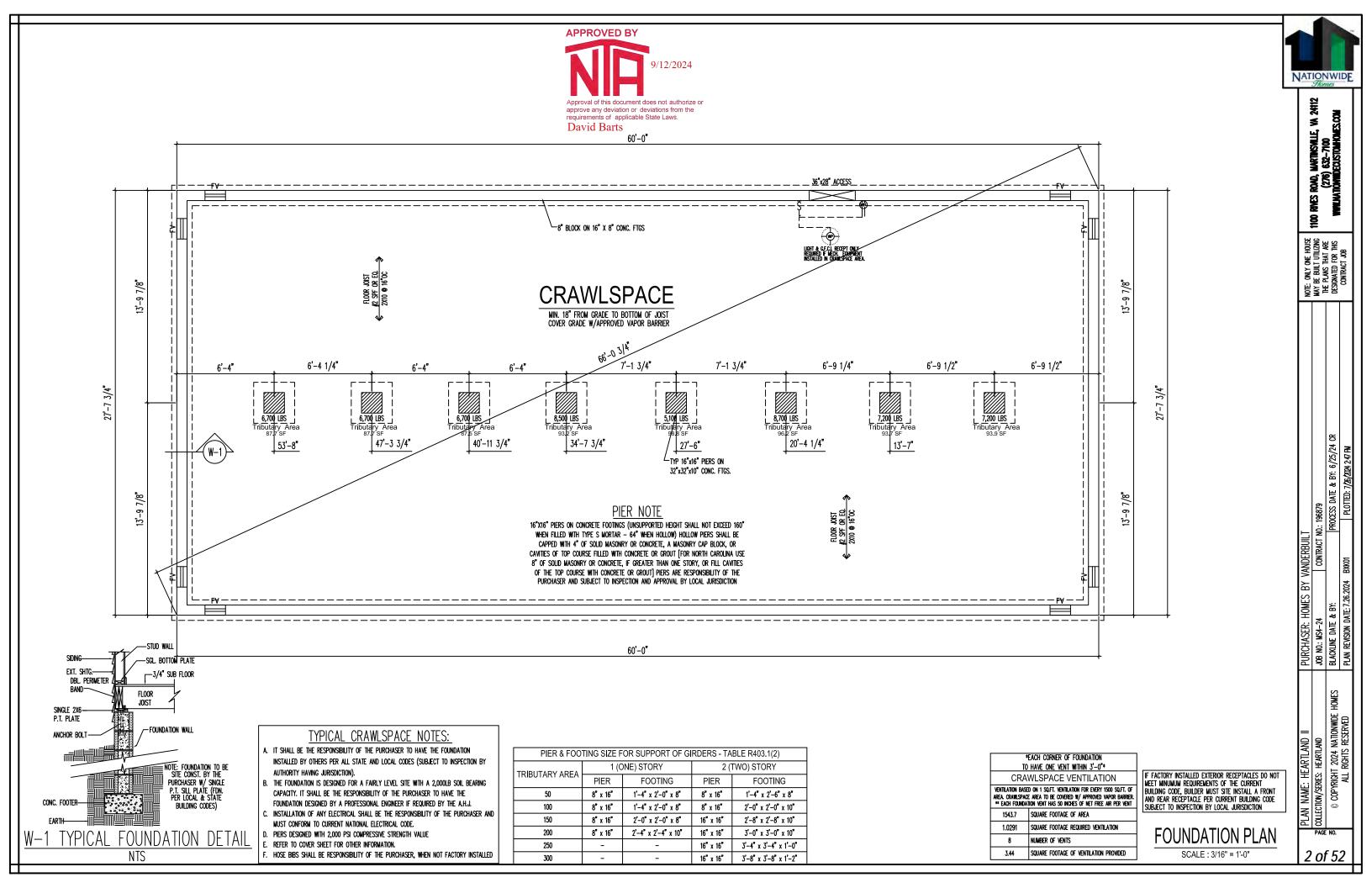
LOOR, WALL, & ROOF SHEATHI	NG
TYPE	SPAN RATIN
- 19/32" T&G OSB	40/20
- 23/32" T&G OSB	48/24
- 7/16" SE OSB	24/16
- 19/32" SE OSB	40/20
- 7/16" ZIP PANEL	24/16
- 7/16" SE OSB	24/16
- 7/16" SE OSB (TECH SHELD RADIANT BARRIER)	24/16
	- 19/32" T&G OSB - 23/32" T&G OSB - 7/16" SE OSB - 19/32" SE OSB - 7/16" ZIP PANEL

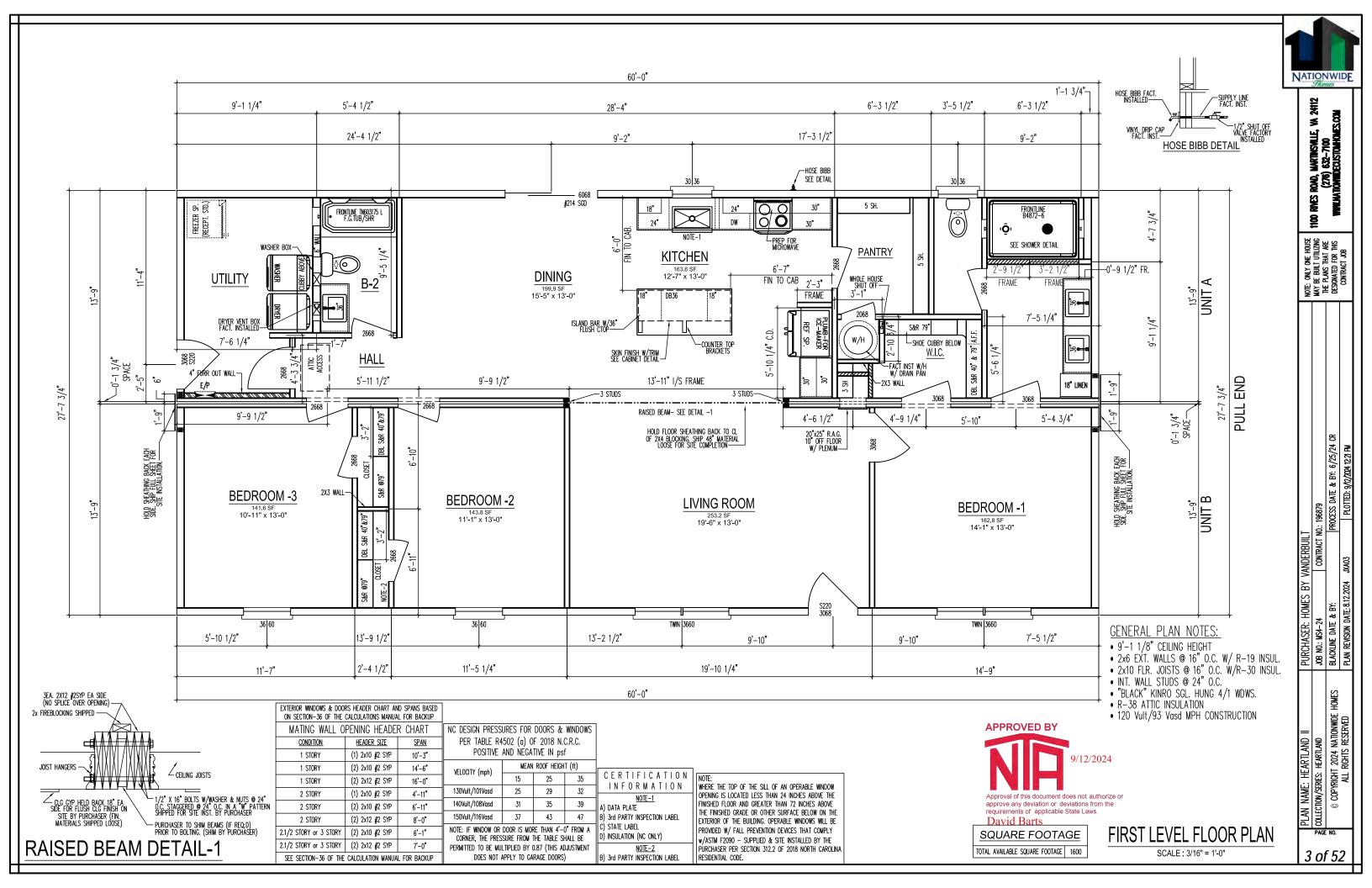
VAPOR BARRIER							
LOCATION	R-VALUE	PAPER					
FLOOR	R-19 R-30	KRAFT-FACED KRAFT-FACED					
WALL	R-13 R-15 R-19 R-21	KRAFT-FACED KRAFT-FACED KRAFT-FACED KRAFT-FACED					
ROOF	R-30 R-38	KRAFT-FACED Kraft-faced					

TYPICAL ELECTRICAL NOTES

- . ALL BRANCH CIRCUITS SUPPLYING 15 & 20 AMPERE OUTLETS IN KITCHENS, FAMILY ROOMS, DINING ROOMS, LIVING ROOMS, PARLORS, LIBRARIES, DENS. BEDROOMS. SUNROOMS. RECREATION ROOMS. CLOSETS. HALLWAYS. LAUNDRY AREAS. OR ANY SIMILAR ROOMS OR AREAS. SHALL BE PROTECTED BY AN ARC-FAULT CIRCUIT INTERRUPTER PER SECTION 210.12 OF THE 2017 NEC (NATIONAL ELECTRICAL CODE).
- BASEMENT PLANS: SMOKE DETECTOR WIRE COLLED UNDER FLOOR FOR SITE INSTALLATION OF SMOKE DETECTOR BY THE PURCHASER IN THE BASEMENT AREA. SMOKE DETECTORS WIRED FOR SIMULTANEOUS OPERATION.
- ALL 125-VOLT, AND 250-VOLT 15-AMPERE & 20-AMPERE RECEPTACLES SHALL BE LISTED TAMPER-RESISTANT RECEPTACLES
- COMMUNICATIONS OUTLET SUPPLIED & INSTALLED BY PURCHASER AS REQUIRED BY CURRENT NEC. CHAPTER 8

SOFFIT MATERIALS FOR THIS UNIT ASSUMES THAT THE BUILDING FACE WILL BE 10 FT. OR GREATER FROM THE FIRE SEPARATION DISTANCE WHEN INSTALLED ON SITE. WHERE THE BUILDING FACE IS LESS THAN 10 FT. FROM THE FIRE SEPARATION DISTANCE, THE UNDERLAYMENT MATERIALS AND VENTILATION IN ACCORDANCE WITH SECTION R302.1.1 OF THE NC RESIDENTIAL CODE, MUST BE PROVIDED & INSTALLED AT THE SITE WITH INSPECTION AND APPROVAL BY THE





120 Vult / 93 Vasd MPH PRESCRIPTIVE BRACED WALL PANEL DETAIL SHEET (PER 2018 N.C.R.C) CIRCUMSCRIBED METHOD 60'-0" 4'-10 1/2" 14'-9 1/4" 7'-10 1/8" 0 **0** UTIL. **KITCHEN** DINING BATH-1 **WIC**

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studs with 8d nails 6" on-center at the edge and 12" on center at the field. If less than 50% but more than 25% of the wall is sheathed, then fasten the OSB sheathing with 8d nails 3" on-center at the edge and 6" on center at the field. If less then 25% of the wall is sheathed, then specific braced wall calculations must be designed per an approved engineering practice in lieu of using the prescriptive method.

* Braced walls shown are per the prescriptive braced wall requirements found in the International North Carolina Residential Code, 2018 Edition.

* Braced Walls (130Vult & Greater): All exterior walls are to be covered with 7/16" OSB sheathing and classified as braced walls. OSB sheathing is to be fastened to

B

4'-4 7/8"

TYPICAL BRACED WALL NOTES:

BEDROOM -1

5'-2 1/8"

EXPOSURE CATEGORY-C / MULTIPLIER= 1.5 EXTERIOR WALLS 16" O.C. W/ 7/16" SHEATHING= 0.93 9'-7" EAVE TO RIDGE HEIGHT / MULTIPLIER= 1.0 CEILING HEIGHT = 9'-1 1/8" / MULTIPLIER = 0.92 BRACED WALL METHOD = CS-WSP

10'-8 3/4"

BEDROOM -2

8'-7 1/2"

60'-0"

21'-4 3/8"

UTILITY

BEDROOM -3

4'-4 1/8'

(B)

BATH-2

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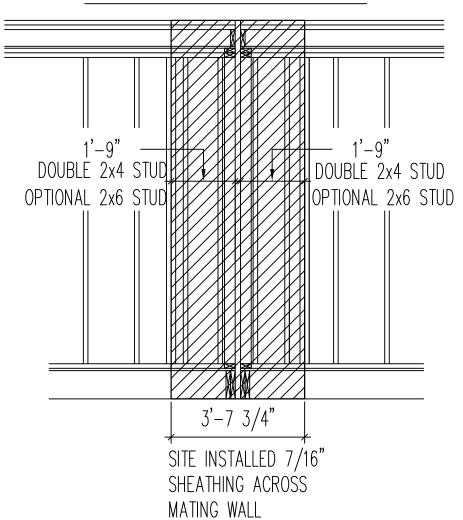
5'-2 1/8"

LIVING ROOM

WALL	DISTANCE BETWEEN B.W.P.s	REQUIIRED LENGTH OF	B.W.P.s	LENGTH OF B.W.P.s	BLOCKING	SHEATHING FASTENING
Α	27'-7 3/4"	5.5'/30x27.64x1.5x0.93x0.92=	6'-6 1/16"	48'-10 1/4"	NO	1.3/4" 16ga. STAPLES 3" EDGE / 6" FIELD
В	27'-7 3/4"	5.5'/30x27.64x1.5x0.93x0.92=	6'-6 1/16"	38'-5 1/2"	NO	1.3/4" 16ga. STAPLES 3" EDGE / 6" FIELD
1	60'-0"	11.0'/60x60x1.5x0.93x0.92=	14'-1 7/16"	24'-5 1/4"	YES	1.3/4" 16ga. STAPLES 3" EDGE / 6" FIELD
2	60'-0"	11.0'/60x60x1.5x0.93x0.92=	14'-1 7/16"	27'-7 3/4"	YES	1.3/4" 16ga. STAPLES 3" EDGE / 6" FIELD

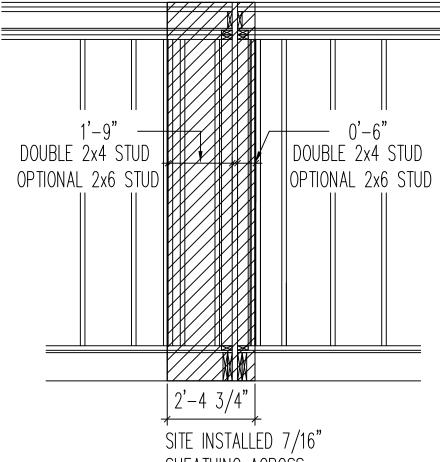


EXT. SHEATHING DETAIL BATH 1 / BEDROOM 1



FASTEN EDGES WITH 1.3/4" 16GA. STAPLES 3" EDGE FASTEN FIELD WITH 1.3/4" 16GA. STAPLES 6" FIELD

EXT. SHEATHING DETAIL BEDROOM 3 / UTILITY



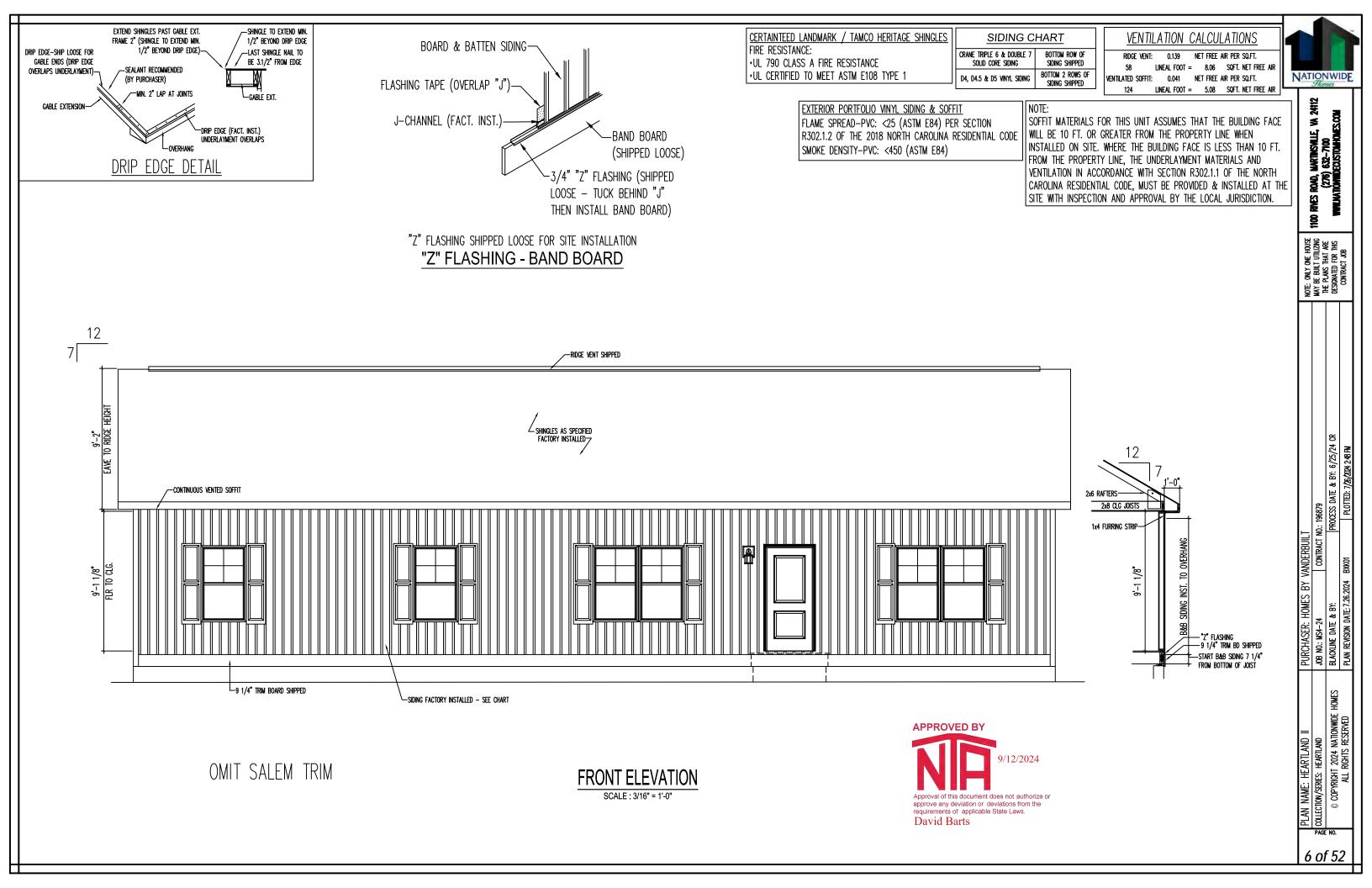
SITE INSTALLED 7/16 SHEATHING ACROSS MATING WALL

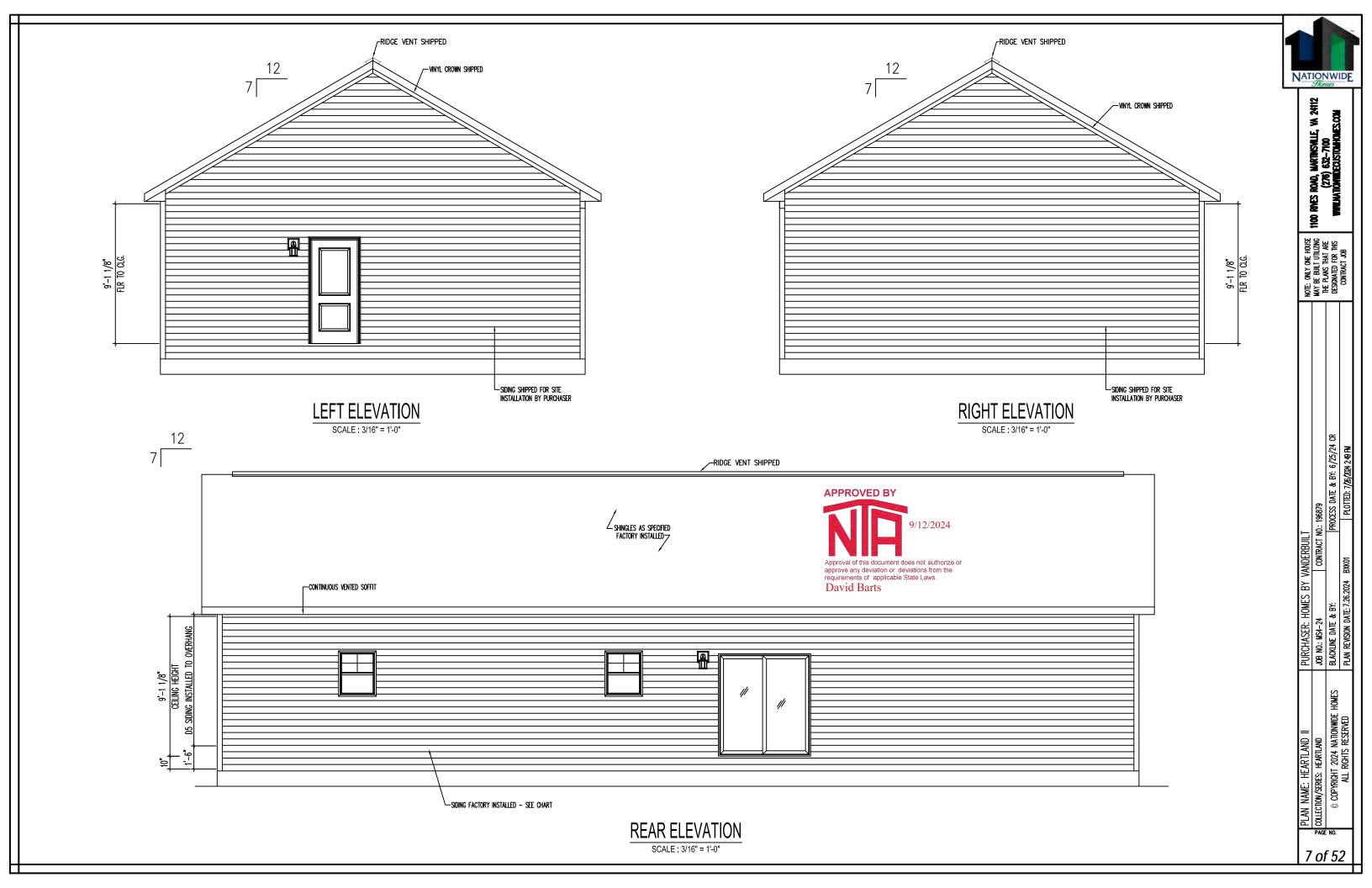
FASTEN EDGES WITH 1.3/4" 16GA. STAPLES 3" EDGE FASTEN FIELD WITH 1.3/4" 16GA. STAPLES 6" FIELD



1100 RIVES ROAD, MARTINSMLLE, VA 24: (276) 632—7100 Winn Matth Middles (374)

artland II Pu	PURCHASER: HOMES BY VANDERBUILT	NDERBUILT	NOTE: ONLY ONE HOUSE	_	
HEARTLAND JOB	JOB NO.: MS4-24	CONTRACT NO.: 196879	MAY BE BUILT UTILIZING		2
2024 NATIONWIDE HOMES BLA	BLACKLINE DATE & BY:	PROCESS DATE & BY: 6/25/24 CR	DESIGNATED FOR THIS	FOR THIS	•
rights reserved	PLAN REVISION DATE: 7.26.2024 BXK01	(KO1 PLOTTED: 7/26/2024 2-48 PM	CONTRACT JOB	CT JOB	





Purchaser responsible for all service entry connections to dwelling unit main service panel.

- Purchaser responsible for performing complete circuit testing prior to service connection for all site wiring.
- Exterior weatherproof recepts and light fixtures shipped for site installation by purchaser.
- All gas pipe lines for gas appliances by purchaser.
- All heating / cooling systems supplied and installed by purchaser per state and local codes. When washer/dryer are located in basement, all installation/connections shall be by Purchaser to meet current
- All wiring to be per National Electric Code (Current Edition).
- Unless other wise specified, mount recept. 14" from subfloor to bottom of boxes, switches 48.1/2", Thermostat 60"
- AC/DC smoke detectors wired for simultaneous operation.

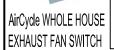
- G.F.C.I. recepts wired with feed thru for ground fault protection to all (Load side) branch circuit recept. Range hoods are ventless unless otherwise specified
- All exhaust fans in baths and at dryer shall be vented to the outside air by the purchaser unless otherwise specified.
- Lock-Out clip on water heater & dishwasher
- Switches & Recept. in bathrooms and dressing rooms over lavinettes to be 46" up. Switches and recepts, over counter to be 46" up unless otherwise specified.
- All electrical boxes on exterior walls to be sealed with foam to eliminate air infiltration.
- Batt insulation glued to attic access cover.
- Insulation shipped for site installation by Purchaser. to be installed in gaps at mating wall seams, and at
- Ceiling angles to be caulked behind crown mould (If crown mould is purchased) All exterior wall horizontal sheathing joints to be sealed.
- Interior walls around the perimeter of basement openings to be insulated with R-15.
- Wiring for phone and TV outlets are the responsibility of the purchaser. Nationwide to provide the outlet jack and 2X4 box with 3/4" conduit below subfloor, if requested.
- Communications outlet supplied and installed by purchaser as required by current NEC, Chapter 8. Tamper Resistant Receptacles

FOR NORTH CAROLINA ONLY: REFER TO NATIONWIDE HOMES 2018 NC Q.A. MANUAL, CHAPTER-12, FOR ELECTRICAL FIXTURES

─ Duplex Receptacle Carbon Monoxide Det. Single pole switch Weatherproof duplex Three-way switch Carb.Mon./Sm.Det. Combo Wire & Brace (Fan optional)

Exterior Light 240v Receptacle Four-way switch 4 Quad Receptacle Television outlet NATIONWIDE Overhead light Push button for chime Telephone outlet Flood Light **⊚** LED Recessed / Weatherproof light | 뉰 | Wall Light / Sconce Fluorescent light DC Wireless Door Chime Thermostat 4 x 10 Registers Light/Clg. Exh. fan (50 CFM Min) Heat/Fan/Light Clg. Exh. fan (50 CFM Min) Toe-Kick Registers SD Smoke Detector

78" A.F.F.-GFCI ¹ **KITCHEN** 9'-8 1/4" L 16 **F**/L: 2 -8" Below top **DINING** -GFCI QUAD RECEPT BATH-1 WIC 4 <u>CMD</u>≤0 13 1 PULL WIRE FOR T-STAT 60" UP WIRE & BRACE FOR FAN W/2 SWITCHES--WIRE & BRACE FOR FAN W/2 SWITCHES LIVING!ROOM -WIRE & BRACE FOR FAN W/2 SWITCHES -WIRE & BRACE FOR FAN W/2 SWITCHES -SEE COMBO BEDROOM -3 BEDROOM -2 BEDROOM -1 -(B) **APPROVED BY** /12/2024



WHOLE HOUSE VENTILATION REQUIRED PER SECTION M1507 OF NC RESIDENTIAL CODE AirCycle WHOLE HOUSE | 2018 TO BE PROVIDED BY WAY OF A 100 EXHAUST FAN SWITCH | CFM EXHAUST FAN LOCATED IN BATHROOM-1

MECHANICAL VENTILATION PER TABLE M1507.3.3(1)

VENTILATION CODE REQUIRED VENTILATION IN CFM HOUR FRACTION SETTINGS IN FAN CFM (BASED ON # OF BEDROOMS) MINUTES/HOUR 0.6000 36.00 60 100

HVAC SYSTEM DESIGNED, ENGINEERED, AND SITE INSTALLED BY HVAC CONTRACTOR. AL DUCTWORK, AIR HANDLER, A-COIL, FLOOR OR CEILING REGISTERS SUPPLIED & SITE INSTALLED BY THE HVAC CONTRACTOR ON SITE SUBJECT TO INSPECTION AND APPROVAL BY LOCAL JURISDICTION

EXTERIOR RECEPTACLE OULET BOX HOODS THAT ARE A PART OF THE WEATHERPROOF enclosure to be listed and identified as "extra duty" durability to retain a DEGREE OF PROTECTION FOR THE RECEPTACLES.

David Barts

Approval of this document does not authorize or approve any deviation or deviations from the requirements of applicable State Laws.

IF FACTORY INSTALLED EXTERIOR RECEPTACLES DO NOT MEET MINIMUM REQUIREMENTS OF THE CURRENT BUILDING CODE, BUILDER MUST SITE INSTALL AN EXTERIOR RECEPTACLE IN FOUNDATION AT FRONT AND AT REAR PER CURRENT BUILDING CODE SUBJECT TO INSPECTION AND APPROVAL BY LOCAL JURISDICTION

ALL BRANCH CIRCUITS THAT ARE SUPPLYING 15 & 20 AMP OUTLETS IN ALL BEDROOMS, KITCHENS DINING ROOM, BREAKFAST ROOM, PARLORS, LIBRARIES, DENS FAMILY ROOM, SUNROOMS, RECREATION ROOMS, CLOSETS, HALLWAYS, LAUNDRY AREAS OR SIMILAR AREAS, TO BE PROTECTED BY ARC-FAULT CIRCUIT INTERRUPTER PER SECTION 210.12, 2017 NEC ELECTRICAL CODE.

MOUNT ELECTRICAL DEVICES UNDER WALL CABINETS IN KITCHEN RECESSED RECEP/TV/PH. JACK DET. COMBO BOX DETAIL

-3/4" CONDUIT

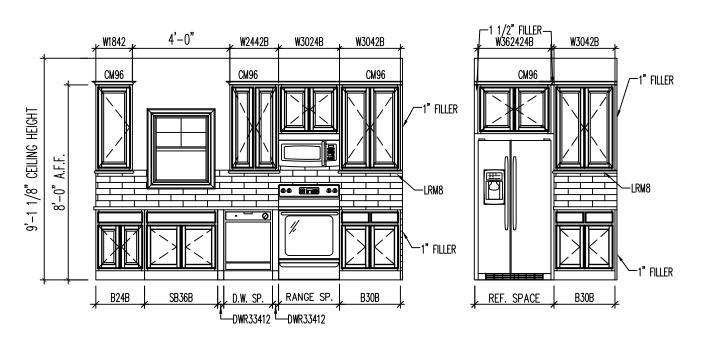
FIRST LEVEL ELECTRICAL PLAN

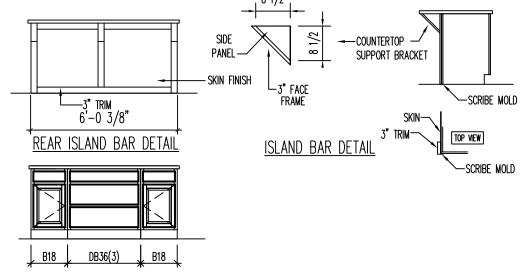
SCALE: 3/16" = 1'-0"

'LAN NAME: HEARTLAND II	PURCHASER: HOMES BY VANDERBUILT	NDERBUILT		NOTE: ONLY ONE HOUSE	
OLLECTION/SERIES: HEARTLAND	JOB NO.: MS4-24	CONTRACT NO.: 196879	62836	MAY BE BUILT UTILIZING	<u> </u>
© COPYRIGHT 2024 NATIONWIDE HOMES	BLACKLINE DATE & BY:	Æ	PROCESS DATE & BY: 6/25/24 CR	DESIGNATED FOR THIS	
ALL RIGHTS RESERVED	PLAN REVISION DATE: 7.26.2024 BXK01	1XK01	PLOTTED: 7/26/2024 2:56 PM	CONTRACT JOB	•

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) RVES ROAD, MARTHENALLE, VA 24112 (276) 632–7100 WWILMATHOWIDEOLSTOMPOMES.COM





APPROVED BY

David Barts

approve any deviation or deviations from the requirements of applicable State Laws.

FRONT ISLAND BAR DETAIL

1. CABINET CONFIGURATION MAY VARY TO CABINET STYLE SELECTED 2. MIN. 30" CLARENCE BETWEEN RANGE AND COMBUSTIBLE SURFACE ABOVE 3.MIN. 1" CLARENCE FROM RANGE EXHAUST VENT TO COMBUSTIBLE MATERIAL 4. VENTLESS RANGE HOOD UNLESS OTHERWISE NOTED.

FOR NORTH CAROLINA ONLY: REFER TO NATIONWDE HOMES 2018 NC Q.A. MANUAL CHAPTER-10, FOR ALL APPLIANCES

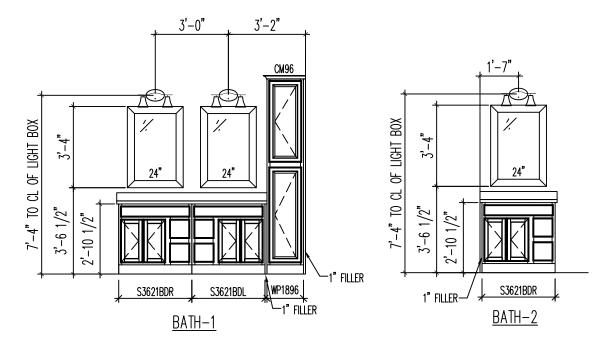
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NATIONWIDE

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KITCHEN CABINET LAYOUT

MATCHING TOE KICK COVERS



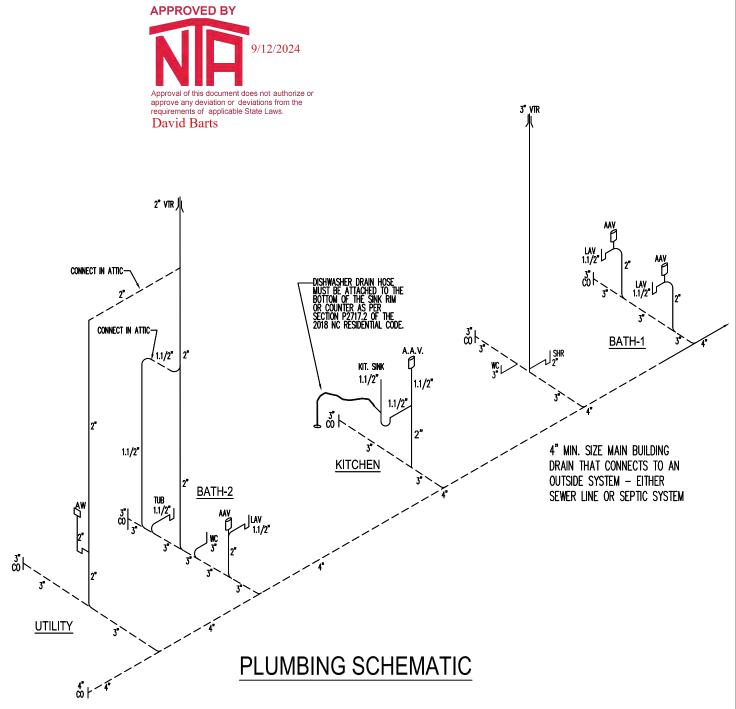
BATHROOM CABINETS MATCHING TOE KICK COVERS

_				
Г	trap size	FALL PER FOOT	DISTANCE TO VENT FROM TRAP	ALL FACTORY INSTALLED PLUMBING TO CONFORM TO:
	1 1/4"	1/4"	3 Ft. 6 In.	CURRENT PLUMBING CODE (SEE COVER SHEET)
	1 1/2"	1/4"	5 Ft. 0 In.	
	2"	1/4"	6 Ft. 0 In.	
	3"	1/4"	10 Ft. 0 In.	
	4"	1/8"	12 Ft. 0 In.	REFER TO PLUMBING NOTES ON COVER SHEET FOR ADDITIONAL INFORMATION

NOTE: APPROVED ENGINEERED MECHANICAL WATER HAMMER ARRESTERS FOR QUICK CLOSING VALUES FACT. INST. AT ICEMAKER, DISHWASHER & WASHING MACHINE AS REQUIRED BY CURRENT STATE PLUMBING CODES.

- * PEX PLUMBING FOR SUPPLY LINES
- * GLUE P-TRAPS AT ALL TUBS AND SHOWERS
- * PEX SUPPLY LINES SHALL HAVE A MAXIMUM SUPPORT SPACING OF 32 INCHES.
- * PROTECTION FROM FREEZING SHALL COMPLY WITH SECTION P2603.5 OF THE 2018 NCRC

FOR NORTH CAROLINA ONLY: REFER TO NATIONWIDE HOMES 2018 NC Q.A. MANUAL, CHAPTER-11, FOR ALL PLUMBING FIXTURES

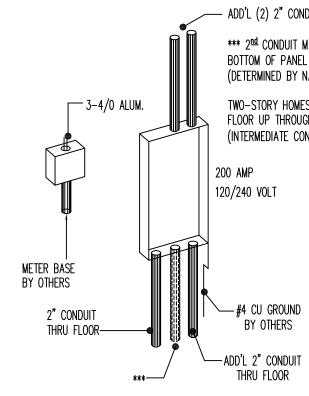


PANEL SCHEDULE

* LOCKOUT BREAKER INSTALLED ON WATER HEATER & DISHWASHER



AMP	WIRE SIZE		200 AMP PANEL							
20	12/2	AFCI	GENERAL WIRING	1	2	SMALL APPLIANCE		12/2	20	
20	12/2	AFCI	GENERAL WIRING	3	4	SMALL APPLIANCE	AFCI	12/2	20	
20	12/2	AFCI	GENERAL WIRING	5	6	DRYER	2407	10/3 WG	30	1
20	12/2	AFCI	GENERAL WIRING	7	8	DRYER	240V	10/3 WG	30	1
25	10/2	240	* WATER HEATER	9	10	RANGE	2407	8/3 CU	40	1
25	10/2	240	WATER HEATER	11	12	RANGE	240V	8/3 CU	40	1
15	14/3	AFCI	SMOKE DETECTOR/CMD	13	14	WASHER	AFCI/GFCI	12/2	20	L
20	12/2	AFCI	GENERAL WIRING	15	16	* DISHWASHER	GFCI	12/2	20	NOTE: ONLY ONE HOUSE
20	12/2	AFCI	GENERAL WIRING	17	18	BATH-1 RECEPT		12/2	20	\ <u>\</u>
				19	20	BATH-2 RECEPT		12/2	20	
				21	22	FREEZER OUTLET	AFCI/GFCI	12/2	20	F
				23	24	MICROWAVE	AFCI	12/2	20	1
				25	26					1
				27	28					1
				29	30]
				31	32					
				33	34					1
				35	36					1
				37	38					-
				39	40]



ADD'L (2) 2" CONDUITS THRU CEILING (CAPE DESIGNS ONLY & RANCH W/ HVAC IN ATTIC)

*** 2nd Conduit May be in adjacent wall (floor-to-ceiling) with 3rd conduit from Bottom of Panel Pending Required Knock-out usage for factory installed wiring (determined by Nationwide Homes Electricians)

TWO-STORY HOMES WILL HAVE A 2" CONDUIT FROM LOWER LEVEL FLOOR UP THROUGH CEILING JOIST CAVITY OF UPPER LEVEL (INTERMEDIATE CONNECTION COMPLETED ON SITE BY PURCHASER)

TYP. SERVICE ENTRY INSTALLATION

- 1. CONNECTION TO SERVICE BY OTHERS
- 2. 2 EA. 2" CONDUIT DROPPED THRU FLOOR FOR SITE ELECTRICAL INSTALLATION BY OTHERS.
- METER BASE BY OTHERS TO BE LOCATED WITHIN 30" OF ELEC. PANEL STUB-OUT.
- 4. CHECK LOCAL CODE & POWER CO. REQUIREMENTS FOR ANY ADDITIONAL SITE RELATED INSTALLATION.
- 5. CIRCUIT BREAKERS SUPPLIED AND SITE INSTALLED BY THE PURCHASER AT UNFINISHED AREA'S.
- 6. PURCHASER / SITE CONTRACTOR IS RESPONSIBLE TO PROPERLY DRAFT-STOP CONDUITS UPON COMPLETION OF WORK

page no. 10 of 52

TYPICAL PLUMBING NOTES

- WATER DISTRIBUTION SYSTEM PIPE SHALL BE PEX PIPE (STD) SUPPORTED AT 32" INTERVALS.
- FITTINGS & CONNECTIONS SHALL BE PEX WITH COMPRESSION RINGS INSTALLED PER MANUFACTURER'S INSTALLATION INSTRUCTIONS, FIXTURES VALVES SHALL HAVE COMPRESSION CONNECTION FITTINGS INSTALLED PER MANUFACTURER'S INSTALLATION
- COPPER SUPPLY LINES TO BE INSTALLED A MINIMUM 18" FROM WATER HEATER OUTLET BEFORE CONNECTION TO "PEX" PIPING.
- BUILDER TO INSTALL BACKFLOW PREVENTERS ON EXTERIOR AND/OR OTHER FAUCETS WHERE REQ'D BY PUMBING CODE.
- BUILDING TO SUPPLY & INSTALL COPPER T & P RELIEF LINE AND EXTEND TO BUILDING
- OVER AREA SUBJECT TO WATER DAMAGE, BUILDER SHALL INSTALL A 24 GAUAGE GALVANIZED METAL DRAIN PAN w/MIN. 1" DRAIN EXTENDED TO BLDG. BELOW WATER
- AS DICTATED BY THE SERVICE AVAILABLE, THE BUILDER SHALL INSTALL WATER HAMMER ARRESTORS (AIR CHAMBERS, PRESSURE REDUCING VALVES, ETC.) ON THE WATER DISTRIBUTION SYSTEM TO REGULATE THE VELOCITY OF THE FLOW & LESSEN THE HYDRALIC SHOCK OF QUICK-CLOSING VALVES & FAUCETS.
- WATER HEATER EQUIPPED W/DIP TUBE TO PREVENT SIPHONING OF WATER FROM TANK BACK INTO WATER SUPPLY LINES.
- ALL WATER HEATER TANKS SHALL BE EQUIPPED WITH DRAIN COCKS AT BASE OF TANK

UTILITY

FIRST FLOOR

3/4"

- 10. ALL SUPPLY LINES RAN IN LOOP FASHION PER MODULE TO CONNECTION POINT AT MATELINE. PURCHASER TO MAKE CONNECTION FROM MODULE TO MODULE ON SITE 11. MAXIMUM LENGTH OF INDUVIDUAL DISTRIBUTION LINES SHALL NOT EXCEED 60 FT.

NOTE: APPROVED ENGINEERED MECHANICAL WATER HAMMER ARRESTERS FOR QUICK CLOSING VALVES FACTORY INSTALLED WHERE REQUIRED BY CODE

BATH 2

FIRST FLOOR

NOTE: PEX PLUMBING PIPE TO BE SUPPORTED AT 32" INTERVALS AND PROTECTED FROM FREEZING

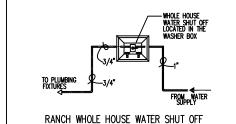
WASHER BOX 3/4"

APPROVED ENGINEERED MECHANICAL WATER HAMMER ARRESTORS, FOR ALL QUICK CLOSING VALVES, ARE FACTORY INSTALLED AT ICEMAKER, DISHWASHER, AND WASHING MACHINE AS REQUIRED BY CURRENT STATE PLUMBING CODES.

WATER HEATER DRAIN PAN NOTE

WATER HEATER DRAIN PAN DRAIN SHALL EXTEND TO THE EXTERIOR OF THE BUILDING AND TERMINATE NOT LESS THAN 6" AND NOT MORE THAN 24" ABOVE ADJANCENT GROUND SURFACE PER SECTION P2801.6.2 OF THE 2018 NCPC

ICEMAKER

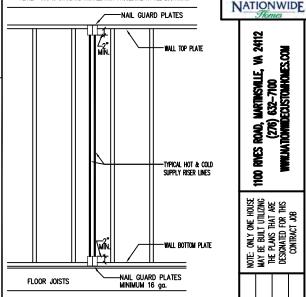




GENERAL NOTE REGARDING DISHWASHER (D/W): DISCONNECTING MEANS FOR D/W NOT REQUIRED PER 2017 NEC ELECTRICAL CODE SECTION 422.34 UNIT SWITCH (ES)

NAIL PLATES PROTECTION

WATER DISTRIBUTION PIPE INSTALLED THROUGH FRAMING MEMBERS WITHIN 1.1/2" OF FDGE SHALL BE PROTECTED BY USING NAIL PLATES THAT ARE INNIAUM 16 gg. AND EXTEND 2" ABOVE BOTTOM PLATE AND 2" BELOW TOP PLATE. HIS IS STANDARD INSTALLATION PROCEDURE AT ALL LOCATIONS.



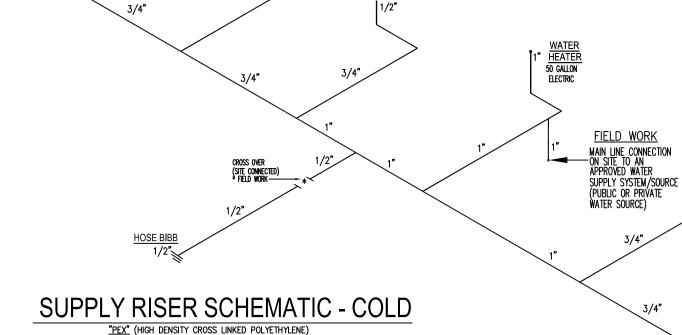
NAIL GUARD PLATE DETAIL

SHOWER AND TUB/SHOWER COMBINATION VALVES SHALL BE EQUIPPED WITH CONTROL VALVES OF THE PRESSURE-BALANCE,
THERMOSTATIC-MIXING OR COMBINATION PRESSURE-BALANCE/THERMOSTATIC-MIXING VALVE TYPES WITH A HIGH

LIMIT STOP IN ACCORDANCE WITH ASSE 1016/ASME A112.1016/CSA B125.16. THE HIGH LIMIT STOP SHALL BE SET TO LIMIT THE WATER TEMPERATURE TO NOT GREATER THAN 120°F.

- TEMPERATURE-ACTUATED MIXING VALVES, WHICH ARE INSTALLED TO REDUCE WATER TEMPERATURES TO DEFINED LIMITS, SHALL COMPLY WITH ASSE 1017. SUCH VALVES SHALL BE INSTALLED AT THE HOT WATER SOURCE
- TEMPERATURE-ACTUATED, FLOW-REDUCTION DEVICES, WHERE INSTALLED FOR INDIVIDUAL FIXTURE FITTINGS, SHALL CONFORM TO ASSE 1062. SUCH VALVES SHALL NOT BE USED AS A SUBSTITUTE FOR THE BALANCED PRESSURE, THERMOSTATIC OR COMBINATION SHOWER VALVES REQUIRED FOR SHOWERS IN SECTION P2708.4.
- NOTES FOR WATER HAMMER ARRESTORS "WATER HAMMER ARRESTORS CONFORMING TO ASSE 1010 AND INSTALLED PER MANUFACTURERS INSTRUCTIONS" AND "NOT REQUIRED FOR PLASTIC WATER DISTRIBUTION
- A MEANS FOR CONTROLLING INCREASED PRESSURE CAUSED BY THERMAL EXPANSION SHALL BE INSTALLED WHERE REQUIRED IN ACCORDANCE WITH THE FOLLOWING:
- FOR WATER SERVICE SYSTEM SIZES UP TO AND INCLUDING 2 INCHES (51 MM). A DEVICE FOR CONTROLLING PRESSURE SHALL BE INSTALLED WHERE, BECAUSE OF THERMAL EXPANSION, THE PRESSURE ON THE DOWNSTREAM SIDE OF A PRESSURE-REDUCING VALVE EXCEEDS THE
- PRESSURE—REDUCING VALVE SETTING.
 WHERE A BACKFLOW PREVENTION DEVICE, CHECK VALVE OR OTHER DEVICE IS INSTALLED ON A WATER SUPPLY SYSTEM USING STORAGE WATER HEATING EQUIPMENT SUCH THAT THERMAL EXPANSION CAUSES AN INCREASE IN PRESSURE, A DEVICE FOR CONTROLLING PRESSURE SHALL BE INSTALLED.

APPROVED BY /12/2024 Approval of this document does not authorize or approve any deviation or deviations from the requirements of applicable State Laws. **David Barts**



KITCHEN

| SINK 1/2"

KIT

FIRST FLOOR

DIVERTOR FOR RAIN HEAD BATH 1 LAV 1/2" FIRST FLOOR DIVERTOR FOR HAND HELD

3/4"

VA 24112 1100 RWES I

JOB NO.: MS BLACKLINE | PLAN REVIS

TYPICAL PLUMBING NOTES

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- 10. ALL SUPPLY LINES RAN IN LOOP FASHION PER MODULE TO CONNECTION POINT AT MATELINE. PURCHASER TO MAKE CONNECTION FROM MODULE TO MODULE ON SITE 11. MAXIMUM LENGTH OF INDUVIDUAL DISTRIBUTION LINES SHALL NOT EXCEED 60 FT.
- ALL WATER HEATER TANKS SHALL BE EQUIPPED WITH DRAIN COCKS AT BASE OF TANK

NOTE: APPROVED ENGINEERED MECHANICAL WATER HAMMER ARRESTERS FOR QUICK CLOSING VALVES FACTORY INSTALLED WHERE REQUIRED BY CODE

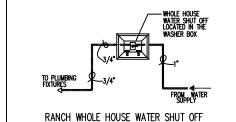
WASHER BOX 3/4"

NOTE: PEX PLUMBING PIPE TO BE SUPPORTED AT 32" INTERVALS AND PROTECTED FROM FREEZING

APPROVED ENGINEERED MECHANICAL WATER HAMMER ARRESTORS, FOR ALL QUICK CLOSING VALVES, ARE FACTORY INSTALLED AT ICEMAKER, DISHWASHER, AND WASHING MACHINE AS REQUIRED BY CURRENT STATE PLUMBING CODES.

WATER HEATER DRAIN PAN NOTE

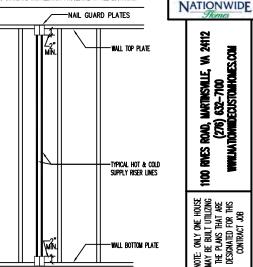
WATER HEATER DRAIN PAN DRAIN SHALL EXTEND TO THE EXTERIOR OF THE BUILDING AND TERMINATE NOT LESS THAN 6" AND NOT MORE THAN 24" ABOVE ADJANCENT GROUND SURFACE PER SECTION P2801.6.2 OF THE 2018 NCPC





NAIL PLATES PROTECTION

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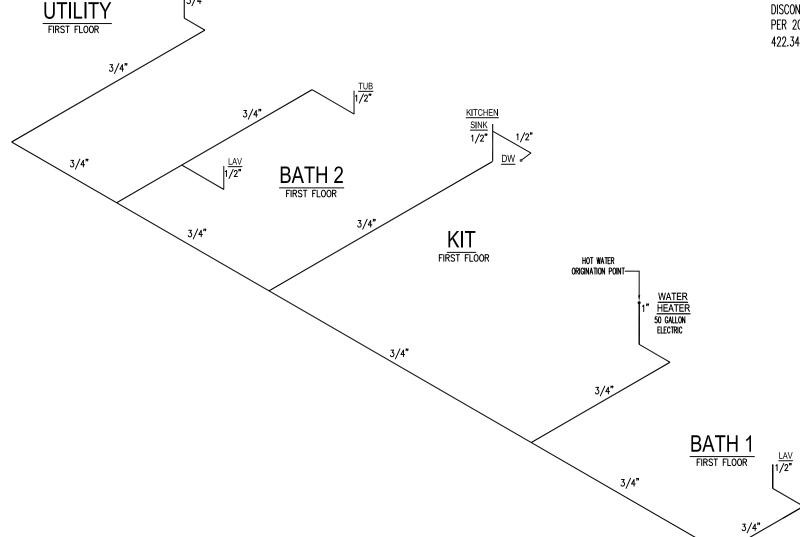
LIMIT STOP IN ACCORDANCE WITH ASSE 1016/ASME A112.1016/CSA B125.16. THE HIGH LIMIT STOP SHALL BE SET TO LIMIT THE WATER TEMPERATURE TO NOT GREATER THAN 120°F. TEMPERATURE-ACTUATED MIXING VALVES, WHICH ARE INSTALLED TO

- REDUCE WATER TEMPERATURES TO DEFINED LIMITS, SHALL COMPLY WITH ASSE 1017. SUCH VALVES SHALL BE INSTALLED AT THE HOT WATER SOURCE
- TEMPERATURE-ACTUATED, FLOW-REDUCTION DEVICES, WHERE INSTALLED FOR INDIVIDUAL FIXTURE FITTINGS, SHALL CONFORM TO ASSE 1062. SUCH VALVES SHALL NOT BE USED AS A SUBSTITUTE FOR THE BALANCED PRESSURE, THERMOSTATIC OR COMBINATION SHOWER VALVES REQUIRED FOR SHOWERS IN SECTION P2708.4.
- NOTES FOR WATER HAMMER ARRESTORS "WATER HAMMER ARRESTORS CONFORMING TO ASSE 1010 AND INSTALLED PER MANUFACTURERS INSTRUCTIONS" AND "NOT REQUIRED FOR PLASTIC WATER DISTRIBUTION
- A MEANS FOR CONTROLLING INCREASED PRESSURE CAUSED BY THERMAL EXPANSION SHALL BE INSTALLED WHERE REQUIRED IN ACCORDANCE WITH THE FOLLOWING:
- FOR WATER SERVICE SYSTEM SIZES UP TO AND INCLUDING 2 INCHES (51 MM). A DEVICE FOR CONTROLLING PRESSURE SHALL BE INSTALLED WHERE, BECAUSE OF THERMAL EXPANSION, THE PRESSURE ON THE DOWNSTREAM SIDE OF A PRESSURE-REDUCING VALVE EXCEEDS THE
- PRESSURE-REDUCING VALVE SETTING.
 WHERE A BACKFLOW PREVENTION DEVICE, CHECK VALVE OR OTHER DEVICE IS INSTALLED ON A WATER SUPPLY SYSTEM USING STORAGE WATER HEATING EQUIPMENT SUCH THAT THERMAL EXPANSION CAUSES AN INCREASE IN PRESSURE, A DEVICE FOR CONTROLLING PRESSURE SHALL BE INSTALLED.

GENERAL NOTE REGARDING DISHWASHER (D/W): DISCONNECTING MEANS FOR D/W NOT REQUIRED PER 2017 NEC ELECTRICAL CODE SECTION 422.34 UNIT SWITCH (ES)

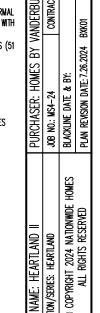
<u>LAV</u> [1/2"

APPROVED BY 12/2024 Approval of this document does not authorize or equirements of applicable State Laws **David Barts**

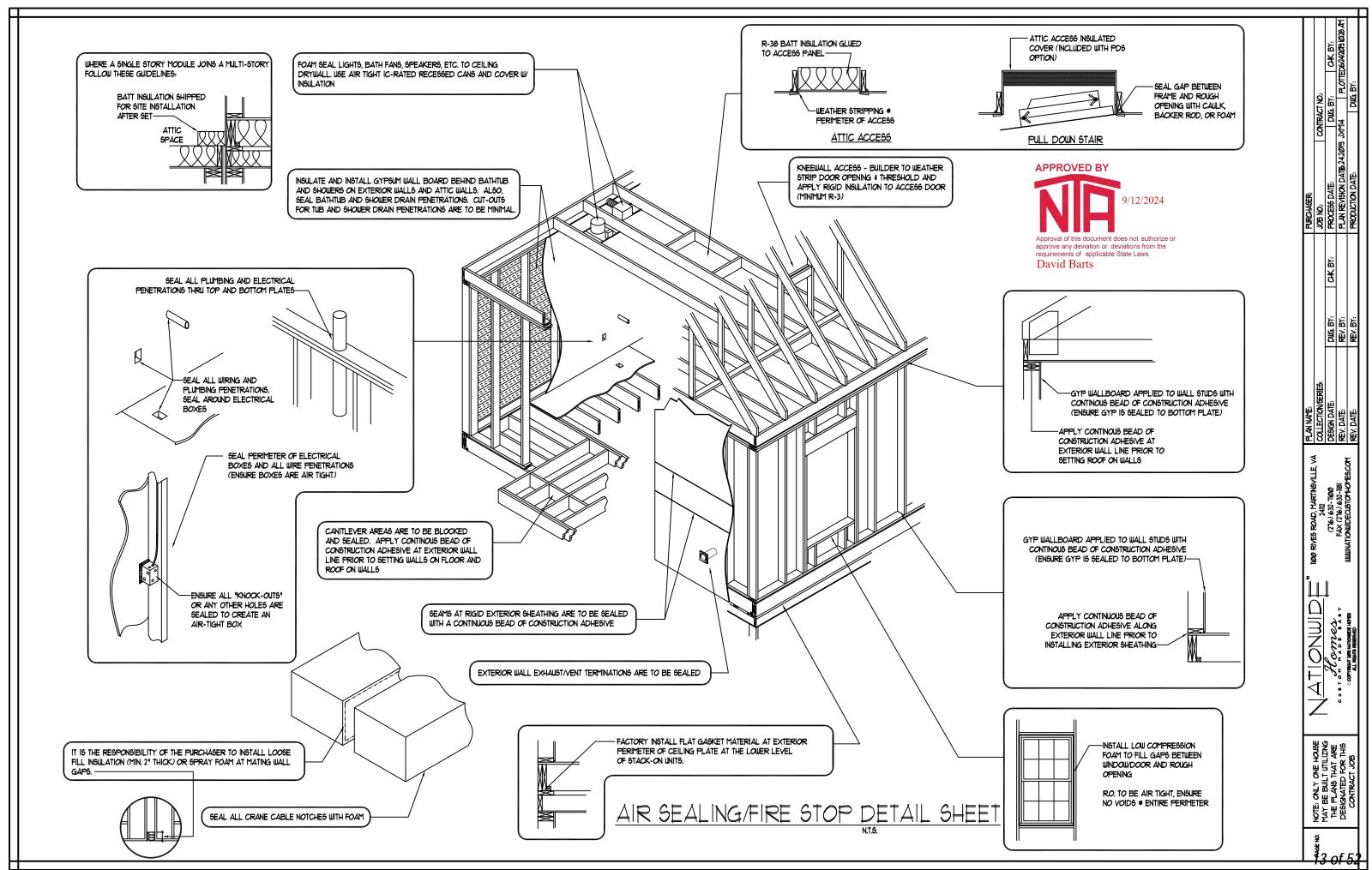


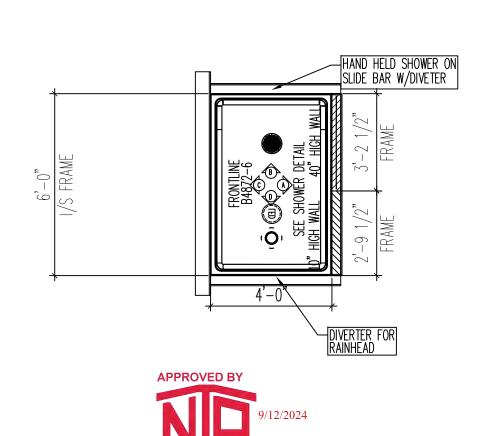
SUPPLY RISER SCHEMATIC - HOT

"PEX" (HIGH DENSITY CROSS LINKED POLYETHYLENE)



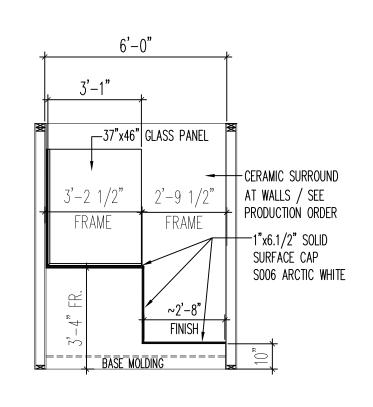
'2 of 52

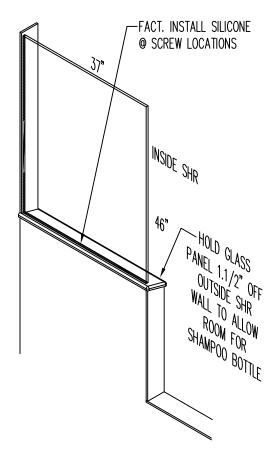


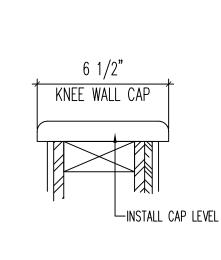


approve any deviation or deviations from the requirements of applicable State Laws.

David Barts

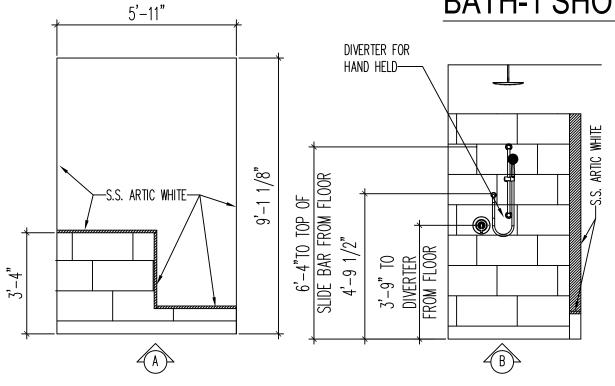


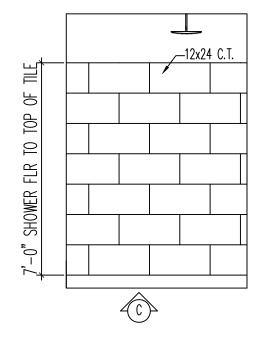


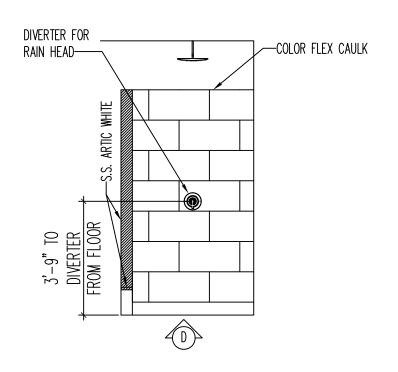


48"X72" FRONTLINE FIBERGLASS SHOWER BASE (NO SEAT)

BATH-1 SHOWER DETAIL





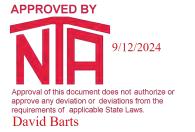


14 of 52

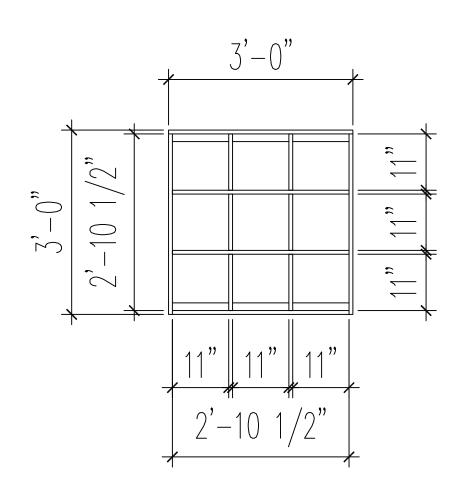
NATIONWIDE

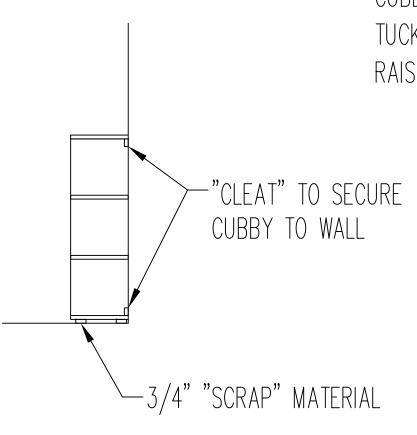
1100 RIVES ROAD, MARTHESMLE, VA 24112 (276) 632-7100 WWILMATIONINDEQUSTOMHOMES.COM





SHOE MOLD WITH LAMINATE FLOORING (SHIPPED/INSTALLED SEE PRODUCTION ORDER)





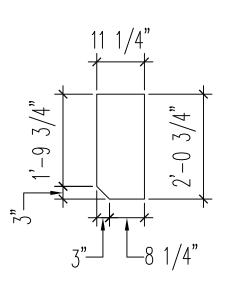
CUBBY RAISED 3/4" ALLOWING FLOORING TO TUCK UNDER. PLACE "SCRAP" MATERIAL USED TO RAISE CUBBY MINIMUM 1" FROM ENDS OF CUBBY

SHOE CUBBY DETAIL

PRE-BUILT IN PLANT 2

NOTE: ONLY ONE HOUSE MAY BE BUILT UTILIZING THE PLANS THAT ARE DESIGNATED FOR THIS CONTRACT JOB WWW.NATIONWIDECUSTOMHOMES.COM							
NOTE: ONLY ONE H	MAY BE BUILT UTILIZING	DESIGNATED FOR THIS	CONTRACT JOB				
		PROCESS DATE & BY: 4-25-24 AH	PLOTTED: 7/56 /my 846 MJ				
PURCHASER: CAROLINA CUSTOM (BRADFORD)	JOB NO.: 22-24 CONTRACT NO.: 196814	BLACKLINE DATE & BY:	PI AN REVISION DATE: 7 16 2024 BYKOT				
	LECTION/SERIES: HEARTLAND SERIES	© COPYRIGHT 2024 NATIONWIDE HOMES	ALL RIGHTS RESERVED				





-1X2 FLAT CROWN

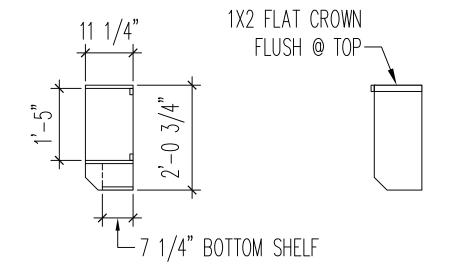
3/4"

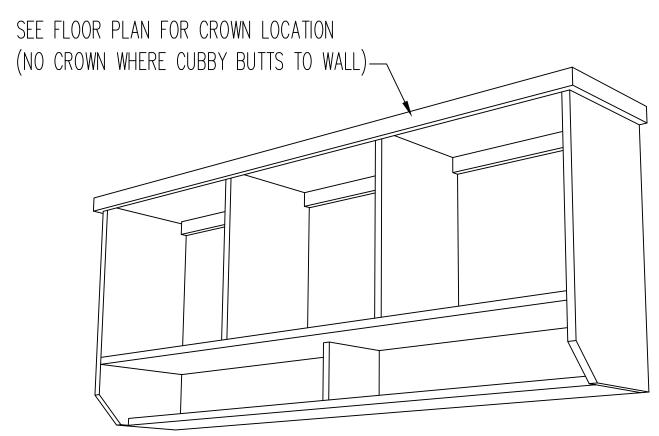
TOP LOAD W/ LID OPEN

4'-10" EST. HGT. OF

FLUSH @ TOP

-5,







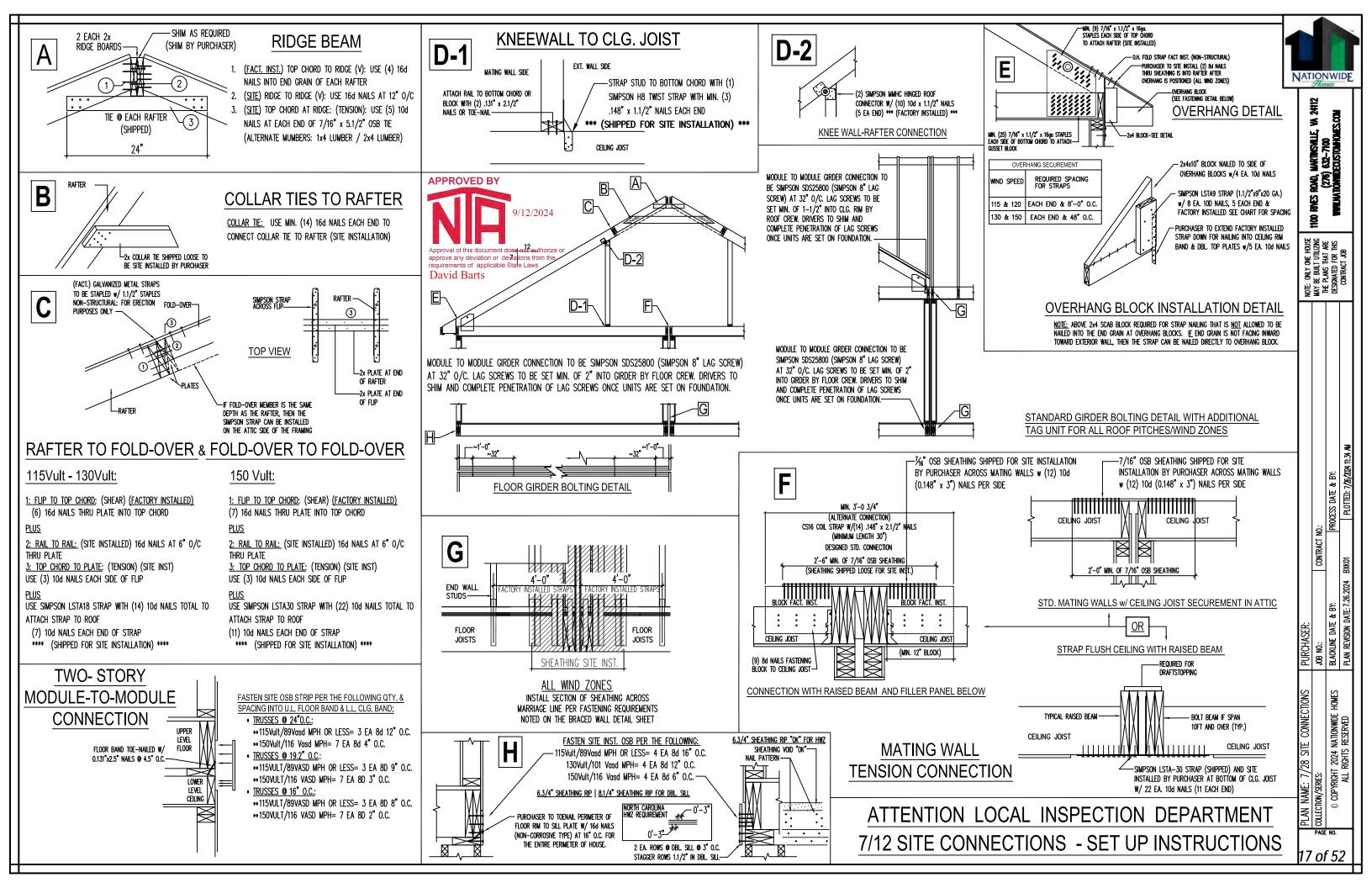
5'-0"

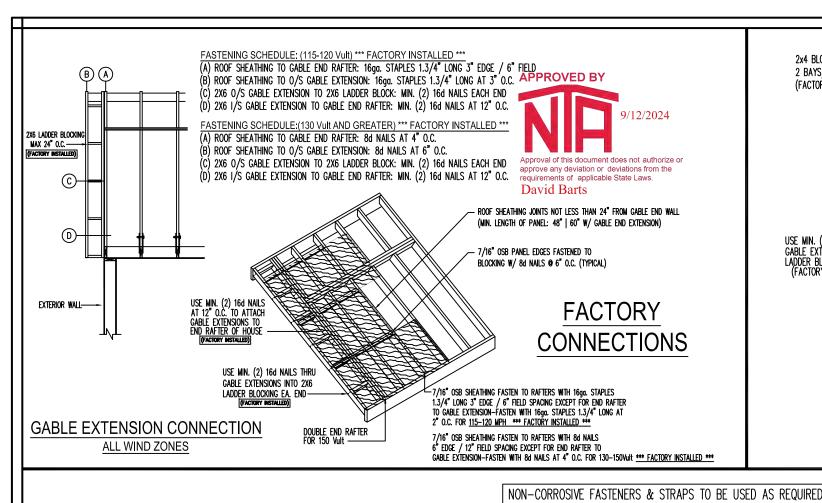
1'-7"

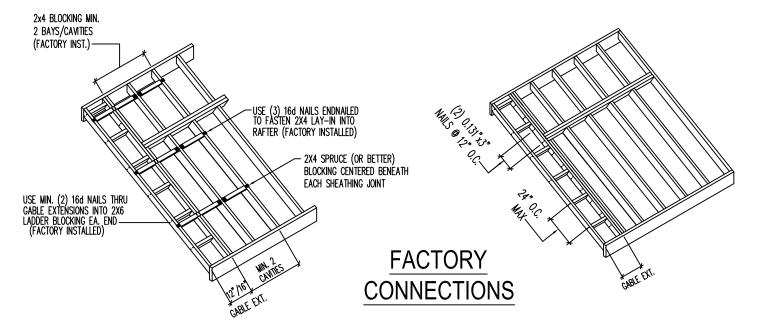
4'-11 1/2"±1/2"

WASHER/DRYER CUBBY DETAIL

PRE-BUILT IN PLANT 2

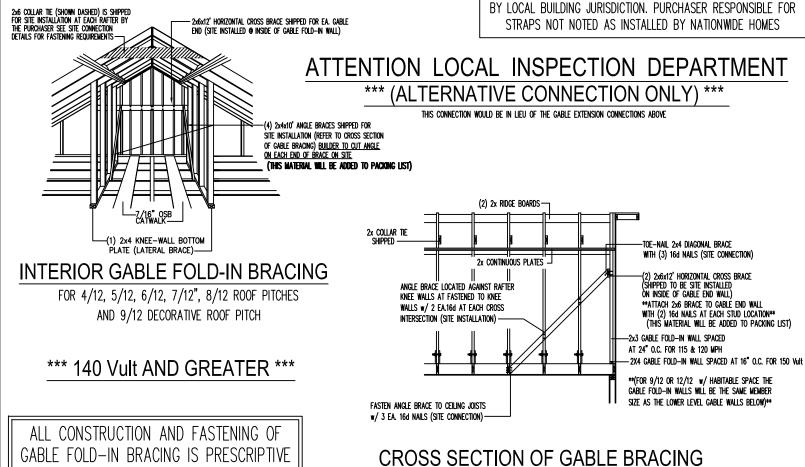






12" OR 16" GABLE EXTENSION CONNECTION DETAIL

** 140 Vult AND GREATER **



FOR 4/12, 5/12, 6/12, 7/12", 8/12 ROOF PITCHES

AND 9/12 DECORATIVE ROOF PITCH

PER THE 2018 NORTH CAROLINA

RESIDENTIAL CODE - CHAPTER 45.

ADD 2x BLOCKING AT SHEATHING JOINTS FASTEN SHEATHING LAP AT RAFTER W/ 8d NAILS AT 12" O.C. -7/16"OSB SHEATHING WALL SHEATHING AT (THIS IS TO BE DONE ON SITE) GABLE END WALLS (FACTORY INSTALLED) PURCHASER TO INSTALL 8d NAILS AT 12" O.C. THRU GABLE FOLD-IN INTO END RAFTER (SITE CONNECTION) SEAT BELT STRAP @ EA. STUD & LAPPED ONTO CEILING JOIST. FACTORY SHEATHING FACT, INSTALLED FLUSH WITH END OF STUD. SIMPSON LSTA-12 STRAPS SHIPPED FOR SITE CEILING JOIST AND RAFTER w/ 8d SITE INSTALL FILLER AS NEEDED. FASTEN EA. WALL PANEL INSTALLATION BY PURCHASER AT ENDS AND 48" O.C. NAILS AT 12" O.C. (SITE CONNECTION)-TO FILLER W/ (2) ROWS 8d NAILS @ 12" O.C. STAGGERED w/ 6 Ea. 10d Nails into Modular Rim Band and 6 Ea. 10d Nails into gable fold—in Framing — (FOR 130 Vult AND UP) UP TO 120 Vult WIND ZONES: PURCHASER TO FASTEN GABLE FOLD-IN PANEL AS FOLLOWS: FASTEN SHEATHING LAP @ RAFTER WITH 8d NAILS SPACED AT 6" EDGE / 12" FIELD (IF APPLICABLE) FASTEN GABLE FOLD-IN THRU PLATES TO CLG. JOIST AND RAFTER W/ 8d NAILS @ 12" O.C. 3. SHEATHING INSTALLED TO END STUD. BUILDER TO SITE INST. 2x FILLERS AS NEEDED. 3. Sheathing installed to end stud. Builder to site inst. 2x fillers as needed. 4. FASTENING FOR 7/16" OSB SHEATHING: 8d NAILS SPACED AT 6" EDGE / 12" FIELD 5. GABLE FOLD-IN WALL SPACING PER CONSTRUCTION DETAIL **(FOR 12/12 ROOFS W/ LIVING SPACE 5. GABLE FOLD-IN WALL SPACING: 2x4 AT 16" O.C.

GABLE FOLD-IN WALL WILL BE THE SAME AS THE LOWER LEVEL GABLE WALL)**

130 Vult, AND GREATER, WIND ZONES:

PURCHASER TO FASTEN GABLE FOLD—IN PANEL AS FOLLOWS: **(BLOCKING INSTALLED AT SHEATHING JOINTS)**

- FASTEN SHEATHING LAP @ RAFTER W/ 8d NAILS @ 12" O.C. (IF APPLICABLE)
- FASTEN GABLE FOLD-IN THRU PLATES TO CLG. JOIST AND RAFTER W/ 16d NAILS @ 12" O.C.
- 4. FASTENING FOR 7/16" OSB SHEATHING: 8d NAILS SPACED AT 3" O.C. EDGE / 6" O.C. FIELD

- 5.1. (FOR 12/12 ROOFS W/ LIVING SPACE GABLE FOLD—IN WALL WILL BE THE SAME AS THE LOWER LEVEL GABLE WALL)

GABLE END WALL CONNECTION DETAIL

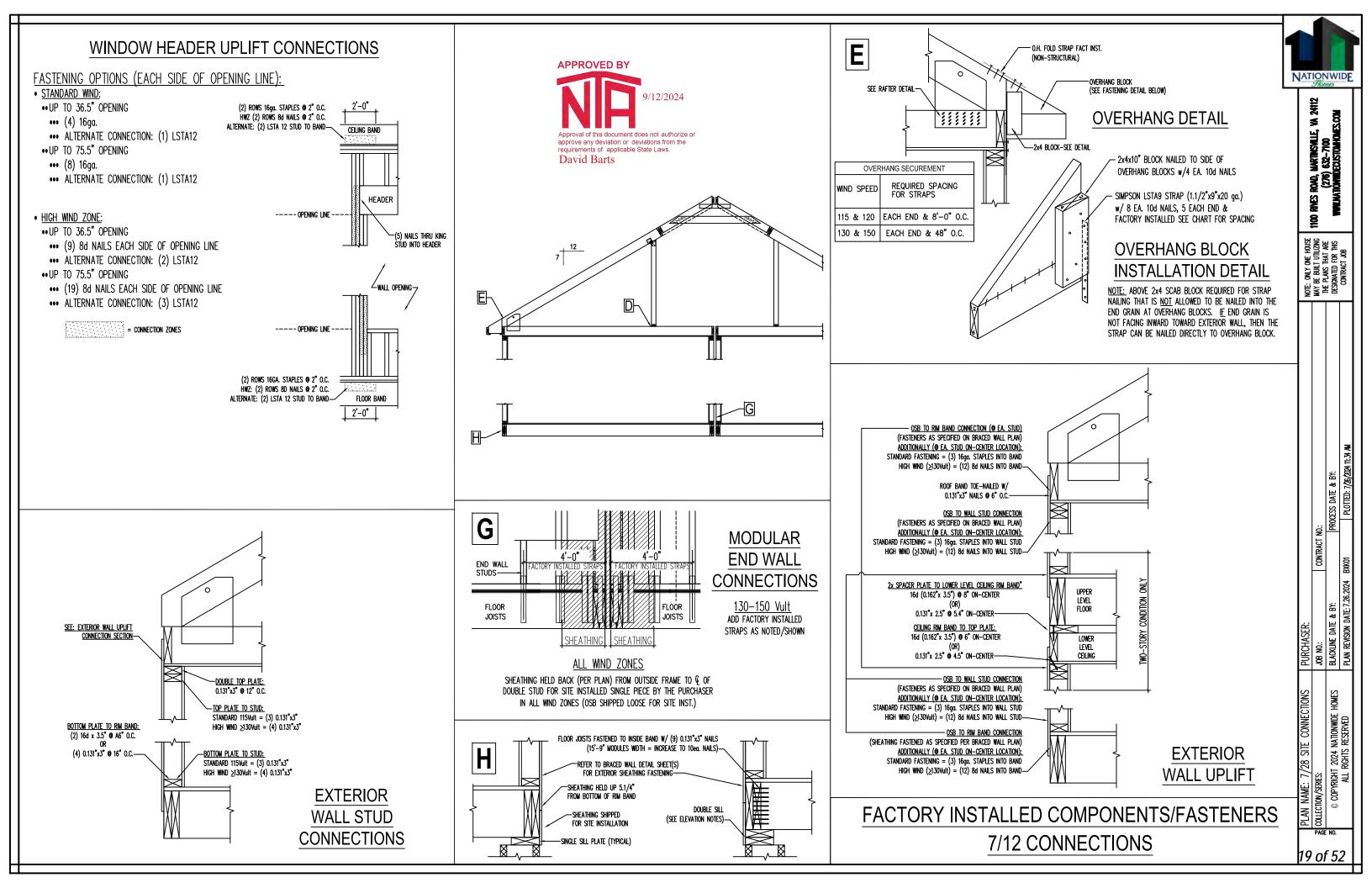
115 - 150 Vult HOUSES

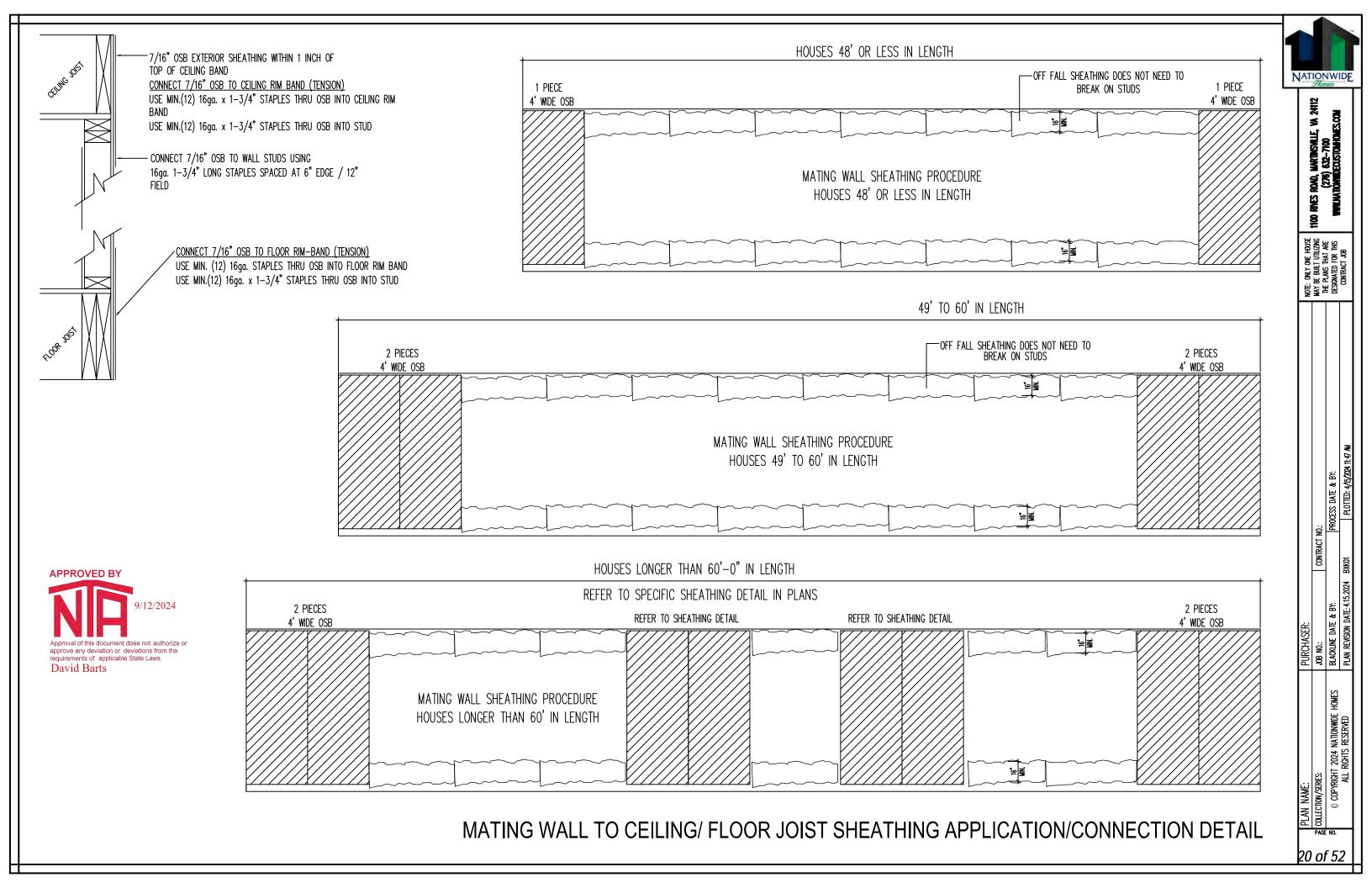
ATTENTION LOCAL INSPECTION DEPARTMENT 7/12 SITE CONNECTIONS - SET UP INSTRUCTIONS

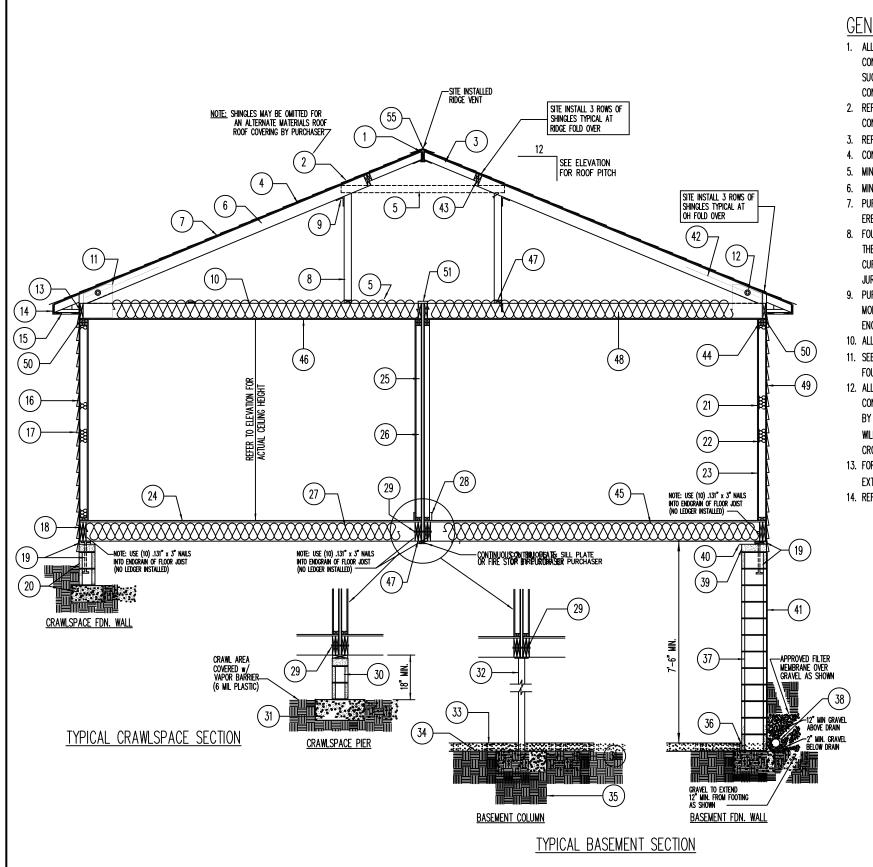
JOB NO: BLACKLINE PLAN REVIS

NATIONWIDE

1100 RVES ROAD, MARTINSMILE, VI (276) 632—7100 WWILMATIOWINDECUSTOMHOMES.







GENERAL NOTES:

- 1. ALL CONSTRUCTION BELOW BOTTOM OF FLOOR JOIST RESPONSIBILITY OF SITE CONTRACTOR. ALL INFORMATION SHOWN BELOW BOTTOM OF FLOOR JOIST IS SUGGESTIVE ONLY. REFER TO STATE AND LOCAL CODES FOR ACTUAL CONSTRUCTION METHOD REQUIRED.
- 2. REFER TO FOUNDATION WALL SECTION ON FOUNDATION PLAN FOR UNITS BEING CONSTRUCTED IN AREAS GREATER THAN 115 mph Vult WIND ZONE.

NO.

1 DBL. 2x6 RIDGE BOARDS (#2 SPF OR EQUAL) 2 SHINGLES (SITE INSTALLED AT O.H & U.L FOLD-OVER)

OSB GUSSETS AT EACH SIDE

15 VINYL CONTINIOUS VENTED SOFFIT

20 FOUNDATION WALL AND CONCRETE FOOTER

1/2" GYPSUM WALL BOARD

24 3/4" OSB T&G FLOOR SHEATHING

13 CONTINOUS PERIMETER BAND (#2 SYP or EQUAL)

16 7/16" OSB STRUCTURAL SHEATHING (115Vuit / 150Vuit)

DOUBLE PERIMETER BAND 2x10 (#2 SYP or EQUAL) MIN. 2x6 PRESSURE TREATED SILL PLATE W/ANCHOR BOLTS

22 R-15 WALL INSULATION (R-19 or R-21 W/ 2x6 OPTION)

23 EXT. WALL STUDS: 2x4 AT 16" O/C (2x6 OPTION) #2 SPF or EQUAL

MATING WALL SHEATHING: 7/16" OSB STRUCTURAL SHEATHING

SIMPSON SDS25800 (SIMPSON 8" LAG SCREW) AT 32" O.C

MATING WALL STUDS: 2x3 AT 16" O/C (#2 SPF or EQUAL) 115Vuit / 150Vuit

R-19 FLR INSULATION SITE INSTALLED BY PURCHASER (OPT. R-30 FACT. INSTALLED)

4 SYNETHIC UNDERLAYMENT

12 BOLT ASSEMBLY

14 FASCIA BOARD

28 BASEMOULD

CONCRETE PIERS

36 EXPANSION JOINT

CONCRETE FOOTER

FOUNDATION WALL 38 DRAIN TILE WITH GRAVEL SURROUND

39 SOLID CAPE (IF REQUIRED)

TERMITE SHIELD DAMP PROOFING

46 1/2" CEILING GYPSUM

49 WEATHER RESISTIVE BARRIER

42 INSULATION BAFFLE- SITE INSTALLED BY PURCHASER

45 2x10 FLOOR JOISTS AT 16" O.C (#2 SYP or EQUAL)

47 DOUBLE 2x10 GIRDER EACH SIDE (#2 SYP or EQUAL) 48 R-38 CLG. INSULATION FACTORY INSTALLED

43 CONTITUNOUS DOUBLE 2x AT FOLD-OVER (#2 SPF or EQUAL) DOUBLE 2x4 TOP PLATE (SPF STUD GRADE or EQUAL)

50 7/16" OSB COMPRESSION STRIP (ENTIRE LENGTH OF LOAD BEARING WALL) 51 2x FIRESTOP INSTALLED BY PURCHASER (#2 SFP or EQUAL)

32 STRUCTURAL SUPPORT COLUMN

CONCRETE SLAB FLOOR 34 GRAVEL AND VAPOR BARRIER

30

31

17 VINYL EXTERIOR SIDING

DESCRIPTION ALL WIND SPEEDS SHOWN BELOW IN MPH ARE 3-SECOND GUST

3 2x FOLD-OVER RAFTERS (#2 SPF or EQ.) (115Vuit/150Vuit) REFER TO ROOF FRAMING FOR SPACING

5 2x Collar Tie (Site-Installed) #2 Syp of Equal (refer to roof framing for spacing)

8 2x4 KNEEWALL (#2 SPF or EQ.) (115Vult / 150Vult) (REFER TO ROOF FRAMING FOR SPACING)

6 2x RAFTERS #2 SYP or EQ. (115Vult / 150Vult) (REFER TO ROOF FRAMING FOR SPACING)

10 2x10 CEILING JOISTS (#2 SYP or EQUAL) (REFER TO ROOF FRAMING FOR SPACING)

ROOF SHEATHING (115Vuit / 150Vuit) 7/16" OSB SHEATHING

- 3. REFER TO FOUNDATION PLAN FOR LOCATION OF PIERS/COLUMNS.
- 4. CONSTRUCTION OF BASEMENT STAIRS BY PURCHASER.
- 5. MIN. 18" FROM GRADE FOR WOOD JOISTS AND 12" MIN. FOR WOOD GIRDERS.
- 6. MIN. 6" FROM GRADE TO EXTERIOR SIDING
- 7. PURCHASER TO REFER TO BUILDER RESPONSIBILITY BULLETIN INSTRUCTIONS FOR ERECTION COMPLETION REQUIREMENTS.
- 8. FOUNDATION SECTION IS SUGGESTIVE ONLY. ALL FOUNDATION CONSTRUCTION IS THE RESPONSIBILITY OF THE BUILDER. CONSTRUCTION SHALL CONFORM TO CURRENT STATE BUILDING CODES, SUBJECT TO INSPECTION BY LOCAL
- 9. PURCHASER RESPONSIBLE FOR SECURING MODULAR UNITS TO FOUNDATION AND MODULAR TO MODULAR UNITS. FOR HIGH WIND AREAS: CONNECTION MATERIAL AND ENGINEERING IS THE RESPONSIBILITY OF THE PURCHASER
- 10. ALL PILING FOUNDATIONS SHALL BE ENGINEERED BY PURCHASER.
- 11. SEE FOUNDATION PLAN AND "SUPERIOR WALL" DETAILS WHEN A "SUPERIOR WALL" FOUNDATION SYSTEM IS USED.
- 12. ALL MATERIALS LISTED ABOVE REPRESENTS NATIONWIDE HOMES STANDARD CONSTRUCTION. ALTERNATE MATERIALS FOR CONSTRUCTION MAY BE REQUESTED BY THE CUSTOMER AS SUBSTITUTION FOR STANDARD MATERIALS. THESE ITEMS WILL BE NOTED ON THE PRODUCTION ORDER AND/OR PLANS, AND NOT ON THIS
- 13. FOR WIND ZONES 150 mph \mbox{Vult} and $\mbox{Above:}$ Horizontal \mbox{MiD} span blocking at EXTERIOR WALLS AT SHEATHING JOINTS (IF HORIZONTAL INSTALLATION)
- 14. REFER TO COVER SHEET FOR WIND ZONE SPEED.

APPROVED BY approve any deviation or deviations from the requirements of applicable State Laws. **David Barts**

FOR ROOF TRUSS REFERENCE - 7/12 (27-8") SEE ATTACHED PE SEALED CALCULATIONS

FOR FLOOR JOISTS FASTENING REFERENCE SEE NATIONWIDE HOMES CALCULATIONS MANUAL, SECTION #48, PAGES #3-8

<u> RAISED BEAM SIZED PER - 7/12 RAFTER COMP. LOAD SUMMARY</u> SECTION 36/page.8 (PAGE 1995 OF MANUAL) BASED ON L/360 (DROPPED BEAM 1)

<u> EXTERIOR HEADER SIZED PER - 7/12 RAFTER COMP. LOAD SUMMARY</u> •• SECTION 36/page.37 (PAGE 2024 OF MANUAL) BASED ON L/360 (FOR THE FOLLOWING WINDOWS AND EXTERIOR DOORS: 3660 WINDOW, TWIN 3660 WINDOW, 3036 WINDOW, 3068 FRONT DOOR, 3068 SIDE DOOR IN UTILITY AND REAR 3068 DOOR IN DINING ROOM

NATIONWIDE

1100 RVES ROAD, MARTINSMILE, V (276) 632—7100 WWW.MATIOWIDEOUSTOMOMES.

VA 24112

DATE & BY:

NATIONWIDE RESERVED 2024 N

21 of 52

RANCH CROSS SECTION

White (OFFICE STEEL LOW F		
KINRO (SERIES 9750) LOW-E SHGC=0.29	EXTERIOR DOORS (SIZES)	
	ROUGH OPENING DESCRIPTION	
ACTUAL SIZE ROUGH OPENING 8% LIGHT (SQ.FT.) 4% VENT. (SQ.FT.)	PLAN SIZE WIDTH HEIGHT	
	3068 3'-0" 6'-8" 38 1/2" 82 1/2" PRE-HUNG EXTERIOR	NATION WIDE Flores
PLAN CODE WIDTH HEIGHT WIDTH HEIGHT GL. FLR. OPEN AREA AREA AREA	3068 3'-0" 6'-8" 52" 82 1/2" PRE-HUNG W/ SINGLE SIDELITE	
3036 29 1/2 35 1/2 30 3/4 37 5.55 69.38 2.64 66.00	3068 3'-0" 6'-8" 65" 82 1/2" PRE-HUNG W/ DOUBLE SIDELITE	TRANSOMS S
3036 Tw 60 1/2 35 1/2 61 3/4 37 6.55 81.87 3.64 91.00	6068 6'-0" 6'-8" 75 1/2" 82 1/2" CENTER HINGED PATIO DOOR	30TRAN 30-10TRAN
3660" 35 1/2 59 1/2 36 3/4 61 12.21 152.63 5.99 149.75	6068 6'-0" 6'-8" 72 1/4" 80" SLIDING GLASS DOOR - VINYL	10-30-10TRAN 10-30-10TRAN 60TRAN (ZZS - ZZO -
3660 Tw 72 1/2 59 1/2 73 1/4 61 24.42 305.25 11.98 299.50		
3660 Tr 108 3/4 59 1/2 109 1/2 61 25.42 317.75 12.98 324.50	3068 3'-0" 6'-8" 38 1/2" 96 1/2" PRE-HUNG W/ TRANSOM	10-30-10TRAN 60TRAN SOUTH SOU
4646 45 1/2 45 1/2 46 3/4 47 13.03 162.88 -	3068 3'-0" 6'-8" 52" 96 1/2" PRE-HUNG SGL. SIDELITE W/ TRANS.	ROA INC.
***U FACTOR = 0.32 & SHGC = 0.35 ***U FACTOR = 0.32 & SHGC = 0.35	3068 3'-0" 6'-8" 65" 96 1/2" PRE-HUNG DBL, SIDELITE W/ TRANS.	
	6068 6'-0" 6'-8" 75 1/2" 82 1/2" PRE-HUNG CENTER HINGED PATIO 6068 6'-0" 6'-8" 75 1/2" 82 1/2" DOUBLE DOORS (BOTH PANELS OPERABLE)	
KINRO TRANSOMS (LOW-E & ARGON) (SQUARE & ELLIPTICAL)	6068 6'-0" 6'-8" 75 1/2" 96 1/2" PRE-HUNG CENTER HINGED PATIO W/TRANS.	
SHGC=0.35	OUTSWING UNITS: REDUCE R.O. HEIGHT 3/4"	HOUSE TITING OB THE SECOND TO
		INOTE: ONLY ONE HOUSE INTERPRETATION INTERPRETATION CONTRACT JOB CONTRACT JOB CONTRACT JOB
ACTUAL SIZE ROUGH OPENING 8% LIGHT (SQ.FT.)		The second of th
SINGLE SINGLE	THERMA TRU EXTERIOR DOORS (LIGHT/VENT & THERMAL VALUES)	
PLAN CODE WIDTH HEIGHT W. H. GL. AREA FLR. AREA	DESCRIPTION	
2812 27 1/2 12 28 1/4 12 3/4 5.07 63.39	DOOR GLASS FLOOR U-VALUE SHGC VENT FLOOR AREA AREA AREA	
2812 27 1/2 12 28 1/4 12 3/4 5.07 63.39 2828 28 1/2 28 1/2 29 1/4 29 1/4 12.50 156.21	S220 0.20 0.01 19.810 495.25 2 PANEL	
3612 35 1/2 12 36 1/4 12 3/4 6.60 82.44	S206 5.06 63.25 0.22 0.09 19.810 495.25 1/2 LITE (NO MUNTINS)	
4812 47 1/2 12 48 1/4 12 3/4 8.88 111.01	S80 6.68 83.50 0.23 0.11 19.810 495.25 2/3 LITE (NO MUNTINS)	
6012 59 1/2 12 60 1/4 12 3/4 11.17 139.58	S118 9.15 114.38 0.29 0.16 19.810 495.25 FULL-LITE (NO MUNTINS) S4814 2.33 29.13 0.23 0.09 19.810 495.25 CRAFTSMAN (4-LITE MUTINS)	
7212 71 1/2 12 72 1/4 12 3/4 13.45 168.15	S4814 2.33 29.13 0.23 0.09 19.810 495.25 CRAFTSMAN (4-LITE MUTINS) S262 5.06 63.25 0.22 0.08 19.810 495.25 1/2 LITE 2 PANEL (4-LITE MUNTINS)	
3036 w/ELIP 29 1/2 48 1/2 30 1/4 49 22.04 275.46	S2106 6.68 83.50 0.23 0.10 19.810 495.25 2/3 LITE 2 PANEL (4-LITE MUNTINS)	
	\$1209 9.15 114.38 0.29 0.14 19.810 495.25 FULL-LITE (4-LITE MUNTINS)	S210SL S751SL S100SL S4812SL S212SL S1289SL S1209SL
	214 40.00 500.00 0.31 0.20 19.810 495.25 SLIDING GLASS DOOR	
	215 40.00 500.00 0.31 0.18 19.810 495.25 SLIDING GLASS DOOR (INT. MUNTINS)	1/8/Zeb 3/C H
INTERIOR DOORS	SIDELITES	
ROUGH OPENING	S210SL 2.21 27.63 0.18 0.05 - - HALF-LITE (NO MUNTINS) S751SL 2.21 27.60 0.18 0.05 - - 2/3 LITE (NO MUNTINS)	
PLAN SIZE WIDTH HEIGHT DESCRIPTION	S100SL 2.59 32.38 0.19 0.05 FULL-LITE (NO MUNTINS)	
CODE	S4812SL .74 9.25 0.22 0.06 - CRAFTSMAN (2-LITE MUNTINS)	▗▗▊▗▊▗▊▗▊▗▊▗▊ <i>▗▊▗▊</i> ▗▊▗▊ <u>▗▊</u> ▗▊▗▊▊▗▊ <i>▗▊</i> ▗▊▗▊▗▊▗▊▗▊▗▊▗▊▗▊▗▊▗▊▗▊▗▊▗▊▗▊▗
1668 1'-6" 6'-8" 20 1/2" PRE-HUNG INTERIOR 2068 2'-0" 6'-8" 26 1/2" PRE-HUNG INTERIOR PRE-HUNG INTERIOR	S212SL 2,21 27.63 0.18 0.04 - - HALF-LITE (2-LITE MUNTINS)	
2468 2'-4" 6'-8" 30 1/2" 82 1/2" PRE-HUNG INTERIOR	\$1089\$L 2.45 30.63 0.19 0.04 2/3 LITE (2-LITE MUNTINS)	NIRACT N
2668 2'-6" 6'-8" 32 1/2" 82 1/2" PRE-HUNG INTERIOR	S1209SL 2.59 32.38 0.18 0.04 FULL-LITE (2-LITE MUNTINS)	
2868 2'-8" 6'-8" 34 1/2" 82 1/2" PRE-HUNG INTERIOR		
3068 3'-0" 6'-8" 38 1/2" 82 1/2" PRE-HUNG INTERIOR		
2068 2'-0" 6'-8" 26 1/2" 94 1/2" PRE-HUNG INTERIOR W/ TRANSOM		
2468 2'-4" 6'-8" 30 1/2" 94 1/2" PRE-HUNG INTERIOR W/ TRANSOM		
2668 2'-6" 6'-8" 32 1/2" 94 1/2" PRE-HUNG INTERIOR W/ TRANSOM		S220 S206 S262 S80 S2106 S4814 S5 S5 S2 S80 S2106 S4814
2868 2'-8" 6'-8" 34 1/2" 94 1/2" PRE-HUNG INTERIOR W/ TRANSOM 3068 3'-0" 6'-8" 38 1/2" 94 1/2" PRE-HUNG INTERIOR W/ TRANSOM		PLAN PROGRAM P
4068 4'-0" 6'-8" 50 1/2" 94 1/2" PRE-HUNG INTERIOR W/ TRANSOM	EXTERIOR DOORS	<u></u>
5068 5'-0" 6'-8" 62 1/2" 94 1/2" PRE-HUNG INTERIOR W/ TRANSOM	* CLASS PATTENTS SHOWN ARE REPRESENTATIVE & MAY WAR'N IN DESIGN PRITED DOOR MANAFACTURERS' AND/OR DESIGN PRESSINGS 1 CLASS PATTENTS SHOWN ARE REPRESENTATIVE & MAY VARY'N DESIGN PRESSINGS 1 CLASS PATTENTS SHOWN ARE REPRESENTATIVE & MAY VARY'N DESIGN PRESSINGS 1 CLASS PATTENTS SHOWN ARE REPRESENTATIVE & MAY VARY'N DESIGN PRESSINGS 1 CLASS PATTENTS SHOWN ARE REPRESENTATIVE & MAY VARY'N DESIGN PRESSINGS SHOWN ARE REPRESENTATIVE & MAY VARY'N DESIGN PRESSION ARE REPRESENTATIVE & MAY VARY'N DESIGN ARE REPRESENTATIVE & MAY VARY'N DESI	
6068 6'-0" 6'-8" 74 1/2" 94 1/2" PRE-HUNG INTERIOR W/ TRANSOM	9/12/2024 BETHEEN DOOR WANGFACTRERS AND/OR DESIGN PRESSURES	
2068 2'-0" 6'-8" 26 1/2" 82 1/2" PRE-HUNG INTERIOR BIFOLD		
2668 2'-6" 6'-8" 32 1/2" 82 1/2" PRE-HUNG INTERIOR BIFOLD	Approval of this document does not authorize or	MATIONIA RESERV
3068 3'-0" 6'-8" 38 1/2" 82 1/2" PRE-HUNG INTERIOR BIFOLD	approve any deviation or deviations from the requirements of applicable State Laws.	2024 N. RIGHTS R
4068 4'-0" 6'-8" 50 1/2" 82 1/2" PRE-HUNG INTERIOR BIFOLD	David Barts	
5068 5'-0" 6'-8" 62 1/2" 82 1/2" PRE-HUNG INTERIOR BIFOLD 1680 1'-6" 8'-0" 20 1/2" 98 1/2" PRE-HUNG INTERIOR		PLAN NAME: © COULECTION/SERIES: © COPYRIGHT ALL R
2080 2'-0" 8'-0" 26 1/2" 98 1/2" PRE-HUNG INTERIOR PRE-HUNG INTERIOR		
2480 2'-4" 8'-0" 30 1/2" 98 1/2" PRE-HUNG INTERIOR		
2680 2'-6" 8'-0" 32 1/2" 98 1/2" PRE-HUNG INTERIOR		PAGE NO.
2880 2'-8" 8'-0" 34 1/2" 98 1/2" PRE-HUNG INTERIOR		S118 S1209 #214 #215
3080 3'-0" 8'-0" 38 1/2" 98 1/2" PRE-HUNG INTERIOR		22 of 52

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Nationwide Custom Homes Inc.

1100 RIVES ROAD MARTINSVILLE, VA. 24112 (276) 632-7100

Model Name and Contract No.: Heartland II #196879

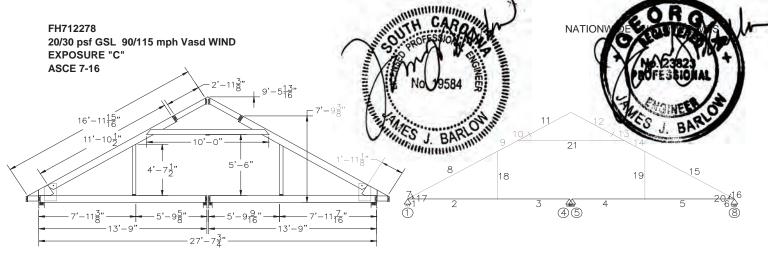
Electrical Load Calculations:

General Lighting Load: Small Appliance Load: (3 circuits) Laundry:		 	@ 3 volts-ampheres/ft2	= = =	4,800 4,500 1,500	watts watts watts
Net Load:		 		=	10,800	watts
Range:		 		=	8,640	watts
Microwave:		 		=	1,000	watts
Freezer:		 		=	1,800	watts
Dryer Load:		 		=	5,600	watts
Dishwasher:		 		=	1,032	watts
Water Heater: (4500 / 240 * 125%)		 		=	5,625	watts
Net Load:		 		=	34,497	watts
10000 watts @ 100%		 		=	10,000	watts
	34,497	24,497 @ 40%		=	9,799	watts
Net Load:		 		=	19,799	watts
Heat Pump - 1st floor (2-1/2 ton):		 		=	8,820	watts
Total Load:		 		=	28,619	watts
					,	
Calculated Load for Service:	20.040				440	A
	28,619	 APPROVED BY	··	=	119	Amperes
		AFFROVED BY				



General Notes:

1. Any site installed circuits (i.e. basement, heating/cooling, etc.) not to exceed service panel rating of 200 AMP. If additional loads exceed the main panel rating, the purchaser is responsible for site intallation of additional panel and/or adequate service entry. All installation to meet **2017 NEC**, subject to inspection by local jurisdiction.



TRUSS NO.: FH71228 JOB NO.: 240209 PITCH: 7/12 APPROVED BY

GROUND SNOW LOAD (psf): 30 20 TRUSS SPACING (in O.C.): 24 19.2 BALANCED SNOW LOAD (psf): 15.4 23.1 UNBALANCED SNOW LOAD (psf): 31 42.8 OPPOSITE SIDE UNB. SNOW LOAD (psf): 4.6 6.9 UNBALANCED SNOW LOAD LENGTH (ft): 4.3 5 MINIMUM ROOF LIVE LOAD (psf): 16

TC DL (psf): 10 BC DL (psf): 10 BC LL (psf): 10 WHERE h < 42" WHERE h ≧ 42" 20 BETWEEN KNEEWALLS

20 nsf

90 mph OH

ASD

-132

187

-585

-116

30 nsf

116 mph

ASD

-163

296

-747

-84

116 mph OH

ASD

-464

296

-1228

-231

0

-277

-229

0

-274

-465

0

-1221



Approval of this document does not authorize or

requirements of applicable State Laws.

9/12/2024

approve any deviation or deviation of deviat

WIND SPEED (mph) (Vult):	115	150
WIND SPEED (mph) (Vasd):	90	116
TRUSS SPACING (in O.C.):	24	24
ED TRUSS SPACING (in O.C.):	24	24
	-	

MEMBER YNFORMATE	ON:			MAXIMUM	
		SIZE &	MAXIMUM	DEFLECTION	
_	MEMBER	SPECIES	CSI	(in)	11
BOTTOM CHORD	1 - 3	2X8 SP #2	0.919	0.488	338
	4 - 6	2X8 SP #2	0.919		
TOP CHORD	7 & 16	2X12 SP #2	0.195	0.76	253
	8 - 10	2X6 SP #2	0.993		
	11 - 12	2X4 SP #2	0.411		
	13 - 15	2X6 SP #2	0.992		
WEDGES	17 & 20	(2) 7/16" OSB	-	-	-
KNEE WALLS	18 & 19	2X4 SP #2	0.19	-	-
COLLAR TIE	21	2X6 SP #2	0.314	0.018	5867

		zu psi	30 psi
GRAVITY REA	ACTIONS (lbs):	GSL	GSL
N1	DEAD LOAD	621	497
	TOTAL LOAD	1153	1059
MIN. BEAF	RING LENGTH (in)	2	1.83
N4	DEAD LOAD	111	89
	TOTAL LOAD	297	275
MIN. BEAF	RING LENGTH (in)	1.5 (MIN)	1.5 (MIN)
N5	DEAD LOAD	111	89
	TOTAL LOAD	297	275
MIN. BEAF	RING LENGTH (in)	1.5 (MIN)	1.5 (MIN)
N8	DEAD LOAD	621	497
	TOTAL LOAD	1153	1059
MIN. BEA	RING LENGTH (in)	2	1.83
•		•	

90 mph

ASD

48

187

-304

-27

NOTES:

- 1. TRUSS SPACING SHALL BE THE MORE RESTRICTIVE OF THE REQUIRED SNOW OR WIND.
- 2. LOAD DERIVATIONS AND COMBINATIONS ARE PER ASCE 7-16.
- 3. UNBALANCED SNOW HAS BEEN CONSIDERED IN THIS DESIGN DUE TO PITCH.
- 4. SNOW LOADS USE EXP. FACTOR = 1, THERMAL FACTOR = 1.1, IMP. FACTOR = 1.
- 5. THIS TRUSS HAS BEEN DESIGNED WITH THE MINIMUM ROOF LIVE LOAD AND THE CALCULATED SNOW LOADING APPLIED AS SEPARATE LOAD CASES AND COMBINATIONS.
- 6. LIVE LOADS HAVE BEEN REDUCED PER IRC TABLES R301.5 & R301.6.
- 7. WIND PRESSURES ARE FOR EXPOSURE CATEGORY C, RISK CATEGORY II, 33 ft MEAN ROOF HEIGHT, ENCLOSED BUILDING, MWFRS ENVELOPE PROCEDURE.
- 8. Th WI
- 9. TH
- 10. B INI
- 11. T
- 12. C
- 13. T
- 14. A

THIS TRUSS HAS BEEN DESIGNED USING ALLOWABLE STRESS DESIGN AND THE		MWFRS LAT.	0	0	0	
VIND LOADS HAVE BEEN CALCULATED USING THE Vasd WIND SPEED.		C & C	3	-135	-41	
THE TRUSS DEAD LOAD HAS BEEN REDUCED FOR WIND LOADING.	N5	MWFRS VERT.	-26	-115	-82	
BOTTOM CHORD OH EXPOSED TO WIND IS ANALYZED LOADING EACH SIDE		MWFRS LAT.	0	0	0	
NDEPENDENTLY AND FULL EXPOSURE AS SEPARATE LOAD COMBINATIONS.		C & C	4	-133	-38	
THIS TRUSS HAS BEEN DESIGNED TO BE INSTALLED AND LOADED VERTICALLY.	N8	MWFRS VERT.	48	-133	-164	
CONSTRUCTION AND LIFTING LOADS HAVE NOT BEEN CONSIDERED IN THIS DESIGN.		MWFRS LAT.	0	0	0	
TRUSS BRACING IS ASSUMED SHEATHING ON BOTTOM AND TOP CHORDS.		C & C	-299	-580	-740	-
ADDITIONAL PERMANENT BRACING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER.						
MEMBER 24 IS TO BE LATERALLY BRACER AT MID SPAN			attitities			

WIND REACTIONS (lbs):

N₁

N4

MWFRS VERT

MWFRS LAT.

C & C

MWFRS VERT.



FH712278 20/30 psf GSL 90/115 mph Vasd WIND EXPOSURE "C" **ASCE 7-16**



TRUSS NO.: FH71228 JOB NO.: 240209 PITCH: 7/12 SPAN: 27'-8"

GROUND SNOW LOAD (psf): 20 / 30 WIND SPEED (mph) (Vasd): 116

NOTES: 1. SUITABLE CONNECTIONS MAY BE SUBSTITUTED.

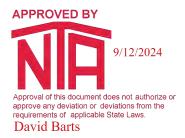
- 2. GRAVITY FORCES HAVE BEEN ADJUSTED FOR LOAD DURATION. A CD OF 1.0 SHALL BE USED FOR GRAVITY LOAD CASES.
- 2. WIND FORCES HAVE NOT BEEN ADJUSTED FOR LOAD DURATION. A CD OF 1.6 SHALL BE USED FOR WIND LOAD CASES.

UPLIFT CONNECTIONS (MWFRS LOADS):

STANDARD WIND	ST	AN	DA	RD	WIN	D
---------------	----	----	----	----	-----	---

LIC	STANDARD WIND		
1.5 OK FOR 1.10°2 x 26 as STRAP w (2) 80 (0.131° x 2.29) COMMON NALI, CR w (2) 16 ga x 2.25° x 7/16° STAPLE EACH END OR OR FOR SIMPSON CS20 STRAP w (2) 0.131° x 2.29) COMMON NALI CR w (2) 16 ga x 2.25° x 7/16° STAPLE EACH END OR OR FOR SIMPSON CS20 STRAP w (3) 0.131° x 2.27 NALIS EACH END OR OR FOR SIMPSON LOTS 225° STRAP w (3) 0.131° x 2.27 NALIS EACH END OR FOR SIMPSON LOTS 225° NALIS EACH END OR FOR FOR SIMPSON LOTS 225° NA	N1		
OR OK FOR 1 12" x 20" gas STRAP w (2) 86 (0.131" x 2.5") COMMON NAIL, OR w (2) 10" gas x 2.5" x 716" STAPLE EACH END OR OK FOR SIMPSON ISTA STRAP w (2) 0.131" x 15" NAILS EACH END OR OK FOR SIMPSON ISTA STRAP w (2) 0.13" x 15" NAILS EACH END ALTERNATE (2) 166 (0.16" x 3.5") COMMON NAILS THROUGH BAND INTO 8C (ENDORANI) PLUS (2) 86 (0.13" x 3") COMMON NAILS THROUGH BAND INTO 8C (ENDORANI) PLUS (8) 86 (0.13" x 3") COMMON NAILS THROUGH BAND INTO 8C (ENDORANI) PLUS (9) 86 (0.13" x 3") COMMON NAILS THROUGH BAND INTO 8C (ENDORANI) PLUS (9) 86 (0.13" x 3") COMMON NAILS THROUGH BAND INTO 8C (ENDORANI) PLUS (9) 86 (0.13" x 3") COMMON NAILS THROUGH BAND INTO 8C (ENDORANI) PLUS (9) 86 (0.13" x 3") COMMON NAILS THROUGH BAND INTO 8C (ENDORANI) PLUS (9) 86 (0.13" x 3") COMMON NAILS THROUGH BAND INTO 8C (ENDORANI) PLUS (9) 86 (0.15" x 3") COMMON NAILS THROUGH BAND INTO 10 (ENDORANI) PLUS (1) 80 (0.15" x 3") COMMON NAILS THROUGH BAND INTO 10 (PACE) PLUS (1) 80 (0.15" x 3") COMMON NAILS THROUGH BAND INTO 10 (PACE) PLUS (1) 80 (0.15" x 3") COMMON NAILS THROUGH BAND INTO 10 (PACE) PLUS (1) 80 (0.15" x 3") COMMON NAILS THROUGH BAND INTO 10 (PACE) PLUS (1) 80 (0.15" x 3") COMMON NAILS THROUGH BAND INTO 10 (PACE) PLUS (1) 80 (0.15" x 3") COMMON INTO 10 (PACE) PLUS (1) 80 (0.15" x 3") COMMON INTO 10 (PACE) PLUS (2) 80 (0.15" x 3") COMMON INTO 15" ROUGH BAND INTO 10 (PACE) PLUS (2) 80 (0.15" x 3") COMMON INTO 15" REACH END (3) 60 (N FOR SIMPSON IS 7% STRAP W (2) (3) 0.14" x 2.5") COMMON INTO 10 (PACE) (2) 80 (0.15" x 3") COMMON INTO 15" REACH BAND INTO 10 (PACE) PLUS (2) 80 (0.15" x 3") COMMON INTO 15" REACH BAND INTO 10 (PACE) PLUS (2) 80 (0.15" x 3") COMMON INTO 15" REACH BAND INTO 10 (PACE) PLUS (2) 80 (0.15" x 3") COMMON INTO 15" REACH BAND INTO 10 (PACE) PLUS (3) 80 (15" x 3") COMMON INTO 15" REACH BAND INTO 10 (PACE) PLUS (4) 80 (15" x 3") COMMON INTO 15" REACH BAND INTO 10 (PACE) PLUS (5) 80 (15" x 3") COMMON INTO 15" REACH BAND INTO 10 (PACE) PLUS (6) 15" 15" 15" 15" 15" 15" 15" 15" 15" 15"	UPLIFT (lbs)	LC	CD
OR OK FOR SIMPSON CS20 STRAP W (2) 0.131 * x 2.5* NALS EACH END OR OK FOR SIMPSON H3 TE W (8) 0.131 * x 15* NALS EACH END OR OK FOR SIMPSON H3 TE W (8) 0.131 * x 15* NALS EACH END ALTERNATE (2) 86 (0.152* x 3.5) COMMON NALIS THROUGH SHEATHING INTO BAND AND STUD (FACE) ALTERNATE (3) 66 (0.152* x 3.5) COMMON NALIS THROUGH SHEATHING INTO BAND AND STUD (FACE) ALTERNATE (3) 66 (0.152* x 3.5) COMMON NALIS THROUGH SHEATHING INTO BAND AND STUD (FACE) OR NO ADDITIONAL CONNECTION RECID OR NO RECIPION RECIPIO	163	WIND	1.6 OK FOR 1 1/2" x 26 ga STRAP w/ (2) 8d (0.131" x 2.5") COMMON NAIL OR w/ (2) 16 ga x 2.5" x 7/16" STAPLE EACH END
OR OK FOR SIMPSON LISTAS STRAP W (8) 0.131* x 25* TANLE SACH END OR OK FOR SIMPSON HIST W (8) 0.131* x 35* TANLE SACH END ALTERNATE (2) 160 (0.162* x 3.59) COMMON NALIS THROUGH BAND INTO 8C (ENDGRAN) PLUS (2) 80 (0.131* x 37) COMMON NALIS THROUGH BAND INTO 8C (ENDGRAN) PLUS (8) 80 (3.13* x 32) COMMON NALIS THROUGH SHEATHING NTO BAND AND STLID (FACE) NO ADDITIONAL CONNECTION RECID OR NO ADDITIONAL STRAP W (2) 88 (0.131* x 2.59) COMMON NAIL OR W (2) 16 ga x 2.5° x 7/16" STAPLE EACH END OR OR KFOR SIMPSON CAS STRAP W (2) 88 (0.131* x 2.59) COMMON NAIL OR W (2) 16 ga x 2.5° x 7/16" STAPLE EACH END OR OR KFOR SIMPSON CAS STRAP W (3) 0.140* x 2.5° NAILS EACH END OR OR KFOR SIMPSON CAS STRAP W (3) 0.140* x 2.5° NAILS EACH END OR OR KFOR SIMPSON CAS STRAP W (3) 0.140* x 2.5° NAILS EACH END OR OR OR CONNECTION RECID OR NO ADDITIONAL CONNECTION RECID OR			OR OK FOR 1 1/2" x 20 ga STRAP w/ (2) 8d (0.131" x 2.5") COMMON NAIL OR w/ (2) 16 ga x 2.5" x 7/16" STAPLE EACH END
ATTERNATE: (2) 18 (0) 1627 x 337 COMMON NAILS THROUGH SHARD INTO BO (ENDORAND) PLUS (2) 86 (0) 1311 x 37 COMMON NAILS THROUGH SHEATHING INTO BAND AND STUD (FACE) ALTERNATE: (3) 18 (0) 1627 x 337 COMMON NAILS THROUGH SHEATHING INTO BAND AND STUD (FACE) (9) 86 (0) 1311 x 37 COMMON NAILS THROUGH SHEATHING INTO BAND AND STUD (FACE) PLUS (NO ADDITIONAL CONNECTION RECID OR NO KFOR 11/2* x 20 ga STRAP W(2) 84 (0.1311* x 2.57) COMMON NAIL OR W(2) 16 ga x 2.57 x 7/16* STAPLE EACH END OR OK FOR SIMPSON CS30 STRAP W(2) 84 (0.1311* x 2.57) COMMON NAIL OR W(2) 16 ga x 2.57 x 7/16* STAPLE EACH END OR OK FOR SIMPSON CS30 STRAP W(3) 84 (0.1311* x 2.57) COMMON NAIL STAPLE EACH END OR OK FOR SIMPSON H3 TIE W(8) 0.1311* x 2.57 NAILS EACH END OR OK FOR SIMPSON H3 STRAP W(3) 84 (0.1311* x 2.57 NAILS EACH END OR NO K FOR SIMPSON H3 STRAP W(3) 84 (0.1311* x 2.57 NAILS EACH END OR NO ADDITIONAL CONNECTION RECID OR NO ADDITIONAL CONNE			OR OK FOR SIMPSON CS20 STRAP w/ (2) 0.131" x 2.5" NAILS EACH END
ALTERNATE: (2) 16d (0.162* x 3.57) COMMON NAILS THROUGH BEATHING INTO BAD AND STUD (FACE) 2) 28d (0.131* x 3) COMMON NAILS THROUGH BEATHING INTO BAD AND STUD (FACE) ALTERNATE: (4) 16d (0.162* x 3.57) COMMON NAILS THROUGH BEATHING INTO BAD AND STUD (FACE) PLUS NO ADDITIONAL CONNECTION RECD OR NO FOR 1122* x 26 gs STRAP w/ (2) 8d (0.131* x 2.57) COMMON NAIL OR w/ (2) 16 gs x 2.57* x 7/16* STAPLE EACH END OR OK FOR 1.122* x 26 gs STRAP w/ (2) 8d (0.131* x 2.57) COMMON NAIL OR w/ (2) 16 gs x 2.57* x 7/16* STAPLE EACH END OR OK FOR SUMPSON LSTARS STRAP w/ (2) 8d (0.131* x 2.57* NAILS EACH END OR OK FOR SUMPSON LSTARS STRAP w/ (2) 8d (0.131* x 2.57* NAILS EACH END OR OK FOR SUMPSON LSTARS STRAP w/ (2) 18d (0.148* x 2.57* NAILS EACH END ALTERNATE: (2) 16d (0.182* x 3.57* COMMON NAILS THROUGH BAND BITD BY CARREST STRAP EACH END ALTERNATE: (2) 16d (0.182* x 3.57* COMMON NAILS THROUGH BAND BITD BY CARREST STRAP EACH END OR NO ADDITIONAL CONNECTION RECD OR NO ADDITIONAL CONNEC			OR OK FOR SIMPSON LSTA9 STRAP w/ (8) 0.148" x 2.5" NAILS EACH END
ALTERNATE (a) 160 (1.62° x 35°) COMMON NAILS THROUGH SHAP INTO BOD RENDERS IN PLUS (9 86 (0.131° x 35°) COMMON NAILS THROUGH SHAP INTO BOD (FACE) PLUS (9 86 (0.131° x 35°) COMMON NAILS THROUGH SHEATHING INTO BAND AND STUD (FACE) PLUS (9 80 (0.131° x 35°) COMMON NAILS THROUGH SHEATHING INTO BAND AND STUD (FACE) PLUS (9 80 ADDITIONAL CONNECTION RECO) OR NO RECONDERS IN STAPP W (2) 80 (131° x 2.5°) COMMON NAIL OR W (2) 16 ga x 2.5° x 7/16° STAPLE EACH END OR OK FOR 11 12° x 26 ga STRAP W (2) 88 (0.131° x 2.5°) COMMON NAIL OR W (2) 16 ga x 2.5° x 7/16° STAPLE EACH END OR OK FOR SIMPSON ISTAPS W (2) 0.131° x 2.5° NAILS EACH END OR OK FOR SIMPSON ISTAPS STAP W (2) 0.131° x 2.5° NAILS EACH END OR OK FOR SIMPSON ISTAPS W (2) 0.131° x 2.5° NAILS EACH END OR OK FOR SIMPSON ISTAPS STAP W (2) 0.131° x 2.5° NAILS EACH END OR OK FOR SIMPSON ISTAPS STAP W (2) 0.131° x 2.5° NAILS EACH END OR OK FOR SIMPSON ISTAPS W (3) 0.131° x 2.5° NAILS EACH END OR OK FOR SIMPSON ISTAPS W (3) 0.131° x 2.5° NAILS EACH END OR OK FOR SIMPSON ISTAPS W (3) 0.131° x 2.5° NAILS EACH END OR OK FOR SIMPSON ISTAPS W (3) 0.131° x 2.5° NAILS EACH END OR OK FOR SIMPSON ISTAPS W (3) 0.131° x 2.5° NAILS EACH END OR OK FOR SIMPSON ISTAPS W (3) 0.131° x 2.5° NAILS EACH END OR OK FOR SIMPSON ISTAPS W (3) 0.131° x 2.5° NAILS EACH END OR OK FOR SIMPSON ISTAPS W (3) 0.00 MMON NAILS THROUGH SHEATHING INTO BAND AND STUD (FACE) PLUS NO ADDITIONAL CONNECTION RECO) OR NO ADDITIONAL CONNECTION			OR OK FOR SIMPSON H3 TIE w/ (8) 0.131" x 1.5" NAILS EACH END
ALTERNATE: (4) 16d (0.162* x 3.57) COMMON NAILS THROUGH BAND INTO BC (ENDGRAIN) PLUS (9) 64 (0.131* x 37) COMMON NAILS THROUGH SHEATHING (INTO BAND AND STUD (FACE) PLUS (NO ADDITIONAL CONNECTION RECD) (OR NO ADDITIONAL CONNECTION RECD) 4 UPLIET (Ibs) (D. 1.6 (2) 16d (0.162* x 3.57) COMMON NAILS THROUGH BAND INTO TOP PLATE (TOENAILED) 1.6 (2) 16d (0.162* x 3.57) COMMON NAIL OR w/ (2) 16 gax x 2.5* x 7/16* STAPLE EACH END (OR OK FOR 1 1/2* x 20 ga STRAP w/ (2) 8d (0.131* x 2.5*) COMMON NAIL OR w/ (2) 16 gax x 2.5* x 7/16* STAPLE EACH END (OR OK FOR SIMPSON LSTARS STRAP w/ (2) 1.48* x 2.5* NAILS EACH END (OR OK FOR SIMPSON LSTARS STRAP w/ (3) 1.48* x 2.5* NAILS EACH END (OR OK FOR SIMPSON LSTARS STRAP w/ (3) 1.48* x 2.5* NAILS EACH END (OR OK FOR SIMPSON LSTARS STRAP w/ (3) 1.48* x 2.5* NAILS EACH END (OR OK FOR SIMPSON LSTARS STRAP w/ (3) 1.48* x 2.5* NAILS EACH END (OR OK FOR SIMPSON LSTARS STRAP w/ (3) 1.48* x 2.5* NAILS EACH END (OR OK FOR SIMPSON LSTARS STRAP w/ (3) 1.48* x 2.5* NAILS EACH END (OR OK FOR SIMPSON LSTARS STRAP w/ (3) 1.48* x 2.5* NAILS EACH END (OR OK FOR SIMPSON LSTARS STRAP w/ (3) 1.48* x 2.5* NAILS EACH END (OR OK FOR SIMPSON LSTARS STRAP w/ (3) 1.48* x 2.5* NAILS EACH END (OR OK FOR SIMPSON LSTARS STRAP w/ (3) 1.48* x 2.5* NAILS EACH END (OR OK FOR SIMPSON LSTARS STRAP w/ (3) 1.48* x 2.5* NAILS EACH END (OR OK FOR SIMPSON LSTARS STRAP w/ (3) 1.48* x 2.5* NAILS EACH END (OR OK FOR SIMPSON LSTARS W/ (3) 1.48* x 2.5* NAILS EACH END (OR OK FOR SIMPSON LSTARS W/ (3) 1.48* x 2.5* NAILS EACH END (OR OK FOR SIMPSON LSTARS W/ (3) 1.48* x 2.5* NAILS EACH END (OR OK FOR SIMPSON LSTARS W/ (3) 1.48* x 2.5* NAILS EACH END (OR OK FOR SIMPSON LSTARS W/ (3) 1.48* x 2.5* NAILS EACH END (OR OK FOR SIMPSON LSTARS W/ (3) 1.48* x 2.5* NAILS EACH END (OR OK FOR SIMPSON LSTARS W/ (3) 1.48* x 2.5* NAILS EACH END (OR OK FOR SIMPSON LSTARS W/			ALTERNATE: (2) 16d (0.162" x 3.5") COMMON NAILS THROUGH BAND INTO BC (ENDGRAIN) PLUS
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FH712278 20/30 psf GSL 90/115 mph Vasd WIND EXPOSURE "C" **ASCE 7-16**



TRUSS NO.: FH71228 JOB NO.: 240209 PITCH: 7/12 SPAN: 27'-8"

GROUND SNOW LOAD (psf): 20 / 30 WIND SPEED (mph) (Vasd): 116

NOTES: 1. SUITABLE CONNECTIONS MAY BE SUBSTITUTED.

- 2. GRAVITY FORCES HAVE BEEN ADJUSTED FOR LOAD DURATION. A CD OF 1.0 SHALL BE USED FOR GRAVITY LOAD CASES.
- 2. WIND FORCES HAVE NOT BEEN ADJUSTED FOR LOAD DURATION. A CD OF 1.6 SHALL BE USED FOR WIND LOAD CASES.

UPLET (18)	NE				
1.0 OK FOR 11/2" x 20 9 STRAP W (2) M (3) 11/3" x 25) COMMON NAL ON W (2) 16 ga x 25" x 7/16" STAPLE EACH END OR OK FOR SIMPSON LOSS 3 STRAP W (2) 0.13" x 2.5" KINLE EACH END OR OK FOR SIMPSON LOSS 3 STRAP W (2) 0.13" x 2.5" KINLE EACH END OR OK FOR SIMPSON LOSS 3 STRAP W (2) 0.13" x 2.5" KINLE EACH END OR OK FOR SIMPSON LOSS 3 STRAP W (2) 0.13" x 2.5" KINLE EACH END OR OK FOR SIMPSON LOSS 3 STRAP W (2) 0.13" x 2.5" KINLE EACH END OR OK FOR SIMPSON HOUSE AND STRUP W (3) 0.13" x 2.5" KINLE EACH END OR OK FOR SIMPSON HOUSE X 35" COMMON NALIS THROUGH SHEATHING INTO BAND AND STLUD (FACE) PLUS ON ADDITIONAL CONNECTION RECOTO OR NO FOR SIMPSON COSSO STRAP W (2) 0.13" x 2.5" X 7.15" STAPLE EACH END OR OK FOR SIMPSON COSSO STRAP W (2) 0.13" x 2.5" X 7.15" STAPLE EACH END OR OK FOR SIMPSON COSSO STRAP W (2) 0.13" x 2.5" X 7.15" STAPLE EACH END OR OK FOR SIMPSON COSSO STRAP W (2) 0.13" x 2.5" X 7.15" STAPLE EACH END OR OK FOR SIMPSON COSSO STRAP W (2) 0.13" x 2.5" X 7.15" STAPLE EACH END OR OK FOR SIMPSON COSSO STRAP W (2) 0.13" x 2.5" X 7.15" STAPLE EACH END OR OK FOR SIMPSON COSSO STRAP W (2) 0.13" x 2.5" X 7.15" STAPLE EACH END OR OK FOR SIMPSON COSSO STRAP W (2) 0.13" x 2.5" X 7.15" STAPLE EACH END OR OK FOR SIMPSON COSSO STRAP W (2) 0.13" x 2.5" X 7.15" STAPLE EACH END OR OK FOR SIMPSON COSSO STRAP W (2) 0.13" x 2.5" X 7.15" STAPLE EACH END OR OK FOR SIMPSON COSSO STRAP W (2) 0.13" x 2.5" X 7.15" STAPLE EACH END OR OK FOR SIMPSON COSSO STRAP W (2) 0.13" x 2.5" X 7.15" STAPLE EACH END OR OK FOR SIMPSON COSSO STRAP W (2) 0.13" x 2.5" X 7.15" STAPLE EACH END OR OK FOR SIMPSON COSSO STRAP W (2) 0.13" x 2.5" X 7.15" STAPLE EACH END OR OK FOR SIMPSON COSSO STRAP W (2) 0.13" x 2.5" X 7.15" STAPLE EACH END OR OK FOR SIMPSON COSSO STAP W (2) 0.13" x	N5 UPLIFT (lbs)	I.C.	CD		
OR OK FOR 112" x 20 gs \$TRAP w (2) 6 13" x 25" (COMMON NAIL OR w (2) 16 gs x 25" x 7/16" \$TAPLE EACH END OR OK FOR SIMPSON STATE \$TAPLE \$1.00 (1.01" x 1.25" NAILS EACH END OR OK FOR SIMPSON STATE \$1.00 (1.01" x 1.25" NAILS EACH END OR OK FOR SIMPSON STATE \$1.00 (1.01" x 1.25" NAILS EACH END OR OK FOR SIMPSON STATE \$1.00 (1.01" x 1.25" NAILS EACH END OR OK FOR SIMPSON STATE \$1.00 (1.01" x 1.25" NAILS EACH END OR OK FOR SIMPSON STATE \$1.00 (1.01" x 1.25" NAILS EACH END OR OK FOR SIMPSON STATE \$1.00 (1.01" x 1.25" NAILS EACH END OR OK FOR SIMPSON STATE \$1.00 (1.01" x 1.25" NAILS EACH END OR OK FOR SIMPSON STATE \$1.00 (1.01" x 1.25" NAILS EACH END OR OK FOR SIMPSON STATE \$1.00 (1.01" x 1.25" NAILS EACH END OR OK FOR SIMPSON STATE \$1.00 (1.01" x 1.25" NAILS EACH END OR NAIL \$1.00 (1.01" x 1.25" NAILS EACH EN	, ,			OK FOR 1.1/2" x 26 na STRAP w/ (2), 8d (0,	131" x 2.5") COMMON NAIL OR w/ (2) 16 ga x 2.5" x 7/16" STAPLE FACH END
OR OK FOR SIMPSON CAS STRAP W (2) 0.131* x 25* NAILS EACH END OR OK FOR SIMPSON LATIS AT STRAMS POWEN (3) 1.48* x 25* NAILS EACH END OR OK FOR SIMPSON LATIS AT STRAMS EACH END ALTERNATE (3) 16 (0.121* x 31)* COMMON NAILS THROUGH END NOTO SC (ENDORAN) PLUS (7) 16 (0.131* x 31)* COMMON NAILS THROUGH END NOTO SC (ENDORAN) PLUS (8) 16 (0.131* x 31)* COMMON NAILS THROUGH ENTATHING INTO BAND AND STUD (FACE) PLUS NO ADDITIONAL CONNECTION RECID OR OK FOR 11/2" x 26 gs STRAP W (2) M (0.131* x 2.5*) COMMON NAIL OR W (2) 16 gs x 2.5* x 7/6* STAPLE EACH END OR OK FOR 11/2" x 26 gs STRAP W (2) M (0.131* x 2.5*) COMMON NAIL OR W (2) 16 gs x 2.5* x 7/6* STAPLE EACH END OR OK FOR SIMPSON LASS STRAP W (3) M (0.131* x 2.5*) COMMON NAIL OR W (2) 16 gs x 2.5* x 7/6* STAPLE EACH END OR OK FOR SIMPSON LASS STRAP W (3) M (0.131* x 2.5*) COMMON NAIL OR W (2) 16 gs x 2.5* x 7/6* STAPLE EACH END OR OK FOR SIMPSON LASS STRAP W (3) M (0.131* x 2.5*) COMMON NAIL OR W (2) 16 gs x 2.5* x 7/6* STAPLE EACH END OR OK FOR SIMPSON LASS STRAP W (3) M (0.131* x 2.5*) COMMON NAIL OR W (2) 16 gs x 2.5* x 7/6* STAPLE EACH END OR OK FOR SIMPSON LASS STRAP W (3) M (0.131* x 2.5*) COMMON NAIL OR W (2) 16 gs x 2.5* x 7/6* STAPLE EACH END OR OK FOR SIMPSON LASS STRAP W (3) M (0.131* x 2.5*) COMMON NAIL OR W (2) M (0.131* x 2.5*) COMMON NAIL OR W (2) M (0.131* x 2.5*) COMMON NAIL OR W (2) M (0.131* x 2.5*) COMMON NAIL OR W (2) M (0.131* x 2.5*) COMMON NAIL OR W (2) M (0.131* x 2.5*) COMMON NAIL OR W (2) M (0.131* x 2.5*) COMMON NAIL OR W (2) M (0.131* x 2.5*) COMMON NAIL OR W (2) M (0.131* x 2.5*) COMMON NAIL OR W (2) M (0.131* x 2.5*) COMMON NAIL OR W (2) M (0.131* x 2.5*) COMMON NAIL OR W (2) M (0.131* x 2.5*) COMMON NAIL OR W (2) M (0.131* x 2.5*) COMMON NAIL OR W (2) M (0.131* x 2.5*) COMMON NAIL OR W (2) M (0.131* x 2.5*) COMMON NAIL OR W (2) M (0.131* x 2.5*) COMMON NAIL OR W (2) M (0.131* x 2.5*) COMMON NAIL OR W (2)	02	******		• , , ,	, , ,
OR OK FOR SIMPSON LETA'S STAPP W (9) 1149 x 257 NALIS EACH END OR OK FOR SIMPSON HAT BY W (9) 0,0138 x 157 NALIS EACH END OR OK FOR SIMPSON HAT BY SICOMMON HAUS THROUGH BARD INTO BC (ENDGRANN PLUS (1) 58 (0.134 x 3) COMMON HAUS THROUGH BARD INTO BC (ENDGRANN PLUS (1) 58 (0.134 x 3) COMMON HAUS THROUGH BARD INTO BC (ENDGRANN PLUS (1) 58 (0.134 x 3) COMMON HAUS THROUGH BARD INTO BC (ENDGRANN PLUS (1) 58 (0.134 x 3) COMMON HAUS THROUGH BARD INTO BC (ENDGRANN PLUS (1) 58 (0.134 x 3) COMMON HAUS THROUGH BARD INTO BC (ENDGRANN PLUS (1) 50 (0.134 x 25 0) COMMON HAUS THROUGH BARD INTO BC (ENDGRANN PLUS (1) 50 (0.134 x 25 0) COMMON HAUS THROUGH BARD INTO BC (ENDGRANN PLUS (1) 50 (0.134 x 25 0) COMMON HAUS THROUGH BARD INTO BC (ENDGRANN PLUS (1) 50 (0.134 x 25 0) COMMON HAUS CHARD INTO BC (1) 50 (0.134 x 2.57) COMMON NAIL OR W (2) 16 (93 x 2.57 x 7/16° STAPLE EACH END OR OK FOR SIMPSON (250) STRAP W (2) 58 (0.131 x 2.57) COMMON NAIL OR W (2) 16 (93 x 2.57 x 7/16° STAPLE EACH END OR OK FOR SIMPSON (250) STRAP W (2) 58 (0.131 x 2.57) COMMON NAIL OR W (2) 16 (93 x 2.57 x 7/16° STAPLE EACH END OR OK FOR SIMPSON (250) STRAP W (2) 58 (0.131 x 2.57) COMMON NAIL OR W (2) 16 (93 x 2.57 x 7/16° STAPLE EACH END OR OK FOR SIMPSON (250) STRAP W (2) 58 (0.131 x 2.57) COMMON NAIL OR W (2) 16 (93 x 2.57 x 7/16° STAPLE EACH END OR OK FOR SIMPSON (250) STRAP W (2) 16 (1) 18 x 2.57 Y 7/16° STAPLE EACH END OR OK FOR SIMPSON (250) STRAP W (2) 16 (1) 18 x 2.57 Y 7/16° STAPLE EACH END OR OK FOR SIMPSON (250) STRAP W (2) 16 (1) 18 x 2.57 Y 7/16° STAPLE EACH END OR OK FOR SIMPSON (250) STRAP W (2) 16 (1) 18 x 2.57 Y 7/16° STAPLE EACH END OR OK FOR SIMPSON (250) STRAP W (2) 16 (1) 18 x 2.57 Y 7/16° STAPLE EACH END OR OK FOR SIMPSON (250) STRAP W (2) 16 (1) 18 x 2.57 Y 7/16° STAPLE EACH END OR OK FOR SIMPSON (250) STRAP W (2) 16 (1) 18 x 2.57 Y 7/16° STAPLE EACH END OR OK FOR SIMPSON (250) STRAP W (2) 16 (1) 18 x 2.57 Y 7/16° STAPLE EACH END OR OK FOR SIMPSON (250) STRAP W (2) 16 (1) 18 x 2.57 Y 7/16° STAPLE EACH END OR OK FOR SIMPSON (250) STRAP				• , , ,	, , , ,
ALTERNATE (2) 16 dig 162° x 35°) COMMON NAILS THROUGH BADD NTD 50 (ENDGRAN) PLUS (2) 84 (0.131° x 31°) COMMON NAILS THROUGH BADD NTD 50 (ENDGRAN) PLUS (3) 84 (0.131° x 31°) COMMON NAILS THROUGH BADD NTD 50 (ENDGRAN) PLUS (3) 84 (0.131° x 31°) COMMON NAILS THROUGH BADD NTD 50 (ENDGRAN) PLUS (3) 84 (0.131° x 31°) COMMON NAILS THROUGH BADD NTD 50 (ENDGRAN) PLUS (3) 84 (0.131° x 31°) COMMON NAILS THROUGH BADD NTD 50 (ENDGRAN) PLUS (3) 84 (0.131° x 31°) COMMON NAILS THROUGH BADD NTD 50 (ENDGRAN) PLUS (4) 84 (0.131° x 31°) COMMON NAILS THROUGH BADD NTD 50 (ENDGRAN) PLUS (5) 84 (0.131° x 31°) COMMON NAILS THROUGH BADD NTD 50 (ENDGRAN) PLUS (6) 84 (0.131° x 31°) COMMON NAILS THROUGH BADD NTD 50 (ENDGRAN) PLUS (7) 84 (0.131° x 25°) COMMON NAIL OR W (2) 16 93 x 2.5° x 7/10° STAPLE EACH END (8) 60 (E FOR 1 1/2° x 26 gp STRAP W (2) 84 (0.131° x 2.5°) COMMON NAIL OR W (2) 16 93 x 2.5° x 7/10° STAPLE EACH END (6) 60 (E FOR 8 SIMPSON LST 30 STRAP W (2) 84 (0.131° x 2.5° NAILS EACH END (6) 60 (E FOR 8 SIMPSON LST 30 STRAP W (2) 84 (0.131° x 2.5° NAILS EACH END (7) 60 (E FOR 8 SIMPSON LST 30 STRAP W (2) 84 (0.131° x 2.5° NAILS EACH END (7) 60 (E FOR 8 SIMPSON LST 30 STRAP W (2) 84 (0.131° x 2.5° NAILS EACH END (7) 60 (E FOR 8 SIMPSON LST 30 STRAP W (2) 84 (0.131° x 2.5° NAILS EACH END (8) 60 (131° x 31° COMMON NAILS THROUGH BAND RTD 60 (ENDGRAN) PLUS (7) 84 (0.131° x 31° COMMON NAILS THROUGH BAND RTD 60 (ENDGRAN) PLUS (7) 84 (0.131° x 31° COMMON NAILS THROUGH BAND RTD 60 (ENDGRAN) PLUS (7) 84 (0.131° x 31° COMMON NAILS THROUGH BAND RTD 60 (ENDGRAN) PLUS (7) 84 (0.131° x 31° COMMON NAILS THROUGH BAND RTD 60 (ENDGRAN) PLUS (7) 84 (0.131° x 31° COMMON NAILS THROUGH BAND RTD 60 (ENDGRAN) PLUS (7) 84 (0.131° x 31° COMMON NAILS THROUGH BAND RTD 60 (ENDGRAN) PLUS (7) 84 (0.131° x 31° COMMON NAILS THROUGH BAND RTD 60 (ENDGRAN) PLUS (7) 84 (0.131° x 31° COMMON NAILS THROUGH BAND RTD 60 (ENDGRAN) PLUS (8) 84 (0.131° x 31° COMMON NAILS THROUGH BAND RTD 60 (ENDGRAN) PLUS (8) 84 (0.131° x 31° COMMON NAILS THROUGH BAND RTD 60 (ENDGRAN) PLUS				* * *	
ALTERNATE (2) 156 (1.162 x 3.5) COMMON NALS THROUGH BAND MTO BO (ENDORAN) PLUS (2) 88 (6) 101 x 2) COMMON NALS THROUGH BAND MTO BO (ENDORAN) PLUS (9) 88 (6) 101 x 2) COMMON NALS THROUGH BAND MTO BO (ENDORAN) PLUS (9) 0. NO ADDITIONAL CONNECTION RECID OR OR FOR 11 12 x 26 gs STRAP BY (2) 84 (0.131 x 2.2) COMMON NAL OR BY (2) 16 gs x 2.5 x 7 716* STAPLE EACH END OR OR FOR 11 12 x 26 gs STRAP BY (2) 84 (0.131 x 2.2) COMMON NAL OR BY (2) 16 gs x 2.5 x 7 716* STAPLE EACH END OR OR FOR SIMPSON LETAS EACH END OR FOR EACH END OR FOR EACH END OR FOR EACH END OR FOR EA					
(2) 88 (0.131" x 37) COMMON NAILS] THROUGH SHEATHING INTO BAND AND STUD (FACE) ALTERNATE (1) 46 (0.131" x 37) COMMON NAILS THROUGH BAND BYTGE (FENGRAM) PILIS NO ADDITIONAL CONNECTION RECID OR NO FOR 11/2" x 26 gs STRAP w/ (2) 84 (0.131" x 2.5") COMMON NAIL OR w/ (2) 16 gs x 2.5" x 7/16" STAPLE EACH END OR OR FOR 11/2" x 26 gs STRAP w/ (2) 84 (0.131" x 2.5") COMMON NAIL OR w/ (2) 16 gs x 2.5" x 7/16" STAPLE EACH END OR OR FOR SIMPSON CS20 STRAP w/ (3) 0.14" x 2.5" NAILS EACH END OR OR FOR SIMPSON CS20 STRAP w/ (3) 0.14" x 2.5" NAILS EACH END ALTERNATE (2) 16 gift (2) x 3.5" COMMON NAIL STREQUEH BAND BYTG BE (ERNOGRAM) PILIS (2) 86 (0.131" x 37) COMMON NAILS THROUGH BAND BYTG BE (ERNOGRAM) PILIS ALTERNATE (2) 16 gift (2) x 3.5" COMMON NAILS THROUGH BAND BYTG BE (ERNOGRAM) PILIS OR NO ADDITIONAL CONNECTION RECID OR NO ADDITIONAL CONNE					
(9) 88 (0.131* x2) COMMON NAILS THROUGH SHEATHING INTO BAND AND STUD (FACE) PLUS NO ADDITIONAL CONNECTION REGID OR NO ROPIONOMAL CONNECTION REGID OR OK FOR 1 1/2" x26 ga STRAP w/ (2) 88 (0.131" x 2.5") COMMON NAIL OR w/ (2) 16 ga x 2.5" x 7/16" STAPLE EACH END OR OK FOR 1 1/2" x 26 ga STRAP w/ (2) 88 (0.131" x 2.5") COMMON NAIL OR w/ (2) 16 ga x 2.5" x 7/16" STAPLE EACH END OR OK FOR SIMPSON CS20 STRAP w/ (2) 84 (0.131" x 2.5") COMMON NAIL OR w/ (2) 16 ga x 2.5" x 7/16" STAPLE EACH END OR OK FOR SIMPSON CS20 STRAP w/ (2) 131" x 2.5" NAILS EACH END OR OK FOR SIMPSON STRAP STRAP w/ (3) 141" x 2.5" NAILS EACH END OR OK FOR SIMPSON STRAP STRAP w/ (3) 141" x 2.5" NAILS EACH END ALTERNATE: (2) 80 (0.131" x 3.5" COMMON NAILS THROUGH BAND BITD SE (ENDGRAIN) PLUS ALTERNATE: (3) 60 (1.6" x 3.5" COMMON NAILS THROUGH BAND BITD SE (ENDGRAIN) PLUS ALTERNATE: (3) 60 (1.6" x 3.5" COMMON NAILS THROUGH BAND BITD SE (ENDGRAIN) PLUS OR NO ADDITIONAL CONNECTION REGID OR NO ADDITIONAL CONNECTION			/LILIU	,	,
NO ADDITIONAL CONNECTION REGOD		•	ALTERNA	TE: (4) 16d (0.162" x 3.5") COMMON NAILS TH	ROUGH BAND INTO BC (ENDGRAIN) PLUS
OR NO ADDITIONAL CONNECTION REGOD OR NO REGOD 8 UPULIET (tips) LC CD OR OK FOR 1 1/2" x 26 ga STRAP w/ (2) 84 (0.131" x 2.5") COMMON NAIL OR w/ (2) 16 ga x 2.5" x 7/16" STAPLE EACH END OR OK FOR SIMPSON CS20 STRAP w/ (2) 84 (0.131" x 2.5") COMMON NAIL OR w/ (2) 16 ga x 2.5" x 7/16" STAPLE EACH END OR OK FOR SIMPSON CS20 STRAP w/ (2) 84 (0.131" x 2.5") ANJ.S EACH END OR OK FOR SIMPSON LSTS STRAP w/ (2) 16 ga x 2.5" x 1.16" STAPLE EACH END OR OK FOR SIMPSON HS TIE w/ (2) 0.131" x 2.5" NAILS EACH END OR OK FOR SIMPSON HS TIE w/ (3) 0.131" x 1.5" NAILS EACH END OR OK FOR SIMPSON HS TIE w/				(9) 8d (0.131" x 3") COMMON NAILS THRO	UGH SHEATHING INTO BAND AND STUD (FACE) PLUS
OR NO ADDITIONAL CONNECTION REDD 8 UPLIFT (flbs) LC CD 164 WIND 1.6 OK FOR 1 1/2' x 26 ga STRAP w(2) 88 (0.131' x 2.5') COMMON NAIL OR w(2) 16 ga x 2.5' x 7/16' STAPLE EACH END OR OK FOR 1 1/2' x 20 ga STRAP w(2) 88 (0.131' x 2.5') COMMON NAIL OR w(2) 16 ga x 2.5' x 7/16' STAPLE EACH END OR OK FOR SIMPSON LOST STRAP w(3) 0.148' x 2.5' NAILS EACH END OR OK FOR SIMPSON LOST STRAP w(3) 0.148' x 2.5' NAI				NO ADDITIONAL CONNECTION REQ'D	
DR NO ADDITIONAL CONNECTION REQUD OR NO ADDITIONAL CONNECTION REQUD 1.5 NO CONN REQUD 1.5 NO CONN REQUD 1.5 NO CONN REQUD OR OK FOR 11/2" × 26 ga STRAP w/ (2) 8d (0.131" × 2.5") COMMON NALL OR w/ (2) 16 ga × 2.5" × 7/16" STAPLE EACH END OR OK FOR SIMPSON LISTAB STRAP w/ (2) 8d (0.131" × 2.5") NALES EACH END OR OK FOR SIMPSON LISTAB STRAP w/ (2) 8d (0.131" × 2.5") NALES EACH END OR OK FOR SIMPSON LISTAB STRAP w/ (2) 141" × 2.5" NALES EACH END OR OK FOR SIMPSON LISTAB STRAP w/ (2) 141" × 2.5" NALES EACH END OR OK FOR SIMPSON LISTAB STRAP w/ (2) 141" × 2.5" NALES EACH END OR OK FOR SIMPSON LISTAB STRAP w/ (2) 141" × 2.5" NALES EACH END ALTERNATE (8) 160 (1.82" × 3.5") COMMON NALL OF W / (2) 16 ga × 2.5" × 7/16" STAPLE EACH END OR OK FOR SIMPSON LISTAB STRAP w/ (2) 141" × 2.5" NALES EACH END ALTERNATE (8) 160 (1.82" × 3.5") COMMON NALES THROUGH SHEATHING INTO BARDO AND STUD (FACE) ALTERNATE (8) 160 (1.82" × 3.5") COMMON NALES THROUGH SHEATHING INTO BARDO AND STUD (FACE) ALTERNATE (8) 160 (1.82" × 3.5") COMMON NALES THROUGH SHEATHING INTO BARDO AND STUD (FACE) PLUS NO ADDITIONAL CONNECTION REQUD OR NO ADDITIONAL CONNECTION REQUDE				OR NO ADDITIONAL CONNECTION REQ'D	
OR NO ADDITIONAL CONNECTION RECID 8 UPLIEF (Ibs) LC 164 WIND 1.6 OK FOR 1 1/2" x 28 gs STRAP w/ (2) 84 (0.13" x 2.5") COMMON NAIL OR w/ (2) 16 gs x 2.5" x 7/16" STAPLE EACH END OR OK FOR 1 1/2" x 20 gs STRAP w/ (2) 84 (0.13" x 2.5") COMMON NAIL OR w/ (2) 16 gs x 2.5" x 7/16" STAPLE EACH END OR OK FOR SIMPSON LSTAQ STRAP w/ (8) 0.148" x 2.5" NAILS EACH END OR OK FOR SIMPSON LSTAQ STRAP w/ (8) 0.148" x 2.5" NAILS EACH END OR OK FOR SIMPSON HS TIE w/ (9) 0.13" x 2.5" NAILS EACH END OR OK FOR SIMPSON HS TIE w/ (9) 0.148" x 2.5" NAILS EACH END ALTERNATE: (9) 60 (162" x 35" COMMON NAILS THROUGH SHEATHING INTO BAND AND STUD (FACE) ALTERNATE: (9) 60 (162" x 35" COMMON NAILS THROUGH SHEATHING INTO BAND AND STUD (FACE) OR NO ADDITIONAL CONNECTION RECO OR N				OR NO ADDITIONAL CONNECTION REQ'D	
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APPROVED BY 9/12/2024 Approval of this document does not authorize or approve any deviation or deviations from the requirements of applicable State Laws. **David Barts**

TRUSS NO.: FH71228 JOB NO.: 240209 PITCH: 7/12 SPAN: 27'-8"

GROUND SNOW LOAD (psf): 20 / 30 WIND SPEED (mph) (Vasd): 116

NOTES: 1. SUITABLE CONNECTIONS MAY BE SUBSTITUTED.

- 2. GRAVITY FORCES HAVE BEEN ADJUSTED FOR LOAD DURATION. A CD OF 1.0 SHALL BE USED FOR GRAVITY LOAD CASES.
- 2. WIND FORCES HAVE NOT BEEN ADJUSTED FOR LOAD DURATION. A CD OF 1.6 SHALL BE USED FOR WIND LOAD CASES.

UPLIFT CONNECTIONS (MWFRS LOADS): **OVERHANG WIND**

1 UPLIFT (lbs)		
	LC	CD
464	WIND	1.6 OK FOR 1 1/2" x 26 ga STRAP w/ (4) 8d (0.131" x 2.5") COMMON NAIL OR w/ (3) 16 ga x 2.5" x 7/16" STAPLE EACH END
404	WiitD	OR OK FOR 1 1/2" x 20 ga STRAP w/ (2) 8d (0.131" x 2.5") COMMON NAIL OR w/ (3) 16 ga x 2.5" x 7/16" STAPLE EACH END
		OR OK FOR SIMPSON CS20 STRAP w/ (4) 0.131" x 2.5" NAILS EACH END
		OR OK FOR SIMPSON LSTA9 STRAP w/ (8) 0.148" x 2.5" NAILS EACH END
		OR OK FOR SIMPSON H2.5A TIE w/ (10) 0.131" x 1.5" NAILS EACH END
		ALTERNATE: (4) 16d (0.162" x 3.5") COMMON NAILS THROUGH BAND INTO BC (ENDGRAIN) PLUS
		(5) 8d (0.131" x 3") COMMON NAILS) THROUGH SHEATHING INTO BAND AND STUD (FACE)
		ALTERNATE: (4) 16d (0.162" x 3.5") COMMON NAILS THROUGH BAND INTO BC (ENDGRAIN) PLUS
		(9) 8d (0.131" x 3") COMMON NAILS THROUGH SHEATHING INTO BAND AND STUD (FACE) PLUS
		NO ADDITIONAL CONNECTION REQ'D
		OR NO ADDITIONAL CONNECTION REQ'D
		OR NO ADDITIONAL CONNECTION REQ'D
		OR NO ADDITIONAL CONNECTION REQ'D
		OR NO ADDITIONAL CONNECTION REQ'D
ATERAL (lbs)	LC	CD
296	WIND	1.6 (2) 16d (0.162" x 3.5") COMMON NAILS THROUGH BAND INTO TOP PLATE (TOENAILED)
UPLIFT (lbs)	LC	CD
231	WIND	1.6 OK FOR 1 1/2" x 26 ga STRAP w/ (2) 8d (0.131" x 2.5") COMMON NAIL OR w/ (2) 16 ga x 2.5" x 7/16" STAPLE EACH END
		OR OK FOR 1 1/2" x 20 ga STRAP w/ (2) 8d (0.131" x 2.5") COMMON NAIL OR w/ (2) 16 ga x 2.5" x 7/16" STAPLE EACH END
		OR OK FOR SIMPSON CS20 STRAP w/ (2) 0.131" x 2.5" NAILS EACH END
		OR OK FOR SIMPSON LSTA9 STRAP w/ (8) 0.148" x 2.5" NAILS EACH END
		OR OK FOR SIMPSON H3 TIE w/ (8) 0.131" x 1.5" NAILS EACH END
		ALTERNATE: (2) 16d (0.162" x 3.5") COMMON NAILS THROUGH BAND INTO BC (ENDGRAIN) PLUS
		(2) 8d (0.131" x 3") COMMON NAILS) THROUGH SHEATHING INTO BAND AND STUD (FACE)
		ALTERNATE: (4) 16d (0.162" x 3.5") COMMON NAILS THROUGH BAND INTO BC (ENDGRAIN) PLUS
		(9) 8d (0.131" x 3") COMMON NAILS THROUGH SHEATHING INTO BAND AND STUD (FACE) PLUS
		NO ADDITIONAL CONNECTION REQ'D
		OR NO ADDITIONAL CONNECTION REQ'D
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FH712278 20/30 psf GSL 90/115 mph Vasd WIND EXPOSURE "C" **ASCE 7-16**

APPROVED BY 9/12/2024 Approval of this document does not authorize or approve any deviation or deviations from the requirements of applicable State Laws. **David Barts**

TRUSS NO.: FH71228 JOB NO.: 240209 PITCH: 7/12 SPAN: 27'-8"

GROUND SNOW LOAD (psf): 20 / 30 WIND SPEED (mph) (Vasd): 116

NOTES: 1. SUITABLE CONNECTIONS MAY BE SUBSTITUTED.

- 2. GRAVITY FORCES HAVE BEEN ADJUSTED FOR LOAD DURATION. A CD OF 1.0 SHALL BE USED FOR GRAVITY LOAD CASES.
- 2. WIND FORCES HAVE NOT BEEN ADJUSTED FOR LOAD DURATION. A CD OF 1.6 SHALL BE USED FOR WIND LOAD CASES.

N5		
	1.0	CD
UPLIFT (lbs)	LC	CD 4.6
229	WIND	1.6 OK FOR 1 1/2" x 26 ga STRAP w/ (2) 8d (0.131" x 2.5") COMMON NAIL OR w/ (2) 16 ga x 2.5" x 7/16" STAPLE EACH END
		OR OK FOR 1 1/2" x 20 ga STRAP w/ (2) 8d (0.131" x 2.5") COMMON NAIL OR w/ (2) 16 ga x 2.5" x 7/16" STAPLE EACH END
		OR OK FOR SIMPSON CS20 STRAP w/ (2) 0.131" x 2.5" NAILS EACH END
		OR OK FOR SIMPSON LSTA9 STRAP w/ (8) 0.148" x 2.5" NAILS EACH END
		OR OK FOR SIMPSON H3 TIE w/ (8) 0.131" x 1.5" NAILS EACH END
		ALTERNATE: (2) 16d (0.162" x 3.5") COMMON NAILS THROUGH BAND INTO BC (ENDGRAIN) PLUS
		(2) 8d (0.131" x 3") COMMON NAILS) THROUGH SHEATHING INTO BAND AND STUD (FACE)
		ALTERNATE: (4) 16d (0.162" x 3.5") COMMON NAILS THROUGH BAND INTO BC (ENDGRAIN) PLUS
		(9) 8d (0.131" x 3") COMMON NAILS THROUGH SHEATHING INTO BAND AND STUD (FACE) PLUS
		NO ADDITIONAL CONNECTION REQ'D
		OR NO ADDITIONAL CONNECTION REQ'D
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		OR NO ADDITIONAL CONNECTION REQ'D
LATERAL (lbs)	LC	CD
0	WIND	1.6 NO CONN REQ'D
N8	1.6	
UPLIFT (lbs)	LC	CD
465	WIND	1.6 OK FOR 1 1/2" x 26 ga STRAP w/ (4) 8d (0.131" x 2.5") COMMON NAIL OR w/ (3) 16 ga x 2.5" x 7/16" STAPLE EACH END
		OR OK FOR 1 1/2" x 20 ga STRAP w/ (2) 8d (0.131" x 2.5") COMMON NAIL OR w/ (3) 16 ga x 2.5" x 7/16" STAPLE EACH END
		OR OK FOR SIMPSON CS20 STRAP w/ (4) 0.131" x 2.5" NAILS EACH END
		OR OK FOR SIMPSON LSTA9 STRAP w/ (8) 0.148" x 2.5" NAILS EACH END
		OR OK FOR SIMPSON H2.5A TIE w/ (10) 0.131" x 1.5" NAILS EACH END
		ALTERNATE: (4) 16d (0.162" x 3.5") COMMON NAILS THROUGH BAND INTO BC (ENDGRAIN) PLUS
		(5) 8d (0.131" x 3") COMMON NAILS) THROUGH SHEATHING INTO BAND AND STUD (FACE)
		ALTERNATE: (4) 16d (0.162" x 3.5") COMMON NAILS THROUGH BAND INTO BC (ENDGRAIN) PLUS
		(9) 8d (0.131" x 3") COMMON NAILS THROUGH SHEATHING INTO BAND AND STUD (FACE) PLUS
		NO ADDITIONAL CONNECTION REQ'D
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FH712278 20/30 psf GSL 90/115 mph Vasd WIND **EXPOSURE "C" ASCE 7-16**

TRUSS NO.: FH71228 JOB NO.: 240209 PITCH: 7/12 SPAN: 27'-8"

STATE CA

GROUND SNOW LOAD (psf): 20 / 30 WIND SPEED (mph) (Vasd): 116

NATES: 1. SUITABLE CONNECTIONS MAY BE SUBSTITUTED.

2. GRAVITY FORCES HAVE BEEN ADJUSTED FOR LOAD DURATION. A CD OF 1.0 SHALL BE USED FOR GRAVITY LOAD CASES.

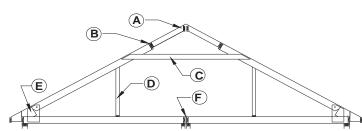
2. WIND FORCES HAVE NOT BEEN ADJUSTED FOR LOAD DURATION. A CD OF 1.6 SHALL BE USED FOR WIND LOAD CASES.





9/12/2024

Approval of this document does not authorize or approve any deviation or deviations from the requirements of applicable State Laws.



NATION'

Ville	S J. BARL	HIHI	requirements of applicable State Laws. David Barts
		psf GSL & 11	16 mph WIND (Vasd) (STANDARD & OH):
CONDITION "A"	- RIDGE:		
TENSION (lbs)		0.5	
FORCE	LC	CD	
0	GRAVITY	1	OK FOR 1 1/2" x 26 ga STRAP w/ (2) 8d (0.131" x 2.5") COMMON NAIL OR w/ (2) 16 ga x 2.5" x 7/16" STAPLE EACH END
307	WIND	1.6	OR OK FOR 1 1/2" x 20 ga STRAP w/ (2) 8d (0.131" x 2.5") COMMON NAIL OR w/ (2) 16 ga x 2.5" x 7/16" STAPLE EACH END
			OR OK FOR SIMPSON CS20 STRAP w/ (2) 0.131" x 2.5" NAILS EACH END
			OR OK FOR SIMPSON LSTA9 STRAP w/ (8) 0.148" x 2.5" NAILS EACH END
			ALTERNATE: USE (3) 10d (0.148" x 3") COMMON NAILS (FACE) THROUGH EACH END OF A MINIMUM 7/16" x 2" DEEP OSB TIE
			ALTERNATE: USE (5) 8d (0.131" x 3") COMMON NAILS (FACE) THROUGH EACH END OF A MINIMUM 7/16" x 2" DEEP OSB TIE
SHEAR (lbs)			
FORCE	LC	CD	
127	GRAVITY	1	(2) 16d (0.162" x 3.5") COMMON NAILS THROUGH RIDGE BEAM INTO RAFTER (ENDGRAIN)
179	WIND	1.6	ALTERNATE: (4) 8d (0.131" x 3") COMMON NAILS THROUGH RIDGE BEAM INTO RAFTER (ENDGRAIN)
			ALTERNATE: (4) 16d (0.162" x 3.5") COMMON NAILS THROUGH RIDGE BEAM INTO RAFTER (ENDGRAIN) PLUS
			NO ADDITIONAL CONN REQ'D
			ALTERNATE: (4) 8d (0.131" x 3") COMMON NAILS THROUGH RIDGE BEAM INTO RAFTER (ENDGRAIN) PLUS
			NO ADDITIONAL CONN REQ'D
			PLUS USE 10d (0.148" x 3") COMMON NAILS AT 15 in O.C. THROUGH RIDGE BEAM PLYS
			ALTERNATE: OR USE 8d (0.131" x 3") COMMON NAILS AT 9 in O.C. THROUGH RIDGE BEAM PLYS
CONDITION "B"	- TOP CHORD FLIP):	
TENSION			
FORCE	LC	CD	

OOMBINION B	TOT OHORD TEN	•	
TENSION			
FORCE	LC	CD	
0	GRAVITY	1	(3) 8d (0.131" x 3") COMMON NAILS THROUGH SHEATHING INTO RAFTER EACH SIDE OF FLIP BREAK (FACE)
280	WIND	1.6	ALTERNATE: (5) 16 ga x 2.5" x 7/16" STAPLES THROUGH SHEATHING INTO RAFTER EACH SIDE OF FLIP BREAK (FACE)
			ALTERNATE: OK FOR 1 1/2" x 26 ga STRAP w/ (2) 8d (0.131" x 2.5") COMMON NAIL OR w/ (2) 16 ga x 2.5" x 7/16" STAPLE EACH END
			OR OK FOR 1 1/2" x 20 ga STRAP w/ (2) 8d (0.131" x 2.5") COMMON NAIL OR w/ (2) 16 ga x 2.5" x 7/16" STAPLE EACH END
			OR OK FOR SIMPSON CS20 STRAP w/ (2) 0.131" x 2.5" NAILS EACH END
			OR OK FOR SIMPSON LSTA9 STRAP w/ (8) 0.148" x 2.5" NAILS EACH END
SHEAR			
FORCE	LC	CD	
127	GRAVITY	1	(2) 16d (0.162" x 3.5") COMMON NAILS THROUGH EACH RAFTER INTO FLIP PLATE (ENDGRAIN)

05/22/24

ALTERNATE: (2) 16d (0.162" x 3.5") COMMON NAILS THROUGH EACH RAFTER INTO FLIP PLATE (ENDGRAIN) PLUS NO ADDITIONAL CONN REQ'D ALTERNATE: (2) 8d (0.131" x 3") COMMON NAILS THROUGH RIDGE BEAM INTO RAFTER (ENDGRAIN) PLUS

OK FOR SIMPSON L30 ANGLE w/ (4) 0.148" x 1.5" NAILS PLUS USE 10d (0.148" x 3") COMMON NAILS AT 15 in O.C. THROUGH FLIP PLATE PLYS

ALTERNATE: OR USE 8d (0.131" x 3") COMMON NAILS AT 9 in O.C. THROUGH FLIP PLATE PLYS



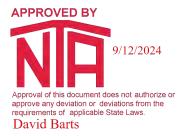
WIND

1.6

165



BARLOW ENGINEERING, P.C. 1916 QUAIL RIDGE RD. RALEIGH, NC 27609 FH712278 20/30 psf GSL 90/115 mph Vasd WIND EXPOSURE "C" ASCE 7-16



TRUSS NO.: FH71228

JOB NO.: 240209

PITCH: 7/12

SPAN: 27'-8"

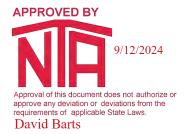
GROUND SNOW LOAD (psf): 20 / 30 WIND SPEED (mph) (Vasd): 116

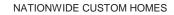
NOTES: 1. SUITABLE CONNECTIONS MAY BE SUBSTITUTED.

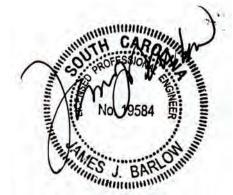
- 2. GRAVITY FORCES HAVE BEEN ADJUSTED FOR LOAD DURATION. A CD OF 1.0 SHALL BE USED FOR GRAVITY LOAD CASES.
- 2. WIND FORCES HAVE NOT BEEN ADJUSTED FOR LOAD DURATION. A CD OF 1.6 SHALL BE USED FOR WIND LOAD CASES.

CONDITION "C"	- COLLAR TIE:		
TENSION			
FORCE	LC	CD	
0	GRAVITY	1	(9) 16d (0.162" x 3.5") COMMON NAILS THROUGH TIE INTO RAFTER EACH END (FACE)
1315	WIND	1.6	ALTERNATE: (7) 16d (0.162" x 3.5") COMMON NAILS THROUGH TIE INTO RAFTER EACH END (FACE) PLUS
			(9) 16d (0.162" x 3.5") COMMON NAILS THROUGH TIE INTO BEARING BLOCK (FACE)
COMPRESSION			(, ., .,
FORCE	LC	CD	ALTERNATE: (16) 8d (0.131" x 3") COMMON NAILS THROUGH TIE INTO RAFTER EACH END (FACE)
1002	GRAVITY	1	ALTERNATE: (14) 8d (0.131" x 3") COMMON NAILS THROUGH TIE INTO RAFTER EACH END (FACE) PLUS
1014	WIND	1.6	(3) 8d (0.131" x 3") COMMON NAILS THROUGH TIE INTO BEARING BLOCK (FACE)
	- KNEE WALLS:	-	12 x x x x x x x x x x x x x x x x x x x
TENSION			
FORCE	LC	CD	
315	GRAVITY	1	OK FOR 1 1/2" x 26 ga STRAP w/ (4) 8d (0.131" x 2.5") COMMON NAIL OR w/ (3) 16 ga x 2.5" x 7/16" STAPLE EACH END
336	WIND	1.6	OR OK FOR 1 1/2" x 20 ga STRAP w/ (2) 8d (0.131" x 2.5") COMMON NAIL OR w/ (3) 16 ga x 2.5" x 7/16" STAPLE EACH END
000	*******	1.0	OR OK FOR SIMPSON CS20 STRAP w/ (4) 0.131" x 2.5" NAILS EACH END
			OR OK FOR SIMPSON LSTA9 STRAP w/ (8) 0.148" x 2.5" NAILS EACH END
			OR OK FOR SIMPSON H2.5A TIE w/ (10) 0.131" x 1.5" NAILS EACH END
			ALTERNATE: TOE SCREW CONNECTION NOT ADEQUATE THROUGH KNEEWALL AND PLATE INTO CHORD (WITHDRAWAL (TOED))
COMPRESSION			ALTERNATE. TOE SOILEN CONNECTION NOT ADEQUATE THINOGON NIVEEWALL AND FLATE INTO CHORD (WITHDRAWAL (TOED))
FORCE	LC	CD	
147	GRAVITY	CD 1	(2) 16d (0.162" x 3.5") COMMON NAILS THROUGH CHORD BLOCK INTO RAFTER EACH SIDE (WHEN USED) (FACE)
346	WIND	1.6	(2) 100 (0.102 X 3.5.) COMMICON MAILS THROUGH CHORD BLOCK INTO RAFTER EACH SIDE (WHEN USED) (FACE)
340	WIND	1.0	
	NSION REQUIRED		v/ (10) 10 d x 1 1/2" NAILS AT TOP OF KNEEWALL *** STRAPS INSTALLED SO AS TO AVOID INTEREFERNCE ***
109	GRAVITY	1	STRAFS INSTALLED 30 AS TO AVOID INTEREFERINGE
			DITIONAL FOR SIMPSON LSTA9 STRAP w/ (8) 0.148" x 2.5" NAILS EACH END DITIONAL FOR SIMPSON H3 TIE w/ (8) 0.131" x 1.5" NAILS EACH END
ALTERNATE	: OKAY FOR (2) S	IMPSON MMHC w/	(10) 10 d x 1 1/2" NAILS EACH AT TOP OF KNEEWALL
			No 19584 B
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FH712278 20/30 psf GSL 90/115 mph Vasd WIND EXPOSURE "C" ASCE 7-16







TRUSS NO.: FH71228

JOB NO.: 240209

PITCH: 7/12

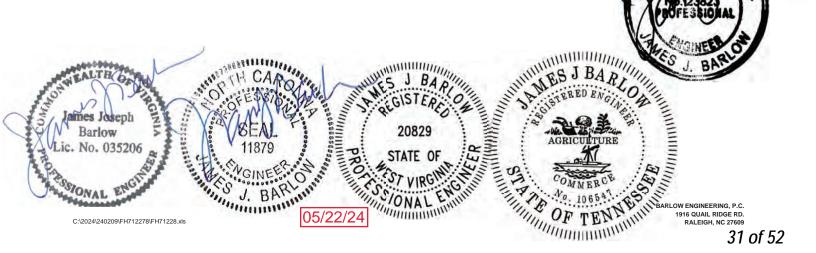
SPAN: 27'-8"

GROUND SNOW LOAD (psf): 20 / 30 WIND SPEED (mph) (Vasd): 116

NOTES: 1. SUITABLE CONNECTIONS MAY BE SUBSTITUTED.

- 2. GRAVITY FORCES HAVE BEEN ADJUSTED FOR LOAD DURATION. A CD OF 1.0 SHALL BE USED FOR GRAVITY LOAD CASES.
- 2. WIND FORCES HAVE NOT BEEN ADJUSTED FOR LOAD DURATION. A CD OF 1.6 SHALL BE USED FOR WIND LOAD CASES.

CONDITION "E"	- HEEL:		
TOP CHORD			
FORCE	LC	CD	
797	GRAVITY	1	VERTICAL 1.5 in MINIMUM BEARING LENGTH FOR TOP CHORD TO BOTTOM CHORD
1367			LATERAL OKAY FOR 3/8" GR. 5 BOLT (DOUBLE SHEAR; 3/8" SIDE PLATES) PLUS AN ADDITIONAL
507	WIND	1.6	VERTICAL (9) 8d (0.131" x 3") COMMON NAILS THROUGH OSB GUSSET INTO RAFTER EACH SIDE (FACE) OR
869			LATERAL (13) 16 ga x 2.5" x 7/16" STAPLES THROUGH OSB GUSSET INTO RAFTER EACH SIDE (FACE)
			ALTERNATE: OK FOR 3/4" GR. 5 BOLT (DOUBLE SHEAR; DBL. 3/8" SIDE PLATES)
BOTTOM CHOR	D		
FORCE	LC	CD	
797	GRAVITY	1	VERTICAL (12) 8d (0.131" x 3") COMMON NAILS THROUGH OSB GUSSET INTO RAFTER EACH SIDE (FACE)
1367			LATERAL OR (18) 16 ga x 2.5" x 7/16" STAPLES THROUGH OSB GUSSET INTO RAFTER EACH SIDE (FACE)
507	WIND	1.6	VERTICAL
869			LATERAL
CONDITION "F"	- BOTTOM CHORD	AT MATING LIN	IE:
TENSION			
FORCE	LC	CD	
1158	GRAVITY	1	NO GOOD FOR 1 1/2" x 26 ga STRAP
864	WIND	1.6	OR NO GOOD FOR 1 1/2" x 20 ga STRAP
			OR OK FOR SIMPSON CS14 STRAP w/ (11) 0.131" x 2.5" NAILS EACH END
			OR OK FOR SIMPSON LSTA24 STRAP w/ (18) 0.148" x 2.5" NAILS EACH END
			OR USE (17) 10d (0.148" x 3") COMMON NAILS THROUGH FLOOR SHEATHING INTO BOTTOM CHORD EACH SIDE OF MATING LINE
SHEAR			
FORCE	LC	CD	
257	GRAVITY	1	(4) 16d (0.162" x 3.5") COMMON NAILS THROUGH RIDGE BEAM INTO RAFTER (ENDGRAIN)
277	WIND	1.6	ALTERNATE: (4) 16d (0.162" x 3.5") COMMON NAILS THROUGH BEAM INTO BOTTOM CHORD (ENDGRAIN) PLUS
			NO ADDITIONAL CONN REQ'D
			ALTERNATE: (4) 8d (0.131" x 3") COMMON NAILS THROUGH BEAM INTO BOTTOM CHORD (ENDGRAIN) PLUS
			OK FOR SIMPSON L30 ANGLE w/ (4) 0.148" x 1.5" NAILS
			PLUS USE 10d (0.148" x 3") COMMON NAILS AT 7 in O.C. THROUGH MULTIPLE PLYS
			ALTERNATE: OR USE 8d (0.131" x 3") COMMON NAILS AT 4 in O.C. THROUGH MULTIPLE PLYS



FH712278 20/30 psf GSL 90/115 mph Vasd WIND **EXPOSURE "C" ASCE 7-16**



TRUSS NO.: FH71228 JOB NO.: 240209 PITCH: 7/12 SPAN: 27'-8"

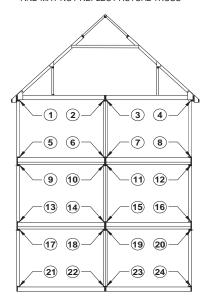


COMPONENT UNIFORM LOAD SUMMARY

MPONENT UNIFORM LOAD SUMMARY HEADER REACTIONS ARE TO BE DET					S ARE TO BE DETE	RMINED	BY THE BU	JILDING D	ESIGNER	
EXTERIOR WALL DEAD LOAD =	12	psf x	10	ft =	120 plf					
MATING WALL DEAD LOAD =	8	psf x	10	ft =	80 plf					
FLOOR DEAD LOAD =	10	psf x	13.75	ft / 2 =	69 plf	10	psf x	13.75	ft / 2 =	69 plf
FLOOR LIVE LOAD =	40	psf x	13.75	ft / 2 =	275 plf	40	psf x	13.75	ft / 2 =	275 plf
CEILING DEAD LOAD =	5	psf x	13.75	ft / 2 =	34 plf	5	psf x	13.75	ft / 2 =	34 plf

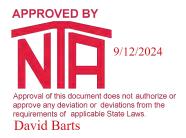
0 psf GROUND SNOW		(MATING	WALL LO	ADS ARE	PER SIDE	OF LINE)		
LOCATION	1	2	3	4	5	6	7	8
DEAD LOAD	311	56	56	311	500	205	205	500
LIVE LOAD	266	93	93	266	541	368	368	541
TOTAL LOAD	577	149	149	577	1041	573	573	1041
LOCATION	9	10	11	12	13	14	15	16
DEAD LOAD	534	239	239	534	723	388	388	723
LIVE LOAD	541	368	368	541	816	643	643	816
TOTAL LOAD	1075	607	607	1075	1539	1031	1031	1539
LOCATION	17	18	19	20	21	22	23	24
DEAD LOAD	757	422	422	757	946	571	571	946
LIVE LOAD	816	643	643	816	1091	918	918	1091
TOTAL LOAD	1573	1065	1065	1573	2037	1489	1489	2037
psf GROUND SNOW								
LOCATION	1	2	3	4	5	6	7	8
DEAD LOAD	311	56	56	311	500	205	205	500
LIVE LOAD	351	116	116	351	626	391	391	626
TOTAL LOAD	662	172	172	662	1126	596	596	1126
LOCATION	9	10	11	12	13	14	15	16
DEAD LOAD	534	239	239	534	723	388	388	723
LIVE LOAD	626	391	391	626	901	666	666	901
TOTAL LOAD	1160	630	630	1160	1624	1054	1054	1624
LOCATION	17	18	19	20	21	22	23	24
DEAD LOAD	757	422	422	757	946	571	571	946
LIVE LOAD	901	666	666	901	1176	941	941	1176
TOTAL LOAD	1658	1088	1088	1658	2122	1512	1512	2122

* CROSS SECTION IS FOR REFERENCE ONLY AND MAY NOT REFLECT ACTUAL TRUSS





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USE MWFRS REACTIONS TO DESIGN CONNECTIONS

90 mph STANDARD WIND	AND C&C REACTIONS TO DESIGN MEMBERS							
LOCATION	1	2	3	4	5	6	7	8
0.6 DL	187	34	34	187	300	123	123	300
MWFRS UPLIFT	24	-14	-13	24	-	-	-	-
C&C UPLIFT	-152	2	2	-150	-39	-	-	-37
LOCATION	9	10	11	12	13	14	15	16
0.6 DL	320	143	143	320	434	233	233	434
MWFRS UPLIFT	-	-	-	-	-	-	-	-
C&C UPLIFT	-19	-	-	-17	-	-	-	-
LOCATION	17	18	19	20	21	22	23	24
0.6 DL	454	253	253	454	568	343	343	568
MWFRS UPLIFT	-	-	-	-	-	-	-	-
C&C LIPLIFT	_	_	_	_	_	_	_	_

USE MWFRS REACTIONS TO DESIGN CONNECTIONS

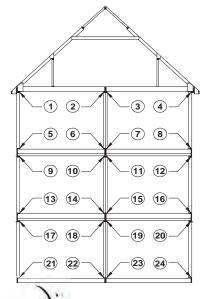
116 mph STANDARD WIND		AND C&C REACTIONS TO DESIGN MEMBERS						
LOCATION	1	2	3	4	5	6	7	8
0.6 DL	187	34	34	187	300	123	123	300
MWFRS UPLIFT	-82	-42	-41	-82	-	-	-	-
C&C UPLIFT	-374	-21	-19	-370	-261	-	-	-257
LOCATION	9	10	11	12	13	14	15	16
0.6 DL	320	143	143	320	434	233	233	434
MWFRS UPLIFT	-	-	-	-	-	-	-	-
C&C UPLIFT	-241	-	-	-237	-127	-	-	-123
LOCATION	17	18	19	20	21	22	23	24
0.6 DL	454	253	253	454	568	343	343	568
MWFRS UPLIFT	-	-	-	-	-	-	-	-
C&C UPLIFT	-107	_	-	-103	-	_	-	-

USE MWFRS REACTIONS TO DESIGN CONNECTIONS

05/22/24

90 mph OVERHANG WIND	SIGN MEMBERS				
LOCATION	1	2	3	4	
MWFRS UPLIFT	-66	-58	-58	-67	
C&C UPLIFT	-293	-68	-67	-290	

116 mph OVERHANG WIND				
LOCATION	1	2	3	4
MWFRS UPLIFT	-232	-116	-115	-233
C&C UPLIFT	-614	-116	-137	-611

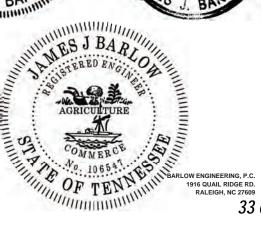






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FH712278 20/30 psf GSL 90/115 mph Vasd WIND EXPOSURE "C" **ASCE 7-16**

116 mph OVERHANG WIND

PORCH CONNECTIONS (MWFRS REACTIONS FOR CONNECTIONS)

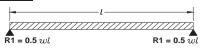
SIMPSON		Z = F1 = T =	1723 lbs 915 lbs 795 lbs w/ (10) 10 d NAILS
1	0 d NAIL	Z =	79.5 lbs
SUPPORT:	N1	UP =	232 plf
SUPPORT:	N4	UP =	116 plf
SUPPORT:	N5	UP =	115 plf
SUPPORT:	N8	UP =	233 plf

PORCH BE	AM TO C	FII ING R	IM CONNE	CTION

OKCII BE	LAW TO CEILING KIM CONNECTION.	
N1	USE (1) SIMPSON LSTA12 AT A MAXIMUM OF 41 in O.C.	
N4	USE (1) SIMPSON LSTA12 AT A MAXIMUM OF 72 in O.C.	
N5	USE (1) SIMPSON LSTA12 AT A MAXIMUM OF 72 in O.C.	
N8	USE (1) SIMPSON LSTA12 AT A MAXIMUM OF 40 in O.C.	

PORCH COLUMN CONNECTIONS:

(1) SPAN

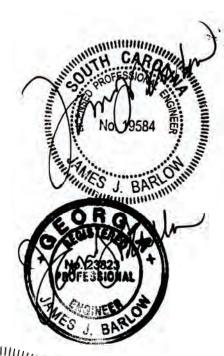


SUPPORT:	N1		Ī
l		R1	R1 EACH END
SPAN (ft)	wl (lbs)	0.5 wl (lbs)	1/2" BOLT QTY
4	928	464	1
6	1392	696	1
8	1856	928	1
10	2320	1160	1
SUPPORT:	N4		
l		R1	R1 EACH END
SPAN (ft)	wl (lbs)	0.5 wl (lbs)	1/2" BOLT QTY
4	464	232	1
6	696	348	1
8	928	464	1
10	1160	580	1
SUPPORT:	N5		
7	1	B.4	
l		R1	R1 EACH END
SPAN (ft)	wl (lbs)	ี	1/2" BOLT QTY
	wl (lbs)		
SPAN (ft)		0.5 wl (lbs)	
SPAN (ft)	460	0.5 wl (lbs) 230	1/2" BOLT QTY
SPAN (ft) 4 6	460 690	0.5 wl (lbs) 230 345	1/2" BOLT QTY 1 1
SPAN (ft) 4 6 8	460 690 920	0.5 wl (lbs) 230 345 460	1/2" BOLT QTY 1 1 1
SPAN (ft) 4 6 8 10	460 690 920 1150	0.5 wl (lbs) 230 345 460	1/2" BOLT QTY 1 1 1
SPAN (ft) 4 6 8 10	460 690 920 1150	0.5 wl (lbs) 230 345 460 575	1/2" BOLT QTY 1 1 1 1
SPAN (ft) 4 6 8 10 SUPPORT:	460 690 920 1150 N8	0.5 wl (lbs) 230 345 460 575	1/2" BOLT QTY 1 1 1 1 1 1 R1 EACH END
SPAN (ft) 4 6 8 10 SUPPORT: ! SPAN (ft)	460 690 920 1150 N8 wl (lbs)	0.5 ul (lbs) 230 345 460 575 R1 0.5 ul (lbs)	1/2" BOLT QTY 1 1 1 1 1 1 1 1/2" BOLT QTY
SPAN (ft) 4 6 8 10 SUPPORT: \$\(\text{l} \) SPAN (ft) 4	460 690 920 1150 N8 <i>wl</i> (lbs)	0.5 ul (lbs) 230 345 460 575 R1 0.5 ul (lbs)	1/2" BOLT QTY 1 1 1 1 1 1 1 1 1 1 1 1 1 1 R1 EACH END 1/2" BOLT QTY

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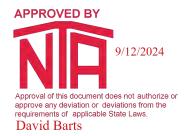
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1916 QUAL RIDGE RD.
RALEIGH, NC 2786-

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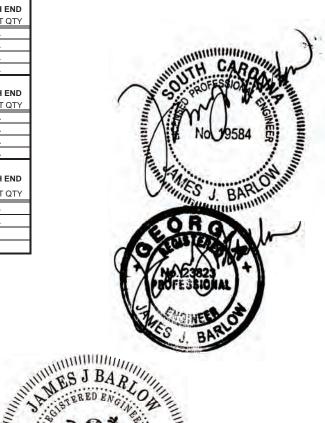
20/30 psf GSL 90/115 mph Vasd WIND EXPOSURE "C" ASCE 7-16



116 mph OVERHANG WIND (2) EQUAL SPANS

l-		
	77777777777777777777777777777777777777	
P1 = 0.275 aul	P2 = 1 25 aul	P1 = 0.275 au

SUPPORT:	N1						
l		R1	R1 EACH END	R2	(2)	BOLT	R2 EACH END
SPAN (ft)	wl (lbs)	0.375 wl (lbs)	1/2" BOLT QTY	1.25 wl (lbs)	SIMPSON LS70 (lbs)	LOAD (lbs)	1/2" BOLT QTY
4	928	348	1	1160	1830	-670	N/A
6	1392	522	1	1740	1830	-90	N/A
8	1856	696	1	2320	1830	490	1
10	2320	870	1	2900	1830	1070	1
SUPPORT: N4							
l		R1	R1 EACH END	R2	(2)	BOLT	R2 EACH END
SPAN (ft)	wl (lbs)	0.375 wl (lbs)	1/2" BOLT QTY	1.25 wl (lbs)	SIMPSON LS70 (lbs)	LOAD (lbs)	1/2" BOLT QTY
4	464	174	1	580	1830	-1250	N/A
6	696	261	1	870	1830	-960	N/A
8	928	348	1	1160	1830	-670	N/A
10	1160	435	1	1450	1830	-380	N/A
SUPPORT:	SUPPORT: N5						
l		R1	R1 EACH END	R2	(2)	BOLT	R2 EACH END
SPAN (ft)	wl (lbs)	0.375 wl (lbs)	1/2" BOLT QTY	1.25 wl (lbs)	SIMPSON LS70 (lbs)	LOAD (lbs)	1/2" BOLT QTY
4	460	173	1	575	1830	-1255	N/A
6	690	259	1	863	1830	-967	N/A
8	920	345	1	1150	1830	-680	N/A
10	1150	431	1	1438	1830	-392	N/A
SUPPORT:	N8			_			
l		R1	R1 EACH END	R2	(2)	BOLT	R2 EACH END
SPAN (ft)	wl (lbs)	0.375 wl (lbs)	1/2" BOLT QTY	1.25 wl (lbs)	SIMPSON LS70 (lbs)	LOAD (lbs)	1/2" BOLT QTY
4	932	350	1	1165	1830	-665	N/A
6	1398	524	1	1748	1830	-82	N/A
8	1864	699	1	2330	1830	500	1
10	2330	874	1	2913	1830	1083	1





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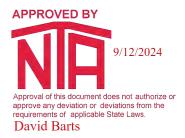
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1916 QUAL RIDGE RD.
RALEIGH, NC 27609

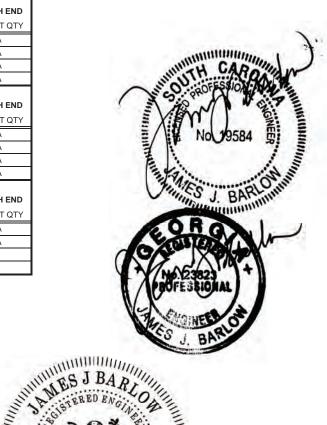
FH712278 20/30 psf GSL 90/115 mph Vasd WIND EXPOSURE "C" **ASCE 7-16**



116 mph OVERHANG WIND (3) EQUAL SPANS

107	-		
l-	-	_ l	-l
$R1 = 0.4 \ wl$	R2 = 1.1 wl	$R2 = 1.1 \ wl$	$R1 = 0.4 \overline{wl}$

SUPPORT:	N1								
l		R1	R1 EACH END	R2	(2)	BOLT	R2 EACH END		
SPAN (ft)	wl (lbs)	0.4 wl (lbs)	1/2" BOLT QTY	1.1 wl (lbs)	SIMPSON LS70 (lbs)	LOAD (lbs)	1/2" BOLT QTY		
4	928	371	1	1021	1830	-809	N/A		
6	1392	557	1	1531	1830	-299	N/A		
8	1856	742	1	2042	1830	212	1		
10	2320	928	1	2552	1830	722	1		
SUPPORT:	N4								
l		R1	R1 EACH END	R2	(2)	BOLT	R2 EACH END		
SPAN (ft)	wl (lbs)	0.4 wl (lbs)	1/2" BOLT QTY	1.1 wl (lbs)	SIMPSON LS70 (lbs)	LOAD (lbs)	1/2" BOLT QTY		
4	464	186	1	510	1830	-1320	N/A		
6	696	278	1	766	1830	-1064	N/A		
8	928	371	1	1021	1830	-809	N/A		
10	1160	464	1	1276	1830	-554	N/A		
SUPPORT:	SUPPORT: N5								
l		R1	R1 EACH END	R2	(2)	BOLT	R2 EACH END		
SPAN (ft)	wl (lbs)	0.4 wl (lbs)	1/2" BOLT QTY	1.1 wl (lbs)	SIMPSON LS70 (lbs)	LOAD (lbs)	1/2" BOLT QTY		
4	460	184	1	506	1830	-1324	N/A		
6	690	276	1	759	1830	-1071	N/A		
8	920	368	1	1012	1830	-818	N/A		
10	1150	460	1	1265	1830	-565	N/A		
SUPPORT:	N8								
l		R1	R1 EACH END	R2	(2)	BOLT	R2 EACH END		
SPAN (ft)	wl (lbs)	0.4 wl (lbs)	1/2" BOLT QTY	1.1 wl (lbs)	SIMPSON LS70 (lbs)	LOAD (lbs)	1/2" BOLT QTY		
4	932	373	1	1025	1830	-805	N/A		
6	1398	559	1	1538	1830	-292	N/A		
8	1864	746	1	2050	1830	220	1		
10	2330	932	1	2563	1830	733	1		





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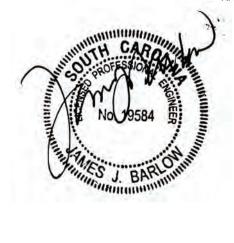
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1916 QUAL RIDGE RD.
RALEIGH, NC 27600

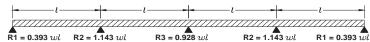




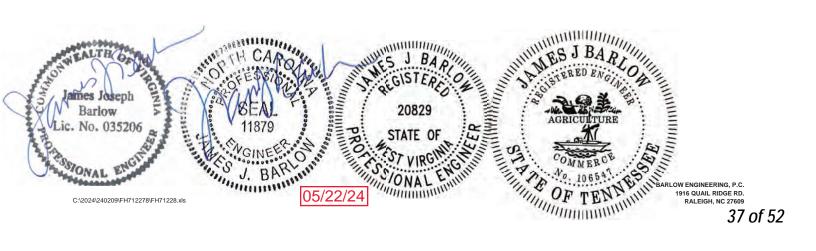


116 mph OVERHANG WIND (4) EQUAL SPANS

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SUPPORT:	N1										
l		R1	R1 EACH END	R2	(2)	BOLT	R2 EACH END	R3	(2)	BOLT	R3 EACH END
SPAN (ft)	wl (lbs)	0.393wl (lbs)	1/2" BOLT QTY	1.143 wl (lbs)	SIMPSON LS70 (lbs)	LOAD (lbs)	1/2" BOLT QTY	0.928 wl (lbs)	SIMPSON LS70 (lbs)	LOAD (lbs)	1/2" BOLT QTY
4	928	365	1	1061	1830	-769	N/A	861	1830	-969	N/A
6	1392	547	1	1591	1830	-239	N/A	1292	1830	-538	N/A
8	1856	729	1	2121	1830	291	1	1722	1830	-108	N/A
10	2320	912	1	2652	1830	822	1	2153	1830	323	1
SUPPORT:	SUPPORT: N4										
l		R1	R1 EACH END	R2	(2)	BOLT	R2 EACH END	R3	(2)	BOLT	R3 EACH END
SPAN (ft)	wl (lbs)	0.393 wl (lbs)	1/2" BOLT QTY	1.143 wl (lbs)	SIMPSON LS70 (lbs)	LOAD (lbs)	1/2" BOLT QTY	0.928 wl (lbs)	SIMPSON LS70 (lbs)	LOAD (lbs)	1/2" BOLT QTY
4	464	182	1	530	1830	-1300	N/A	431	1830	-1399	N/A
6	696	274	1	796	1830	-1034	N/A	646	1830	-1184	N/A
8	928	365	1	1061	1830	-769	N/A	861	1830	-969	N/A
10	1160	456	1	1326	1830	-504	N/A	1076	1830	-754	N/A
SUPPORT:	N5	i	i		i		i		·		•
l		R1	R1 EACH END	R2	(2)	BOLT	R2 EACH END	R3	(2)	BOLT	R3 EACH END
SPAN (ft)	wl (lbs)	$0.393\ wl$ (lbs)	1/2" BOLT QTY	1.143 wl (lbs)	SIMPSON LS70 (lbs)	LOAD (lbs)	1/2" BOLT QTY	0.928 wl (lbs)	SIMPSON LS70 (lbs)	LOAD (lbs)	1/2" BOLT QTY
4	460	181	1	526	1830	-1304	N/A	427	1830	-1403	N/A
6	690	271	1	789	1830	-1041	N/A	640	1830	-1190	N/A
8	920	362	1	1052	1830	-778	N/A	854	1830	-976	N/A
10	1150	452	1	1314	1830	-516	N/A	1067	1830	-763	N/A
SUPPORT:	N8	,	1		1		1	i	•	1	
l		R1	R1 EACH END	R2	(2)	BOLT	R2 EACH END	R3	(2)	BOLT	R3 EACH END
SPAN (ft)	wl (lbs)	0.393~wl (lbs)	1/2" BOLT QTY	1.143 wl (lbs)	SIMPSON LS70 (lbs)	LOAD (lbs)	1/2" BOLT QTY	0.928 wl (lbs)	SIMPSON LS70 (lbs)	LOAD (lbs)	1/2" BOLT QTY
4	932	366	1	1065	1830	-765	N/A	865	1830	-965	N/A
6	1398	549	1	1598	1830	-232	N/A	1297	1830	-533	N/A
8	1864	733	1	2131	1830	301	1	1730	1830	-100	N/A
10	2330	916	1	2663	1830	833	1	2162	1830	332	1



SmartExhaust™

Bath Fan/Light Switch with Ventilation Control & Delay Timer

The SmartExhaust™ Bath Fan/Light Switch is a simple and efficient solution for achieving adequate bathroom ventilation and meeting exhaust ventilation requirements. The SmartExhaust™ is designed to replace the bathroom fan and light switches with one smart controller and features programmable settings for running the exhaust fan as much or as little as you want, automatically.



Features & Benefits

- Earn LEED and ENERGY STAR points for enhanced exhaust ventilation*
- Makes standard bath fans ASHRAE 62.2 compliant*
- Smart microprocessor provides precise, user-controlled ventilation
- Works with most incandescent, CFL, and LED lights**
- Optional light and fan timeout after 60 mins (Rocker style only)
- Available in toggle and rocker models in a variety of colors
 - *When used with ASHRAE 62.2 compliant fans
 - **Rocker style not compatible with all LED bulbs. Dimmable LED bulb recommended

Rocker (Part # SED-S)

Product Details

The SmartExhaust™ is a bath fan and light switch* that also serves as a ventilation controller and fan delay timer. This product provides whole house exhaust ventilation. (*Wiring the SmartExhaust™ to operate a light is optional)

With other fan and light switches, the time that someone is occupying the bathroom does not always provide sufficient run time for the fan to eliminate bathroom humidity or contaminants. Using the SmartExhaust™ Ventilation and Delay settings, the fan can be set to run on a timer so that adequate ventilation can be met even after someone exits the bathroom.

Using the *Ventilation* setting, the user is able to set the number of minutes per hour that the bathroom exhaust fan should run to achieve desired/required ventilation. Using the *Delay* setting, the user is able to set the number of minutes the fan should run after the SmartExhaust™ switch has been turned off. When the switch is turned off, the fan continues to run for the set delay time.

By combining the fan switch with the light switch, the SmartExhaust™ also becomes an occupancy sensor.

Specifications

Light: 450 Watts @ 120 VAC (Blue Wire) Fan: 150 Watts @ 120 VAC (Red Wire) Operation: 120 VAC 60hz ± 10% (Red Wire) 2.5" Minimum wall box recommended

APPROVED BY 9/12/2024 Approval of this document does not authorize or approve any deviation or deviations from the requirements of applicable State Laws. **David Barts** Cover plate not included, use any standard switch plate



Configuring Ventilation Time

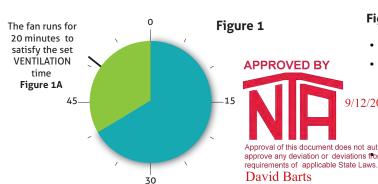
To properly set the VENTILATION time on your SmartExhaust™ you will need to know the code required CFM (Cubic Feet Per Minute) for your home and the Fan CFM. Follow this simple equation to calculate the VENTILATION min/hr.



CFM = Cubic Feet Per Minute

Example

A Normal Hour of Operation with No Occupancy



The user wants to VENTILATE the bathroom for 20 minutes every hour with a 10 minute fan DELAY

Figure 1

- The VENTILATION dial is set to 20 min/hr.
- The SmartExhaust[™]s microprocessor performs the following equation to determine when to run the fan to meet the VENTILATION setting, based on 1 hour (60 mins).

60 MINS - VENTILATION SETTING = START VENT TIME 60 MINS - 20 MINS = 40 MINS

Approval of this document does not authorize or approve any deviation or deviations from the SmartExhaust™ will turn on 40 minutes into the hour requirements of applicable State Laws. and run for 20 minutes. (Figure 1A)

A Normal Hour of Operation with 5 Minutes of Occupancy and 10 Minute Fan Delay (Total Ventilation Set to 20 Min.)

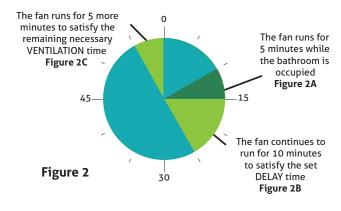


Figure 2

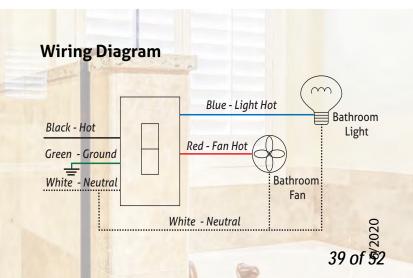
- The DELAY dial is set to 10 min/hour
- Someone uses the bathroom for 5 minutes and manually turns the SmartExhaust™ on. The microprocessor logs this 5 minutes of use. (Figure 2A)
- The occupant exits the bathroom, turning the switch off, and the SmartExhaust™ continues to run the fan for the 10 minutes of DELAY run time. (Figure 2B)

5 MINS OF MANUAL USE + 10 MINS OF DELAY TIME = 15 MINUTES OF VENTILATION

 15 minutes will be subtracted from the total required 20 minutes of VENTILATION time. 55 minutes into the hour, the fan will turn on and run for the 5 additional minutes needed to complete the required ventilation. (Figure 2C)

Part No:	Description:
SE1-W	SmartExhaust™ Toggle - White
SE1-A	SmartExhaust™ Toggle - Almond
SED-S	SmartExhaust™ Rocker (Includes White Rocker)
SEDR-A	Almond Rocker Replacement
SEDR-BL	Black Rocker Replacement
SEDR-BR	Brown Rocker Replacement
SEDR-I	Ivory Rocker Replacement

This product may be covered by one or more of the following patents and patents pending: 8,185,244











SmartExhaust™ Installation & User's Guide

INTRODUCTION

The SmartExhaust™ is designed to replace bathroom fan and light switches and provide both functions with one easy operation. By using a microprocessor to monitor and control operation, the SmartExhaust™ delivers a precise amount of ventilation.

BENEFITS

- Earn LEED and ENERGY STAR points for enhanced exhaust ventilation*
- Make standard bath fans ASHRAE 62.2 compliant*
- Replaces both fan and light switches for one easy operation
- Microprocessor technology provides precise ventilation times
- Programmable DELAY and VENTILATION settings
- · Excess manual and/or delay operation is subtracted from the next hour's programmed ventilation time
- Works with most incandescent, CFL, fluorescent and LED lights
- Optional light and fan time out after 60 minutes (Rocker version only)

SAFETY CONSIDERATIONS

Read and follow manufacturer's instructions carefully. Follow all local electrical codes during installation. All wiring must conform to local and national electrical codes. Improper wiring or installation may result in personal injury or product and property damage.

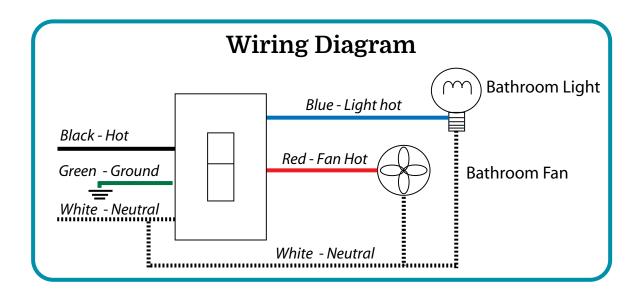
INSTALLATION

- 1. Do not connect this device to aluminum wire.
- 2. Use with copper or copper clad wire only.
- 3. TURN POWER OFF at circuit breaker or fuse panel.
- 4. Remove cover plate and existing switch from wall box if there is one already installed.
- 5. Connect the wires in the wall box using the supplied wire nuts.
 Wires must have ¾ inch of bare copper exposed. Twist wires together tightly with supplied wire nuts. Make sure no bare copper is exposed. Secure connections with electrical tape. If a light is not connected, be sure to attach a wire nut to unused blue wire and secure with electrical tape.
- 6. Mount SmartExhaust™ switch in to wall box with supplied mounting screws.
- 7. Set desired DELAY time by turning dial to desired minutes.
- 8. Set desired VENTILATION time by turning dial to desired minutes per hour.
- 9. Record settings on face plate with an indelable marker and snap rocker assembly onto face plate.
- 10. Turn on power at circuit breaker or fuse box.

Note: To fully comply with ASHRAE 62.2 - Attach clear ASHRAE sticker to face of switch plate.



^{*}When used with ASHRAE 62.2 compliant fans



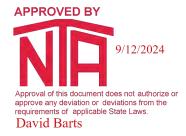
OPERATING INSTRUCTIONS

- Move switch up to turn on the fan and light
- Move switch down to turn off the light. The fan will continue to run for a pre-set DELAY time (unless manually canceled)
- To cancel DELAY time for the toggle version, turn the switch off and back on again within three seconds. Within another three seconds, turn the switch off and the fan will shut off canceling the DELAY for that use. For the Rocker version, simply turn the switch off again after use.
- DELAY will not activate until the light/fan has been on for at least 10 seconds
- The fan will automatically come on once per hour for the pre-set VENTILATION time.

OPERATION

The SmartExhaust[™] has a microprocessor in it that reads the two settings dials. If for example the VENTILATION dial is set to 20 minutes/hour, the micro- processor subtracts 20 minutes from 60 minutes and determines it needs to come on 40 minutes into the hour and run for the remaining 20 minutes of that hour.

Now if the DELAY dial is set to 10 minutes and someone uses the bathroom for 5 minutes, the microprocessor will keep track of the 5 minutes of use. Then when the person leaves after 4 minutes and turns the light switch off, the microprocessor will keep the fan on for 10 more minutes of the DELAY setting. This will add up to 14 minutes of total fan run time for that hour. The microprocessor will now subtract the 14 minutes of manual and delay time from the required 20 minutes of VENTILATION time and come up with 6 minutes needed to run at the end of the hour. Now 54 minutes into the hour the fan will come on and run for 6 more minutes. Resulting in 20 minutes of total run time that hour.



Additional SmartExhaust™ Rocker Model Features

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Adjustable Dim up/Dim down rates:

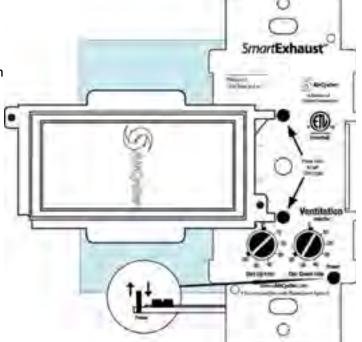
The dimmer function of this switch is designed for use only with permanently installed incandescent lighting fixtures. Do not use dim rates on fluorescent lighting, transformer supplied lighting/appliances, motorized appliances or receptacles. The incandescent lighting controlled by this dimmer switch must not exceed a total of 400 watts.

The time required to reach full brightness when turned on or full off when turned off, can be set from 0-6 seconds. Use the DELAY dial to set the dim up rate and VENTLATION dial to set the dim down rate. For example if you want it to take

5 seconds to reach full brightness and 3 seconds to reach full off, set DELAY to 5 and VENTILATION to 3. Then pull the small power button on the lower right corner of the switch to the off position. Now using the setting tool molded into the rocker, hold down both push buttons in the center of the switch and at the same time push in the power cut off button while continuing to hold in the push buttons. In 5 seconds the light will dim up to full brightness and then back off using the settings you just set. Last, return the DELAY and VENTILATION dials to the required DELAY and VENTILATION time.



If you have set a dim up rate, anytime you press the on button again after the initial push, the light will stop at that brightness level. This is great for late at night visits to the bathroom when you don't want or need full brightness of the light(s). A quick double tap will turn on the light at a low brightness and stop it there.



Double tap delay cancel:

If after leaving the bathroom you don't want the fan to run for its set DELAY time, simply tap the bottom of the rocker again and the delay time will be canceled.

*Double tap - Fan may remain on if doing vent time.

Note: When changing light bulbs, pull power switch up to disable power to light sockets.

Auto off:

This default setting will automatically turn the fan and light off if the light has been left on for more than 60 minutes.

To disable this feature: Pull the power button out, then using the setting tool on the rocker frame, press the BOTTOM button while pushing the power button back down. The blue LED should come on. Hold the BOTTOM button for 5 seconds. The bathroom light will flash once to indicate this feature is now disabled.

To re-enable this feature: Pull the power button out. Using the setting tool, hold down the TOP button while pushing the power button back down. Hold the UP button for 5 seconds until the light flashes twice, indicating AUTO OFF is enabled.

TROUBLESHOOTING & FREQUENTLY ASKED QUESTIONS

What if you're only in the bathroom for a few seconds?

You have to have the switch on for 10 full seconds before the microprocessor will start counting time and enable the DELAY function. If you turn the switch back off with in 10 seconds, the fan shuts off and no time is counted.

What if you don't want the DELAY time to run after you use the bathroom?

To cancel DELAY time for the toggle version, turn the switch off and back on again within three seconds. Within another three seconds, turn the switch off and the fan will shut off canceling the DELAY for that use. For the rocker version, simply turn the switch off again after use.

What if manual and DELAY time exceeds VENTILATION time?

The microprocessor will calculate the excess ventilation time and subtract it from the total VENTILATION time for the next hour.

If you're SmartExhaust™ is not operating correctly check:

Does the device have power?

Turn the VENTILATION dial to 60 minutes. The fan will come on within 20 seconds if the device is powered. If you have the rocker version, tap the top of the rocker to turn on both the light and the fan. If you have the toggle version, you must hear the fan turn on to verify the microprosessor is running.

Is the device wired correctly?

The SmartExhaust™ will not operate correctly if it is not wired correctly.



Technical Support:

info@aircycler.com





INSTALLATION AND OPERATING INSTRUCTIONS VENTILATION FAN / DIMMABLE LED LIGHT READ AND SAVE THESE INSTRUCTIONS

General Safety Information

- Make sure that the electric service supply voltage is AC 120V, 60Hz.
- Follow all local electrical and safety codes, as well as the National Electrical Code (NEC) and the Occupational Safety and Healthy Act (OSHAct).
- Always disconnect the power source before working on or near the ventilating fan, motor or junction box.
- Protect the power cord from sharp edges, oil, grease, hot surfaces, chemicals or other objects.
- 5. Do not kink the power cord.
- 6. Do not install the unit where ducts are configured as shown in Fig. A.
- 7. Provide suction parts with proper ventilation.
- This unit is UL listed for use over a bathtub or shower when installed in a GFCI protected branch circuit.

WARNING

TO REDUCE THE RISK OF FIRE, ELECTRIC SHOCK, OR INJURY TO PERSONS, OBSERVE THE FOLLOWING:

- Use this unit only in the manner intended by the manufacturer. If you have any questions, contact the manufacturer.
- Before servicing or cleaning the unit, switch
 power off at service panel and lock the service
 disconnecting means to prevent power from
 being switched on accidentally. When the
 service disconnecting means cannot be locked,
 securely fasten a prominent warning device,
 such as a tag, to the service panel.
- Installation work and electrical wiring must be done by qualified person(s) in accordance with all applicable codes and standards, including fire-rated construction.
- 4. Sufficient air is needed for proper combustion and exhausting of gases through the flue (chimney) of fuel burning equipment to prevent back drafting. Follow the heating equipment manufacturer's guideline and safety standards such as those published by the National Fire Protection Association (NFPA), and the American Society for Heating, Refrigeration and Air Conditioning Engineers (ASHRAE), and the local code authorities.
- When cutting or drilling into ceiling, do not damage electrical wiring and other hidden utilities
- Ducted fans must always be vented to the outdoors.
- If this unit is to be installed over a tub or shower, it must be marked as appropriate for the application and be connected to a GFCI (Ground Fault Circuit Interrupter) – protected branch circuit.
- Do not use this unit with any other solid-state control device. Solid-state controls devices may cause harmonic distortion, which can cause a motor humming noise.
- NEVER place a switch where it can be reached from a tub or shower.
- Not to be installed in a ceiling thermally insulated to a value greater than R40. (This is required for installation in Canada only).

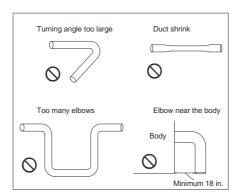
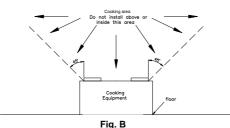


Fig. A

CAUTION

- For General Ventilating Use Only. Do Not Use To Exhaust Hazardous Or Explosive Materials And Vapors.
- 2. Not for use in cooking area. (Fig. B)
- 3. This product must properly connect to the grounding conductor of the supply circuit.
- To reduce the risk of injury to persons, install the fan at least 8.2 feet (2.5m) above the floor.



SUPPLIED ACCESSORIES

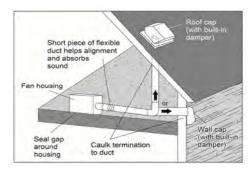
Part name	Appearance	Quantity
Grille		1
Fan & Housing		1
4" Duct	8	1
Screw (M4x12)	Ommo	3





INSTALLATIONS

Proper insulation around the fan to minimize building heat loss and gain. 4" circular duct is recommended for installation. The ducting from this fan to the outside of building has a strong effect on the air flow, noise and energy use of the fan. Use the shortest, straightest duct routing possible for best performance, and avoid installing the fan with smaller ducts than recommended. Insulation around the ducts can reduce energy loss and inhibit mold growth. Fans installed with existing ducts may not achieve their rated air flow.



Install with wood frame

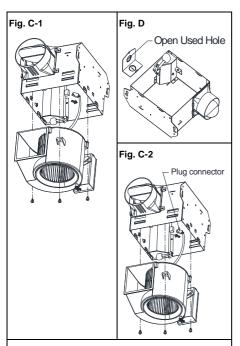
Model No.	ITG100ELED
Install Dim. (Inch)	7-1/2 x 7-1/4

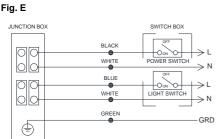
- Remove motor plate from housing by removing three screws. (Fig. C-1)
- Remove wiring cover from housing by pulling straight out. Choose a hole and use a slotted screwdriver to remove it. (Fig. D)
- Follow all local electrical and safety codes. NEVER place a switch where it can be reached from a tub or shower. Connect wires as shown in wiring diagrams. (Fig. E)
- Using wire nuts (not provided) connect house power cable to ventilating fan wires. 14 AWG (2.1 mm²) is the smallest conductor that shall be used for branch-circuit wiring. (Fig. F)
- Insert the duct into the duct connector and tape all ductworks connection to make them secure and airtight. Install the duct with a gradient 1%2°to the outside. (Fig. G)
- New installation prior to finishing the ceiling: Insert the fan between joists. Make sure the fan body is level and perpendicular with the joist. (Fig. H)
- Replacement installation: After making electrical and ductwork connections (see steps 2~5), nail housing in place. Drive nails through the housing where indicated by arrows. (Fig. I)
- 8. New installation in an existing ceiling: Bend tabs outward 90°(Use a screw driver if desired) and position housing so that tabs rest against bottom edge of joists (or front of stud). Nail housing to joist or stud using four nails to ensure a solid, quiet installation. Ceiling installations: Tabs on opposite side of housing can be bent outward to rest on top of 1/2" ceiling material and provide extra stability. (Fig. J)
- Insert the motor plug connector and locking the fan body back by using three screws. (Fig. C-2)
- Insert the LED lighting plug connector into the housing. Squeeze grille springs together and insert the mounting springs into the slots of the housing and mount the grille to the fan body. 45 of 52

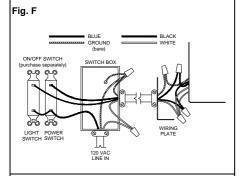


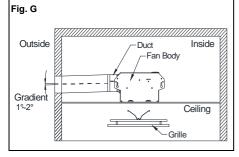
Push grille up against ceiling. When the power on, check for abnormal vibration or sound. (Fig. K)

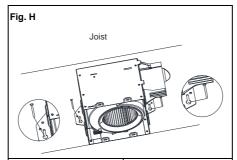
C NELTA P breez

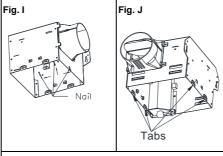


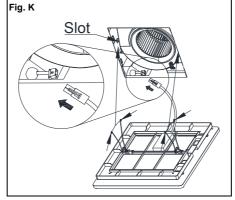












OPERATION

Turn the power switch ON/OFF to operate the fan/LED light.

MAINTENANCE:

Disconnect the power source before working on the unit. Routine maintenance must be done every year.

CAUTION:

- Never use gasoline, benzene, thinner or any other such chemicals for cleaning the ventilating fan.
- 2 Do not allow water to enter the motor.
- 3. Do not soak resin parts in water over 140 °F (60℃).

CLEANING:

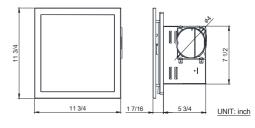
- Pull down the spring to remove the grille.
- Wash and clean the grille. (Use non-abrasive kitchen detergent and wipe dry with a new
- Remove dust and dirt from the ventilating fan using a vacuum cleaner.
- Using a cloth dampened with kitchen detergent, remove any dirt from the ventilating fan. Wipe dry with a new cloth.
- Replace the grille.

SPECIFICATIONS

Model No.	Volt/Hz	Air Flow @0.1"SP (CFM)	Power @0.1"SP (W)	Max Current (Amps)	Weight (lb.)	LED Light Spec
ITG100ELED	120/60	100	17.0	0.47	8.2	13Watts 1000Lumens 3000K

Note: Design and specifications are subject to change without

DIMENSIONS



WARRANTY

DELTA ELECTRONICS THREE YEAR LIMITED WARRANTY

Delta Electronics Inc.("Delta Electronics") varrants to the original consumer purchaser in the USA that the Breez ventilation fan products will be free from defects in material or workmanship. This warranty is limited to three (3) years from the original date of purchase.

Limitations and Exclusions

- 1. During the warranty period, a replacement for any defective product will be supplied free of charge for installation by the consumer. The warranty provided herein does not cover charges for labor or other costs incurred in the troubleshooting, repair, removal, and installation
- . All returns of defective parts or products must include the product model number, and must be made through an authorized Delta Electronics distributor. Authorized returns must be shipped prepaid. Repaired or replacement products will be shipped by Delta Electronics F.O.B. shipping
- 3. Delta Electronics shall not be liable for any indirect, incidental, consequential, punitive, or special damages arising out of or in connection with products use or performance, regardless of the form of action whether in contract, tort (including negligence), strict product liability or otherwise.
- This warranty does not extend to fluorescent lamp starters and tubes.
- 5. The warranty does not cover if user does not comply with manufacture's installation manual.
- 6. To qualify for warranty service, you must notify Delta Electronics at the address or telephone number below.
- Delta Electronics shall have no liability to the original owner-user with respect to any defect caused by abuse, misuse, neglect, improper transportation or storage, improper testing, improper installation, improper operation, improper use, improper maintenance, improper repair, improper alteration, improper modification tampering or accident of products or parts thereof, or unusual deterioration or degradation of products or parts thereof due to a physical environment beyond the requirements of products' specifications.

Address: 46101 Fremont Boulevard, Fremont, CA 94538

US Toll Free Number: 1-888-979-9889



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AIR VENT INC.

FOUNDATION VENTS

Air Vent offers a complete line of foundation vents, from powered foundation vents to heavy-duty and replacement automatics. For all of your foundation ventilation needs call Customer Service: 1-800-247-8368.

Automatic Foundation Vents



HEAVY-DUTY MODEL: ST

- Heavy-duty construction
- Premium bi-metal coil
- Honeycomb grill
- 5-year limited warranty
- NFA 50"
- · Colors: black, brown, gray



REPLACEMENT AUTOMATIC MODEL: RA

- Easy to install, includes hardware
- 3-year limited warranty
- NFA 50"
- · Colors: black, brown, gray

Powered Foundation Vents



HIGH POWER MODEL: STP

- For problem and hard to vent foundations
- Suctions air out of foundation
- .8 amp motor, 3000 rpm
- · Colors: black, brown, gray

QUIET MODEL MODEL: STQ

- .5 amp motor, 1550 rpm
- · Colors: black, brown, gray

Accessories



THERMOSTAT; HUMIDISTATS
HUMIDISTAT MODELS: HUB & HUC

- Thermostat turns fan on when temperature exceeds setting
- HUB humidistat shuts the fan off in damp weather
- HUC humidistat turns on when humidity is above setting





Manual Foundation Vents - Plastic



ACCORDION DAMPER MODEL: 101

- Folding, accordion style damper
- NFA 68"
- · Colors: black, brown, gray



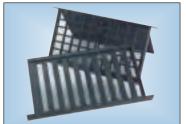
HEAVY-DUTY SLIDER MODEL: 303

- Heavy-duty solid plastic construction
- Aluminum screen
- NFA 42"
- Colors: black, brown, gray



SLIDER - MODEL: PLSL DAMPER - MODEL: PLDP

- Our best selling slider& damper
- Slider NFA 45"
- Damper NFA 64"
- Colors: black, brown, gray (Damper PLDP: black, gray)



JUMBO VENTS SLIDER - MODEL: JMSLBL DAMPER - MODEL: JBDPBL

- Slider or Damper
- For 91/4" x 16" opening
- NFA: slider 60"; damper 78"
- Courses out with oversized bricks
- Color: black

MULTI-PURPOSE VENT MODEL: MP (Not Shown)

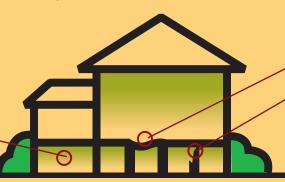
- 7" x 12" vent for 6" x 11" opening
- NFA 23"
- Colors: black, brown, gray

Foundation ventilation helps protect against conditions that can lead to:

- Wood decay
- Mold and mildew
- Termite and insect infiltration

Significant damage can occur to a home without proper foundation ventilation:

Dark, damp environments attract wood attacking termites and other insects



Floors can warp

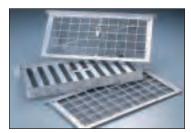
Wood can decay causing structural damage

Manual Replacement

MANUAL REPLACEMENT MODEL: RM

- Same housing as automatic
- Manual lever instead of automatic coil
- NFA 50"
- Colors: black, brown, gray

Manual Foundation Vents - Metal



ALUMINUM FIXED VENTS LINTEL - MODEL: FC3L NO LINTEL - MODEL: FC3

- No damper or slider
- 16" x 8"
- Color: mill



STAMPED ALUMINUM MODEL: FA109

- Aluminum screen
- Adjustable sliding damper
- Also available for wood
- NFA 36"

ALUMINUM SLIDER MODEL: ALSL

- With lintel
- Color: mill
- NFA 45"

ALUMINUM DAMPERS NO LINTEL - MODEL: FC LINTEL - MODEL: ALDP

- Color: mill
- NFA 63



3000 West Commerce Dallas, TX 75212 1-800-AIRVENT www.airvent.com





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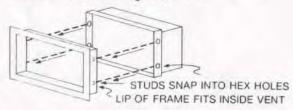
AUTOMATIC VENT INSTALLATION INSTRUCTIONS

SERIES-5 2-PIECE VENT WITH REMOVABLE FRAME

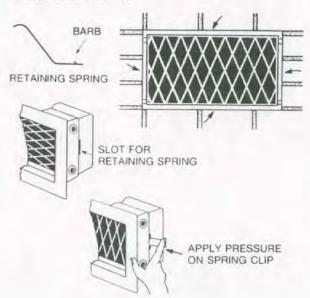
 Remove the old vent with hammer and chisel, crow bar, etc., and clean protruding and loose mortar from opening with chisel. Vent MUST slide in easily. If it doesn't, use chisel to enlarge opening.



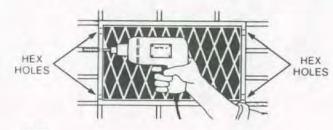
 Remove frame from vent by pulling up or by inserting blade between frame and vent on outside and twisting.
 Be careful not to damage screen.



 Attach a retaining spring to 2 opposite sides of the vent—either left and right or top and bottom depending on which produces the tighter fit in the foundation wall. Slide the barbed ends of the springs into the slots to attach.



4. Insert vent into foundation opening either from the outside of the crawl space or from the inside. Be sure it fits easily. DO NOT USE FORCE. Hold TIGHTLY against the wall after adjusting for alignment. Using a ¼" masonry carbide tipped bit, drill through the vent into a mortar joint on each side. It is best to drill high on one side and low on the other for increased stability. Be sure to line up with a mortar joint and angle the drill slightly inward toward the crawl space.



NOTE:

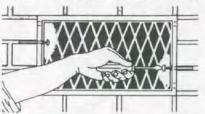
The most important part of the installation is to hold the vent TIGHTLY against the wall while the two holes are drilled. The vent must not be moved between drilling the first and second holes. Some installers insert a screw in the first hole to hold the vent steady while drilling the second.



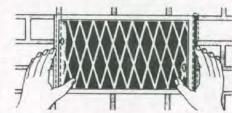
Be sure to drill the hole in the mortar joint deep enough the first time. Redrilling may make the hole too big for the anchor.



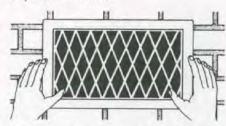
 Remove the vent from the wall temporarily. Blow loose material out of the holes and insert the screw anchors.
 Tap the anchors all the way flush with the brick using a screw driver handle. 6. Mount vent using screws supplied. Turn screw until head is just flush with frame. Do not use excess pressure. To start the screw in the anchor it is helpful to bend the vent slightly away from the wall to see the tip of the screw enter the anchor. While turning the screw, if the vent begins to come away from the wall it means the screw is not in the anchor.



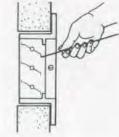
Before fully tightening the screws, adjust the vent left to right to insure that it is centered in the foundation opening.



8. Replace the frame.



Using a wire which will pass through the screen, test for freedom of movement of the louvers to be sure there is no binding.





P.O. BOX 2030 SHELBY, N.C. 28150