DESIGN INFORMATION USE GROUP R-3TYPE VB CONSTRUCTION 40/10 1st FLOOR LOAD(S) ROOF LOAD 16psf / 10psf GROUND SNOW LOAD 20 (ATTIC LIVE LOAD: 30 LBS.) WIND LOAD 115 mph Vult / 89 mph Vasd (1)(2)(3)(4) SEISMIC DESIGN C **EXPOSURE** С 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 120Vult/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/116Vasd 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: TBD BAPTIST GROVE ROAD, FUQUAY VARINA, NC

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)
- PLANS MAY BE MASTERED
- PLANS MAY BE REVERSED

SEE QC MANUAL PAGE 3.79 FOR CRANE LIFTING POINTS

CERTIFICATION INFORMATION

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)

REFER TO "NOTE-2" ON FLOOR PLAN: CERTIFICATION INFORMATION LOCATED IN ADJACENT SECTIONS ON CLOSET WALL

A) 3rd PARTY INSPECTION LABEL

TYPICAL FOUNDATION NOTES

FOOTING NOTES:

FOOTINGS BASED ON 2,000psf SOIL BEARING CAPACITY, IF SOIL BEARING CAPACITY IS LOWER, FOOTINGS MUST BE REVISED AS DETERMINED BY REQUIREMENTS OF AUTHORITY HAVING JURISDICTION.

APPROVED BY

Approval of this document does not authorize

nts of applicable State Laws.

approve any deviation or deviations from the

4/18/2024

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

TYPICAL TERRACE NOTES:

- EXTERIOR CONCRETE TO BE AIR ENTRAINED WITH A MIN. 28 DAY COMPRESSIVE STRENGTH OF 3000 PSI (OR LOCAL REQUIREMENT)
- 2. 4" CONC. OVER 6"X6" #8 WIRE MESH.
- 3. OFFSET CAP TO CARRY SLAB.
- I. INSTALL METAL FLASHING BETWEEN CONC. & WOOD MEMBERS.
- 5. TERRACES TO BE CONSTRUCTED AFTER HOUSE IS SET ON FOUNDATION.
- 6. PURCHASER RESPONSIBLE FOR ACCESSIBILITY INTO LIVING UNIT PER STATE & LOCAL CODE. OPTIONAL BASEMENT NOTES:
- 1. ALL BASEMENT DOORS & WINDOWS ARE SUPPLIED & INSTALLED BY PURCHASER.
- 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

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

UNIT FASTENING REQUIREMENTS:

- 115 mph Vult / 89 mph Vasd AREAS & LESS:
- 1. PURCHASER TO TOENAIL PERIMETER OF FLOOR RIM TO SILL PLATE w/ 16d NAILS (NON-CORROSIVE TYPE) AT 16" O.C. FOR THE ENTIRE PERIMETER OF HOUSE.
- 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 THE ENTIRE PERIMETER OF HOUSE.
- 4. PURCHASER TO REFER TO THE "BUILDER RESPONSIBILITY BULLETIN" FOR INSTRUCTION ON JOB SITE PREPARATION AND EQUIPMENT NEEDS FOR UNIT SETTING.

AREAS W/ WIND ZONE GREATER THAN 115 mph Vult / 89 mph Vasd (3-SEC. GUST):

- . PURCHASER RESPONSIBLE TO SUPPLY & INSTALL ALL FOUNDATION TO UNIT, PILING TO UNIT & UNIT TO UNIT WITH TIE DOWN STRAPS.
- COMPLETION OF ROOF COMPONENT TIE DOWN PER "HIGH WIND CONST." DETAILS IS THE RESPONSIBILITY OF THE PURCHASER. 3. PURCHASER RESPONSIBLE FOR ALL PILING TYPE FOUNDATION CONST. DESIGN & ENGINEERING & SUBJECT TO APPROVAL &
- INSPECTION BY LOCAL JURISDICTION.

GENERAL FOUNDATION NOTES:

- PURCHASER TO USE MORTAR TYPE "S" OR "M" FOR FOUNDATION CONSTRUCTION AS REQUIRED BY STATE & LOCAL CODES.
- . 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
- 4. FOUNDATION DESIGNED FOR PROJECT SPECIFIC WIND ZONE. (3—SEC. GUST) (SEE FLOOR PLAN FOR EXACT WIND SPEED) BRICK CASED DIMENSION NOTES: (IMPORTANT)
- 1. 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 CURRENT PLUMBING CODE.
- 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.
- IF 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. • IT SHALL 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

- 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

F	LOOR, WALL, & ROOF SHEATHI	NG
LOCATION		SPAN RATIN
FL00R	- 19/32" T&G OSB - 23/32" T&G OSB	40/20 48/24
WALL	- 7/16" SE OSB - 19/32" SE OSB - 7/16" ZIP PANEL	24/16 40/20 24/16
ROOF	- 7/16" SE OSB - 7/16" SE OSB (tech shield radiant barrier)	24/16 24/16

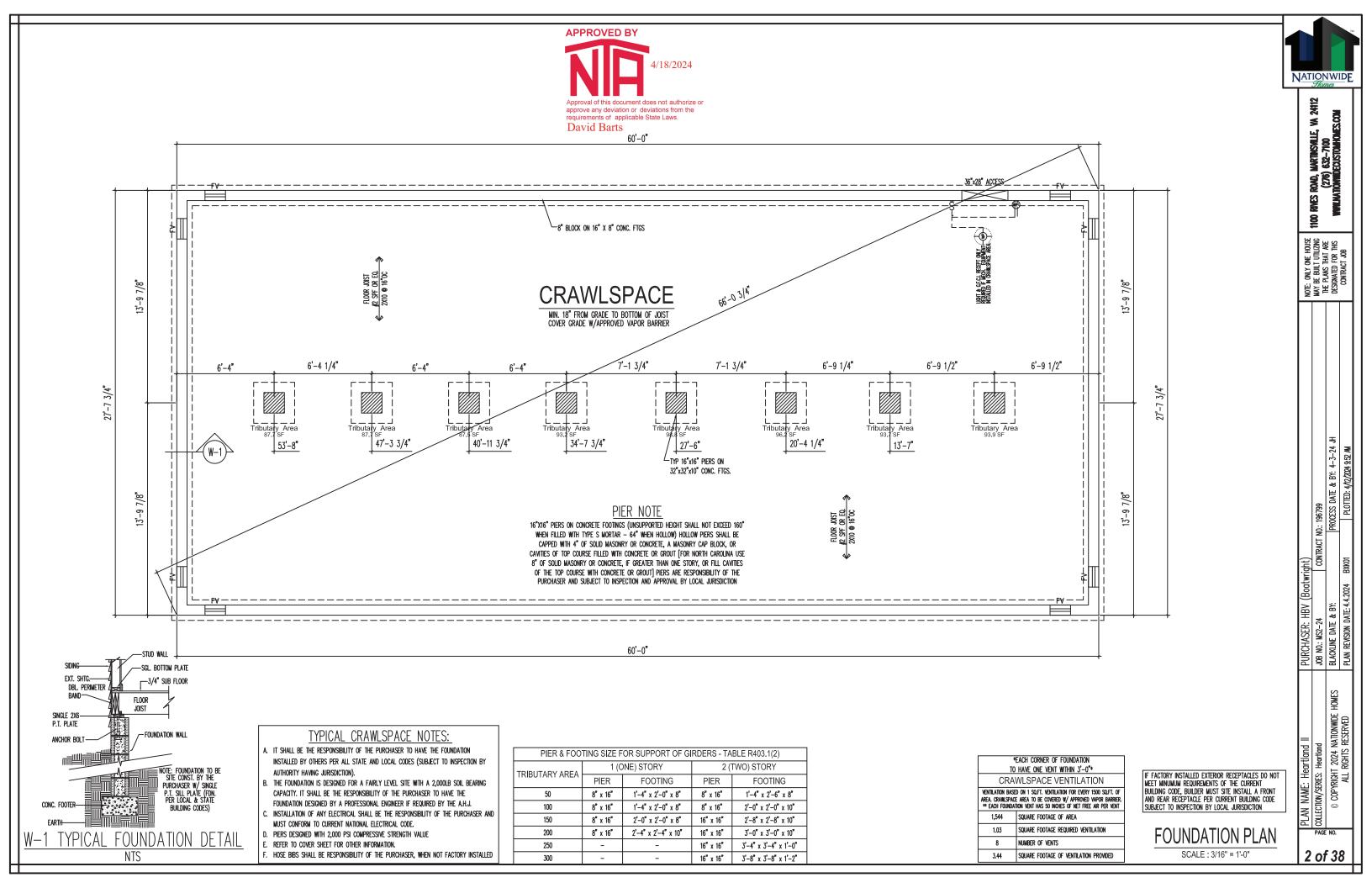
VAPO	R BAR	<u>rier</u>
LOCATION	R-VALUE	PAPER
FLOOR	R-19 R-30	KRAFT-FACEL
WALL	R-13 R-15 R-19 R-21	IGRAFT-FACEL IGRAFT-FACEL IGRAFT-FACEL IGRAFT-FACEL
ROOF	R-30 R-38	KRAFT-FACEL KRAFT-FACEL

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

1 of 38

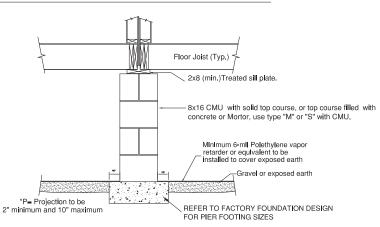


N.C. Foundation Cross Section- 90 to 130 Mph 1-1/2, 2, OR 2-1/2 STORY 1/2" diameter anchor bolt embedded into wall top courses with a minimum of 7" deep anchor with washers, in 115-129 mph zones. OPTIONAL A minimum of 15" deep anchor with washers, (2"x 2" x 1/8" washers in 130 mph) Minimum 6" strip of 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 lie down and braced wall requirements.

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

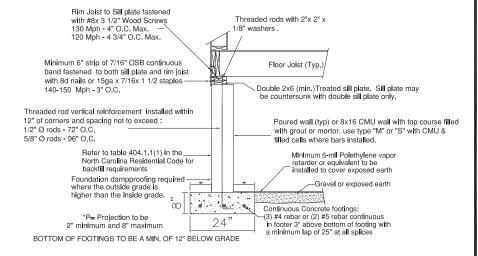


BOTTOM OF FOOTINGS TO BE A MIN. OF 12" BELOW GRADE

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.

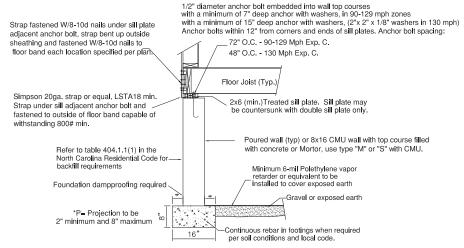
N.C. High Wind Foundation Cross Section- 140 to 150 Mph 1-1/2, 2, OR 2-1/2 STORY



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 tie 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

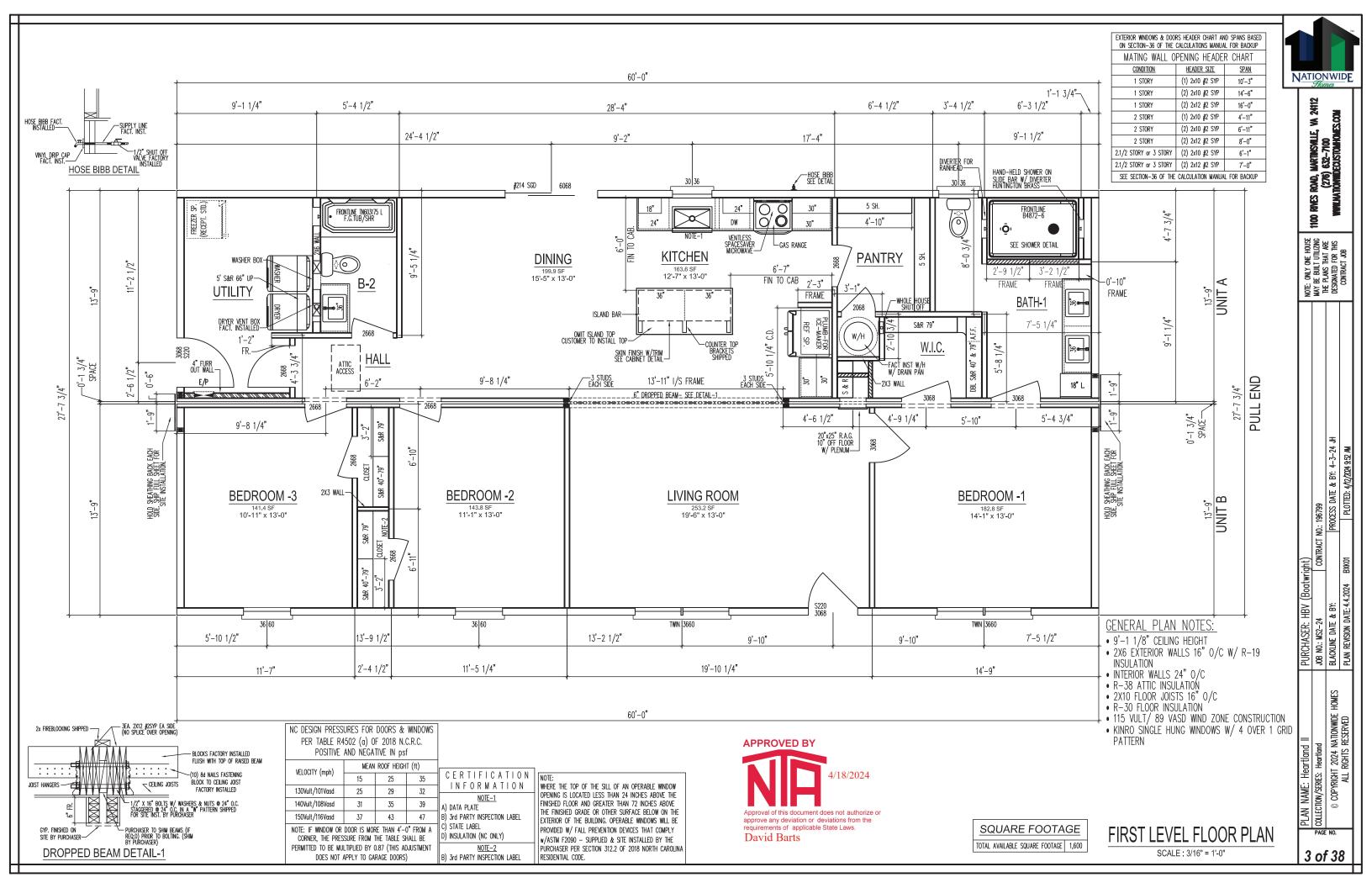
N.C. 800# HOLD DOWN STRAP DEVICE



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



115 Vult / 89 Vasd MPH PRESCRIPTIVE BRACED WALL PANEL DETAIL SHEET (PER 2018 N.C.R.C) CIRCUMSCRIBED METHOD





 PURCHASER: HBV (Boatwright)

 JOB NO: MS2-24
 CONTRACT NO: 196799

 BLACKLINE DAIE & BY:
 PROCESS DAIE & BY: 4-3-24 JH

 PLAN REVISION DATE: 4.4.2024
 BXK01

TYPICAL BRACED WALL NOTES:

* 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

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.

4 of 38

(A)	21'-4 3/8"	60'-0" 4'-10 1/2" 14'-9 1/4"	7'-10 1/8"
9'-7 1/4"	BATH-2	KITCHEN UTIL.	
	DINING	WIC WIC	BATH-1
	E/P		18° L 3/4"
14'-10"	BEDROOM -3 BEDROOM -2	LIVING ROOM	BEDROOM -1
B	4'-4 1/8" 10'-8 3/4" 8'-7 1	/2" 5'-2 1/8" 5'-2 1/8"	4'-4 7/8' B
	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	APPROVED BY 4/18/2024	2

9'-7" EAVE TO RIDGE HEIGHT / MULTIPLIER= 1.0 CEILING HEIGHT = 9'-1 1/8" / MULTIPLIER = 0.92 BRACED WALL METHOD = CS-WSP

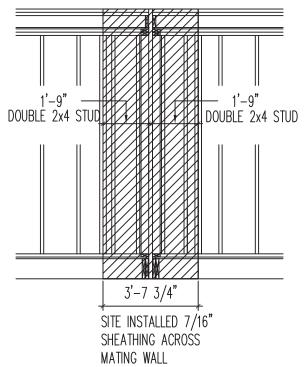
Approval of this document does not authorize or approve any deviation or deviations from the requirements of applicable State Laws. **David Barts**

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"	4.8'/30x27.65x1.5x0.93x0.92= 5'-8 1/8"	48'-10 1/4"	NO	1.3/4" 16ga. STAPLES 3" EDGE / 6" FIELD
В	27'-7 3/4"	4.8'/30x27.65x1.5x0.93x0.92= 5'-8 1/8"	38'-5 1/2"	NO	1.3/4" 16ga. STAPLES 3" EDGE / 6" FIELD
1	60'-0"	9.6'/60x60x1.5x0.93x0.92= 12'-3 7/8"	24'-5 1/4"	NO	1.3/4" 16ga. STAPLES 3" EDGE / 6" FIELD
2	60'-0"	9.6'/60x60x1.5x0.93x0.92= 12'-3 7/8"	27'-7 3/4"	NO	1.3/4" 16ga. STAPLES 3" EDGE / 6" FIELD
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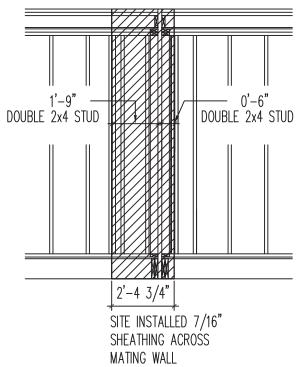


EXT. SHEATHING DETAIL BATH 1 / BEDROOM 1



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

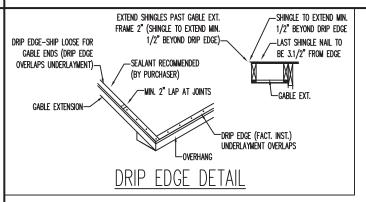
EXT. SHEATHING DETAIL BEDROOM 3 / UTILITY



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

	NOTE: ONLY ONE HOUSE	
VTRACT NO.: 196799	MAY BE BUILT UTILIZING	THUO MOVES KUMU, MAKHINSWILLE, VA 24112
PROCESS DATE & BY: 4-3-24 JH	DESIGNATED FOR THIS	WOWNATIONWINE CISTOMEN SCOOL
PLOTTED: 4/2/204 9:53 AM	CONTRACT JOB	

5 of 38



SIDING CHART

CRANE TRIPLE 6 & DOUBLE 7 SOUID CORE SIDING SIDING

VENTILATION CALCULATIONS

RIDGE VENT: 0.139 NET FREE AIR PER SQ.FT.

69 LINEAL FOOT - 9.06 SQ.FT. NET FREE

 NATIONWIDE Hunes

> 1100 RIVES ROAD, MARTHESMLE, VA 24112 (276) 632–7100 WWILMATIOWIEDEDUSTOMHOMES.COM

CERTAINTEED LANDMARK / TAMCO HERITAGE SHINGLES FIRE RESISTANCE:

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

EXTERIOR PORTFOLIO VINYL SIDING & SOFFIT

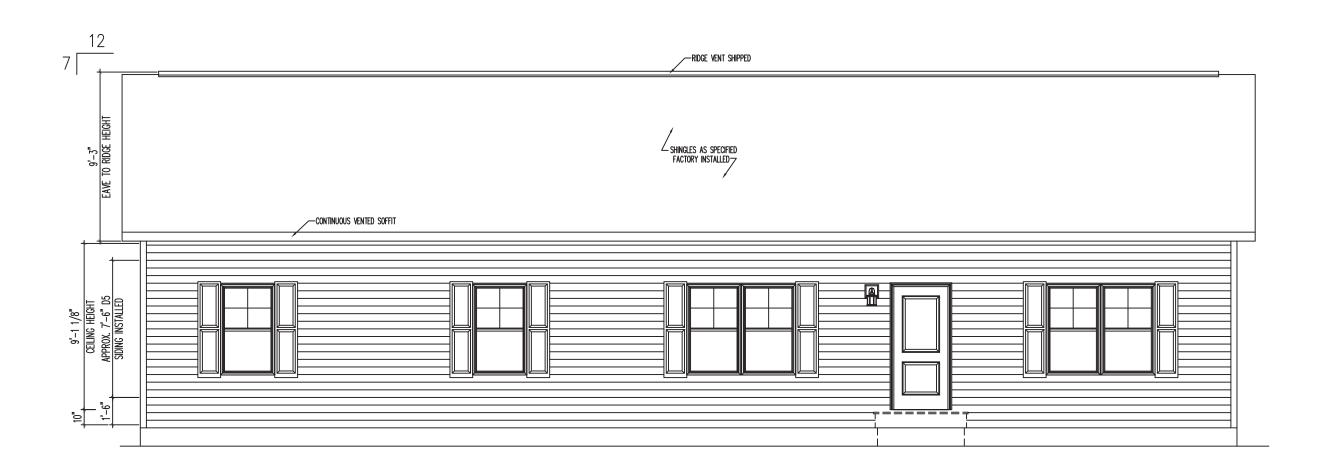
FLAME SPREAD-PVC: <25 (ASTM E84) PER SECTION R302.1.2 OF THE 2018 NORTH CAROLINA RESIDENTIAL CODE SMOKE DENSITY-PVC: <450 (ASTM E84)

NOTF:

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.

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

David Barts



ELEVATION NOTES:

• NO SALEM TRIM PER CUSTOMER REQUEST

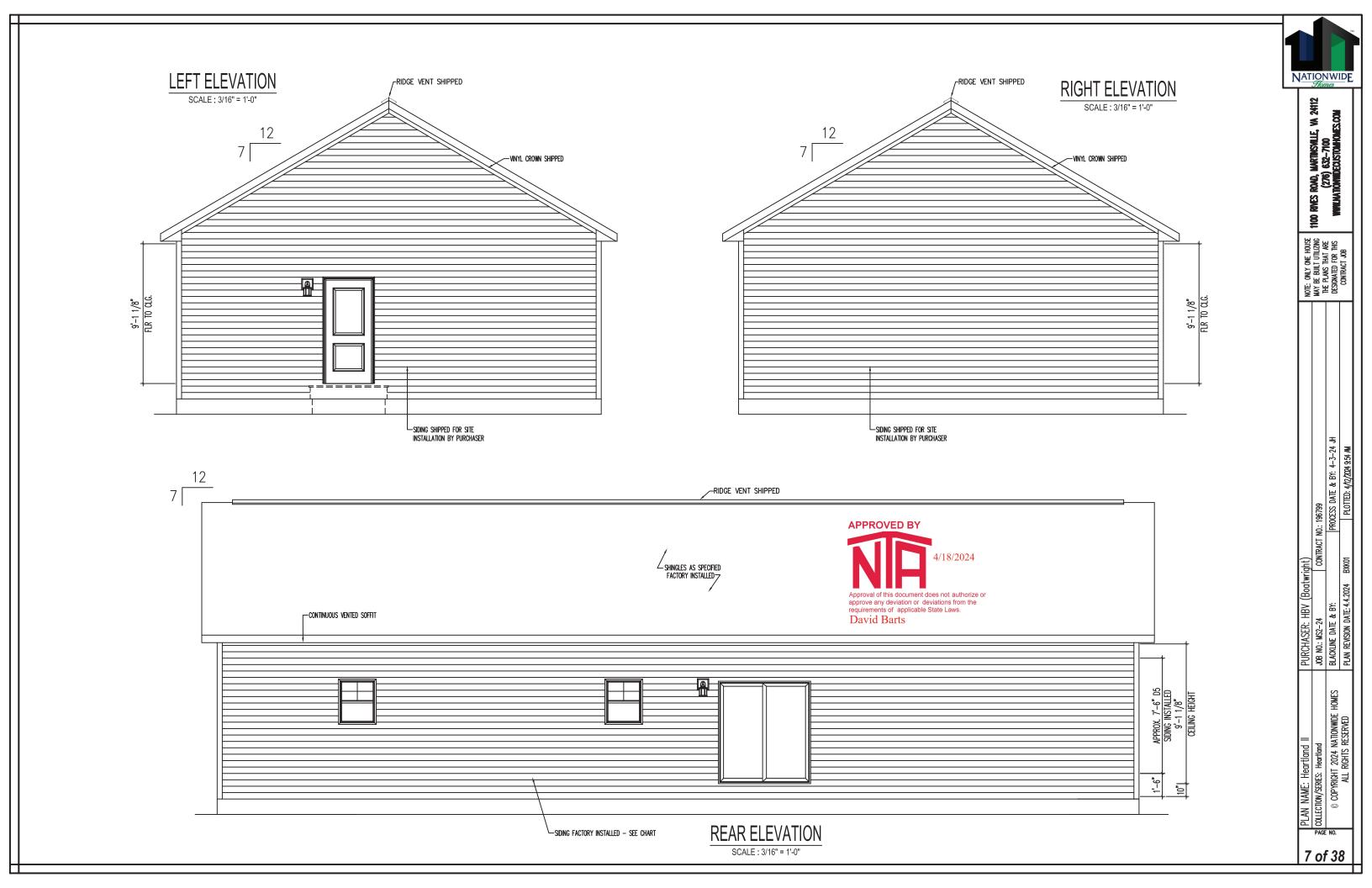
FRONT ELEVATION
SCALE: 3/16" = 1'-0"

 PURCHASER: HBV (Boatwright)

 JOB NO.: MS2-24
 CONTRACT NO.: 196799

 BLACKINE DATE & BY:
 PROCESS DATE & BY: 4-3-24 JH

 PLAN REVISION DATE: 4.4.2024
 BXK01
 6 of 38



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. 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",
- AC/DC smoke detectors wired for simultaneous operation.

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

€	Duplex Receptacle	\$	Single pole switch	CMD	Carbon Monoxide Det.	
® =	Weatherproof duplex	3SI	Three-way switch	CMD∕so	Carb.Mon./Sm.Det. Combo	
	240v Receptacle	\$	Four-way switch		Wire & Brace (Fan optional)	
	Quad Receptacle	ⅳ	Television outlet	- \$\$-	Exterior Light	
φ.	Overhead light	Ø	Telephone outlet	Ð	Push button for chime	
0	LED Recessed / Weatherproof light	≯	Wall Light / Sconce	A	Flood Light	Π
	Fluorescent light	Θ	Thermostat	DC	Wireless Door Chime	
	Light/Clg. Exh. fan (50 CFM Min)	Ø	Heat/Fan/Light		4 x 10 Registers	
	Clg. Exh. fan (50 CFM Min)	SD	Smoke Detector	<i>}</i>	Toe-Kick Registers	
			•	_		



1100 RIVES ROAD, MARTHESMLE, VA 24112 (276) 632—7100 WWILMATHOWINDEDUSTOMHOMES.COM

JOB NO.: MS BLACKLINE | PLAN REVIS

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

24 GFOI : OZO KITCHEN 9'-8 1/4" 16 PANTRY UTILITY ² BATH-2 **DINING** BATH-1 -GFCI QUAD RECEPT **WIC** 4 WIRE & BRACE FOR FAN W/2 SWITCHES--WIRE & BRACE FOR FAN W/2 SWITCHES -WIRE & BRACE FOR FAN W/2 SWITCHES BEDROOM -1 BEDROOM -3 BEDROOM -2 LIVING ROOM APPROVED BY approve any deviation or deviations from the requirements of applicable State Laws. MOUNT ELECTRICAL DEVICES **David Barts** UNDER WALL CABINETS IN KITCHEN

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

MECHANICAL VENTILATION PER TABLE M1507.3.3(1)

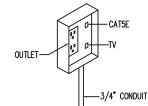
CODE REQUIRED VEN		HOUR FRACTION	VENTILATION SETTINGS IN MINUTES/HOUR
60	100	0.6000	36.00

HVAC SYSTEM DESIGNED, ENGINEERED, AND SITE INSTALLED BY HVAC CONTRACTOR. ALL 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

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

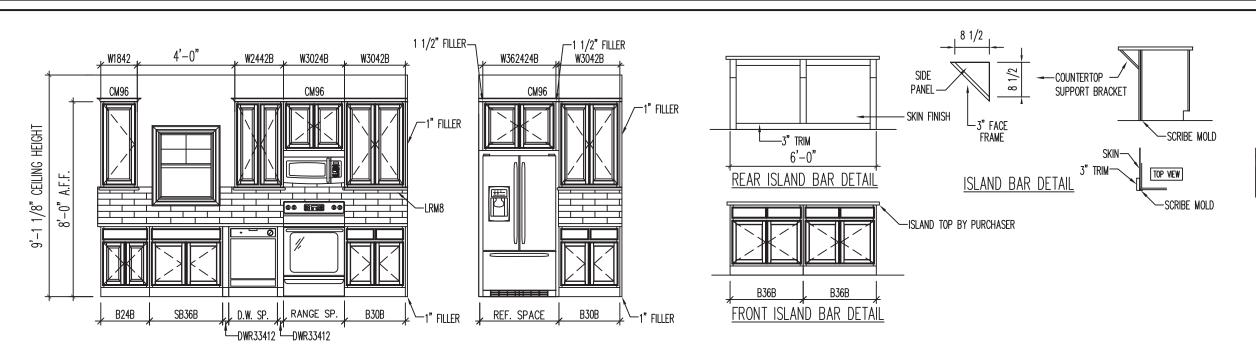
ALL BRANCH CIRCUITS THAT ARE SUPPLYING 15 & 20 AMP OUTLETS IN ALL BEDROOMS, KITCHENS, DINING ROOM, BREAKFAST ROOM, PARLORS, LIBRARIES, DENS FAMILY ROOM, SUNROOMS, RECREATION ROOMS, CLOSETS, HALLWAYS, LAUNDRY AREAS OR SIMILAR AREAS, TO BE PROTECTED BY ARC-FAULT CIRCUIT INTERRUPTER PER SECTION 210.12,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



RECESSED RECEP/TV/PH. JACK DET. **COMBO BOX DETAIL**

FIRST LEVEL ELECTRICAL PLAN

8 of 38



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.

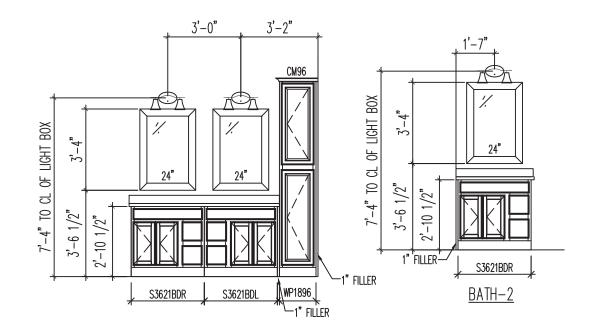
FOR NORTH CAROLINA ONLY: REFER TO NATIONWIDE HOMES 2018 NC Q.A. MANUAL, CHAPTER-10, FOR ALL APPLIANCES

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NATIONWIDE

KITCHEN CABINET LAYOUT

MATCHING TOE KICK COVERS



BATHROOM CABINETS

MATCHING TOE KICK COVERS



NOTE: ONL'	MAY BE BU	DESIGNATE	CONTR	
URCHASER: HBV (Boatwright)	JOB NO.: MS2-24 CONTRACT NO.: 196799	BLACKLINE DATE & BY: PROCESS DATE & BY: 4-3-24 JH	PLAN REVISION DATE: 4.4.2024 BXX01 PLOTTED: 4/12/224 9:55 AM	
PLAN NAME: Heartland II	COLLECTION/SERIES: Heartland	© COPYRIGHT 2024 NATIONWIDE HOMES	ALL RIGHTS RESERVED	
9	01	F 3	8	

 TRAP SIZE
 FALL PER FOOT
 DISTANCE TO VENT FROM TRAP

 1 1/4"
 3 Ft. 6 In.

 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.

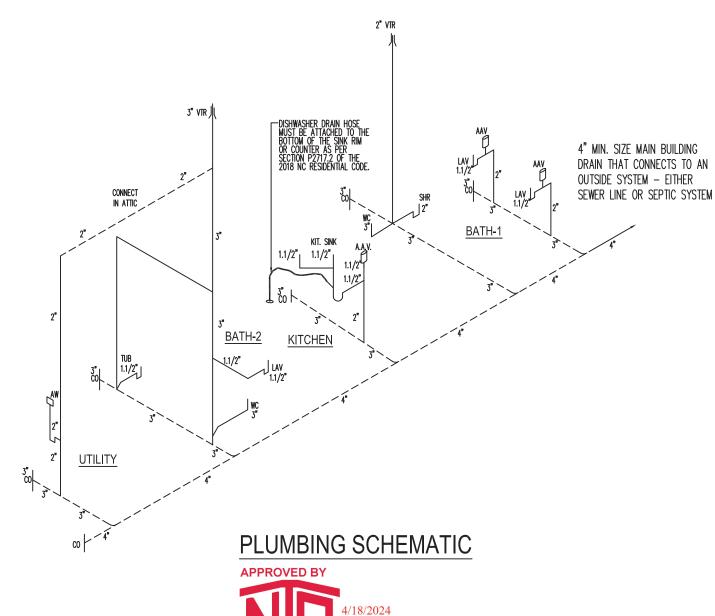
ALL FACTORY INSTALLED PLUMBING TO CONFORM TO: CURRENT PLUMBING CODE (SEE COVER SHEET)

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



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

David Barts

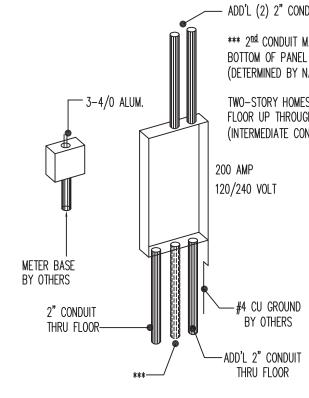
PANEL SCHEDULE

* LOCKOUT BREAKER INSTALLED ON WATER HEATER & DISHWASHER



1100 RVES ROAD, MARTINSMLLE, VA 24112 (276) 632-7100 WWILAATIOWIIDEOUSTOMHOMES.COM

II	AMP	WIRE SIZE			200 AM	ΙP	PANE	L		WIRE SIZE	AMP	ı
	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	1
	20	12/2	AFCI	GENERAL WIRING	5		6	DRYER	2401/	10/3 WG	30	
	20	12/2	AFCI	GENERAL WIRING	7		8	DRYER	240V	10/3 WG	30	
	25	10/2	240	* WATER HEATER	9		10	RANGE	2401/	8/3 CU	40	
	25	10/2	240	WATER HEATER	11		12	RANGE	240V	8/3 CU	40	
	15	14/3	AFCI	SMOKE DETECTOR/CMD	13		14	WASHER	AFCI	12/2	20	L
	20	12/2	AFCI	GENERAL WIRING	15		16	* DISHWASHER	AFCI/GFCI	12/2	20	
	20	12/2	AFCI	GENERAL WIRING	17		18	BATH-1 RECEPT		12/2	20	N V
					19		20	BATH-2 RECEPT		12/2	20	NO H
					21		22	FREEZER OUTLET	AFCI	12/2	20	F
					23		24	MICROWAVE OUTLET	GFCI	12/2	20	
					25		26					
					27		28					
					29		30					
					31		32					
					33		34					
					35		36					
					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 wring (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

© PLAN NO. PAGE NO. PAGE NO. PAGE NO.

JOB NO.: MS2–24 BLACKLINE DATE & BY: PLAN REVISION DATE: 4.1

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 INSTRUCTIONS.
- 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
- 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
- MAXIMUM LENGTH OF INDUVIDUAL DISTRIBUTION LINES SHALL NOT EXCEED 60 FT.



TUB 1/2"

KITCHEN

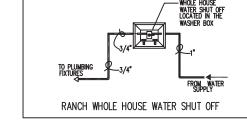
FIRST FLOOR

3/4"

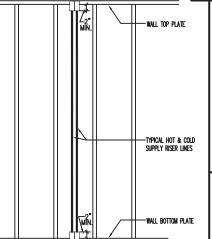
KITCHEN

SINK |

1/2"







NAIL PLATES PROTECTION

WATER DISTRIBUTION PIPE INSTALLED THROUGH FRAMING MEMBERS WITHIN 1.1/2" OF EDGE SHALL BE PROTECTED BY USING NAIL PLATES THAT ARE MINIMUM 16 ag. AND EXTEND 2" ABOVE BOTTOM PLATE AND 2" BELOW TOP

1100 RIVES ROAD, -NAIL GUARD PLATES FLOOR JOISTS NAIL GUARD PLATE DETAIL

-NAIL GUARD PLATES

NATIONWIDE

W 24112

FIELD WORK —MAIN LINE CONNECTION ON SITE TO AN APPROVED WATER SUPPLY SYSTEM/SOURCE (PUBLIC OR PRIVATE WATER SOURCE) SHR 1/2" SUPPLY RISER SCHEMATIC - COLD 3/4" DIVERTER FOR RAIN FLOW HEAD LAV |1/2" "PEX" (HIGH DENSITY CROSS LINKED POLYETHYLENE) BATH-1 1/2" FIRST FLOOR 3/4"

HOSE BIBB

50 GALLON ELECTRIC

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

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

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

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

FIRST FLOOR

3/4"

- 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 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.



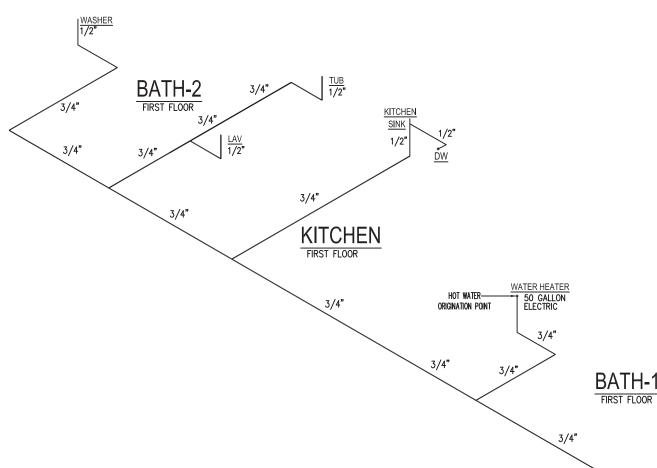
JOB NO.: MS2-24
BLACKLINE DATE &
PLAN REVISION DA

1 of 38

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 INSTRUCTIONS.
- 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 EXTERIOR.
- 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 HFATTES.
- 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.
- 8. WATER HEATER EQUIPPED W/DIP TUBE TO PREVENT SIPHONING OF WATER FROM TANK BACK INTO WATER SUPPLY LINES.
- 9. ALL WATER HEATER TANKS SHALL BE EQUIPPED WITH DRAIN COCKS AT BASE OF TANK FOR EMPTYING.
- 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.





WHOLE HOUSE WATER SHUT OFF LOCATED IN THE WASHER BOX

TO PLUMBING FIXTURES

FROM WATER SUPPLY TERMS

FROM WATER SUPPLY TE



DIVERTER FOR RAIN FLOW HEAD

NATIONWIDE

NAIL GUARD PLATES

NATIONWIDE

Top plate

NATIONWIDE

NATIONWIDE

Top plate

NATIONWIDE

NAIL PLATES PROTECTION

WATER DISTRIBUTION PIPE INSTALLED THROUGH FRAMING MEMBERS WITHIN 1.1/2" OF EDGE SHALL BE PROTECTED BY USING NAIL PLATES THAT ARE MINIMUM 16 ag. AND EXTEND 2" ABOVE BOTTOM PLATE AND 2" BELOW TOP

TYPICAL HOT & COLD SUPPLY RISER LINES

NAIL GUARD PLATE

FLOOR JOISTS

NAIL GUARD PLATE

| CONTRACT NO.: 196799 | | CONTRACT NO.: 196799 | | PROCESS DATE & BY: 4-3-24 JH | PROCESS DATE & BY: 4-3-24 JH | PLOTTED: 4/18/2004 7:25 AM | PLOTTED: 4/18/2004

(Posturiot

100 NO: MS2-24
100 NO: MS2-24
100 NOE HOMES BLACKLINE DATE & BY:
SERVED PLAN REVISION DATE: 4.77.20

ECTION/SERIES: Heartland
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PAGE NO.

SUPPLY RISER SCHEMATIC - HOT

"PEX" (HIGH DENSITY CROSS LINKED POLYETHYLENE)

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

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

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

- 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 COPEATED THAN 1400F
- TEMPERATURE—ACTUATED MINING 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 <u>ASSE 1062</u>. SUCH VALVES SHALL NOT BE USED AS A SUBSTITUTE FOR THE BALANCED PRESSURE, THERMOSTATIC OR COMBINATION SHOWER VALVES REQUIRED FOR SHOWERS IN <u>SECTION P2708.4</u>.
- 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.

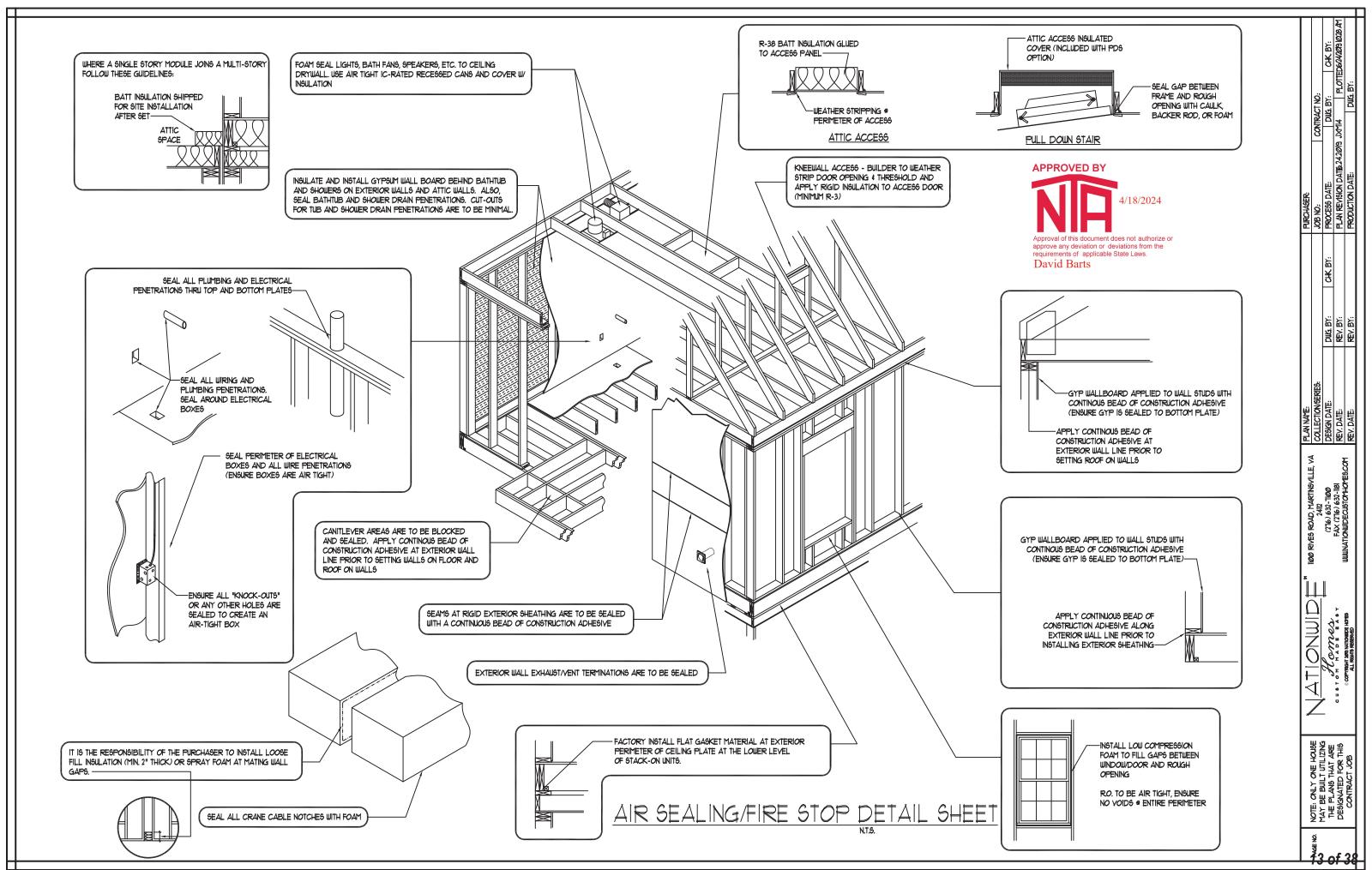


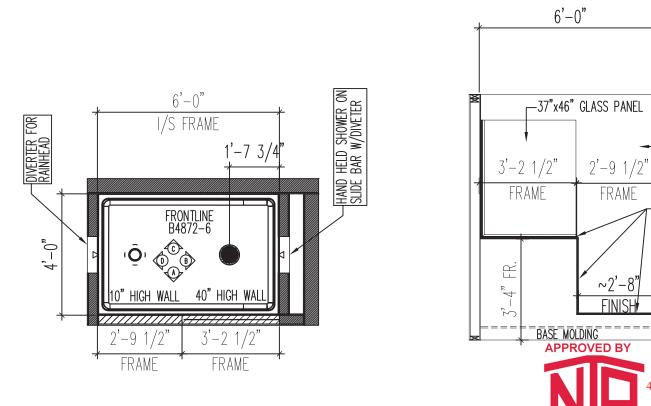
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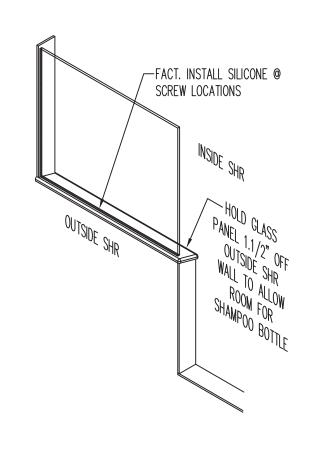


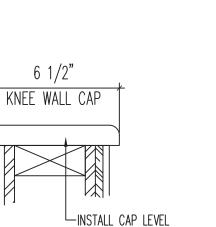
Approval of this document does not authorize or approve any deviation or deviations from the requirements of applicable State Laws.

David Barts









48"X72" FRONTLINE FIBERGLASS SHOWER BASE (NO SEAT) **BATH-1 SHOWER DETAIL**

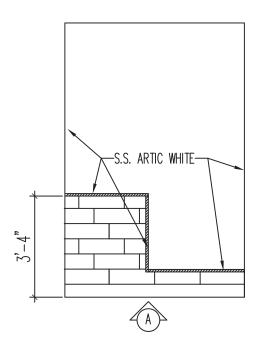
CERAMIC SURROUND

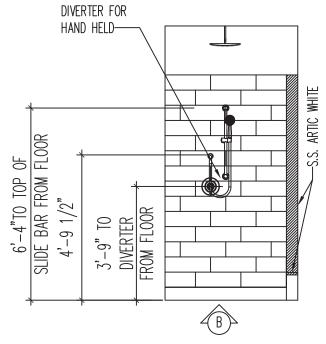
PRODUCTION ORDER

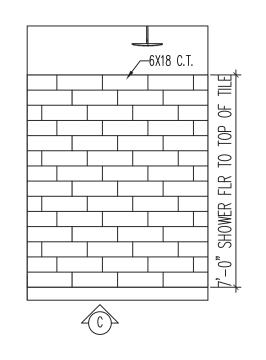
-1"x6.1/2" SOLID SURFACE CAP

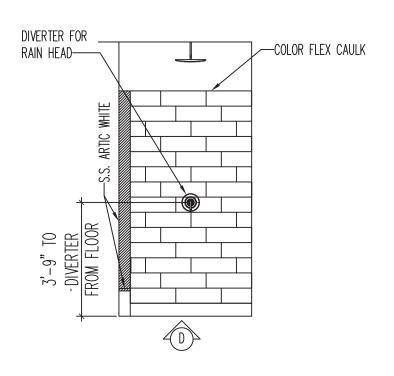
S006 ARCTIC WHITE

AT WALLS / SEE









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NATIONWIDE

PURCHASER: HBV (Boatwright)

JOB NO: MS2-24 | CONTRACT NO: 196799

BLACKLINE DATE & BY: 4-3-24 JH

PROCESS DATE & BY: 4-3-24 JH

PLAN REVISION DATE: 44.2024 BXK01 | PIOTIFIP. APPAPATAL AST AND ADDRESS AST ADDRESS AST ADDRESS AST ADDRESS AST AND ADDRESS AST ADDRESS A

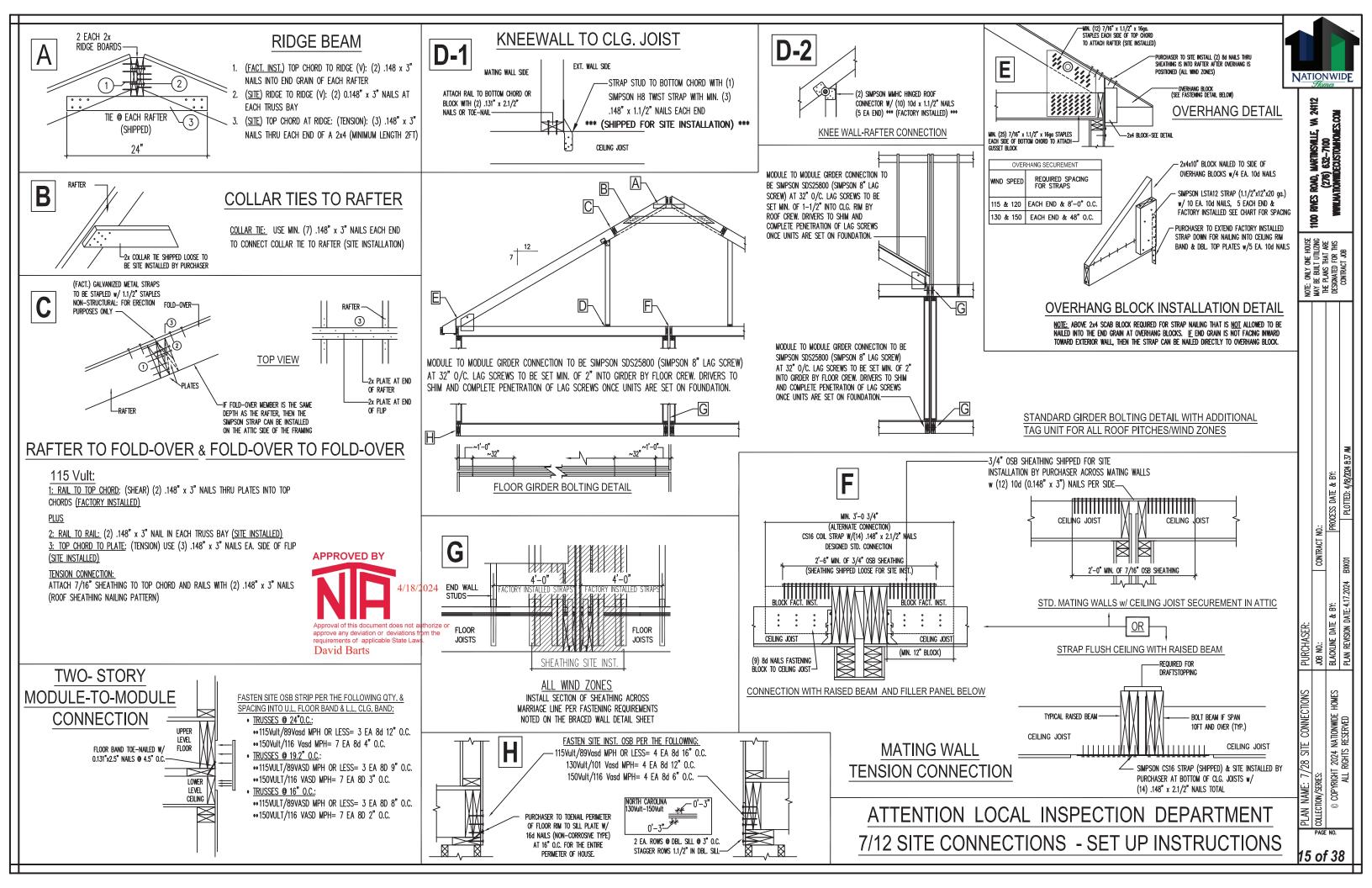
PLAN NAME: Heartland II

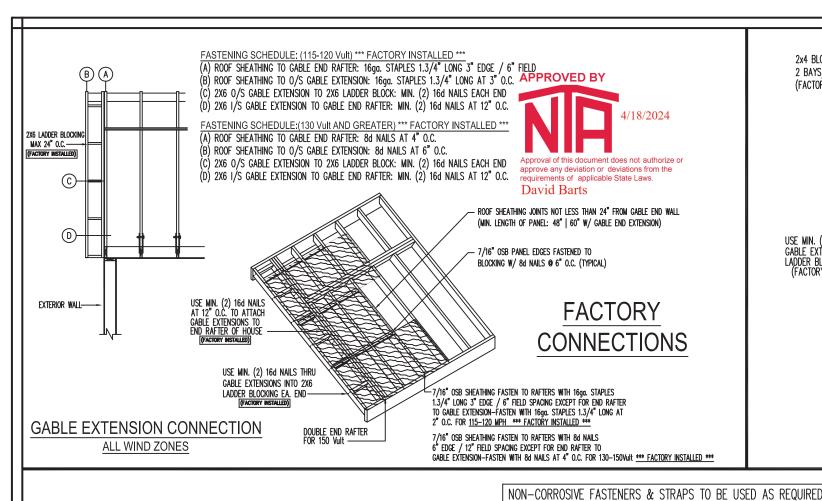
COLLECTION/SERIES: Heartland

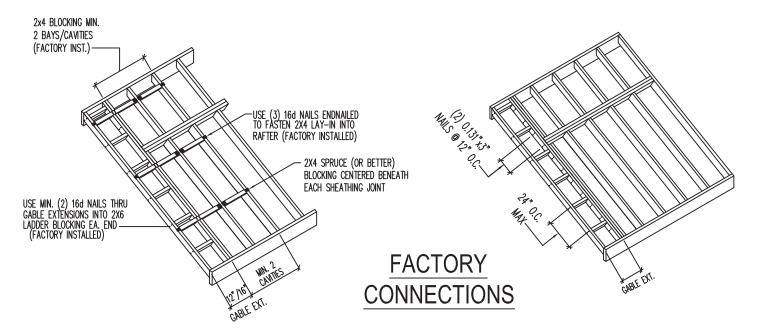
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14 of 38

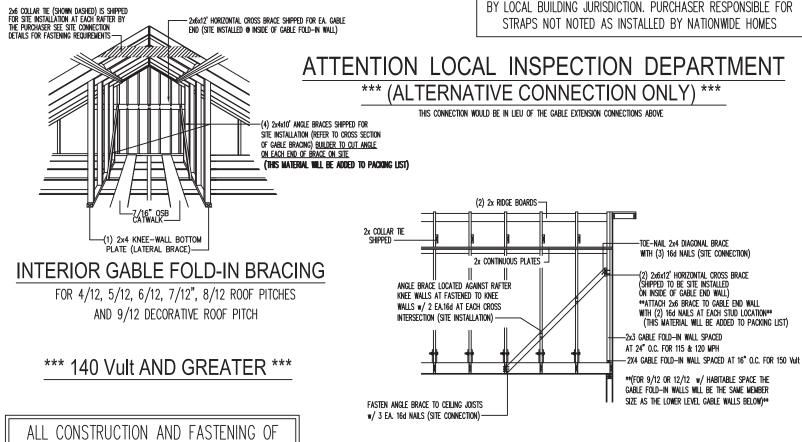






12" OR 16" GABLE EXTENSION CONNECTION DETAIL

** 140 Vult AND GREATER **



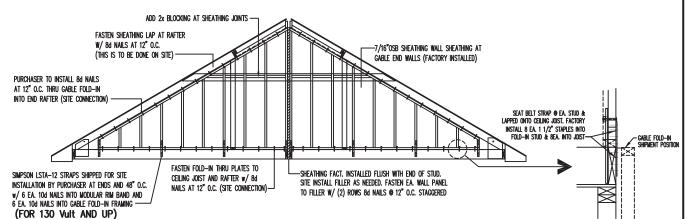
GABLE FOLD-IN BRACING IS PRESCRIPTIVE

PER THE 2018 NORTH CAROLINA

RESIDENTIAL CODE - CHAPTER 45

CROSS SECTION OF GABLE BRACING

FOR 4/12, 5/12, 6/12, 7/12", 8/12 ROOF PITCHES AND 9/12 DECORATIVE ROOF PITCH



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)
- 2. 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.
- 4. FASTENING FOR 7/16" OSB SHEATHING: 8d NAILS SPACED AT 6" EDGE / 12" FIELD
- Gable Fold—in Wall spacing per construction detail **(for 12/12 roofs w/ Living space 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)**

- 1. FASTEN SHEATHING LAP @ RAFTER W/ 8d NAILS @ 12" O.C. (IF APPLICABLE)
- 2. FASTEN GABLE FOLD-IN THRU PLATES TO CLG. JOIST AND RAFTER W/ 16d NAILS @ 12" O.C.
- 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 3" O.C. EDGE / 6" O.C. FIELD
- 5. GABLE FOLD—IN WALL SPACING: 2x4 AT 16" O.C.
- 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

IAME: 7/28 SITE CONNECTIONS

JOB NO:
COPPRIGH:
COPPRIGHT 2024 NATIONWIDE HOMES

ALL RICHTS RESERVED

PLAN REVISION DATE: 1:19.2024 BXK01

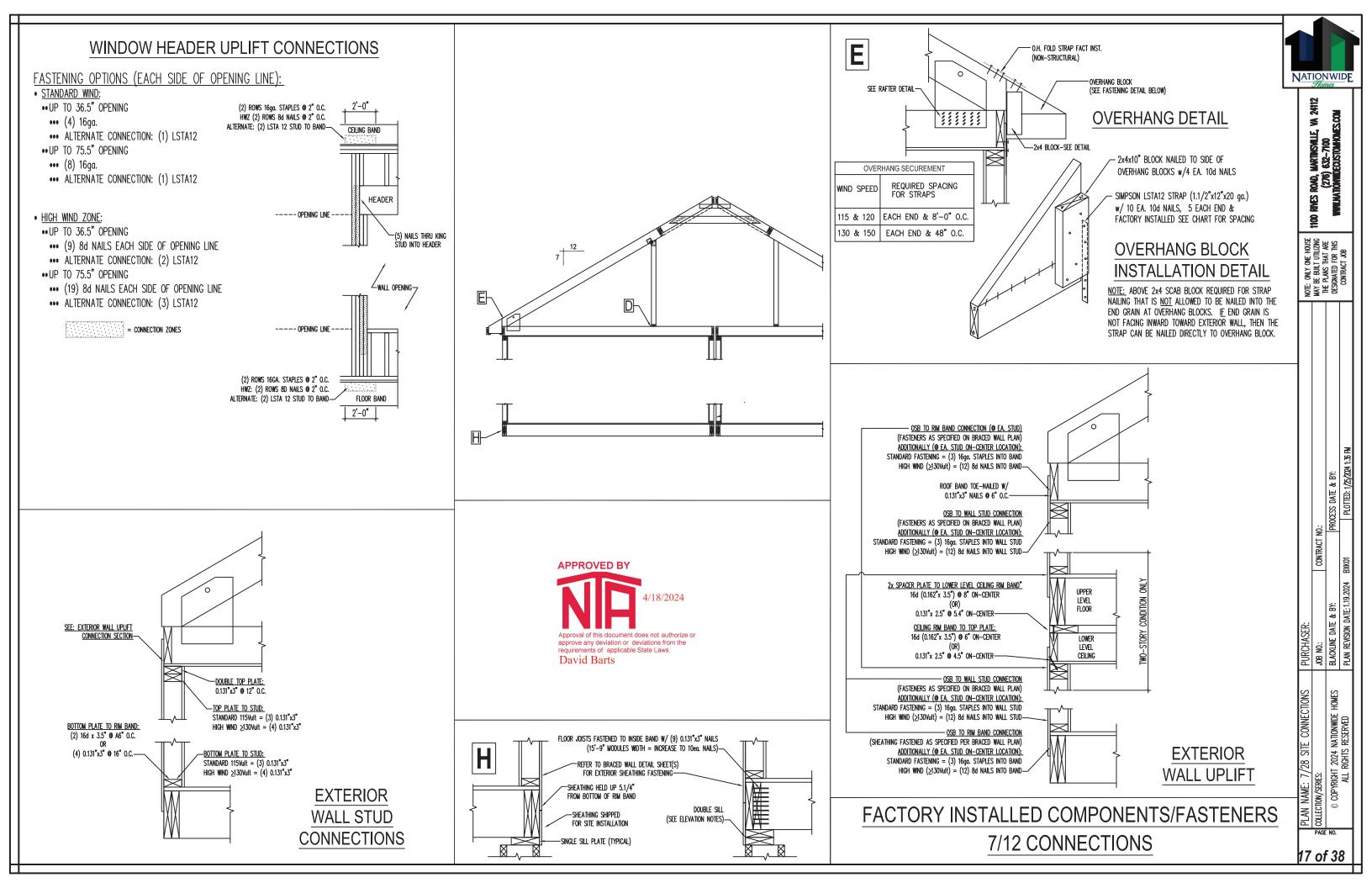
PLOTTED: 1/55/2004

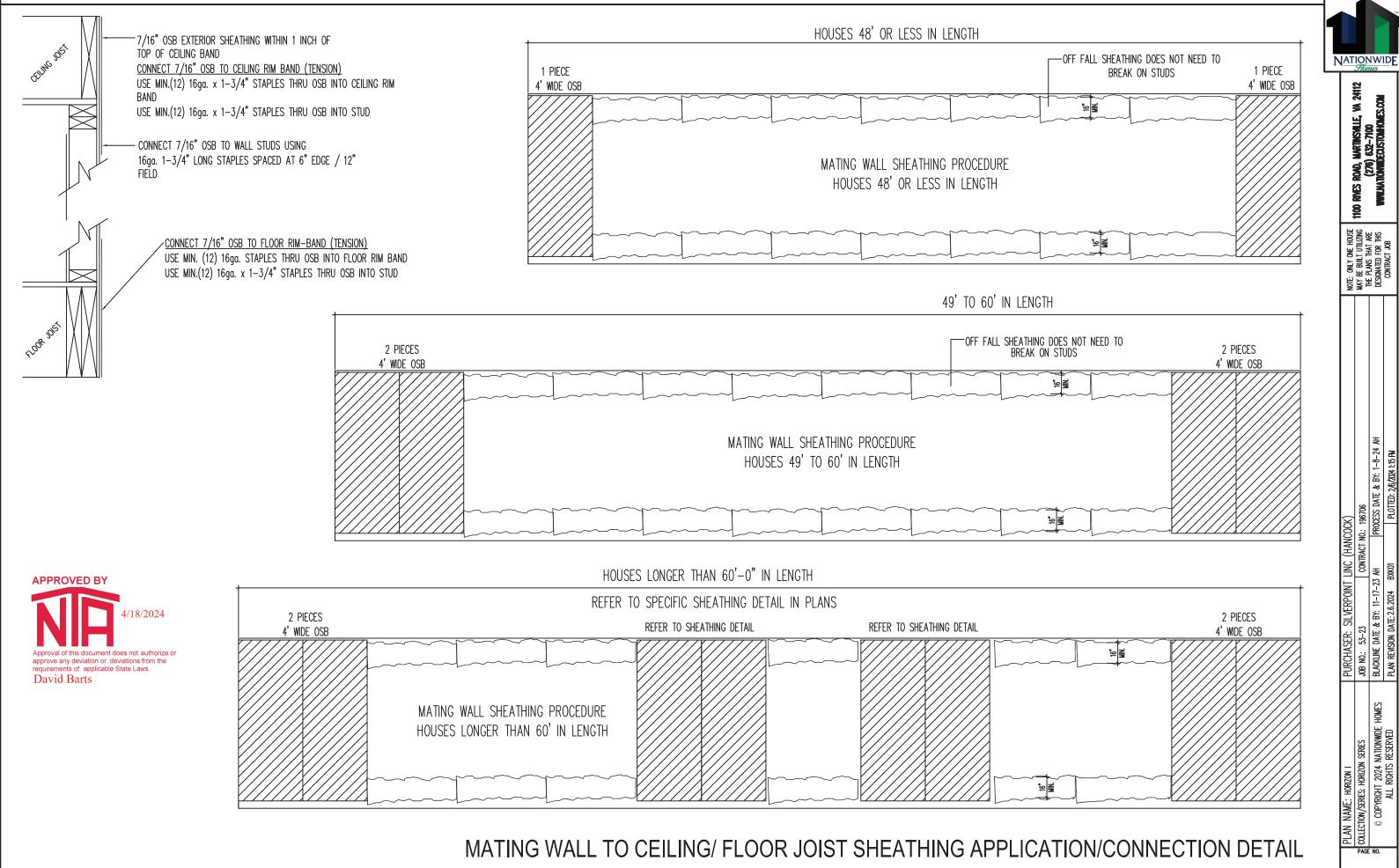
16 of 38

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NOTE: ONLY ONE HOUSE
MAY BE BUILT UTILIZING
THE PLANS THAT ARE
DESIGNATED FOR THIS
CONTRACT JOB

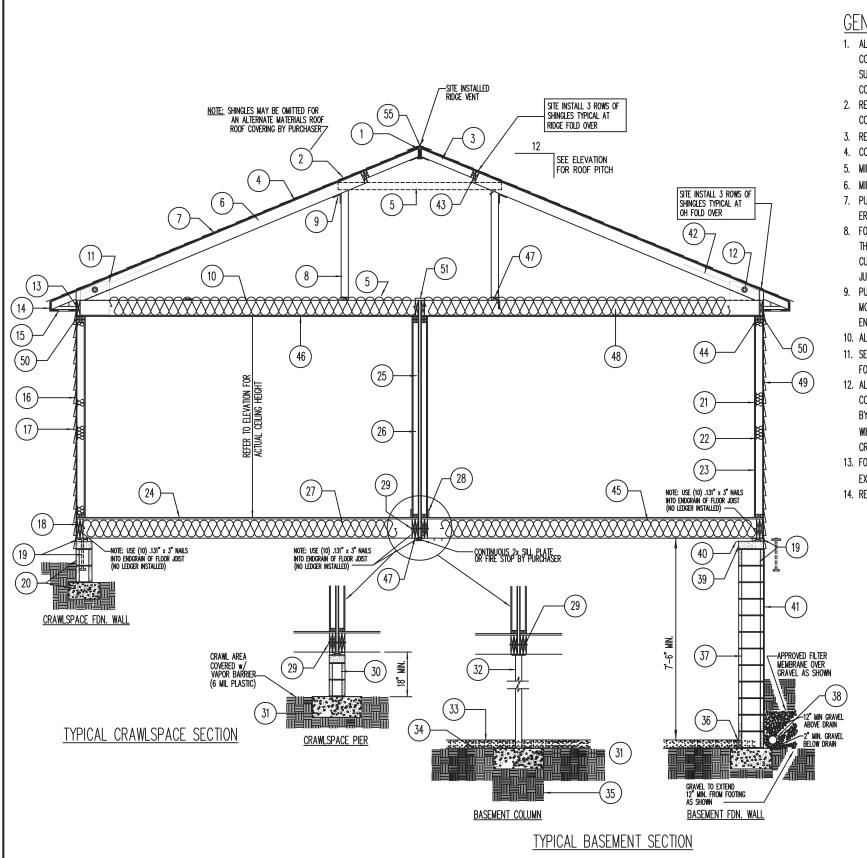




18 of 38

JOB NO.: 53–23 BLACKLINE DATE & B PLAN REVISION DATE:

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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)

OSB GUSSETS AT EACH SIDE

13 CONTINOUS PERIMETER BAND (#2 SYP or EQUAL)

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

FOUNDATION WALL AND CONCRETE FOOTER

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

VINYL CONTINIOUS VENTED SOFFIT

VINYI FXTERIOR SIDING

1/2" GYPSUM WALL BOARD

24 3/4" OSB T&G FLOOR SHEATHING

4 SYNETHIC UNDERLAYMENT

12 BOLT ASSEMBLY

14 FASCIA BOARD

28 BASEMOULD

36 EXPANSION JOINT

CONCRETE PIERS

CONCRETE FOOTER

FOUNDATION WALL 38 DRAIN TILE WITH GRAVEL SURROUND

39 SOLID CAPE (IF REQUIRED)

TERMITE SHIELD DAMP PROOFING

1/2" CEILING GYPSUM

49 WEATHER RESISTIVE BARRIER

32 STRUCTURAL SUPPORT COLUMN

CONCRETE SLAB FLOOR

GRAVEL AND VAPOR BARRIER

30

31

SHINGLES (SITE INSTALLED AT O.H & U.L FOLD-OVER)

ROOF SHEATHING (115Vult / 150Vult) 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 JURISDICTION.
- 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 Vult AND ABOVE: HORIZONTAL MID SPAN BLOCKING AT EXTERIOR WALLS AT SHEATHING JOINTS (IF HORIZONTAL INSTALLATION)
- 14. REFER TO COVER SHEET FOR WIND ZONE SPEED.

APPROVED BY 4/18/2024 approve any deviation or deviations from the equirements of applicable State Laws. **David Barts**

FOR ROOF TRUSS REFERENCE - 7/12 (27'-7 3/4") SEE ATTACHED PE SEALED RAFTER CALCULATIONS

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

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

5 2x Collar Tie (site-installed) #2 syp of equal (refer to roof framing for spacing) 2x RAFTERS #2 SYP or EQ. (115Vult / 150Vult) (REFER TO ROOF FRAMING FOR SPACING)

2x8 CEILING JOISTS (#2 SYP or EQUAL) (REFER TO ROOF FRAMING FOR SPACING)

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

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

MATING WALL SHEATHING: 7/16" OSB STRUCTURAL SHEATHING

NATIONWIDE

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

<u> DROPPED BEAM SIZED PER - 7/12 RAFTER COMP. LOAD SUMMARY</u> SECTION 36/page.9 (PAGE 1996 OF MANUAL) BASED ON L/360 (DROPPED BEAM 1)

<u> EXTERIOR HEADER SIZED PER - 7/12 RAFTER COMP. LOAD SUMMARY</u> •• SECTION 36/page.31 (PAGE 2008 OF MANUAL) BASED ON L/360 (FOR THE FOLLOWING WINDOWS AND EXTERIOR DOORS: 3660 WINDOWS, TWIN 3060 WINDOW, 3036 WINDOW, 3068 FRONT DOOR, 3068 REAR DOOR IN UTILITY AND REAR

SIMPSON SDS25800 (SIMPSON 8" LAG SCREW) AT 32" O.C DATE & BY: 4-3-24 JH INSULATION BAFFLE- SITE INSTALLED BY PURCHASER CONTITUNOUS DOUBLE 2x AT FOLD-OVER (#2 SPF or EQUAL) DOUBLE 2x4 TOP PLATE (SPF STUD GRADE or EQUAL) 45 2x10 FLOOR JOISTS AT 16" O.C (#2 SYP or EQUAL) DOUBLE 2x10 GIRDER EACH SIDE (#2 SYP or EQUAL) 48 R-38 CLG. INSULATION FACTORY INSTALLED 50 7/16" OSB COMPRESSION STRIP (ENTIRE LENGTH OF LOAD BEARING WALL) 2x FIRESTOP INSTALLED BY PURCHASER (#2 SFP or EQUAL) JOB NO.: MS2-24
BLACKLINE DATE &
PLAN REVISION DA T 2024 N 19 of 38

RANCH CROSS SECTION

KINRO (SERIES 9750) LOW-E	EXTERIOR DOORS (SIZES)	
SHGC=0.29	ROUGH OPENING DESCRIPTION	
ACTUAL SIZE ROUGH OPENING 8% LIGHT (SQ.FT.) 4% VENT. (SQ.FT.)	PLAN SIZE WIDTH HEIGHT	
	CODE 3122 WIDTH HEIGHT 12 OF THE CONTROL 12 OF THE CONTROL 13 OF THE CONTROL 14 OF THE CONTROL 15 OF THE CONTROL 1	
PLAN CODE WIDTH HEIGHT WIDTH HEIGHT GL. FLR. OPEN AREA AREA AREA FLR. AREA		TRANSCALO
3036 29 1/2 35 1/2 30 3/4 37 5.55 69.38 2.64 66.00	3068 3'-0" 6'-8" 64 1/2" 82 1/2" PRE-HUNG W/ DOUBLE SIDELITE	TRANSOMS
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	
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		10-30-10TRAN 60TRAN
***4646 45 1/2 45 1/2 46 3/4 47 13.03 162.88 -	3068 3'-0" 6'-8" 38 1/2" 93" PRE-HUNG W/ TRANSOM	
*MIN EGRESS WINDOW @ GRADE LEVEL ****U FACTOR = 0.32 & SHGC = 0.35	3068 3'-0" 6'-8" 51 1/2" 93" PRE-HUNG SGL. SIDELITE W/ TRANS.	
** EGRESS WINDOW	3068 3'-0" 6'-8" 64 1/2" 93" PRE-HUNG DBL. SIDELITE W/ TRANS.	
	6068 6'-0" 6'-8" 75 1/2" 82 1/2" PRE-HUNG CENTER HINGED PATIO	
KINRO TRANSOMS (LOW-E & ARGON) (SQUARE & ELLIPTICAL)	6068 6'-0" 6'-8" 75 1/2" 82 1/2" DOUBLE DOORS (BOTH PANELS OPERABLE)	
SHGC=0.35 U FACTOR = 028 DP35 STD / DP 50 HWZ	OUTSWING UNITS: REDUCE R.O. HEIGHT 3/4"	
ACTUAL SIZE ROUGH OPENING 8% LIGHT (SQ.FT.)		
SINGLE SINGLE	THERMA TRU EXTERIOR DOORS (LIGHT/VENT & THERMAL VALUES)	
	DESCRIPTION	
	DOOR GLASS FLOOR U-VALUE SHGC VENT FLOOR	
2812 27 1/2 12 28 1/4 12 3/4 5.07 63.39	NUMBER AREA AREA AREA AREA	SIDELITES _
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 S206 5.06 63.25 0.22 0.09 19.810 495.25 1/2 LITE (NO MUNTINS)	
3612 35 1/2 12 36 1/4 12 3/4 6.60 82.44	S206	
4812 47 1/2 12 48 1/4 12 3/4 8.88 111.01	S118 9.15 114.38 0.29 0.16 19.810 495.25 FULL-LITE (NO MUNTINS)	
6012 59 1/2 12 60 1/4 12 3/4 11.17 139.58	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	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)	
	SIDELITES	
INTERIOR DOORS	S210SL 2.21 27.63 0.18 0.05 HALF-LITE (NO MUNTINS)	
ROUGH OPENING	S751SL 2.21 27.60 0.18 0.05 2/3 LITE (NO MUNTINS)	
PLAN CODE SIZE WIDTH HEIGHT DESCRIPTION	\$100\$L 2.59 32.38 0.19 0.05 - - FULL-LITE (NO MUNTINS)	
1668 1'-6" 6'-8" 20 1/2" 82 1/2" PRE-HUNG INTERIOR	S4812SL .74 9.25 0.22 0.06 CRAFTSMAN (2-LITE MUNTINS)	
2068 2'-0" 6'-8" 26 1/2" 82 1/2" 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	S1089SL 2.45 30.63 0.19 0.04 2/3 LITE (2-LITE MUNTINS)	
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'-6" 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	-	
2868 2'-8" 6'-8" 34 1/2" 94 1/2" PRE-HUNG INTERIOR W/ TRANSOM		S220 S206 S262 S80 S2106 S4814
3068 3'-0" 6'-8" 38 1/2" 94 1/2" PRE-HUNG INTERIOR W/ TRANSOM	APPROVED BY	
4068 4'-0" 6'-8" 50 1/2" 94 1/2" PRE-HUNG INTERIOR W/ TRANSOM	APPROVED BY EXTERIOR DOORS	
5068 5'-0" 6'-8" 62 1/2" 94 1/2" PRE-HUNG INTERIOR W/ TRANSOM	OLASS PATTENTS SHOWN ARE REPRESENTATIVE & NAT VIEW TO DESIGN ENTRESENTATIVE AND THE TO DESIGN THE TO DE	
6068 6'-0" 6'-8" 74 1/2" 94 1/2" PRE-HUNG INTERIOR W/ TRANSOM	4/18/2024 ERITED DOOR WANFACURES 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 document authorize or	
3068 3'-0" 6'-8" 38 1/2" 82 1/2" PRE-HUNG INTERIOR BIFOLD	Approval of this document does not authorize or approve any deviation or deviations from the	
4068 4'-0" 6'-8" 50 1/2" 82 1/2" PRE-HUNG INTERIOR BIFOLD	requirements of applicable State Laws. David Barts	

S118

S1209

#214

5068

1680

2080

2480

2680

2880

3080

 \mathbb{H}

5'-0"

1'-6"

2'-0"

2'-4"

2'-6"

2'-8"

3'-0"

6'-8"

8'-0"

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8'-0"

20 1/2"

26 1/2"

30 1/2"

32 1/2"

34 1/2"

38 1/2"

62 1/2" | 82 1/2"

98 1/2"

98 1/2"

98 1/2"

98 1/2"

98 1/2"

98 1/2"

PRE-HUNG INTERIOR BIFOLD

PRE-HUNG INTERIOR

PRE-HUNG INTERIOR

PRE-HUNG INTERIOR

PRE-HUNG INTERIOR

PRE-HUNG INTERIOR

PRE-HUNG INTERIOR

David Barts

#215

PLAN NAME: Heartland II
COLLECTION/SERIES: Heartland
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NATIONWIDE

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NOTE: ONLY ONE HOUSE
MAY BE BUILT UTILZING
THE PLANS THAT ARE
DESIGNATED FOR THIS
CONTRACT JOB

20 of 38

Nationwide Custom Homes Inc.

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

Model Name and Contract No.: Heartland II #196799

Electrical Load Calculation	ons:
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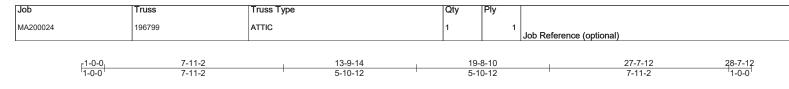
General Lighting Load: Small Appliance Load: (3 circuits) Laundry:		1,600 Sq. Ft. @ 3 volts-ampheres/ft2	=	4,800 4,500 1,500	watts watts
Net Load:			=	10,800	watts
Range:			=	8,640	watts
Microwave:			=	1,000	watts
Freezer:			=	1,800	watts
Dryer Load:			=	5,600	watts
Dishwasher:			=	1,032	watts
Water Heater: (4500 / 240 * 125%)			=	5,625	watts
Net Load:			=	34,497	watts
10000 watts @ 100%	34,497	24,497 @ 40%	= =	10,000 9,799	watts 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:	28,619	APPROVED BY	=	119	Amperes

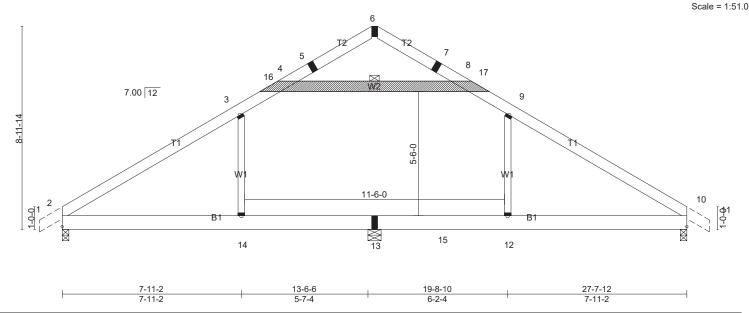
Approval of this document does not authorize or approve any deviation or deviations from the requirements of applicable State Laws.

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.

David Barts





LOADING (psf) 2-0-0 SPACING-CSI. **DEFL** (loc) I/defl I/d TCLL (roof) Plate Grip DOL 1.15 TC 0.73 Vert(LL) 0.67 10-12 >246 240 Snow (Pf/Pg) 15.4/20.0 ВС Lumber DOL 1.15 0.77 Vert(CT) 0.57 10-12 >285 180 **TCDL** 10.0 Rep Stress Incr YES WB 0.14 Horz(CT) 0.02 10 n/a n/a **BCLL** 0.0 Code IRC2018/TPI2014 Matrix-S Attic -0.29 13-14 487 360 BCDL 10.0

BRACING-

WEBS

TOP CHORD

BOT CHORD

Structural wood sheathing directly applied or 4-1-0 oc purlins.

NORTH Western

SEAL

037697

AN W BOR

Apr 12, 2024

minin

Rigid ceiling directly applied or 4-3-13 oc bracing.

1 Row at midpt

LUMBER-

TOP CHORD 2x6 SPF/SP No.2 2x8 SPF/SP No.2 **BOT CHORD**

2x4 SPF/SP No.2 *Except* W2: 2x6 SPF/SP No.2

REACTIONS. (lb/size) 2=959/0-3-8 (min. 0-1-11), 13=257/0-7-0 (min. 0-1-8), 10=959/0-3-8 (min. 0-1-10)

Max Horz 2=326(LC 15) Max Uplift 2=-474(LC 16), 13=-60(LC 16), 10=-685(LC 16) Max Grav 2=1069(LC 29), 13=714(LC 21), 10=1025(LC 6)

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

TOP CHORD 2-3=-1272/836, 3-16=-970/773, 4-16=-908/793, 7-8=-250/125, 8-17=-910/788,

9-17=-971/768, 9-10=-1273/803

BOT CHORD 2-14=-465/980, 13-14=-469/978, 13-15=-469/978, 12-15=-469/978, 10-12=-466/965

WEBS 4-8=-805/788, 3-14=-248/350, 9-12=-229/357

REQUIRED FIELD JOINT CONNECTIONS - Maximum Compression (lb)/ Maximum Tension (lb)/ Maximum Shear (lb)/ Maximum Moment (lb-in) 3=248/350/0/0, 4=805/788/37/0, 5=208/129/96/0, 6=145/145/99/0, 7=210/129/99/0, 8=805/788/37/0, 9=229/357/0/0, 12=229/357/0/0, 13=469/978/523/0, 14=248/350/0/0CAROLINA CAROLINA CAR

1) Unbalanced roof live loads have been considered for this design.

2) Wind: ASCE 7-16; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=28ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 13-9-8, Exterior(2R) 13-9-8 to 16-9-8, Interior(1) 16-9-8 to 28-7-12 zone; cantilever left and right exposed; end vertical left and right exposed; porch right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) TCLL: ASCE 7-16; Pr=16.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10

4) Unbalanced snow loads have been considered for this design.

5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.

6) All additional member connections shall be provided by others for forces as indicated.

7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

9) Ceiling dead load (5.0 psf) on member(s). 3-4, 8-9, 4-8

10) Bottom chord live load (40.0 psf) and additional bottom chord dead load (0.0 psf) applied only to room. 13-14, 12-13

11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 474 lb uplift at joint 2, 60 lb uplift at joint 13 and 685 lb uplift at joint 10.

12) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

13) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard



Standard Peak Connection

Compression = 145 Tension =

Option 1



Attach 2x4 SPF Stud to One Side, Below Ridge, Every Truss, with One Of The Following in Each End

0.131" x 3" Nails 3 0.148" x 3" Nails 2 0.162" x 3" Nails

Option 2



Attach Rail to Top Chord With One of the Following

2 0.131" x 3" Nails

A. 2 0.131" x 3" Nails R 2 0.148" x 3" Nails 2 0.162" x 3" Nails

Attach Rail to To Rail with One Of the Following in Each Truss Bay

1 0.148" x 3" Nails C. 1 0.162" x 3" Nails Strap Across Ridge With Simpson CS20 Strap and One Of the Following (total) A. 3 0 131" x 2-1/2" Nails В. 0.148" x 2-1/2" Nails

2

Collar Tie Connection

Compression = Tension = 788

805 lbs

A.

Attach Collar Tie to Top Chord with One Of the Following in Each End 0.131" x 3" Nails 0.148" x 3" Nails 0.162" x 3" Nails

Alternate Collar Tie Connection



0

Attach Collar Tie to Top Chord with Simpson H6

Use (2) 0.131" x 3" Nails Through the Rail and Into The End Grain Of the Collar Tie And Toe Nail Top Chord To Rail With (2) 0.131" x 3" Nails

Kneewall Connection

Compression = 248 lbs 357 Tension = lbs

Compression Top Chord



Option 1 - Block Attach Chord Block With One Of The Following

4 0.131" x 3" Nails A. 0.148" x 3" Nails В. 0.162" x 3" Nails 3 Attach Stud To Rail With (2) 0.131" x 3"

Nails (or Toe-Nails) Minimum Attach Rail to Top Chord, Bottom Chord or Block With (2) 0.131" x 3" Nails (or Toe-Nails)Minimum

Option 2 - No Block Attach Stud To Rail With (2) 0.131" x 3" Nails (or Toe-Nails) Minimum

Attach Rail to Top Chord, Bottom Chord or Block With (2) 0.131" x 3" Nails (or Toe-Nails)Minimum

Tension



Strap Stud to Top And Bottom Chord With

Option 1 CS20 Strap with One Of the Following (Total) A. 6 0.131" x 2-1/2" Nails B. 5 0.148" x 2-1/2" Nails

APPROVED BY

David Barts

4/18/2024

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requirements of applicable State Laws

Option 2 LTSA18 Strap With(total) A. 6 0.148" 2-1/2"

Option 3 H8 Twist Strap With Each End A. 3 0.148" 1-1/2"

Flip Rail Connections

Tension = Shear =

Shear Connection



Attach Rail to Top Chord With One of the Following

A. 0.131" x 3" Nails В. 2 0.148" x 3" Nails 0.162" x 3" Nails 2

Attach Rail to To Rail with One Of the Following in Each Truss Bay

2 0.131" x 3" Nails В. 1 0.148" x 3" Nails 0.162" x 3" Nails

Tension Connections



Lap 7/16" 24/16 APA OSB Across Flip Rail and Attach Each Truss Chord With

A. 2 0.131" x 3" Nails B. 2 0.148" x 3" Nails C. 2 0.162" x 3" Nails D. 3 7/16" x 1-1/2" x 16 Gage Staple

Heel Connection

Compression = 1273 lbs Tension = 980 lhs

H2.5T LTP4

No Gusset

NO Good OR 10 #8 x 3" Toe-Screws

Gusset Connection Minimum Gusset Width = 12"

Top Chord

(1) Ply 7/16" 24/16 APA OSB Both Sides Option 1 (1) 1/2" Bolt Plus One Of the Following

0.131" x 3" Nails 0.148" x 3" Nails 0.162" x 3" Nails 12 7/16" x 1-1/2" x 16 Gage Staple

Bottom Chord



(1) Ply 7/16" 24/16 APA OSB Both Sides

A. 17 0.131" x 3" Nails В. 14 0.148" x 3" Nails C. 12 0.162" x 3" Nails

7/16" x 1-1/2" x 16 Gage Staple 25

Marriage Line Connection



978 lbs Lap 23/32" 48/24 APA Sheathing Across Marriage Line - (2) Minimum Width) With One Of the Following Each End

A. 13 0.131" x 3" Nails B. 11 0.148" x 3" Nails 10 0.162" x 3" Nails C.

Strap Across Marriage Line With one Of The Following Each End Option 1 CS20 Strap with One Of the Following Each End

A. 16 0.131" x 2-1/2" Nails B. 14 0.148" x 2-1/2" Nails 0.148" x 2-1/2" Nails 14 Option 2 CS16 Strap with One Of the Following Each End A. 15 0.131" x 2-1/2" Nails 13 0.148" x 2-1/2" Nails

Top Chord to Top Chord

Tension = 0 Shear =



Top Chord to Rail and Rail to Top Chord With: A. 0 #8 x 3" Toe-Screws CS16 Strap with One Of the Following Each End A. 0 0.148" x 2-1/2" Nails B. 0 0.162" x 2-1/2" Nails

AND Simpson A35 On One Side 0.131" x 1-/12" Nails 0



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

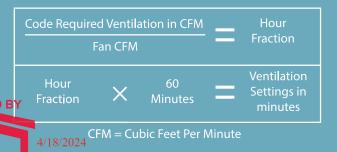
Light: 450 Watts @ 120 VAC (Blue Wire) Fan: 150 Watts @ 120 VAC (Red Wire) Operation: 120 VAC 60hz ± 10% (Red Wire) 2.5" Minimum wall box recommended





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/h

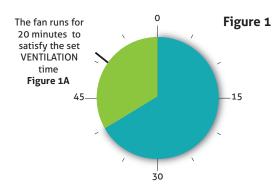


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David Barts The user wants to VENTILATE the bathroom for 20 minutes every hour with a 10 minute fan DELAY

Example

A Normal Hour of Operation with No Occupancy



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

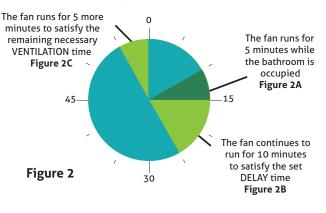


Figure 1

- 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

 The SmartExhaust™ will turn on 40 minutes into the hour and run for 20 minutes. (Figure 1A)

Figure 2

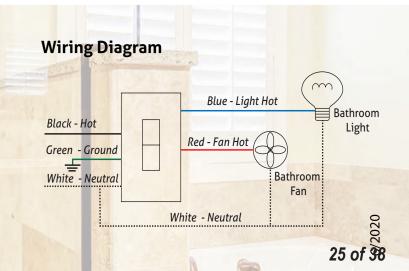
- The DELAY dial is set to 10 min/hour
- Someone uses the bathroom for 5 minutes and manually turns the SmartExhaust™ on. The microprocessor logs this 5 minutes of use. (Figure 2A)
- The occupant exits the bathroom, turning the switch off, and the SmartExhaust™ continues to run the fan for the 10 minutes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

W

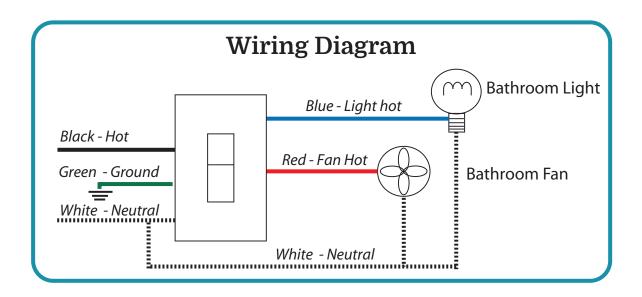
- 1. Do not connect this device to aluminum wire.
- 2. Use with copper or copper clad wire only.
- 3. TURN POWER OFF at circuit breaker or fuse panel.
- 4. Remove cover plate and existing switch from wall box if there is one already installed.
- 5. Connect the wires in the wall box using the supplied 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.



m

^{*}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

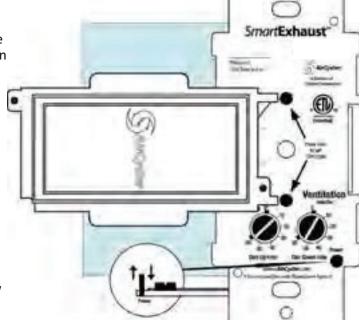
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Adjustable Dim up/Dim down rates:

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.



Night light function: (incandescent lights only)

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?

W

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.
- 6. 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).

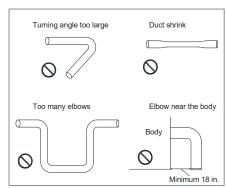
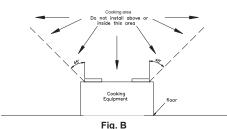


Fig. A

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

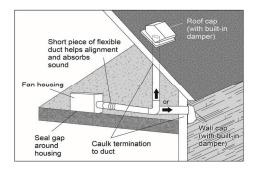
Part name	Appearance	Quantity
Grille		1
Fan & Housing		1
4" Duct	8	1
Screw (M4x12)	Dames	3

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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

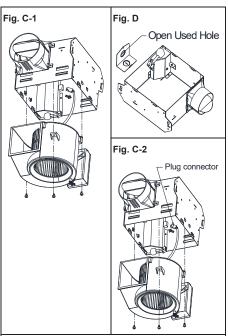
Model No.	ITG100ELED
Install Dim. (Inch)	7-1/2 x 7-1/4

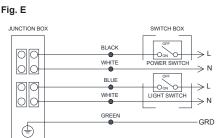
- Remove motor plate from housing by removing three screws. (Fig. C-1)
- Remove wiring cover from housing by pulling straight out. Choose a hole and use a slotted screwdriver to remove it. (Fig. D)
- Follow all local electrical and safety codes. NEVER place a switch where it can be reached from a tub 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.

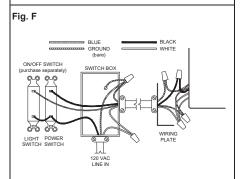


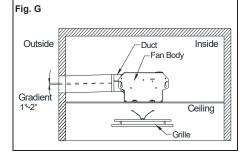
Push grille up against ceiling. When the power on, check for abnormal vibration or sound. (Fig. K)

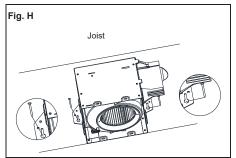
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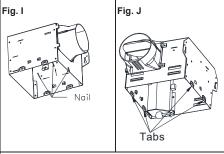


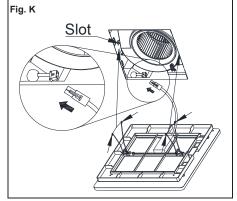












OPERATION

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.
- Do not soak resin parts in water over 140 °F (60℃).

CLEANING:

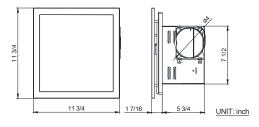
- Pull down the spring to remove the grille.
- Wash and clean the grille. (Use non-abrasive kitchen detergent and wipe dry with a new
- Remove dust and dirt from the ventilating fan using a vacuum cleaner.
- Using a cloth dampened with kitchen detergent, remove any dirt from the ventilating fan. Wipe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

SPECIFICATIONS

Model No.	Volt/Hz	Air Flow @0.1"SP (CFM)		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



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



MAIR 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

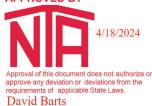
Accessories



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



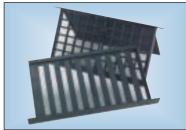
HEAVY-DUTY SLIDER MODEL: 303

- 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)

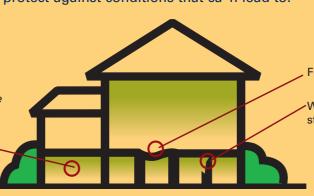
- 7" x 12" vent for 6" x 11" opening
- NFA 23"
- Colors: black, brown, gray

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





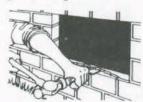
©2004 Air Vent, Inc. RAV065-6/04

AUTOMATIC VENT INSTALLATION INSTRUCTIONS

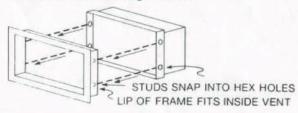
SERIES-5 2-PIECE VENT WITH REMOVABLE FRAME

 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.

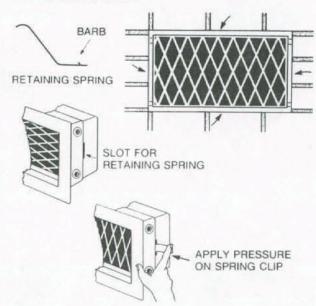




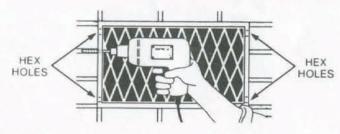
Remove frame from vent by pulling up or by inserting blade between frame and vent on outside and twisting. Be careful not to damage screen.



 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.

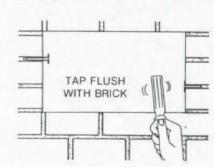


NOTE:

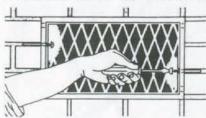
The most important part of the installation is to hold the vent TIGHTLY against the wall while the two holes are drilled. The vent must not be moved between drilling the first and second holes. Some installers insert a screw in the first hole to hold the vent steady while drilling the second.



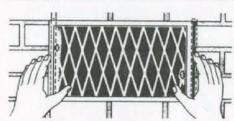
Be sure to drill the hole in the mortar joint deep enough the first time. Redrilling may make the hole too big for the anchor.



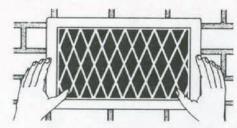
 Remove the vent from the wall temporarily. Blow loose material out of the holes and insert the screw anchors.
 Tap the anchors all the way flush with the brick using a screw driver handle. 6. Mount vent using screws supplied. Turn screw until head is just flush with frame. Do not use excess pressure. 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.

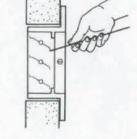


8. Replace the frame.



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

NORTH CAROLINA MODULAR PLANS REVIEW CHECKLIST

Page 1 of 3

Revised June 2018

Model Number/Name: Heartland II #196799	
3rd Party: NTA, Inc.	
Review Date: 4/18/2024	
Reviewer: David Barts	
	Plan Sheet Page No. and Notes
QC MANUAL (Current and Complete)	Yes
Appendix B (Required and Attached)	N/A
PLAN SHEETS	
Each plan sheet third-party stamped with approver's name	YES
Each plan sheet is numbered and/or indexed	YES
GENERAL (Cover Sheet)	
Code Reference	COVER SHEET - PAGE-1
Statement regarding connection to public utilities	COVER SHEET - PAGE-1
Statement regarding bathrooms if not included	COVER SHEET - PAGE-1
Construction type	COVER SHEET - PAGE-1
Occupancy classification	COVER SHEET - PAGE-1
Fire resistance ratings (if required)	COVER SHEET - PAGE-1
Floor live load	COVER SHEET - PAGE-1
Roof live load	COVER SHEET - PAGE-1
Design wind velocity	COVER SHEET - PAGE-1
Seismic information (commercial projects)	N/A
Thermal zones	COVER SHEET - PAGE-1
Notice to inspections department regarding items to be site inspected	COVER SHEET - PAGE-1
FLOOR PLANS	
Interior and exterior wall layouts	FLOOR PLAN - PAGE-3
Door and window schedule	DOOR & WINDOW SCHEDULE - PAGE-20
Light and ventilation requirements	FLOOR PLAN - PAGE-3
Attic access (size and location)	FLOOR PLAN - PAGE-3
Non-prescriptive headers	N/A
Safety glazing requirements	FLOOR PLAN - PAGE-3
Fire rating of Exterior walls (if applicable)	N/A
EXTERIOR ELEVATIONS	
Exterior materials	ELEVATION & SECTION -PAGE 6 & 19
Attic Ventilation requirements	ELEVATION - PAGE-6
PLUMBING	
Plan	FLOOR PLAN - PAGE-3
All fixtures furnished by manufacturing shown on plans	FLOOR PLAN - PAGE-3
Materials (water supply & distribution, DWV, storm drainage)	DWV PLAN - PAGE-10,11 & 12
Supply and waste risers	DWV PLAN - PAGE-10,11 & 12
Water heater (type and capacity) Electric 50 Gallon	RISER DIAGRAM - PAGE-11 & 12

NORTH CAROLINA MODULAR PLANS REVIEW CHECKLIST

Page 2 of 3

Revised June 2018

MECHANICAL	
Design calculations	N/A
Installed unit capacity	N/A
Supply and returns (locations and sizes)	N/A
Duct sizes	N/A
Specifications (units, ducts)	N/A
All appliances furnished by mfg. shown on plans	FLOOR PLAN - PAGE- 3
ELECTRICAL	
Plan	ELECTRICAL PLAN - PAGE-8
Location of all electrical boxes	ELECTRICAL PLAN - PAGE-8
Electrical panel location	FLOOR PLAN & ELEC PAGE 3 & 8
Note regarding main disconnect (if applicable)	FLOOR PLAN & ELEC PAGE 3 & 8
Exterior lighting and receptacles	ELECTRICAL PLAN - PAGE-8
Ground level receptacles (if applicable)	FOUNDATION - PAGE-2
Smoke detector location(s)	ELECTRICAL PLAN - PAGE-8
Electical load calculations	ELECTRICAL FLAN - FAGE-0 ELECTRICAL CALCULATIONS - PAGE-21
Electrical panel layout (breaker and wire sizes, circuit schedules)	ELECTRICAL CALCULATIONS - FAGE-21 ELECTRICAL PLAN - PAGE-8
Panel and service entrance sizes	ELECTRICAL PLAN - PAGE-8
All fixtures furnished by mfg. shown on plans	ELECTRICAL PLAN - PAGE-8
All fixtures furnished by fing, shown on plans	ELECTRICAL FLAN - FAGE-0
ACCESSIBILITY (for other than 1 & 2 family dwelling)	
Entrances and means of egress	N/A
Doors, doorways, and door hardware	N/A
Stairs and handrails	N/A
Toilet rooms, plumbing fixtures, grab bars, etc.	N/A
Bathrooms and shower rooms	N/A
Occupancy specific requirements	N/A
Multi-family dwellings: Type A and B units	N/A
FLOOR X-SECTION	
Joists and beam sizes and spacing	SECTION - PAGE-19
Materials species and grade	SECTION - PAGE-19
Sheathing, decking, and concrete as applicable	SECTION - PAGE-19
Fastening instructions	SECTION - PAGE-19
Insulation	SECTION - PAGE-19
Details as required for clarification	SECTION - PAGE-19
WALL V SECTION	
WALL X-SECTION Stud and column sizes and spacing	SECTION - PAGE-19
Stud and column sizes and spacing Materials species and grade	SECTION - PAGE-19 SECTION - PAGE-19
	SECTION - PAGE-19 SECTION - PAGE-19
Sheathing and bracing Headers and lintels	
Finishes	SECTION - PAGE-19 SECTION - PAGE-19
Fastening instructions	SECTION - PAGE-19 SECTION - PAGE-19
Insulation	SECTION - PAGE-19 SECTION - PAGE-19
Details as required for clarification	DETAIL PAGES: 4, 5, 13, 14, 15, 16, 17 & 18
•	37 of 38

NORTH CAROLINA MODULAR PLANS REVIEW CHECKLIST

Page 3 of 3

Revised June 2018

	I
CEILING / ROOF X-SECTION	
Truss, rafter, and beam spacing	SECTION - PAGE-19
Lumber species and grade	SECTION - PAGE-19
Sheathing and decking	SECTION - PAGE-19
Finishes	SECTION - PAGE-19
Fastening instructions	SECTION - PAGE-19
Insulation	SECTION - PAGE-19
Details including NC sealed truss designs or manual reference	SEE PAGES #22-23 for Truss Calculations
beams merading ive seared trass designs of mandar reference	SELITIOLS WEE 25 TOT THUS CUITCHICH
FOUNDATION PLAN	
Footings, pier, and curtain wall locations and specifications	FOUNDATION - PAGE-2
X-sections with dimensions	FOUNDATION, SECTION - PAGE-2 & 19
Anchorage - sill plate to piers and curtain wall	COVER SHEET - PAGE-1
Anchorage - building to sill plate	FOUNDATION, SECTION - PAGE-2 & 19
Anchorage - tie downs (lateral and logitudinal)	FOUNDATION, SECTION - PAGE-2 & 19
Soil bearing capacity	COVER SHEET - PAGE-1
Minimum concrete compressive strength	FOUNDATION - PAGE-2
Mortar type	COVER SHEET - PAGE-1
Ventilation requirements (with and without vapor barrier)	FOUNDATION - PAGE-2
Crawl space access requirements	FOUNDATION - PAGE-2
ENERGY COMPLIANCE	
Demonstrated compliance	PRESCRIPTIVE PER CODE
•	
SET-UP INSTRUCTIONS	
Floor and ceiling connections	PAGE 4 (OPERATIONS MANUAL)
Marriage wall connections	PAGE 4 (OPERATIONS MANUAL)
Roof set-up and connection	PAGE 6 (OPERATIONS MANUAL)
Plumbing connections	PAGE 33 (OPERATIONS MANUAL)
Mechanical connnections	PAGE 34 (OPERATIONS MANUAL)
Electrical connections	PAGE 33 (OPERATIONS MANUAL)
Fire stopping	PAGE 4 (OPERATIONS MANUAL)
Air infiltration elimination	PAGE 4 (OPERATIONS MANUAL)
Notice to inspections department attachments if set-up instructions	
are by attachment	COVER SHEET - PAGE-1
ITEMS NOT INSPECTED BY PLANT	
List of items not inspected by 3rd. Party	COVER SHEET - PAGE-1
Notice to inspections department	COVER SHEET - PAGE-1



April 18, 2024

Mr. Shane Phelps NC Dept. of Insurance Manufactured Building Division 1202 Mail Service Center Raleigh, NC 27699-1202 (919) 661 – 5880

Re: Nationwide Custom Homes

Model 196799-NC

Mr. Phelps:

Enclosed please find one (1) copy of each of the above-mentioned projects for your review. These projects have been reviewed by NTA and found to be in compliance with the North Carolina State requirements.

Should you have any questions or comments, please contact me at your earliest convenience.

Sincerely,

David J. Barts

David J. Barts Account Manager ICC-NTA LLC