

March 7, 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 196763-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,

Kip Whitehead

Kip Whitehead Account Manager ICC-NTA LLC

DESIGN INFORMATION USE GROUP R-3TYPE VB CONSTRUCTION FLOOR LOAD(S) 40/10 1st ROOF LOAD 30/10 (ATTIC LIVE LOAD: 20 LBS.) GROUND SNOW LOAD 20 WIND LOAD 150 mph Vult / 116 mph $Vasd^{(1)(2)(3)(4)}$ SEISMIC DESIGN С С **EXPOSURE** 3a CLIMATE ZONE MAXIMUM DESIGNED MEAN ROOF HEIGHT 18'-0"

FOOTNOTES:

- IF 115VuIt/89Vasd MPH STRUCTURE MUST BE LOCATED AT AN ELEVATION OF LESS THAN 2,700 FEET IN MOUNTAIN REGIONS.
- IF 120Vuit/93Vosd MPH STRUCTURE MUST BE LOCATED AT AN ELEVATION OF 2,700 TO LESS THAN 3,000 FEET IN MOUNTAIN REGIONS.
- IF 130Vuit/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
- 150vuit/116Vasd MPH STRUCTURE MUST BE LOCATED AT AN ELEVATION OF 4,500 FEET OR GREATER IN MOUNTAIN REGIONS

WIND 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

NOTICE:

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: CLARA "C" MODEL HOME **

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.
- 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:

- 1. 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.
- . 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 ELECTRICAL, PLUMBING & MECHANICAL INSTALLATION WITHIN THE BASEMENT ARE THE RESPONSIBILITY OF THE PURCHASER & SUBJECT TO APPROVAL & INSPECTION BY THE LOCAL JURISDICTION.

UNIT FASTENING REQUIREMENTS:

AREAS W/ WIND ZONE 150 mph Vult / 116 mph Vasd (3-SEC. GUST):

- 1. PURCHASER RESPONSIBLE TO SUPPLY & INSTALL ALL FOUNDATION TO UNIT, PILING TO UNIT & UNIT TO UNIT WITH TIE DOWN STRAPS.
- 2. 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.
- 3. ALL FOUNDATION PLANS ARE SUGGESTIVE ONLY & MUST BE CONST. IN ACCORDANCE WITH STATE & LOCAL CODE REQUIREMENTS.
- 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.

TYPICAL PLUMBING NOTES

- 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 CÓMBINATION VALVES SHALL BE EQUIPPED WITH CONTROL VALVES OF THE PRESSURE—BALANCE, THERMOSTATIC—MIXING OR COMBINATION
 PRESSURE—BALANCE/THERMOSTATIC—MIXING VALVE TYPES WITH A HIGH LIMIT STOP IN ACCORDANCE WITH ASSE 1016/ASME A112.1016/CSA B125.16. THE HIGH LIMIT STOP
 SHALL BE SET TO LIMIT THE WATER TEMPERATURE TO NOT GREATER THAN 120°F.
- TEMPERATURE—ACTUATED MIXING VALVES, WHICH ARE INSTALLED TO REDUCE WATER TEMPERATURES TO DEFINED LIMITS, SHALL COMPLY WITH ASSE 1017. SUCH VALVES
 SHALL BE INSTALLED AT THE HOT WATER SOURCE.
- TEMPERATURE—ACTUATED, FLOW-REDUCTION DEVICES, WHERE INSTALLED FOR INDIVIDUAL FIXTURE FITTINGS, SHALL CONFORM TO ASSE 1062, SUCH VALVES SHALL NOT BE USED AS A SUBSTITUTE FOR THE BALANCED PRESSURE, THERMOSTATIC OR COMBINATION SHOWER VALVES REQUIRED FOR SHOWERS IN SECTION P2708.4.
- NOTES FOR WATER HAMMER ARRESTORS "WATER HAMMER ARRESTORS CONFORMING TO ASSE 1010 AND INSTALLED PER MANUFACTURERS INSTRUCTIONS" AND "NOT
 REQUIRED FOR PLASTIC WATER DISTRIBUTION 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.

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

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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, PIERS, 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 <u>200</u>
 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
Ī	LOCATION		SPAN RATIN
	FLOOR	- 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 radwait barrier)	24/16 24/16

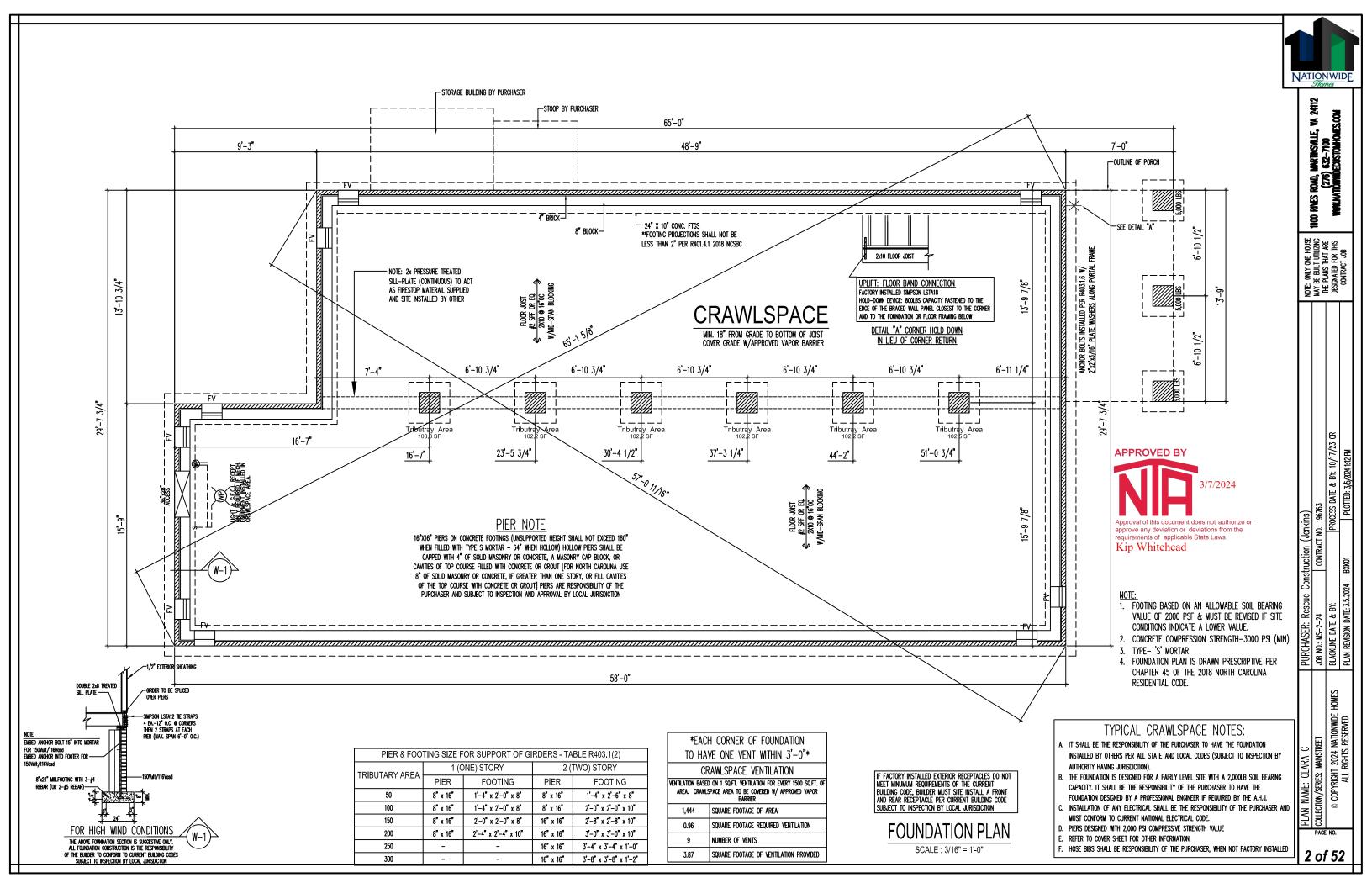
	VAPOR BARRIER									
	LOCATION	R-VALUE	PAPER							
	FLOOR	R-19 R-30	KRAFT-FACED KRAFT-FACED							
	WALL	R-13 R-15 R-19 R-21	KRAFT-FACED KRAFT-FACED KRAFT-FACED KRAFT-FACED							
	ROOF	R-30 R-38	KRAFT-FACED KRAFT-FACED							
)										

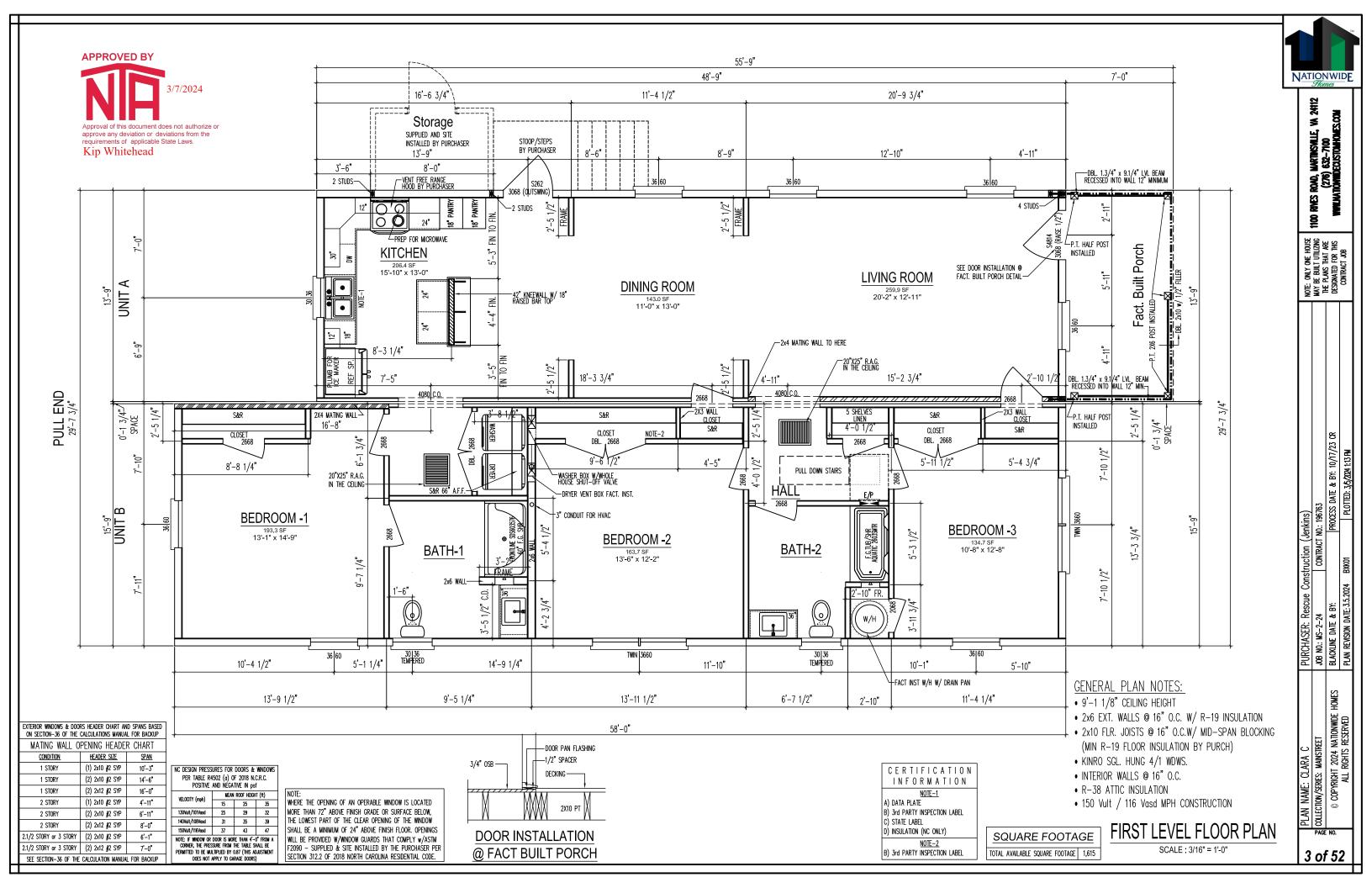
TYPICAL ELECTRICAL NOTES

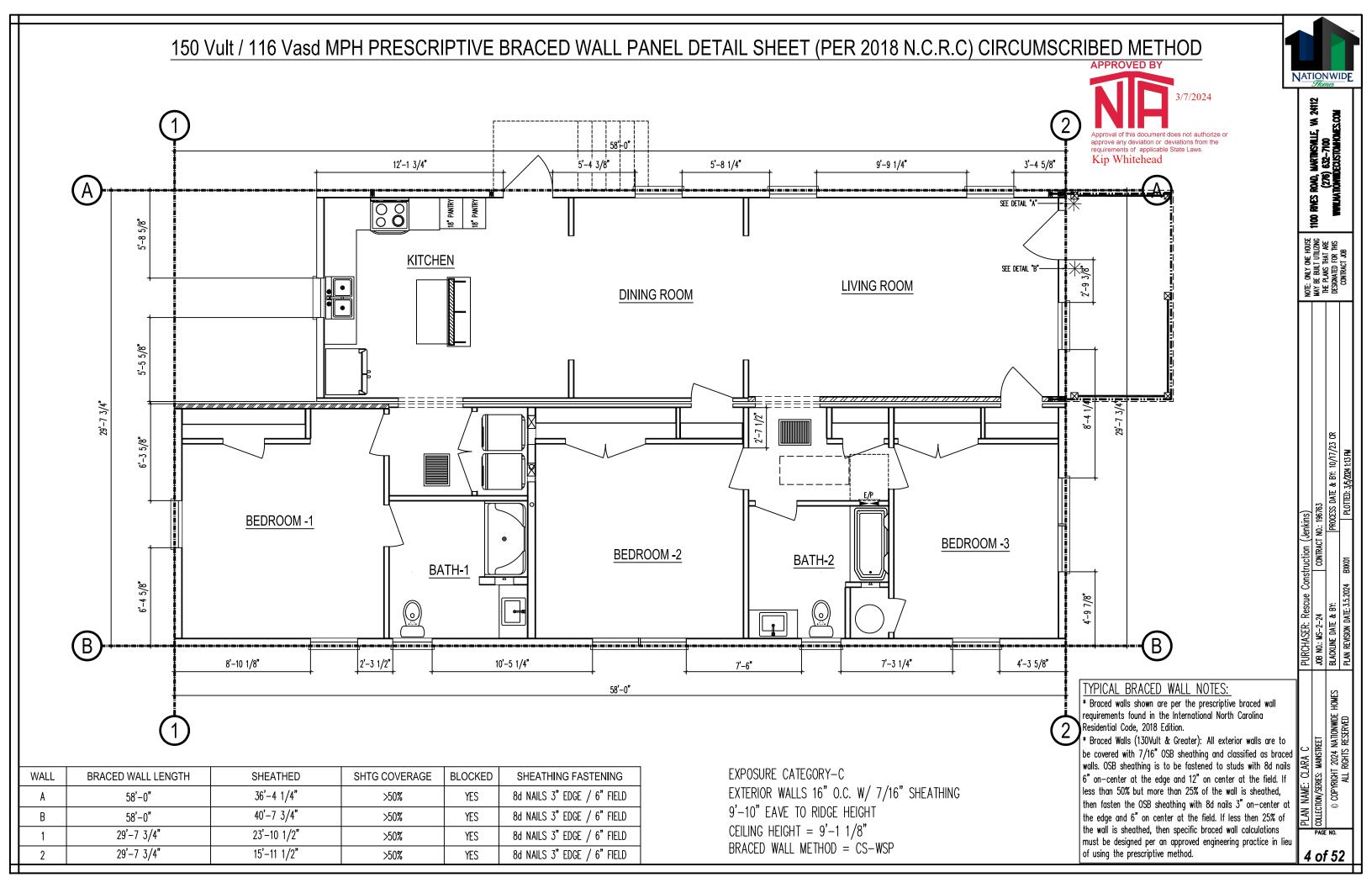
- ALL BRANCH CIRCUITS SUPPLYING 15 & 20 AMPERE OUTLETS IN KITCHENS, FAMILY ROOMS, DINING ROOMS, LIVING ROOMS, PARLORS, LIBRARIES, DENS, BEDROOMS, SUNROOMS, RECREATION ROOMS, CLOSETS, HALLWAYS, LAUNDRY AREAS, OR ANY SIMILAR ROOMS OR AREAS, SHALL BE PROTECTED BY AN ARC-FAULT CIRCUIT INTERRUPTER PER SECTION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

NOTE:

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 LOCAL JURISDICTION.











-INSTALL SIMPSON LSTA18 STRAP W/(6) 10d NAILS EACH END AT DOOR FULL STUD TO CEILING RIM JOISTS FOR A MINIMUM HOLD DOWN CAPACTLY OF 800 lbs

CEILING RIM

TOP PLATES

DBL

BOTTOM PLATE

REFER TO WALL FRAMING FOR HEADER

SEE FLOOR PLAN FOR

DOOR/WD SIZE

TRIPLE STUDS

FOR ENDWALL CONNECTION

2x10 FLOOR RIM

∠INSTALL SIMPSON LSTA 18 STRAP W/(6)

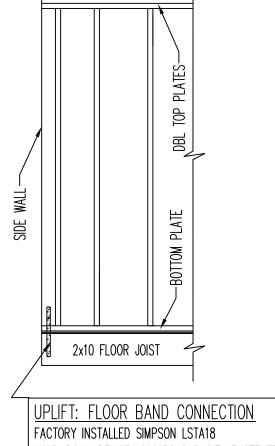
HOLD DOWN CAPACITY OF 800 lbs

DETAIL "B" CORNER HOLD DOWN

IN LIEU OF CORNER RETURN

10d NALS EACH END AT DOOR FULL STUD TO FLOOR RIM JOIST FOR A MINIMUM

5 of 52



CEILING RIM

DETAI<u>L "A" CORNER HOLD DOWN</u>

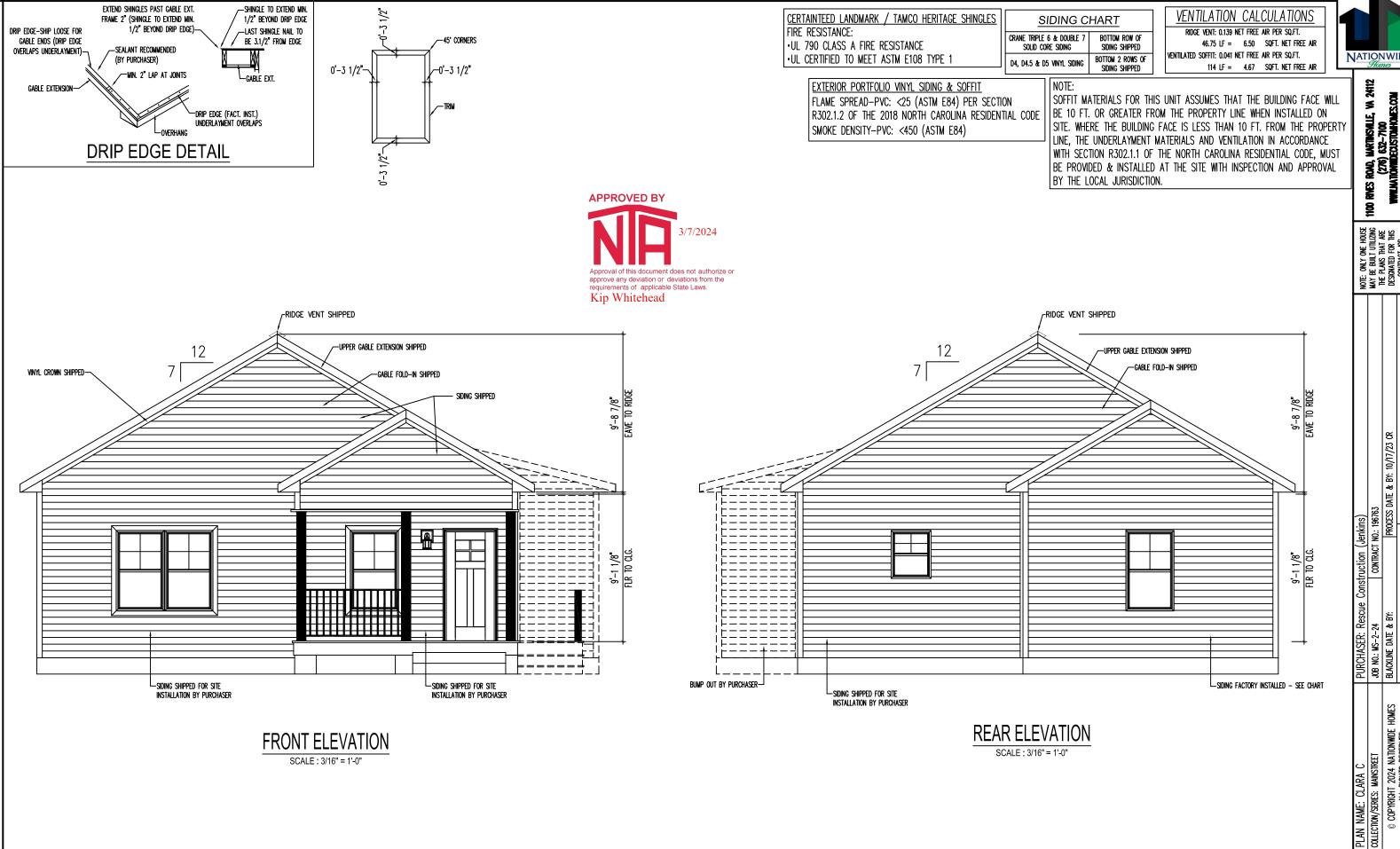
HOLD-DOWN DEVICE: 800LBS CAPACITY FASTENED TO THE EDGE OF THE BRACED WALL PANEL CLOSEST TO THE CORNER AND TO THE FOUNDATION OR FLOOR FRAMING BELOW

IN LIEU OF CORNER RETURN

150 Vult / 116 Vasd MPH PRESCRIPTIVE BRACED WALL PANEL DETAIL SHEET (PER 2018 N.C.R.C) CIRCUMSCRIBED METHOD

APPROVED BY

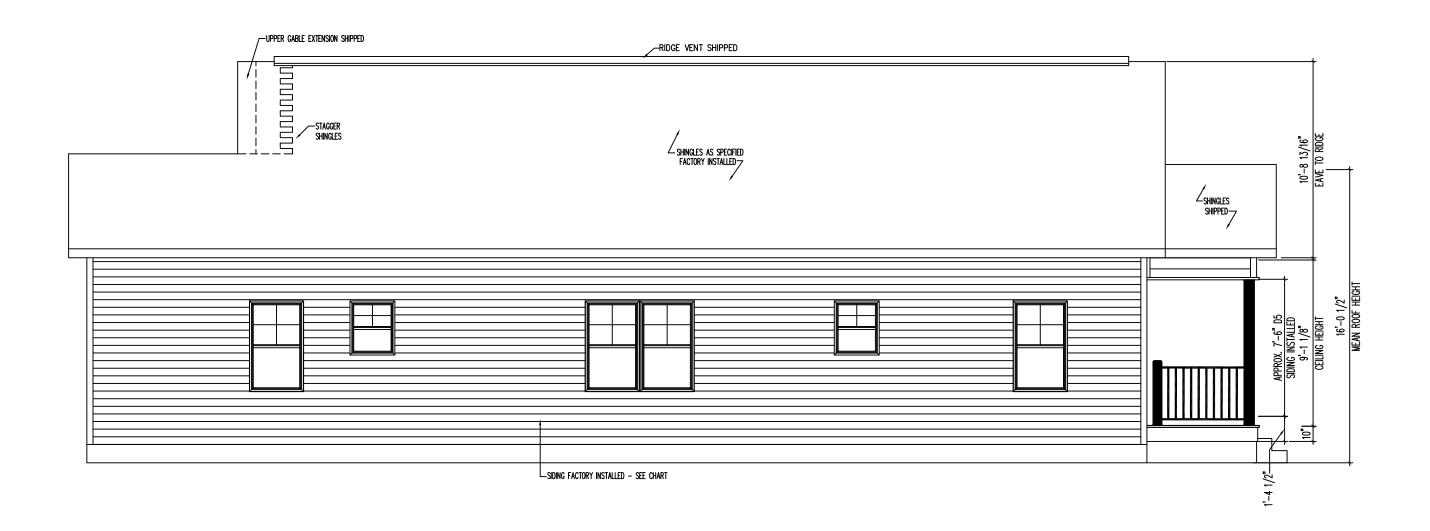
Kip Whitehead



NATIONWIDE









ONE HOUSE
1100 RIVES ROAD, MARTINSMILE, VA 24112
11 VITILING
11 NAT ARE
11 ONE HAS
11 ONE HAS
12 ONE HAS
13 ONE HAS
14 ONE HAS
15 ONE HAS
16 ONE HAS
17 ONE HAS
18 ON

 PURCHASER: Rescue Construction (Jenkins)
 Note:

 JOB NO.: MS-2-24
 CONTRACT NO.: 196763

 BLACKLINE DATE & BY:
 PROCESS DATE & BY: 10/17/23 CR

 PLAN REVISION DATE: 3.5.2024
 BXX01

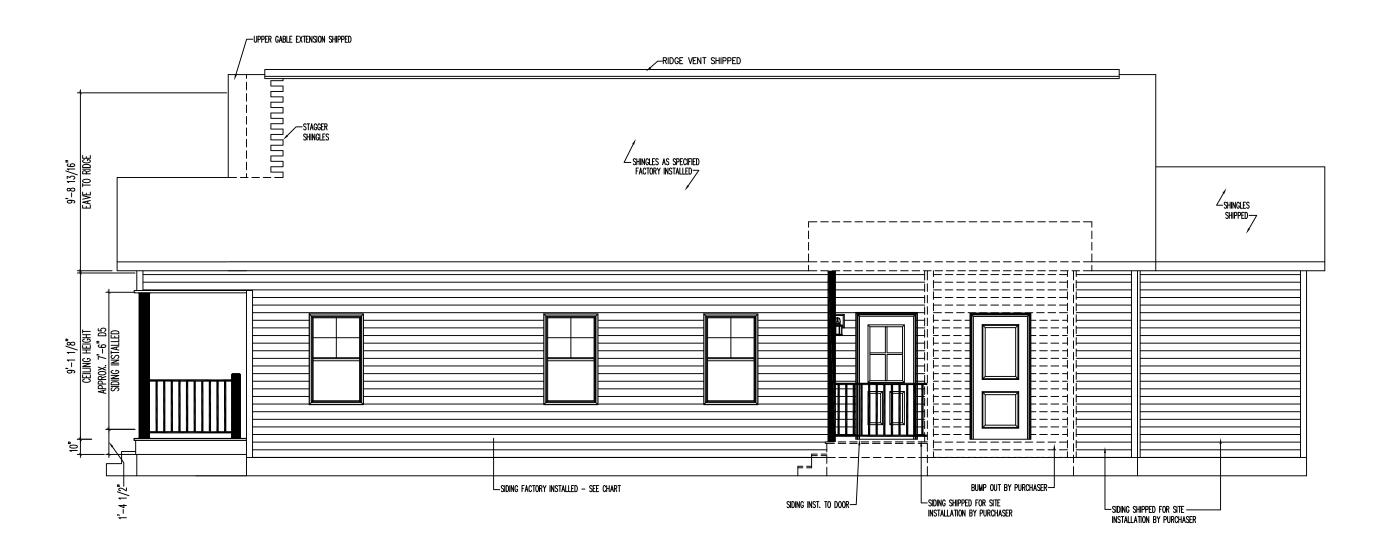
PLAN NAME: CLARA C
PURCHASER: Rescue Construction (Jer Job No. MS-2-24 CONTRACT NO SERIES: MAINSTRET JOB NO. MS-2-24 CONTRACT NO SERIES AND SERIES MAINSTREET JOB NO. MS-2-24 CONTRACT NO SERIES NATIONALE HOMES BLACKLINE DATE & BY:

ALL RIGHTS RESERVED PLAN REVISION DATE: 3.5.2024 BXK01

PAGE NO.







RIGHT ELEVATION

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

HOUSE 1100 RIVES ROAD, MARTINSMILE, VA 24112

ARE (276) 632-7100

WWILNATIONIDECUSTOMHOMES.COM

 PURCHASER: Rescue Construction (Jenkins)

 JOB NO.: MS-2-24
 CONTRACT NO.: 196763

 BLACKLINE DATE & BY:
 PROCESS DATE & BY: 10/17/23 CR

 PLOTED: 3/5/2024 BXK01
 PLOTED: 3/5/2024 1:5 PM

PLAN NAME: CLARA C
COLECTION/SERIES: MAINSTREET
COLECTION/SERIES: MAINSTREET
COLECTION/SERIES: MAINSTREET
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BLACKLINE DATE.
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PLAN REVISION DI

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.

- All wiring to be per National Electric Code (Current Edition).
 Unless other wise specified, mount recept. 14" from subfloor to bottom of boxes, switches 48.1/2", Thermostat 60"
- AC/DC smoke detectors wired for simultaneous operation

APPROVED BY

Kip Whitehead

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

- - otherwise specified. Lock-Out clip on water heater & dishwasher

-W/P GFCI

KITCHEN

BATH-1

22

BACKSPLASH

GFCI-

SD.

- Lock—Out clip on water heater & dishwasher.

 Switches & Recept, in bathrooms and dressing rooms over lavinettes to be 46" up.

 Switches and recepts, over counter to be 46" up unless otherwise specified.

 All electrical boxes on exterior walls to be sealed with foam to eliminate air infiltration.

 Batt insulation glued to attic access cover.

 Insulation shipped for site installation by Purchaser, to be installed in gaps at mating wall seams, and at floor & ceiling areas.

®

-14" A.F.F.

-(B)

CMD/Sol (

GFCI—

6,8

- 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

 \Box

4

SD

BATH-2

FΛ

DINING ROOM

jack and 2X4 box with 3/4" conduit below subfloor.
Tamper Resistant Receptacles

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

₩	Duplex Receptacle	\$	Single pole switch	SIRP.	Carbon Monoxide Det.
•	Weatherproof duplex	55.	Three-way switch	^{CMD} ∕56	Carb.Mon./Sm.Det. Combo
9	240v Receptacle	Ś	Four-way switch	\mathbb{X}	Wire & Brace (Fan optional)
	Quad Receptacle	7	Television outlet	₽	Exterior Light
ф	Overhead light	Δ	Telephone outlet	Ð	Push button for chime
9	LED Recessed / Weatherproof light	*	Wall Light / Sconce	4	Flood Light
M	Fluorescent light	Θ	Thermostat	DC	Wireless Door Chime
(ZA	Light/Clg. Exh. fan (50 CFM Min)	×	Heat/Fan/Light		4 x 10 Registers

Toe-Kick Registers

Clg. Exh. fan (50 CFM Min)

-WIRE & BRACE FOR FAN W/2 SWITCHES

BEDROOM -3

LIVING ROOM

--PULL WIRE FOR T-STAT 60" UP TO ATTIC

CMD_{SD} 13

-WIRE & BRACE FOR



1100 RIVES ROAD, MARTHESMILE, VA 24112 (276) 632—7100 WWILMATTOWINDEQUSTOMHOMES.COM

*ELECTRICAL DEVICES HAVE BEEN LOCATED PER PURCHASER REQUEST

BEDROOM -1

WIRE & BRACE FOR FAN W/2 SWITCHES-

MECHANICAL VENTILATION PER TABLE M1507.3.3(1) **VENTILATION** CODE REQUIRED VENTILATION IN CFM HOUR FRACTION SETTINGS IN FAN CFM (BASED ON # OF BEDROOMS) MINUTES/HOUR 60 100 0.6000 36.00

AirCycle WHOLE HOUSE

EXHAUST FAN SWITCH

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 THE MASTER BATHROOM

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 IN PERSECTION 210.12, 2017 NEC ELECTRICAL CODE.

BEDROOM -2

WIRE & BRACE FOR FAN W/2 SWITCHES—

NOTE: ALL WIRES IN ATTIC INST. BESIDE OR THRU JOISTS OR PROTECTED BY GUARD STRAPS

IF FACTORY INSTALLED EXTERIOR RECEPTACLES DO NOT MEET
MINUMUM REQUIREMENTS OF THE CURRENT BUILDING CODE, BUILDER MUST SITE INSTALL A FRONT AND REAR RECEPTACLE PER CURRENT BUILDING CODE SUBJECT TO INSPECTION 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.

FIRST LEVEL ELECTRICAL PLAN

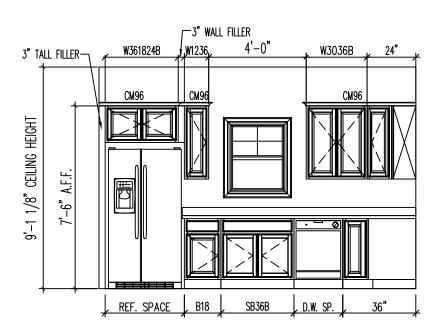
SITE SUBJECT TO INSPECTION AND

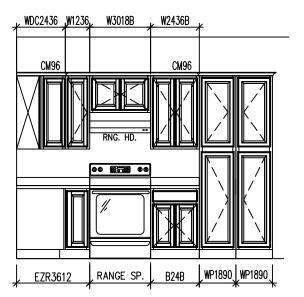
APPROVAL BY LOCAL JURISDICTION

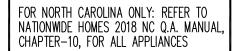
HVAC SYSTEM DESIGNED, ENGINEERED, AND SITE INSTALLED BY HVAC CONTRACTOR. ALL DUCTWORK, AIR HANDLER, A-COIL, FLOOR OR CEILING REGISTERS SUPPLIED & SITE INSTALLED BY THE HVAC CONTRACTOR ON

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

JOB NO.: MS-2-24
BLACKLINE DATE & B
PLAN REVISION DATE:







-COUNTER TOP SUPPORT BRACKETS

-2X4 KNEEWALL 42" HIGH W/ GYP. FINISH

24"

B24B

B24B

- 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.

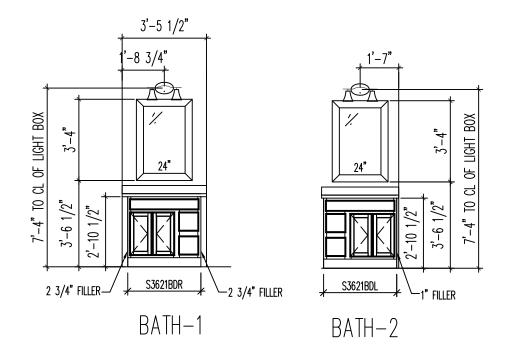


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MATCHING TOE KICK COVERS





BATHROOM CABINETS

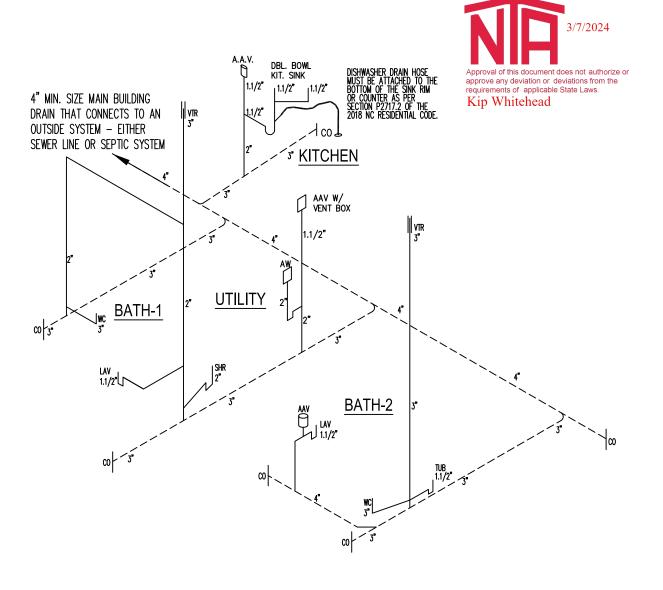
MATCHING TOE KICK COVERS

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



PLUMBING SCHEMATIC

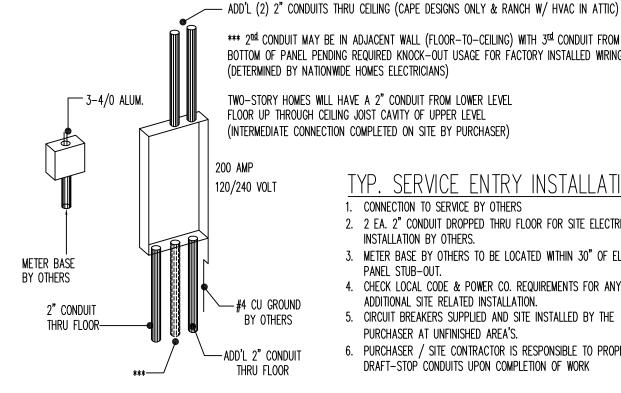
APPROVED BY

PANEL SCHEDULE

* LOCKOUT BREAKER INSTALLED ON WATER HEATER & DISHWASHER



AMP	WIRE SIZE			WIRE SIZE	AMP						
20	12/2	AFCI	GENERAL WIRING	1		2	SMALL APPLIANCE	AFCI	12/2	20	1
20	12/2	AFCI	GENERAL WIRING	3		4	SMALL APPLIANCE	AFCI	12/2	20	
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	2401/	* WATER HEATER	9		10	RANGE	2401/	8/3 CU	40	
25	10/2	240V	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	NOTE: ONLY ONE HOUSE
				17		18	BATH-1 RECEPT		12/2	20	
				19		20	BATH-2 RECEPT		12/2	20	N
				21		22	MICROWAVE	AFCI	12/2	20	ř
				23		24					1
				25		26					1
				27		28					1
				29		30					
				31		32					
				33		34					
				35		36					1
				37	38					1	
				39		40					1



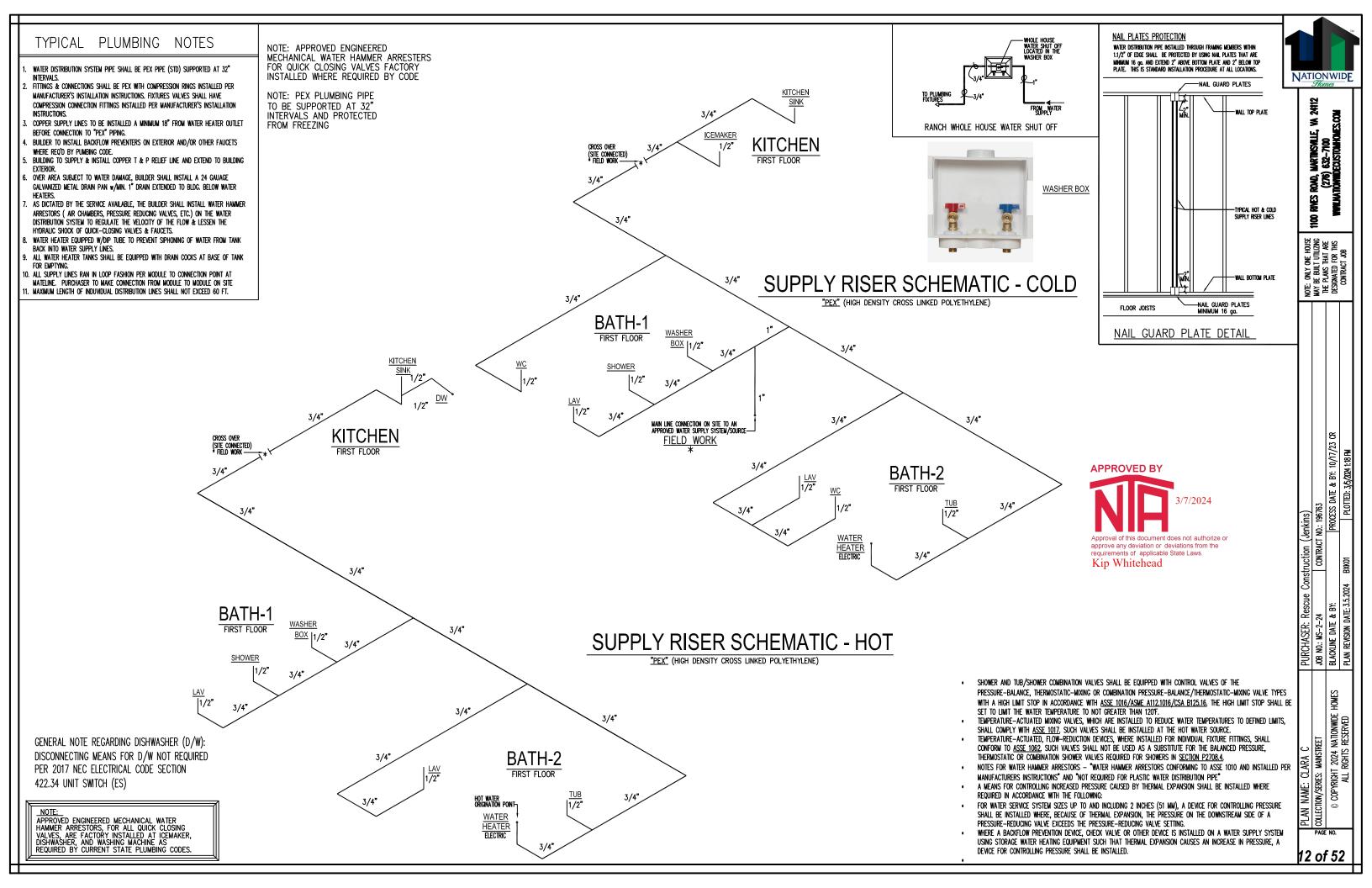
*** $2^{\underline{M}}$ Conduit may be in adjacent wall (Floor-to-Ceiling) with $3^{\underline{M}}$ conduit from BOTTOM OF PANEL PENDING REQUIRED KNOCK-OUT USAGE FOR FACTORY INSTALLED WIRING (DETERMINED BY NATIONWIDE HOMES ELECTRICIANS)

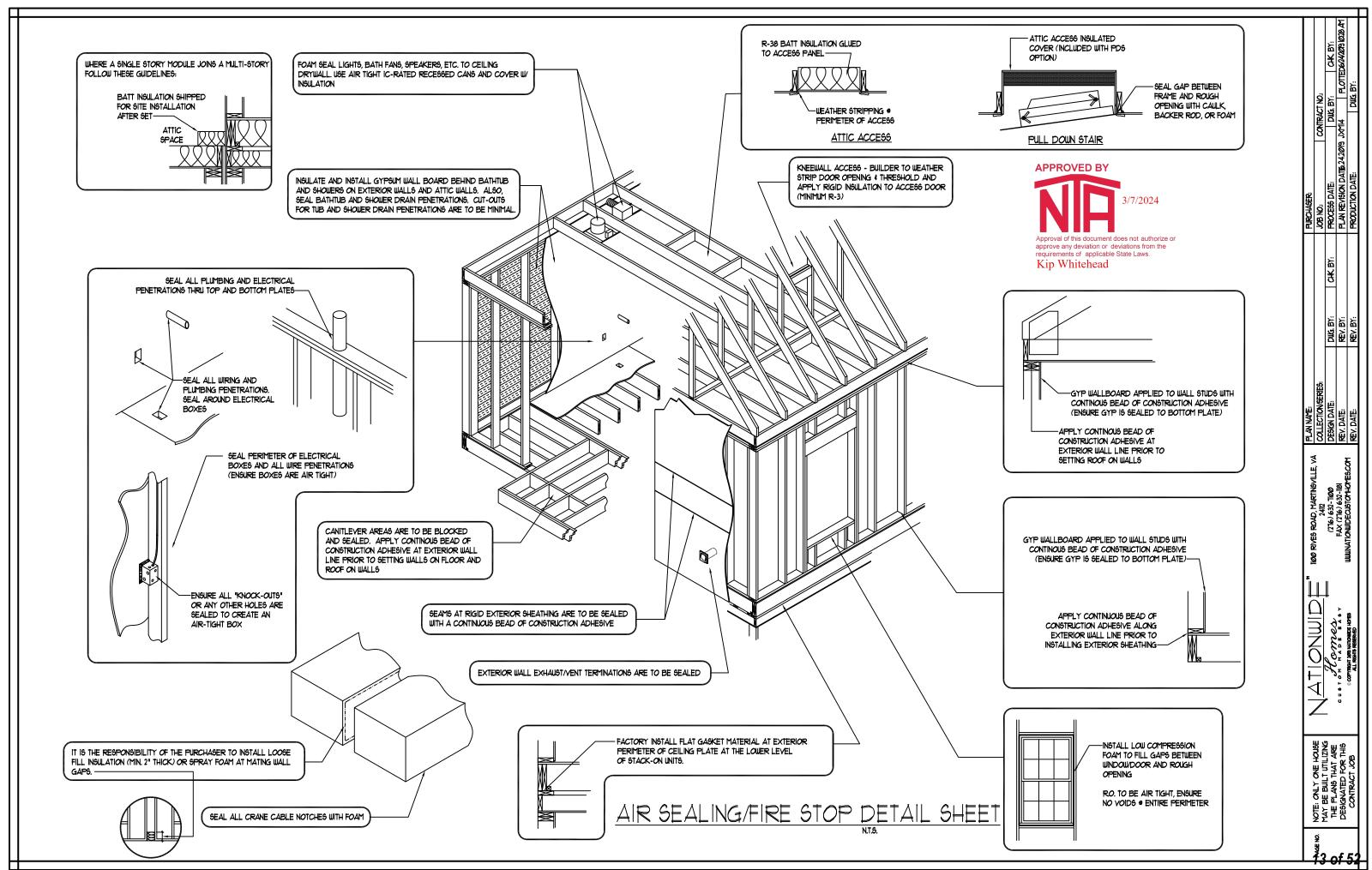
TWO-STORY HOMES WILL HAVE A 2" CONDUIT FROM LOWER LEVEL FLOOR UP THROUGH CEILING JOIST CAVITY OF UPPER LEVEL (INTERMEDIATE CONNECTION COMPLETED ON SITE BY PURCHASER)

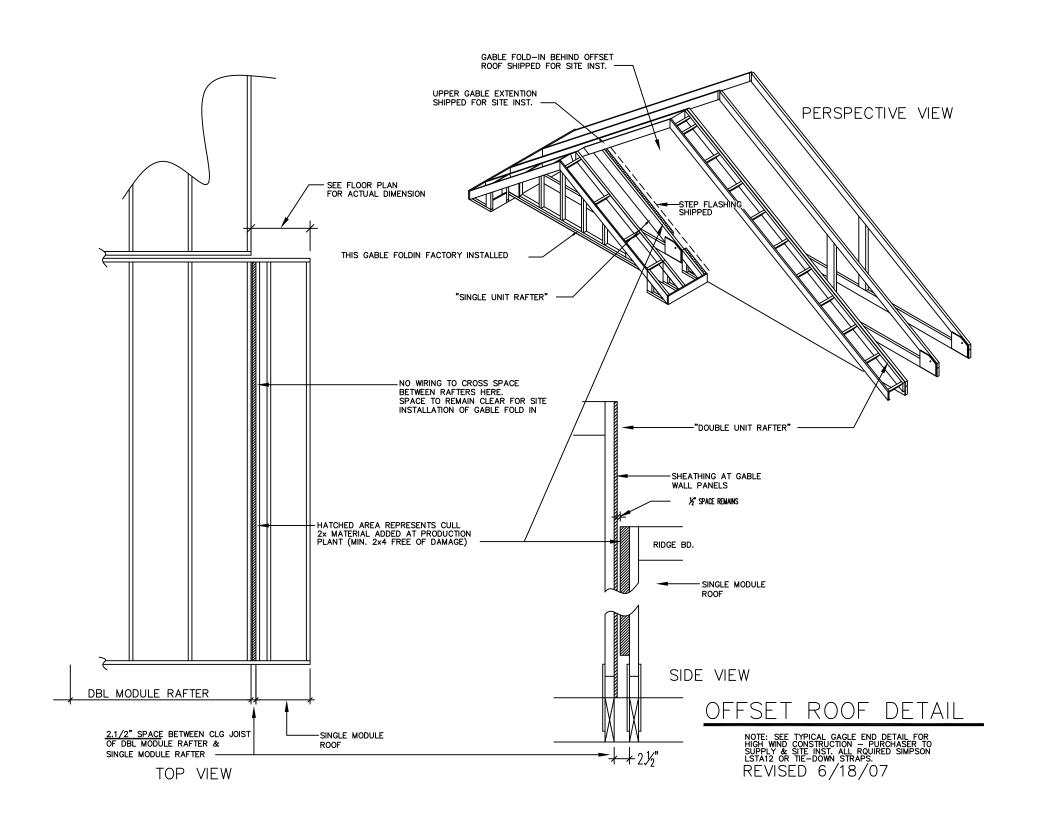
TYP. SERVICE ENTRY INSTALLATION

- 1. CONNECTION TO SERVICE BY OTHERS
- 2. 2 EA. 2" CONDUIT DROPPED THRU FLOOR FOR SITE ELECTRICAL INSTALLATION BY OTHERS.
- 3. 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

JOB NO.: MS-2-24
BLACKLINE DATE & B
PLAN REVISION DATE:







APPROVED BY

Kip Whitehead

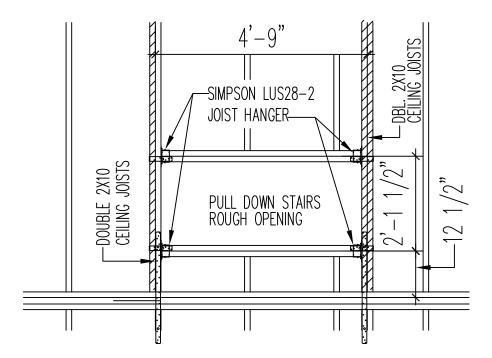
3/7/2024

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

ote: Only One"House hay be built utengone the plans that are designated for this contract job

₂ 14gof 52





SIMPSON LUS28-2FACE MOUNTED HANGER FASTENING:

HEADER: (6) 16d NAILS JOISTS: (4) 16d NAILS

DOUBLE 2X10 CEILING JOISTS NAILED W/(2) ROWS OF 16d NAILS AT 16" O/C

DOUBLE 2X10 HEADER NAILED W/(2) ROWS OF 16d NAILS AT 16" O/C



BOTTOM CHORD TO STAIR BEAM:

USE (7) 16d NAILS THRU BEAM INTO CHORD ENDGRAIN

TENSION CONNECTION:

USE (15) 16d NAILS THRU SHEATHING INTO CUT BOTTOM CHORD

USE (2) ROWS OF 16d NAILS THRU SHEATHING INTO STAIR BEAM AT 3" O/C

USE (1) SIMPSON LSTA30 ATTACHED TO EACH NARROW FACE OF BOTTOM WRAPPED AROUND STAIR BEAM

STAIR BEAM AT ENDS:

UPLIFT CONNECTION: SIMPSON LUS28-2

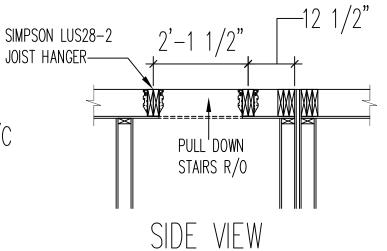
TENSION CONNECTION:

USE (18) 16d NAILS THRU SHEATHING INTO BOTTOM CHORD SCAB

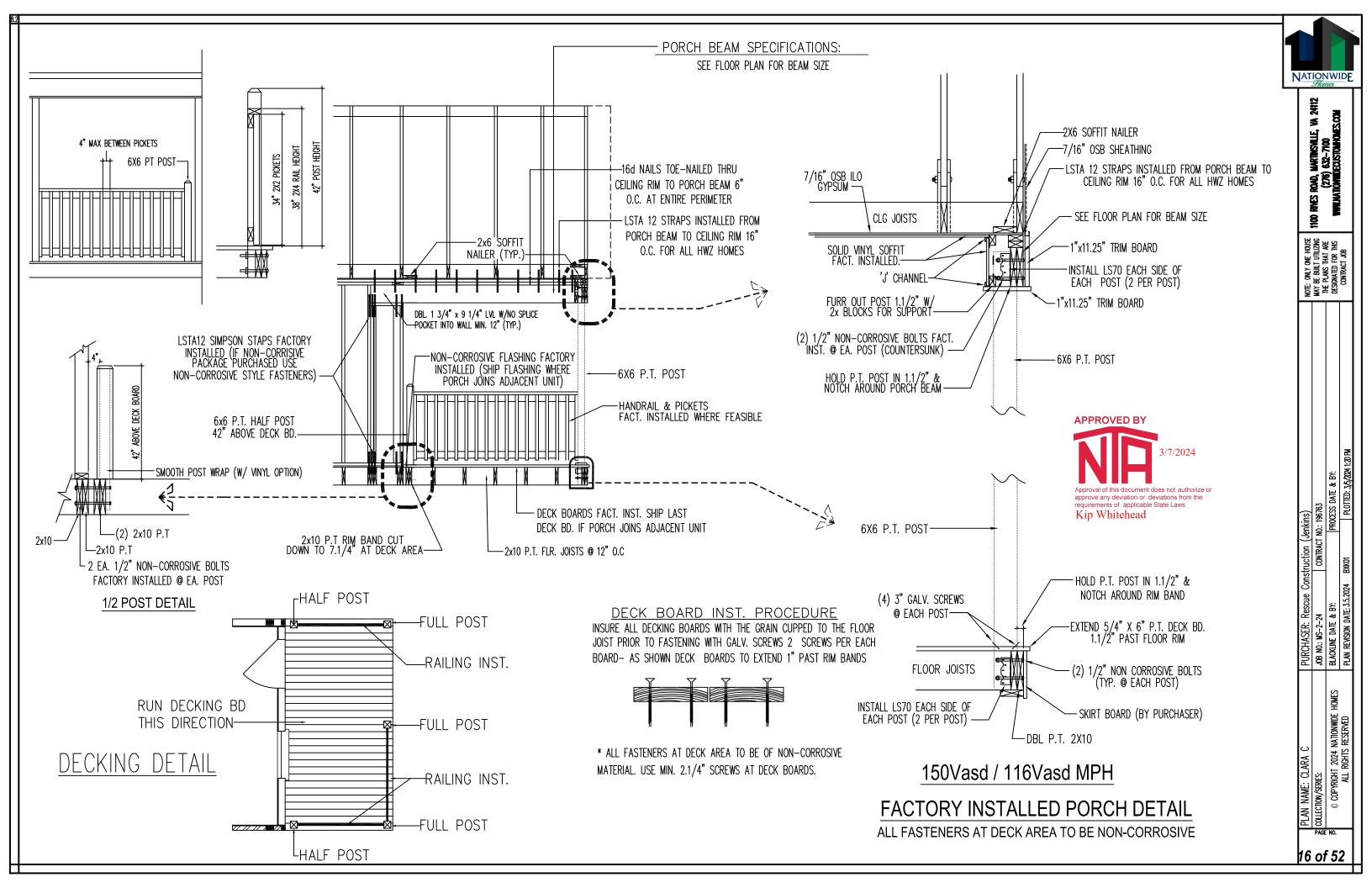
USE (1) SIMPSON MSTA30 ATTACHED TO SCAB ACROSS MATING LINE

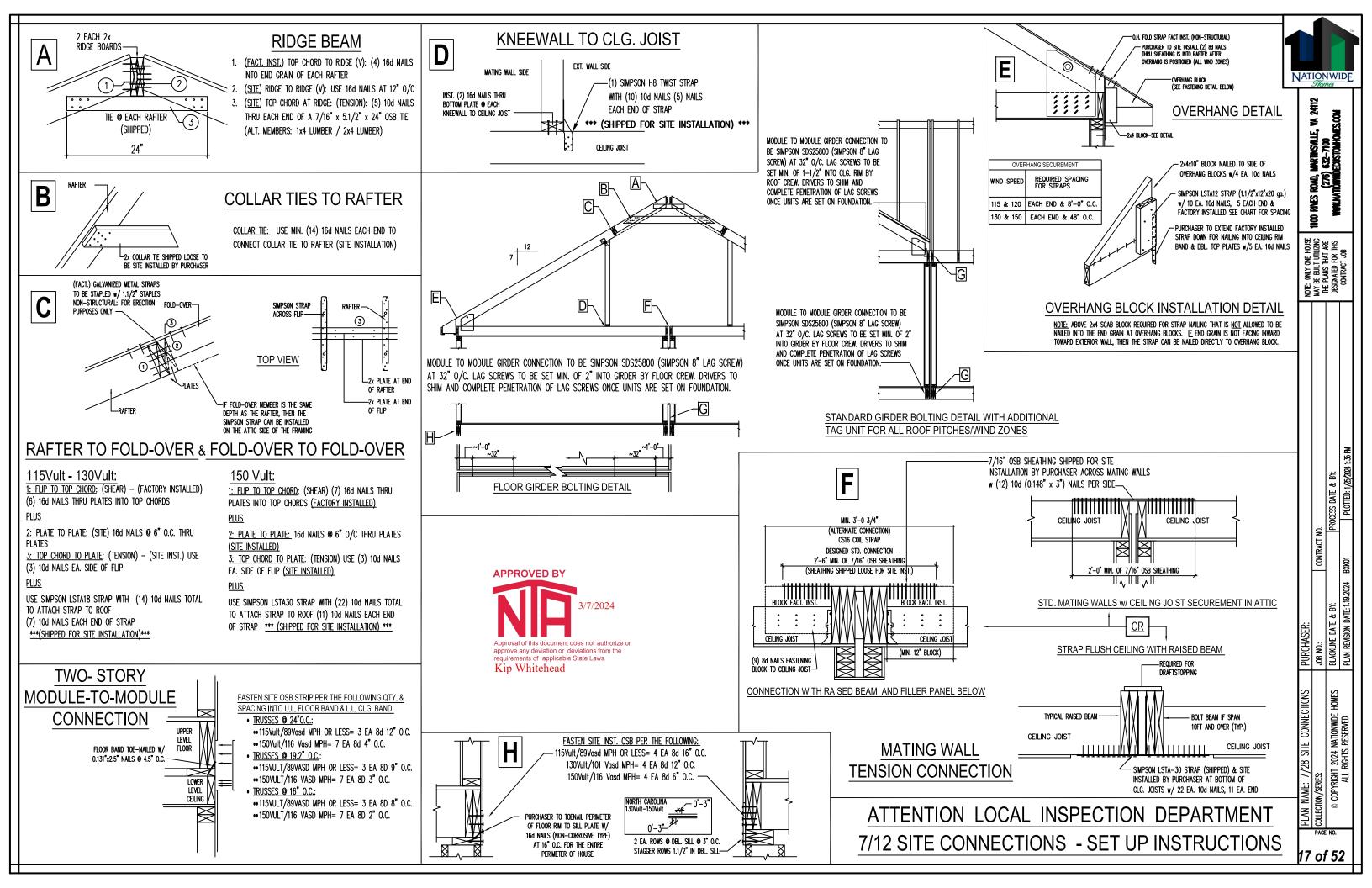
BOTTOM CHORD TO MATING WALL BEAM:

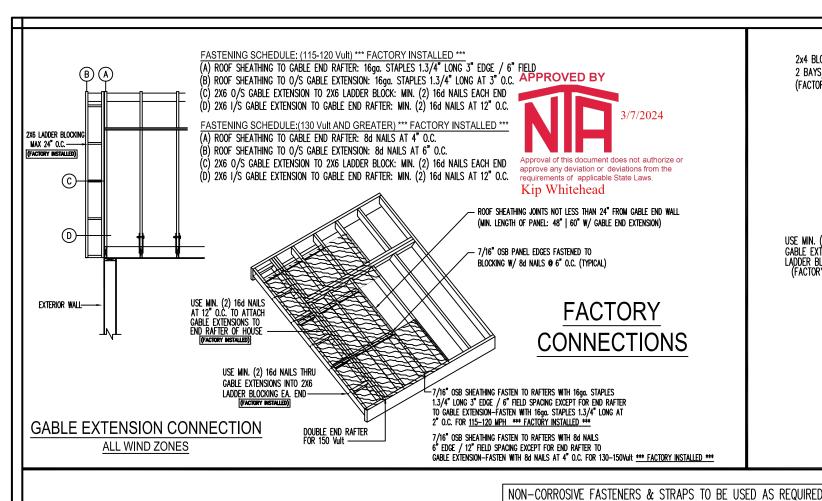
USE (13) 16d NAILS THRU BEAM INTO CHORD ENDGRAIN

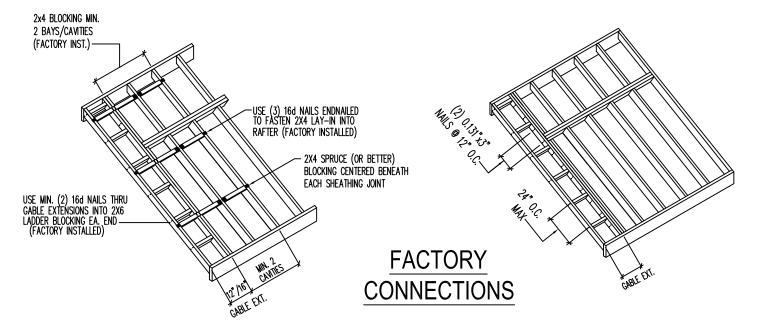


PULL DOWN STAIRS ROUGH OPENING
PERPENDICULAR TO CEILING JOIST DETAIL



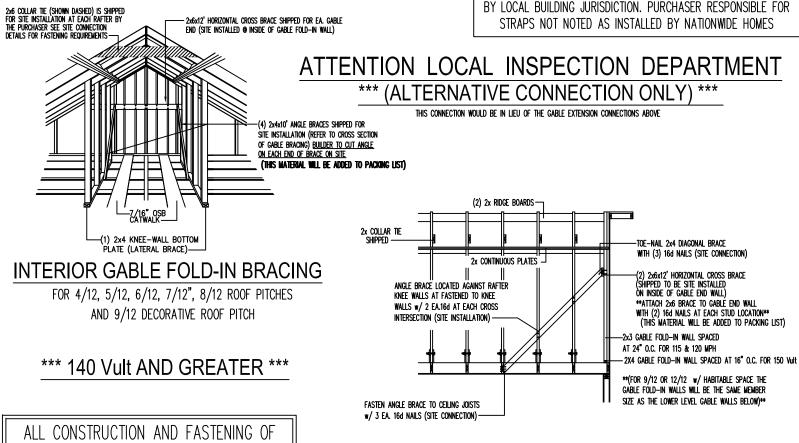






12" OR 16" GABLE EXTENSION CONNECTION DETAIL

** 140 Vult AND GREATER **



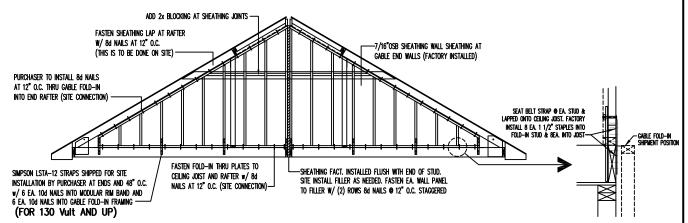
GABLE FOLD-IN BRACING IS PRESCRIPTIVE

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)
- 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
- 5. 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)**

- FASTEN SHEATHING LAP @ RAFTER W/ 8d NAILS @ 12" O.C. (IF APPLICABLE)
- FASTEN GABLE FOLD-IN THRU PLATES TO CLG. JOIST AND RAFTER W/ 16d NAILS @ 12" O.C.
- 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

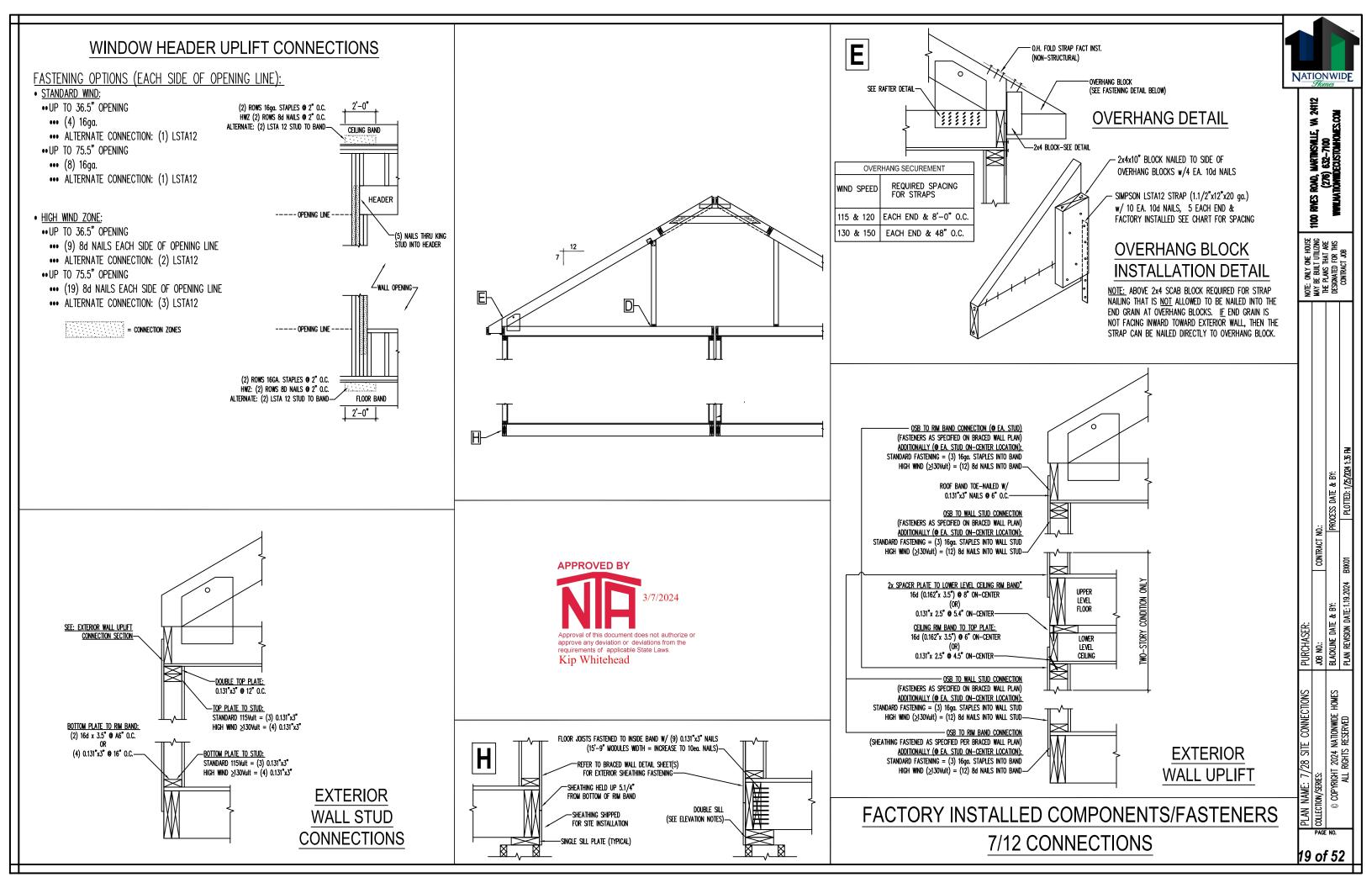
ATTENTION LOCAL INSPECTION DEPARTMENT 7/12 SITE CONNECTIONS - SET UP INSTRUCTIONS

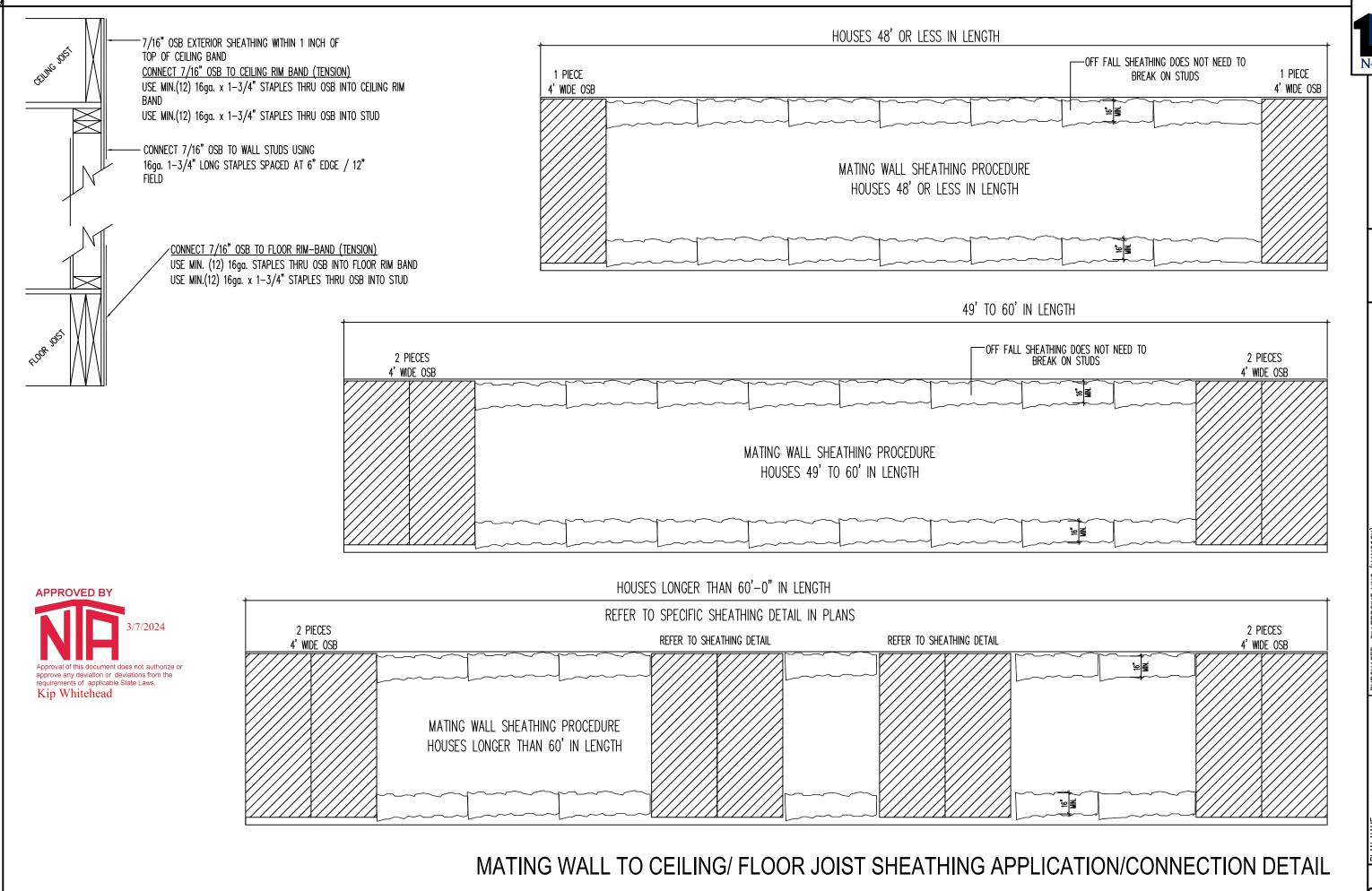
JOB NO: BLACKLINE PLAN REVIS

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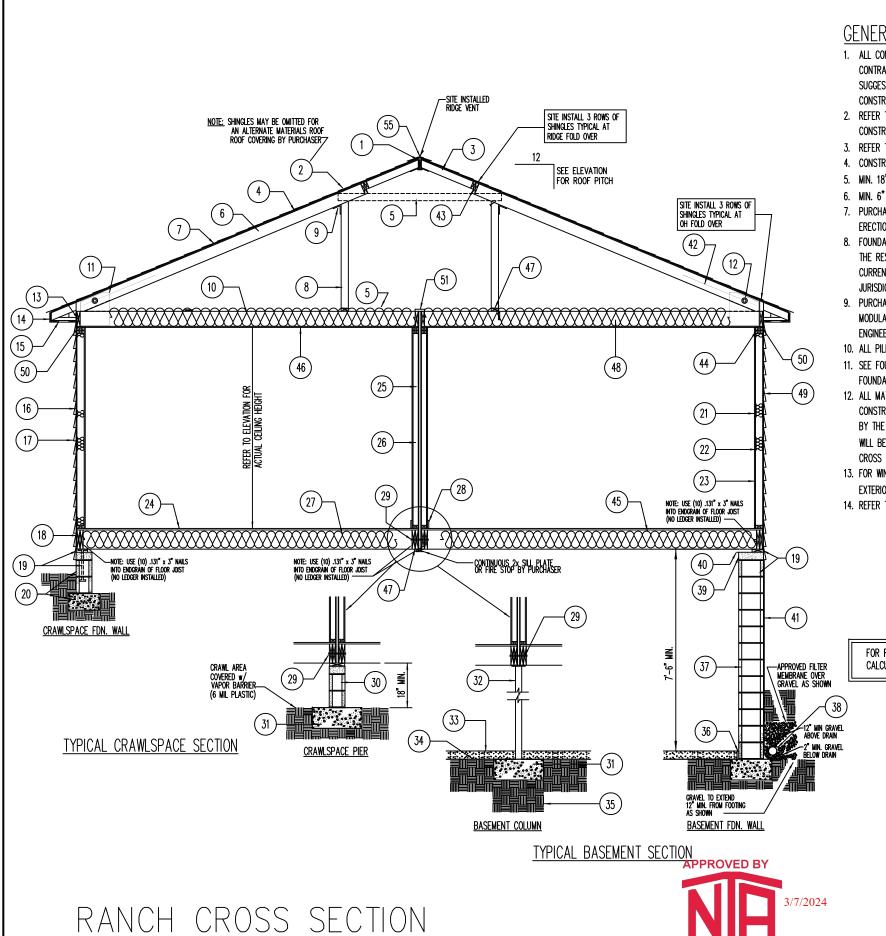
MATIONWIDE

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





NATIONWIDE



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

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

Kip Whitehead

FOR ROOF TRUSS REFERENCE - 7/12 (13'-9") SEE NATIONWIDE HOMES CALCULATIONS MANUAL, SECTION #8, PAGES 15, 22, 23 & 24

۱0.	DESCRIPTION		
	ALL WIND SPEEDS SHOWN BELOW IN MPH ARE 3-SECOND GUST		
1	DBL. 2x6 RIDGE BOARDS (#2 SPF OR EQUAL)		
2	SHINGLES (SITE INSTALLED AT O.H & U.L FOLD-OVER)	N	1
3	2x FOLD-OVER RAFTERS (#2 SPF or EQ.) (115Vult/150Vult) REFER TO ROOF FRAMING FOR SPACING	1	1/2
4	SYNETHIC UNDERLAYMENT		T
5	2x Collar Tie (site-installed) #2 syp of equal (refer to roof framing for spacing)		1
6	2x RAFTERS #2 SYP or EQ. (115Vult / 150Vult) (REFER TO ROOF FRAMING FOR SPACING)		1
7	ROOF SHEATHING (115Vuit / 150Vuit) 7/16" OSB SHEATHING		1
8	2x4 kneewall (#2 SPF or Eq.) (115Vult / 150Vult) (refer to roof framing for spacing)		1
9	KNEEWALL HINGE		1
10	2x8 CEILING JOISTS (#2 SYP or EQUAL) (REFER TO ROOF FRAMING FOR SPACING)		1
11	OSB GUSSETS AT EACH SIDE		1
12	BOLT ASSEMBLY		1
13	CONTINOUS PERIMETER BAND (#2 SYP or EQUAL)		1
14	FASCIA BOARD		1
15	VINYL CONTINIOUS VENTED SOFFIT		1
16	7/16" OSB STRUCTURAL SHEATHING (115Wilt / 150Wilt)		1
			1
17	VINYL EXTERIOR SIDING DOUBLE PERIMETER BAND 2x10 (#2 SYP or EQUAL)		₽
18	MIN. 2x6 PRESSURE TREATED SILL PLATE W/ANCHOR BOLTS		
19			1
20	FOUNDATION WALL AND CONCRETE FOOTER		ł
21	1/2" GYPSUM WALL BOARD		1
2	R-15 WALL INSULATION (R-19 or R-21 W/ 2x6 OPTION)		1
23	EXT. WALL STUDS: 2x4 AT 16" O/C (2x6 OPTION) #2 SPF or EQUAL		1
24	3/4" OSB T&G FLOOR SHEATHING		ŀ
25	MATING WALL STUDS: 2x3 AT 16" O/C (#2 SPF or EQUAL) 115Vult / 150Vult		1
26	MATING WALL SHEATHING: 7/16" OSB STRUCTURAL SHEATHING		1
27	R-19 FLR INSULATION SITE INSTALLED BY PURCHASER (OPT. R-30 FACT. INSTALLED)		J
28	BASEMOULD		1
29	SIMPSON SDS25800 (SIMPSON 8" LAG SCREW) AT 32" O.C		1
30	CONCRETE PIERS		1
31	CONCRETE FOOTER		1
32	STRUCTURAL SUPPORT COLUMN		1
33	CONCRETE SLAB FLOOR		1
34	GRAVEL AND VAPOR BARRIER		1
35	EARTH		1
36	EXPANSION JOINT		1
37	FOUNDATION WALL		1
38	DRAIN TILE WITH GRAVEL SURROUND		1
39	SOLID CAPE (IF REQUIRED)		1
40	TERMITE SHELD		1
41	DAMP PROOFING		1
42	Insulation Baffle- site installed by purchaser		ł
42 43	CONTITUNOUS DOUBLE 2x AT FOLD-OVER (#2 SPF or EQUAL)		1
44	DOUBLE 2x4 TOP PLATE (SPF STUD GRADE or EQUAL)		ł
	2x10 FLOOR JOISTS AT 16" O.C (#2 SYP or EQUAL)		ł
45 46	1/2" CEILING GYPSUM		ł
46	7		ł
47	DOUBLE 2x10 GIRDER EACH SIDE (#2 SYP or EQUAL)		ł
48	R-38 CLG. INSULATION FACTORY INSTALLED		1
49	WEATHER RESISTIVE BARRIER		1
	7/16" OSB COMPRESSION STRIP (ENTIRE LENGTH OF LOAD BEARING WALL)		
50 51	2x FIRESTOP INSTALLED BY PURCHASER (#2 SFP or EQUAL)		ı

FOR ROOF TRUSS REFERENCE - 7/12 (15'-9") SEE NATIONWIDE HOMES CALCULATIONS MANUAL, SECTION #8, PAGES 29, 32, 33 & 42

FOR ROOF TRUSS REFERENCE - 7/12 (29'-8") SEE NATIONWIDE HOMES CALCULATIONS MANUAL, SECTION #8, PAGES 85, 92, 93 & 98

FOR PORCH CONNECTION REFERENCE - 7/12 $\left(13^{\prime}\!-\!9^{\prime\prime}\right)$ SEE NATIONWIDE HOMES CALCULATIONS MANUAL, SECTION #8, PAGES 27 & 28

<u> EXTERIOR HEADER SIZED PER – 7/12 RAFTER COMP. LOAD SUMMARY</u> •• SECTION 36/page.37 (PAGE 2024 OF MANUAL) BASED ON L/360 (FOR THE FOLLOWING WINDOWS AND EXTERIOR DOORS: 3660 WINDOWS, TWIN 3060 MINDOW, 3036 WINDOW, 3068 FRONT DOOR, AND 3068 SIDE DOOR IN DINING ROOM

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

			KINRO (SERIES	9750\ I OV	<i>N</i> -E					EXTERIO	R DOOR	S (SIZES)		T _M
SHGC=0.29										OPENING	DESCRIPTION			
			ROUGH OPENING			VENT. (SQ.FT.)	PLAN					DESCRIPTION		
	ACTL	IAL SIZE	TOOGITOI ENINO	070 210111	1,0411.11	72.111 (3 QII 11)	CODE	SIZE	E	WIDTH	HEIGHT		N.	JATIONWIDE Flomes
PLAN				GL.	FLR. OPI	N I	3068	3'-0"	6'-8"	38 1/2"	82 1/2"	PRE-HUNG EXTERIOR		Homes
CODE	WIDTH	HEIGHT	WIDTH HEIGHT	AREA	AREA ARI		3068	3'-0"	6'-8"	51 1/2"		PRE-HUNG W/ SINGLE SIDELITE	TRANSOMS	24112 CM
3036	29 1/2	35 1/2	30 3/4 37	5.55	69.38 2.6	4 66.00	3068	3'-0"	6'-8"	64 1/2"		PRE-HUNG W/ DOUBLE SIDELITE	30TRAN 30-10TRAN	VA 24
3036 Tw	60 1/2	35 1/2	61 3/4 37	6.55	81.87 3.6	4 91.00	6068	6'-0"	6'-8"	75 1/2"		CENTER HINGED PATIO DOOR	30 1011111	
3660**	35 1/2	59 1/2	36 3/4 61	12.21	152.63 5.9		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.									ROAD, MARTINSMILE, (278) 632—7100 Attonnidecustompones
3660 Tr	108 3/4	59 1/2	109 1/2 61	25.42	317.75 12.		3068	3'-0"	6'-8"	38 1/2"	93"	PRE-HUNG W/ TRANSOM	IU-30-IUIRAN OUIRAN	9.6
*** 4646 * MIN EGDES	45 1/2	45 1/2 N @ GRADE LE	46 3/4 47	13.03 OR = 0.32 & SH	162.88 -	-	3068	3'-0"	6'-8"	51 1/2"	93"	PRE-HUNG SGL. SIDELITE W/ TRANS.		
** EGRESS W		W (OIVADE EE	VLL UTACK	51(= 0.52 & 511	100 = 0.55		3068	3'-0"	6'-8"	64 1/2"	93"	PRE-HUNG DBL. SIDELITE W/ TRANS.		RIVES
							6068	6'-0"	6'-8"	75 1/2"	82 1/2"	PRE-HUNG CENTER HINGED PATIO		\$
	KINRO	TRANSOM	IS (LOW-E & ARG	GON) (SQL	UARE & ELLIF	TICAL)	6068	6'-0"	6'-8"	75 1/2"	82 1/2"	DOUBLE DOORS (BOTH PANELS OPERABLE)	The state of the s	
	SHGC=0	.35	U FACTOR	1 = 028	DP35 S	D / DP 50 HWZ			OL	JTSWING UNI	TS: REDUCE I	R.O. HEIGHT 3/4"		NOTE: ONLY ONE HOUSE MAY BE BUILT UTILIZING THE PLANS THAT ARE DESIGNATED FOR THIS CONTRACT JOB
														Y ONE WILT U VS TH
	AC	CTUAL SIZE	ROUGH OF	PENING	8% LI	SHT (SQ.FT.)	<u> </u>							SIGNAT
			SING	LE		SINGLE		THE	ERMA TF	RU EXTER	RIOR DOO	RS (LIGHT/VENT & THERMAL VALUES)		MAY PER DEX
PLAN COE	DE WID	TH HEIGH	w.	H.	GL. AREA	FLR. AREA	D00D	01.400	TELOOP			DESCRIPTION		
2812	27		28 1/4	12 3/4	5.07	63.39	DOOR NUMBER	GLASS	AREA	U-VALUE	SHGC VE	NT FLOOR AREA		
2828		1/2 28 1/2		29 1/4	12.50	156.21	S220	-	<u> </u>	0,20		810 495.25 2 PANEL		
3612	35		36 1/4	12 3/4	6.60	82.44	S206	5.06	63,25	0.22	0.09 19.	810 495.25 1/2 LITE (NO MUNTINS)		
4812	47		48 1/4	12 3/4	8.88	111.01	S80	6.68	83.50	0.23		810 495.25 2/3 LITE (NO MUNTINS)		
6012	59	1/2 12	60 1/4	12 3/4	11.17	139.58	S118	9.15	114.38			810 495.25 FULL-LITE (NO MUNTINS)		
7212	71 -	1/2 12	72 1/4	12 3/4	13.45	168.15	S4814 S262	2.33 5.06	29.13 63.25		0.09 19. 0.08 19.	810 495.25 CRAFTSMAN (4-LITE MUTINS) 810 495.25 1/2 LITE 2 PANEL (4-LITE MUNTINS)		
3036 w/EL	.IP 29	1/2 48 1/2	30 1/4	49	22.04	275.46	S2106	6.68	83.50	-		810 495.25 2/3 LITE 2 PANEL (4-LITE MUNTINS)		
							S1209	9.15	114.38			810 495.25 FULL-LITE (4-LITE MUNTINS)	S210SL S751SL S100SL S4812SL S212SL S1289SL S1209SL	
							214	40.00				810 495.25 SLIDING GLASS DOOR		_
							215	40.00	500.00	0.31	0.18 19.	810 495.25 SLIDING GLASS DOOR (INT. MUNTINS)		W 60:
			INTERIOR I	DOODE			<u></u>					IDELITES		3/5/2024 1
			ROUGH OPENING				S210SL	2.21	27.63	1 1	0.00	- HALF-LITE (NO MUNTINS)		: 3/5/
PLAN							S751SL	2.21	27.60		0100	- 2/3 LITE (NO MUNTINS)		
CODE	,	SIZE	WIDTH HEIGHT	Г	DESCRIP [*]	ION	\$100SL \$4812SL	2.59	32.38 9.25	0.19 0.22	0,00	- FULL-LITE (NO MUNTINS) - CRAFTSMAN (2-LITE MUNTINS)		
1668	1'-6"	6'-8"	20 1/2" 82 1/2"		PRE-HUNG IN	TERIOR	S212SL	2.21	27.63		221	- HALF-LITE (2-LITE MUNTINS)		NO.:
2068	2'-0"	6'-8"	26 1/2" 82 1/2"		PRE-HUNG IN		S1089SL	2.45			2 2 4	2/3 LITE (2-LITE MUNTINS)		CONTRACT NO.: DWG.
2468	2'-4"	6'-8"	30 1/2" 82 1/2"	_	PRE-HUNG IN		S1209SL	2.59	32.38	0.18	0.04	FULL-LITE (2-LITE MUNTINS)		CON
2668	2'-6"	6'-8"	32 1/2" 82 1/2"		PRE-HUNG IN									
2868 3068	2'-8" 3'-0"	6'-8" 6'-8"	34 1/2" 82 1/2" 38 1/2" 82 1/2"	_	PRE-HUNG IN									2024
2068	2'-0"	6'-8"	26 1/2" 94 1/2"		HUNG INTERIO		1							E: 3.5
2468	2'-4"	6'-8"	30 1/2" 94 1/2"	_	HUNG INTERIO		-							ا ا ا
2668	2'-6"	6'-8"	32 1/2" 94 1/2"	_	HUNG INTERIO		1							PURCHASER: JOB NO: PROCESS DATE: PLAN REVISION (
2868	2'-8"	6'-8"	34 1/2" 94 1/2"		HUNG INTERIO]						3220 3200 3202 300 32100 54814	A RE
3068	3'-0"	6'-8"	38 1/2" 94 1/2"	PRE-I	HUNG INTERIO	R W/ TRANSOM		A	\PPRO\	VED BY		EXTERIOR	noops P	도이동목
4068	4'-0"	6'-8"	50 1/2" 94 1/2"		HUNG INTERIO									
5068	5'-0"	6'-8"	62 1/2" 94 1/2"		HUNG INTERIO			Ī			3/7/20	CLASS PATTEMIS SHOWN ARE REPRESENTANCE & MAY WARY IN D EVINEN DOOR MANAFACTURES! A DOSMIT PRESENCE.)WES
6068	6'-0"	6'-8"	74 1/2" 94 1/2"	_	HUNG INTERIO						3,7720	ULSMAN PRESSURES		
2068	2'-0"	6'-8"	26 1/2" 82 1/2"		RE-HUNG INTER									T 2024 NATIONWIDE RIGHTS RESERVED
2668 3068	2'-6" 3'-0"	6'-8" 6'-8"	32 1/2" 82 1/2" 38 1/2" 82 1/2"		RE-HUNG INTER		-				t does not au deviations fro			NATI(
4068	4'-0"	6'-8"	50 1/2" 82 1/2"	_	RE-HUNG INTER		-	re	equirements	s of applicab	le State Laws			(224 (発TS
5068	5'-0"	6'-8"	62 1/2" 82 1/2"		RE-HUNG INTER		1	K	xip wh	nitehead				PLAN NAME: COLLECTION/SERIES: © COPYRIGHT 2 ALL RIV
1680	1'-6"	8'-0"	20 1/2" 98 1/2"	_	PRE-HUNG IN									ME: SERIE PYRIC
2080	2'-0"	8'-0"	26 1/2" 98 1/2"		PRE-HUNG IN		1							NOIT: © CO
2480	2'-4"	8'-0"	30 1/2" 98 1/2"		PRE-HUNG IN	TERIOR]							
2680	2'-6"	8'-0"	32 1/2" 98 1/2"		PRE-HUNG IN									PAGE NO.
2880	2'-8"	8'-0"	34 1/2" 98 1/2"		PRE-HUNG IN								S118 S1209 #214 #215	00 - 5 50
3080	3'-0"	8'-0"	38 1/2" 98 1/2"		PRE-HUNG IN	TERIOR								22 of 52
Ц														

Nationwide Custom Homes Inc.

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

Model Name and Contract No.: #196763 Rescue Construction Clara "C" Model Home / Lot Model

Electrical Load Calculations: General Lighting Load: **1,615** Sq. Ft. @ 3 volts-ampheres/ft2 = 4,845 watts Small Appliance Load: (3 circuits) 4,500 watts Laundry: 1,500 watts **Net Load:** ----- = **10,845** watts Range: _____ = 8,640 watts Microwave: 1,000 watts Dryer Load: 5,600 watts Dishwasher: 1,032 watts Water Heater: (4500 / 240 * 125%) 5,625 watts Net Load: ----- ------ = **32,742** watts 10000 watts @ 100% 10,000 watts 32,742 22,742 @ 40% **9,097** watts -- ----- = **19,097** watts Net Load: Heat Pump - 1st floor (2-1/2 ton): 8.820 watts

----- ----- = **27,917** watts

27,917 ----- =

General Notes:

Total Load:

Calculated Load for Service:

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.



Amperes



The design also meets the 2018 IBC and 2018 NDS editions.



BOTTOM CHORD CUT FOR STAIRS

BARLOW NO. 190206 CUT BOTTOM CHORD Apr. 15, 2019 15:54

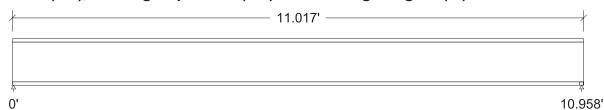
Design Check Calculation Sheet

WoodWorks Sizer 11.1

Loads:

Load	Type	Distribution	Pat-	Location [ft]		Magnit	Unit	
			tern	Start	End	Start	End	
BC LL	Dead	Full UDL				13.3		plf
KW DL	Dead	Point		10.25		155		lbs
BC LL 1	Live	Partial UDL		0.02	10.25	13.3	13.3	plf
BC LL 2	Live	Partial UDL		10.25	10.98	26.7	26.7	plf
KW LL	Live	Point		10.25		291		lbs
Self-weight	Dead	Full UDL				2.8		plf

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



		0.11000	
Unfactored:		04/18/23	
Dead	99	11111111	233
Live	93	MONWEAL PRESENTATION CAN THE STATE OF THE ST	354
Factored:			
Total	192	O CE ENTO	587
Bearing:	-	A ROTT A STATE OF THE STATE OF	
Capacity		BARLOW	
Beam	319	JAMES OBARCON 11879	587
Des ratio		E TENGINEER / SECTION ASSESSMENT	
Beam	0.60	No. PERSONS 12 VGINEE O	1.00
Load comb	#2		#2
Length	0.50*	JASYLVINI BAME	0.92
Min req'd	0.50*	Persisting the second	0.92
Cb	1.00	04/16/19	1.00
Cb min	1.00	0 11 10/10	1.00

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

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

Supports: All - Non-wood

Total length: 11.02'; Clear span: 10.899'; volume = 1.1 cu.ft.

Lateral support: top= full, bottom= full;

James Joseph
Barlow
Lic. No. 035206

03/24/21

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

Kip Whitehead



CUT BOTTOM CHORD

WoodWorks® Sizer 11.1

Page 2

Analysis vs. Allowable Stress and Deflection using NDS 2015:

Criterion	Analysis Value	Design	Value	Unit	Analysis/Design
Shear	fv* = 55	Fv' =	135 յ	psi	fv*/Fv' = 0.41
Bending(+)	fb = 349	Fb' =	962	psi	fb/Fb' = 0.36
Live Defl'n	0.05 = < L/999	0.55 =	L/240	in	0.09
Total Defl'n	0.12 = < L/999	0.55 =	L/240	in	0.23

*The effect of point loads within a distance d of the support has been included as per NDS 3.4.3.1

Additional Data:

FACTORS:	F/E(psi)CD	CM	Ct	\mathtt{CL}	CF	Cfu	Cr	Cfrt	Ci	Cn	LC#
Fv'	135 1.00	1.00	1.00	_	_	-	-	1.00	1.00	1.00	2
Fb'+	875 1.00	1.00	1.00	1.000	1.100	1.00	1.00	1.00	1.00	-	2
Fcp'	425 -	1.00	1.00	-	-	-	-	1.00	1.00	-	-
E'	1.4 million	1.00	1.00	-	-	-	-	1.00	1.00	-	2
Emin'	0.51 million	1.00	1.00	_	_	-	-	1.00	1.00	-	2

CRITICAL LOAD COMBINATIONS:

Shear : LC #2 = D+L, V max = 587, V design* = 513 lbs

Bending(+): LC #2 = D+L, M = 623 lbs-ft

Deflection: LC #2 = D+L (live) LC #2 = D+L (total)

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

All LC's are listed in the Analysis output

Load combinations: ICC-IBC

CALCULATIONS:

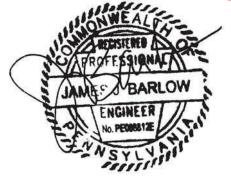
Deflection: EI = 139e06 lb-in2

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

Total Deflection = 1.50(Dead Load Deflection) + Live Load Deflection.

- 1. WoodWorks analysis and design are in accordance with the ICC International Building Code (IBC 2015), the National Design Specification (NDS 2015), and NDS Design Supplement.
- 2. Please verify that the default deflection limits are appropriate for your application.
- 3. Sawn lumber bending members shall be laterally supported according to the provisions of NDS Clause 4.4.1.









The design also meets the 2018 IBC and 2018 NDS editions.



FULL BOTTOM CHORD w/ BEAM

BARLOW NO. 190206 CUT BOTTOM CHORD UPLIFT Apr. 15, 2019 16:06

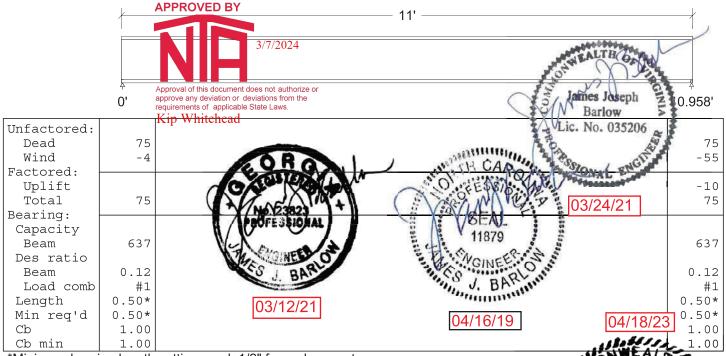
Design Check Calculation Sheet

WoodWorks Sizer 11.1

Loads:

Load	Type	Distribution	Pat-	Location [ft]		Magnitud	Magnitude	
			tern	Start	End	Start	End	
BC DL	Dead	Full UDL				8.0		plf
KW UP	Wind	Point		10.27		-59		lbs
Self-weight	Dead	Full UDL				5.6		plf

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



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

Lumber n-ply, S-P-F, No.1/No.2, 2x10, 2-ply (3"x9-1/4")

Supports: All - Non-wood

Total length: 11.0'; Clear span: 10.916'; volume = 2.1 cu.ft.

Lateral support: top= full, bottom= full;

Analysis vs. Allowable Stress and Deflection using NDS 2015:

Criterion	Analysis Value	Design Value	Unit	Analysis/Design
Shear	fv = 3	Fv' = 121	psi	fv/Fv' = 0.03
Bending(+)	fb = 57	Fb' = 866	psi	fb/Fb' = 0.07
Live Defl'n	-0.00 = < L/999	0.55 = L/240	in	0.00
Total Defl'n	0.02 = < L/999	0.55 = L/240	in	0.04

CUT BOTTOM CHORD UPLIFT

WoodWorks® Sizer 11.1

Page 2

Additional Data:

```
FACTORS:
            F/E(psi)CD
                                                                 Cr
                                                                                           LC#
                            CM
                                   Ct
                                          CL
                                                  CF
                                                         Cfu
                                                                      Cfrt
                                                                              Ci
                                                                                     Cn
 Fv'
                                                                      1.00
                                                                                    1.00
            135
                    0.90
                           1.00
                                  1.00
                                                                             1.00
                                                                                            1
                                  1.00
 Fb'+
            875
                    0.90
                                         1.000
                                                         1.00
                                                               1.00
                                                                      1.00
                           1.00
                                                 1.100
                                                                             1.00
                                                                                            1
            425
                           1.00
                                  1.00
 Fcp'
                                                                      1.00
                                                                             1.00
 Ε'
            1.4 million
                                                                                            1
                           1.00
                                  1.00
                                                                      1.00
                                                                             1.00
 Emin'
           0.51 million
                           1.00
                                  1.00
                                                                      1.00
                                                                             1.00
                                                                                            1
```

CRITICAL LOAD COMBINATIONS:

```
Shear : LC \#1 = D only, V max = 75, V design = 64 lbs
```

Bending(+): LC #1 = D only, M = 204 lbs-ft

Deflection: LC #2 = .6D+W (live) LC #1 = D only (total)

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

All LC's are listed in the Analysis output

Load combinations: ICC-IBC

CALCULATIONS:

Deflection: EI = 139e06 lb-in2/ply

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

Total Deflection = 1.50 (Dead Load Deflection) + Live Load Deflection.

- 1. WoodWorks analysis and design are in accordance with the ICC International Building Code (IBC 2015), the National Design Specification (NDS 2015), and NDS Design Supplement.
- 2. Please verify that the default deflection limits are appropriate for your application.
- 3. Sawn lumber bending members shall be laterally supported according to the provisions of NDS Clause 4.4.1.
- 4. BUILT-UP BEAMS: it is assumed that each ply is a single continuous member (that is, no butt joints are present) and that each ply is equally top-loaded. Where beams are side-loaded, special fastening details may be required.









The design also meets the 2018 IBC and 2018 NDS editions.



BOTTOM CHORD STAIR BEAM

BARLOW NO. 1900 FEATON Apr. 15, 2010 DECISION DECISION DECISION AND PROPERTY OF THE PROPERTY O

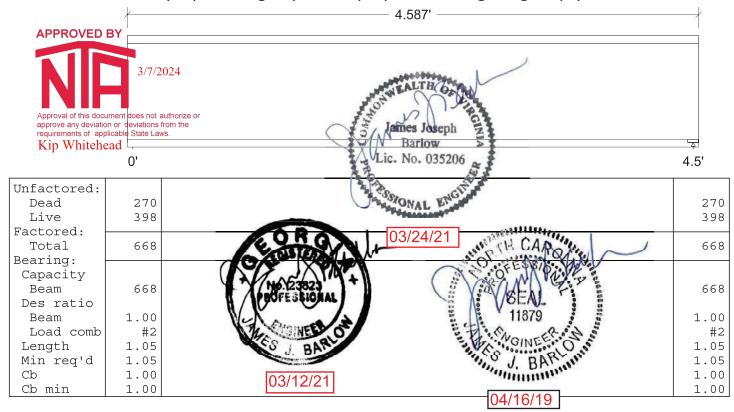
Design Check Calculation Sheet

WoodWorks Sizer 11.1

Loads:

Load	Type	Distribution	Pat-	Location [ft] Magnitude		Unit		
			tern	Start	End	Start	End	
Load1	Dead	Full UDL				117.0		plf
Load2	Live	Full UDL				177.0		plf
Self-weight	Dead	Full UDL				2.8		plf

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



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

Supports: All - Non-wood

Total length: 4.59'; Clear span: 4.413'; volume = 0.4 cu.ft.

Lateral support: top= full, bottom= full;

Analysis vs. Allowable Stress and Deflection using NDS 2015:

Criterion	Analysis Value	e Design Value	Unit	Analysis/Design
Shear	fv = 46	Fv' = 135	psi	fv/Fv' = 0.34
Bending(+)	fb = 421	Fb' = 962	psi	fb/Fb' = 0.44
Live Defl	n = 0.01 = <l 999<="" td=""><td>0.23 = L/240</td><td>in</td><td>0.05</td></l>	0.23 = L/240	in	0.05
Total Defl	n = 0.02 = <l 999<="" td=""><td>0.23 = L/240</td><td>in</td><td>0.11</td></l>	0.23 = L/240	in	0.11

SOFTWARE FOR WOOD DESIGN

STAIR BEAM WoodWorks® Sizer 11.1 Page 2

Additional Data:

```
FACTORS:
            F/E(psi)CD
                                                               Cr
                                                                                         LC#
                           CM
                                  Ct
                                         CL
                                                 CF
                                                       Cfu
                                                                     Cfrt
                                                                             Ci
                                                                                   Cn
                                                                     1.00
 Fv'
                   1.00
                                                                                  1.00
            135
                          1.00
                                 1.00
                                                                           1.00
                                                                                          2
                    1.00
 Fb'+
            875
                                 1.00
                                        1.000
                                                       1.00
                                                              1.00
                                                                     1.00
                                                                                          2
                          1.00
                                                1.100
                                                                           1.00
 Fcp'
            425
                          1.00
                                 1.00
                                                                     1.00
                                                                           1.00
 E^{+}
            1.4 million
                          1.00
                                                                                          2
                                 1.00
                                                                     1.00
                                                                           1.00
 Emin'
           0.51 million
                          1.00
                                 1.00
                                                                     1.00
                                                                           1.00
                                                                                          2
```

CRITICAL LOAD COMBINATIONS:

```
Shear : LC \#2 = D+L, V max = 668, V design = 426 lbs
```

Bending(+): LC #2 = D+L, M = 751 lbs-ft

Deflection: LC #2 = D+L (live) LC #2 = D+L (total)

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

All LC's are listed in the Analysis output

Load combinations: ICC-IBC

CALCULATIONS:

Deflection: EI = 139e06 lb-in2

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

Total Deflection = 1.50(Dead Load Deflection) + Live Load Deflection.

- 1. WoodWorks analysis and design are in accordance with the ICC International Building Code (IBC 2015), the National Design Specification (NDS 2015), and NDS Design Supplement.
- 2. Please verify that the default deflection limits are appropriate for your application.
- 3. Sawn lumber bending members shall be laterally supported according to the provisions of NDS Clause 4.4.1.









The design also meets the 2018 IBC and 2018 NDS editions.



BOTTOM CHORD STAIR BEAM 150 mph UPLIFT BARLOW NO. 190206 STAIR BEAM UPLIFT Apr. 15, 2019 15:58

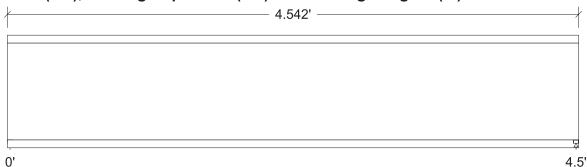
Design Check Calculation Sheet

WoodWorks Sizer 11.1

Loads:

Load	Type	Distribution	Pat-	Location [ft]		Magnitude		Unit
			tern	Start	End	Start	End	
Load2	Wind	Full UDL				-28.0		plf
Self-weight	Dead	Full UDL				2.8		plf

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



Unfactored: Dead Wind	6 -63		6 -63
Factored: Uplift Total	-59 6	E OR CAPONE	-59 6
Bearing: Capacity Beam Des ratio	319	NO 123823 // A TO THE STORAL TO THE STORAGE TONAGE TO THE STORAGE TO THE STORAGE TO THE STORAGE TO THE STORAGE	319
Beam	0.02	11879	0.02
Load comb	#1	WELL OF THE WOLLER	#1
Length	0.50*	BAR	0.50*
Min req'd	0.50*	J. BAYMIN	0.50*
Cb	1.00	03/12/21	1.00
Cb min	1.00	03/12/21	1.00

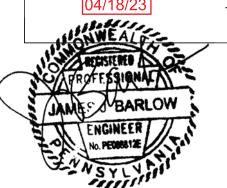
*Minimum bearing length setting used: 1/2" for end supports

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

Supports: All - Non-wood

Total length: 4.54'; Clear span: 4.458'; volume = 0.4 cu.ft.

Lateral support: top= full, bottom= full;





James Joseph
Barlow
Lic. No. 035206

STAIR BEAM UPLIFT

WoodWorks® Sizer 11.1

Page 2

Analysis vs. Allowable Stress and Deflection using NDS 2015:

Criterion	Analysis Value	Design Value	Unit	Analysis/Design	
Shear	fv = 6	Fv' = 216	psi	fv/Fv' = 0.03	
Bending(+)	fb = 4	Fb' = 866	psi	fb/Fb' = 0.00	
Bending(-)	fb = 36	Fb' = 1540	psi	fb/Fb' = 0.02	
Live Defl'n	-0.00 = < L/999	0.23 = L/240	in	0.01	
Total Defl'n	-0.00 = < L/999	0.23 = L/240	in	0.01	

Additional Data:

FACTORS:	F/E(p:	si)CD	CM	Ct	CL	CF	Cfu	Cr	Cfrt	Ci	Cn	LC#
Fv'	135	1.60	1.00	1.00	-	-	-	-	1.00	1.00	1.00	2
Fb'+	875	0.90	1.00	1.00	1.000	1.100	1.00	1.00	1.00	1.00	-	1
Fb'-	875	1.60	1.00	1.00	1.000	1.100	1.00	1.00	1.00	1.00	-	2
Fcp'	425	-	1.00	1.00	-	-	-	-	1.00	1.00	-	-
E'	1.4 m	illion	1.00	1.00	-	-	-	-	1.00	1.00	-	2
Emin'	0.51 m	illion	1.00	1.00	_	_	-	-	1.00	1.00	-	2

CRITICAL LOAD COMBINATIONS:

Shear : LC #2 = .6D+W, V max = 57, V design = 57 lbs Bending(+): LC #1 = D only, M = 7 lbs-ft

Bending(+): LC #1 = D only, M = 7 lbs-ft Bending(-): LC #2 = .6D+W, M = 64 lbs-ft

Deflection: LC #2 = .6D+W (live) LC #2 = .6D+W (total)

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

All LC's are listed in the Analysis output

Load combinations: ICC-IBC

CALCULATIONS:

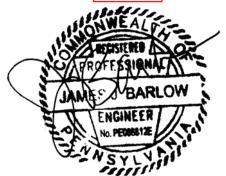
Deflection: EI = 139e06 lb-in2

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

Total Deflection = 1.50(Dead Load Deflection) + Live Load Deflection.

- 1. WoodWorks analysis and design are in accordance with the ICC International Building Code (IBC 2015), the National Design Specification (NDS 2015), and NDS Design Supplement.
- 2. Please verify that the default deflection limits are appropriate for your application.
- 3. Sawn lumber bending members shall be laterally supported according to the provisions of NDS Clause 4.4.1.









The design also meets the 2018 IBC and 2018 NDS editions.



FULL BOTTOM CHORD w/ BEAM 04/18/23

BARLOW NO. 19020 FULL BOTTOM CHICAPR. 15, 2019

ENGINEER //

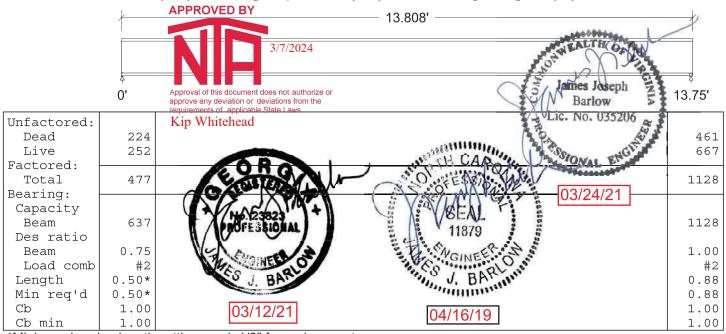
Design Check Calculation Sheet

WoodWorks Sizer 11.1

Loads:

Load	Type	Distribution	Pat-			Magnit	Unit	
			tern	Start	End	Start	End	
BC LL	Dead	Full UDL				13.3		plf
KW DL	Dead	Point		10.27		155		lbs
BC LL 1	Live	Partial UDL		0.02	10.27	13.3	13.3	plf
BC LL 2	Live	Partial UDL		10.27	13.77	26.7	26.7	plf
KW LL	Live	Point		10.27		291		lbs
BEAM DL	Dead	Point		10.98		270		lbs
BEAM LL	Live	Point		10.98		398		lbs
Self-weight	Dead	Full UDL				5.6		plf

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



^{*}Minimum bearing length setting used: 1/2" for end supports

Lumber n-ply, S-P-F, No.1/No.2, 2x10, 2-ply (3"x9-1/4")

Supports: All - Non-wood

Total length: 13.81'; Clear span: 13.692'; volume = 2.7 cu.ft.

Lateral support: top= full, bottom= full;

Analysis vs. Allowable Stress and Deflection using NDS 2015:

Criterion	Analysis Value	Design Value	Unit	Analysis/Design
Shear	fv = 59	Fv' = 135	psi	fv/Fv' = 0.44
Bending(+)	fb = 896	Fb' = 962	psi	fb/Fb' = 0.93
Live Defl'n	0.19 = L/857	0.69 = L/240	in	0.28
Total Defl'n	0.41 = L/402	0.69 = L/240	in	0.60

FULL BOTTOM CHORD

WoodWorks® Sizer 11.1

Page 2

Additional Data:

```
FACTORS:
            F/E(psi)CD
                                                                                            LC#
                            CM
                                   Ct
                                          CL
                                                  CF
                                                         Cfu
                                                                 Cr
                                                                       Cfrt
                                                                               Ci
                                                                                      Cn
 Fv'
                                                                                     1.00
            135
                    1.00
                           1.00
                                  1.00
                                                                       1.00
                                                                              1.00
                                                                                             2
 Fb'+
            875
                                         1.000
                                                         1.00
                                                                              1.00
                                                                                             2
                    1.00
                           1.00
                                  1.00
                                                 1.100
                                                                1.00
                                                                       1.00
            425
 Fcp'
                           1.00
                                  1.00
                                                                       1.00
                                                                              1.00
 Ε'
                                                                                             2
            1.4 million
                           1.00
                                  1.00
                                                                       1.00
                                                                              1.00
 Emin'
           0.51 million
                           1.00
                                  1.00
                                                                       1.00
                                                                              1.00
                                                                                             2
```

CRITICAL LOAD COMBINATIONS:

```
Shear : LC \#2 = D+L, V max = 1128, V design = 1091 lbs
```

Bending(+): LC #2 = D+L, M = 3193 lbs-ft

Deflection: LC #2 = D+L (live) LC #2 = D+L (total)

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

All LC's are listed in the Analysis output

Load combinations: ICC-IBC

CALCULATIONS:

Deflection: $EI = \frac{139e06 \text{ lb-in2/ply}}{139e06 \text{ lb-in2/ply}}$

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

Total Deflection = 1.50 (Dead Load Deflection) + Live Load Deflection.

- 1. WoodWorks analysis and design are in accordance with the ICC International Building Code (IBC 2015), the National Design Specification (NDS 2015), and NDS Design Supplement.
- 2. Please verify that the default deflection limits are appropriate for your application.
- 3. Sawn lumber bending members shall be laterally supported according to the provisions of NDS Clause 4.4.1.
- 4. BUILT-UP BEAMS: it is assumed that each ply is a single continuous member (that is, no butt joints are present) and that each ply is equally top-loaded. Where beams are side-loaded, special fastening details may be required.







The design also meets the 2018 IBC and 2018 NDS editions.



FULL BOTTOM CHORD w/ BEAM 150 mph UPLIFT BARLOW NO. 190206 FULL BOTTOM CHORD UPLIFT

Apr. 15, 2019 16:08

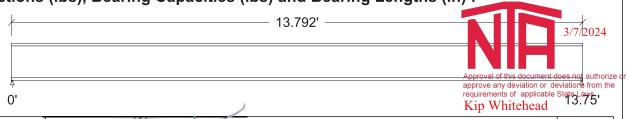
Design Check Calculation Sheet

WoodWorks Sizer 11.1

Loads:

Load	Type	Distribution	Pat-	Location	[ft]	Magnitu	de	Peril	188
			tern	Start	End	Start	End		04/18/23
BC DL	Dead	Full UDL				8.0		plf	T T
KW UP	Wind	Point		10.27		-59		lbs	
BEAM UP	Wind	Point		10.98		-63		lbs	
Self-weight	Dead	Full UDL				5.6		plf	

Maximum Reactions (lbs), Bearing Capacities (lbs) and Bearing Lengths (in) PPROVED BY



Unfactored:		ALTH COMMAN	
Dead	94		94
Wind	-28	A CO. TO STREET STREET	-94
Factored:		James Joseph 2 Stock CAROLA	
Uplift		Barlow E CO SE NOT WILL BURGA	-38
Total	94	Lic. No. 035206	94
Bearing:		1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	
Capacity		No. 623823	
Beam	637	11879 F T POUTES SIGNAL	637
Des ratio		THE RESERVE OF THE PARTY OF THE	
Beam	0.15	GINE OF THE STATE	0.15
Load comb	#1	03/24/21 RARY 11	#1
Length	0.50*	"Manualina	0.50*
Min req'd	0.50*	00/40/04	0.50*
Cb	1.00	04/16/19 03/12/21	1.00
Cb min	1.00		1.00

^{*}Minimum bearing length setting used: 1/2" for end supports

Lumber n-ply, S-P-F, No.1/No.2, 2x10, 2-ply (3"x9-1/4")

Supports: All - Non-wood

Total length: 13.79'; Clear span: 13.708'; volume = 2.7 cu.ft.

Lateral support: top= full, bottom= full;

Analysis vs. Allowable Stress and Deflection using NDS 2015:

Criterion	Analysis Value	Design Value	Unit	Analysis/Design		
Shear	fv = 4	Fv' = 121	psi	fv/Fv' = 0.04		
Bending(+)	fb = 90	Fb' = 866	psi	fb/Fb' = 0.10		
Bending(-)	fb = 19	Fb' = 1540	psi	fb/Fb' = 0.01		
Live Defl'n	-0.03 = < L/999	0.69 = L/240	in	0.04		
Total Defl'n	0.06 = < L/999	0.69 = L/240	in	0.09		

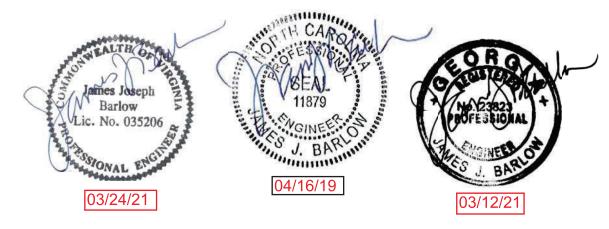
FULL BOTTOM CHORD UPLIFT

WoodWorks® Sizer 11.1

Page 2

Additiona	l Data:											
FACTORS:	F/E(p	si)CD	CM	Ct	CL	CF	Cfu	Cr	Cfrt	Ci	Cn	LC#
Fv'	135	0.90	1.00	1.00	-	-	-	-	1.00	1.00	1.00	1
Fb'+	875	0.90	1.00	1.00	1.000	1.100	1.00	1.00	1.00	1.00	-	1
Fb'-	875	1.60	1.00	1.00	1.000	1.100	1.00	1.00	1.00	1.00	-	2
Fcp'	425	-	1.00	1.00	-	-	-	-	1.00	1.00	-	_
E'	1.4 m	illion	1.00	1.00	-	-	-	-	1.00	1.00	-	1
Emin'	0.51 m	illion	1.00	1.00	-	-	-	-	1.00	1.00	-	1
CRITICAL LO	OAD COI	MBINATIO	DNS:									
Shear	: LC	#1 = D	only,	V max	=	94, V d	lesign	=	83 lbs			
Bending(-	+): LC	#1 = D	only,	M =	322 1	.bs-ft						
Bending(-												
Deflection	on: LC	#2 = .	6D+W	(live)								
	LC	#1 = D	only	(tota	1)							
D=dead L=	=live S	=snow W	=wind	I=impa	.ct Lr=r	coof liv	re Lc=c	oncent	rated	E=eart	hquake	
All LC's	are li	sted in	the A	nalysi	s outpu	ıt						
Load comb	binatio	ns: ICC	-IBC									
CALCULATION	ONS:											
Deflection	on: EI	= 1	39e06	lb-in2	/ply							
"Live" de	eflecti	on = De	flecti	on fro	māll r	on-dead	lloads	(live	e, wind	, snow	7)	
Total Def	flectio	n = 1.5	0 (Dead	Load	Deflect	cion) +	Live L	oad De	flecti	on.		
			•			,						

- 1. WoodWorks analysis and design are in accordance with the ICC International Building Code (IBC 2015), the National Design Specification (NDS 2015), and NDS Design Supplement.
- 2. Please verify that the default deflection limits are appropriate for your application.
- 3. Sawn lumber bending members shall be laterally supported according to the provisions of NDS Clause 4.4.1.
- 4. BUILT-UP BEAMS: it is assumed that each ply is a single continuous member (that is, no butt joints are present) and that each ply is equally top-loaded. Where beams are side-loaded, special fastening details may be required.







CONNECTIONS STAIR OPENING FRAMING

The design also meets the 2018 IBC and 2018 NDS editions.

NATIONWIDE CUSTOM HOMES



04/16/19

SEE ADDITIONAL CALCULATIONS FOR MEMBERS AND LOADINGS

BOTTOM CHORD TO STAIR BEAM

GRAVITY REACTION = 587 lbs

GRAVITY CONNECTION:

CHECK FASTENERS: 16d NAIL Z = 92.2 lbs (CD = 1.15, ENDGRAIN)

587 lbs = 6.4 FASTENERS

92.2 lbs/FASTENER

USE (7) 16d NAIL(S) THROUGH BEAM INTO CHORD ENDGRAIN

ALTERNATE:

7/2024

SIMPSON LUS28-2 FLOOR = 1315 lbs

1315 lbs > 587 lbs **OK**

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Kip Whitehead

APPROVED BY

from the TENSION = 1437 lbs

TENSION CONNECTION:

CHECK FASTENERS: 16d NAIL Z = 98.1 lbs (CD = 1.15, 7/16" SIDE MEMBER)

_____ 1437 lbs = 14.6 FASTENERS

98.1 lbs/FASTENER

USE (15) 16d NAIL(S) THROUGH SHEATHING INTO CUT BOTTOM CHORDS

1437 lbs x 12 / 24 in O.C. = 719 plf

CHECK FASTENERS: 16d NAIL Z = 98.1 lbs (CD = 1.15, 7/16" SIDE MEMBER)

719 plf = 7.3 FASTENERS/ft

USE (2) ROWS OF 16d NAIL(S) THROUGH SHEATHING INTO STAIR BEAM AT 3 in O.C.

SIMPSON LSTA30 TENSION = 1640 lbs

1640 lbs **<** 718.5 lbs **OK**

USE (1) SIMPSON LSTA30 ATTACHED TO EACH NARROW FACE OF BOTTOM

WRAPPED AROUND STAIR BEAM

ENGINEER No. PEOME 12E

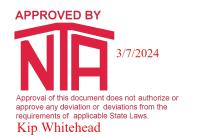
03/12/21

|03/24/21

P:\2019\190206\F712278\STAIR OPENING CONNECTIONS

ALTERNATE:

CONNECTIONS STAIR OPENING FRAMING



NATIONWIDE CUSTOM HOMES



STAIR BEAM

AT ENDS GRAVITY REACTION = 668 lbs

UPLIFT CONNECTION:

SIMPSON LUS28-2 FLOOR = 1315 lbs

04/16/19

1315 lbs > 668 lbs **OK**

TENSION LOAD = 719 plf x 4.75 ft / 2 = 1708 lbs

TENSION REACTION = 1708 lbs

TENSION CONNECTION:

CHECK FASTENERS: 16d NAIL Z = 98.1 lbs (CD = 1.15, 7/16" SIDE MEMBER)

<u>1708 lbs</u> = 17.4 FASTENERS

98.1 lbs/FASTENER

USE (18) 16d NAIL(S) THROUGH SHEATHING INTO BOTTOM CHORD SCAB

PLUS:

SIMPSON MSTA30 TENSION = 1820 lbs

1820 lbs > 1708 lbs **OK**

USE (1) SIMPSON MSTA30 ATTACHED TO SCAB ACROSS MATING LINE

BOTTOM CHORD TO MATING WALL BEAM

GRAVITY REACTION = 1128 lbs

GRAVITY CONNECTION:

CHECK FASTENERS: 16d NAIL Z = 92.2 lbs (CD = 1.15, ENDGRAIN)

1128 lbs = 12.2 FASTENERS
92.2 lbs/FASTENER

USE (13) 16d NAIL(S) THROUGH BEAM INTO CHORD ENDGRAIN

ALTERNATE:

SIMPSON LUS28-2

FLOOR = 1315 lbs

1315 lbs > 1128 lbs **OK**

03/24/21

Barlow

03/12/21

SmartExhaust™

Bath Fan/Light Switch with Ventilation Control & Delay Timer

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



Features & Benefits

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

Rocker (Part # SED-S)

Product Details

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

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

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

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

Specifications

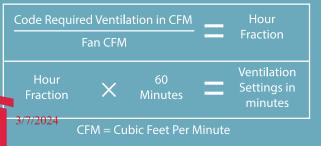
Light: 450 Watts @ 120 VAC (Blue Wire) Fan: 150 Watts @ 120 VAC (Red Wire) Operation: 120 VAC 60hz ± 10% (Red Wire) 2.5" Minimum wall box recommended

APPROVED BY Approval of this document does not authorize or approve any deviation or deviations from the requirements of applicable State Laws. Kip Whitehead Cover plate not included, use any standard switch plate



Configuring Ventilation Time

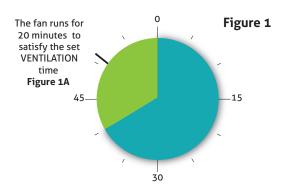
To properly set the VENTILATION time on your SmartExhaust™ you will need to know the code required CFM (Cubic Feet Per Minute) for yoapproved by home and the Fan CFM. Follow this simple equation to calculate the VENTILATION min/



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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.)

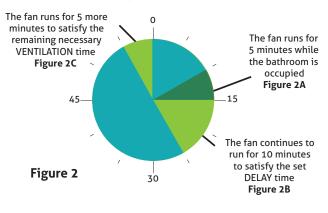


Figure 1

• The VENTILATION dial is set to 20 min/hr.

every hour with a 10 minute fan DELAY

 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).

The user wants to VENTILATE the bathroom for 20 minutes

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

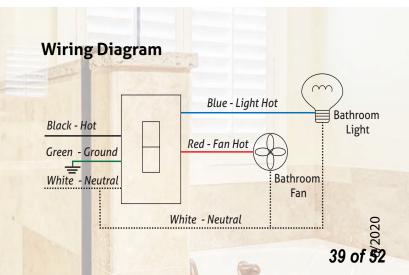
- The DELAY dial is set to 10 min/hour
- Someone uses the bathroom for 5 minutes and manually turns the SmartExhaust™ on. The microprocessor logs this 5 minutes of use. (Figure 2A)
- The occupant exits the bathroom, turning the switch off, and the SmartExhaust™ continues to run the fan for the 10 minutes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

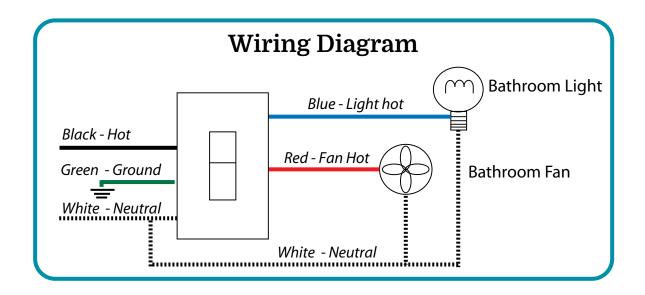
w

- 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.



^{*}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.

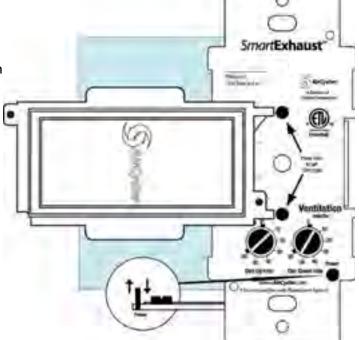
The time required to reach full brightness when turned on or full off when turned off, can be set from 0-6 seconds. Use the DELAY dial to set the dim up rate and VENTLATION dial to set the dim down rate. For example if you want it to take

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



Kip Whitehead





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

NELTA breez

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 iunction 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 8 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.
- 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
- 6. Ducted fans must always be vented to the outdoors
- 7. 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 10. insulated to a value greater than R40. (This is required for installation in Canada only).

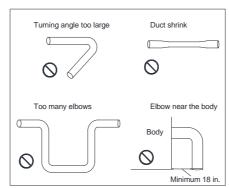
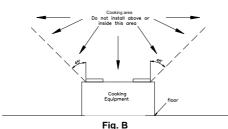


Fig. A

CAUTION

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



SUPPLIED ACCESSORIES

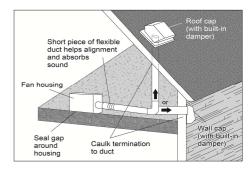
Part name	Appearance	Quantity
Grille		1
Fan & Housing		1
4" Duct	8	1
Screw (M4x12)	Ommo	3

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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

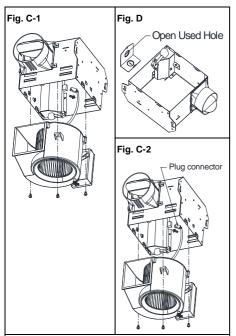
- Remove motor plate from housing by 1. removing three screws. (Fig. C-1)
- Remove wiring cover from housing by pulling straight out. Choose a hole and use a slotted screwdriver to remove it. (Fig. D)
- Follow all local electrical and safety codes. 3. NEVER place a switch where it can be reached from 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)
- 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.
- Insert the motor plug connector and locking the fan body back by using three screws. (Fig.
- 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.

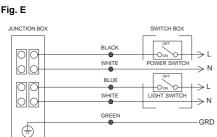


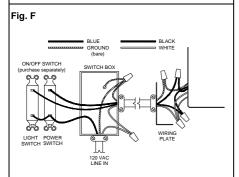


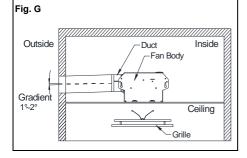
Push grille up against ceiling. When the power on, check for abnormal vibration or sound. (Fig. K)

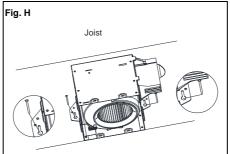
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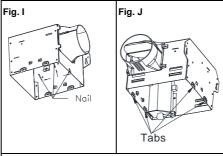


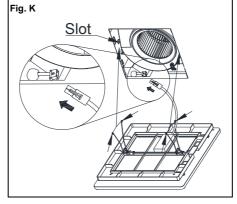












OPERATION

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:

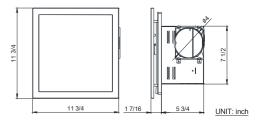
- Pull down the spring to remove the grille.
- Wash and clean the grille. (Use non-abrasive kitchen detergent and wipe dry with a new cloth.)
- 3. Remove dust and dirt from the ventilating fan using a vacuum cleaner.
- Using a cloth dampened with kitchen detergent, remove any dirt from the ventilating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

SPECIFICATIONS

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

Note: Design and specifications are subject to change without notice

DIMENSIONS



WARRANTY

DELTA ELECTRONICS THREE YEAR LIMITED WARRANTY

Delta Electronics Inc.("Delta Electronics") warrants 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

- 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 service.
- 2. 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 point.
- 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.
- 4. This warranty does not extend to fluorescent lamp starters and tubes.
- The warranty does not cover if user does not comply with manufacture's installation manual.
- To qualify for warranty service, you must notify Delta Electronics at the address or telephone number below.
- 7. Delta Electronics shall have no liability to the original owner-user with respect to any defect caused by abuse, misuse, neglect, improper transportation or storage, improper testing, improper installation, improper operation, improper use, improper maintenance, improper repair, improper alteration, improper modification, tampering or accident of products or parts thereof, or unusual deterioration or degradation of products or parts thereof due to a physical environment beyond the requirements of products' specifications.

Address: 46101 Fremont Boulevard, Fremont, CA 94538

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



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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 rpmColors: 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

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Manual Foundation Vents - Plastic



ACCORDION DAMPER MODEL: 101

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



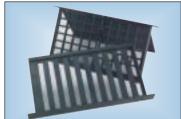
HEAVY-DUTY SLIDER MODEL: 303

- 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)

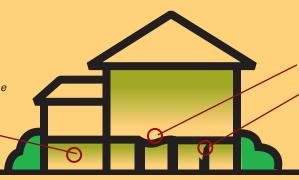
- 7" x 12" vent for 6" x 11" opening
- NFA 23"
- Colors: black, brown, gray

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

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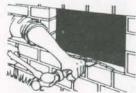
©2004 Air Vent, Inc. RAV065-6/04

AUTOMATIC VENT INSTALLATION INSTRUCTIONS

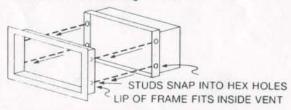
SERIES-5 2-PIECE VENT WITH REMOVABLE FRAME

1. 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

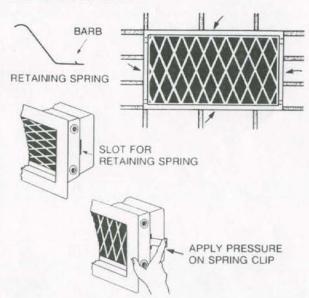




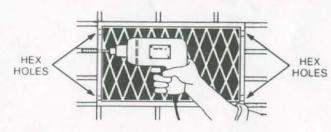
2. Remove frame from vent by pulling up or by inserting blade between frame and vent on outside and twisting. Be careful not to damage screen.



3. 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.

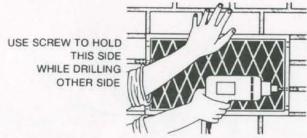


4. Insert vent into foundation opening either from the outside of the crawl space or from the inside. Be sure it fits easily. DO NOT USE FORCE. Hold TIGHTLY against the wall after adjusting for alignment. Using a 1/4" masonry carbide tipped bit, drill through the vent into a mortar joint on each side. 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.

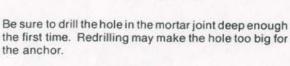


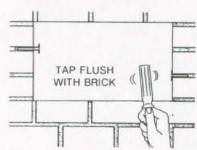
NOTE:

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.

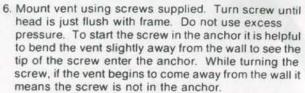


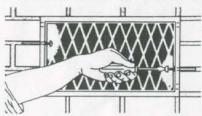
Be sure to drill the hole in the mortar joint deep enough the first time. Redrilling may make the hole too big for the anchor.



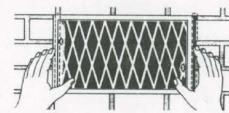


5. Remove the vent from the wall temporarily. Blow loose material out of the holes and insert the screw anchors. Tap the anchors all the way flush with the brick using a screw driver handle.





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

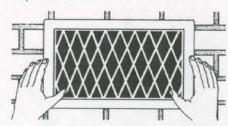


8. Replace the frame.

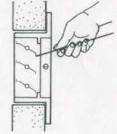
3/7/2024

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9. 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: #196763 Rescue Construction Clara "C"	Model Home / Lot Model
3rd Party: NTA, Inc.	Nitodel Home / Bot Model
Review Date:	
Reviewer: Kip Whitehead	
	Plan Sheet Page No. and Notes
QC MANUAL (Current and Complete)	Yes
(carrons and company)	
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-22
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 & 21
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-11 & 12
Supply and waste risers	DWV PLAN - PAGE-11 & 12
Water heater (type and capacity) 50 Gallon Electric (Installed)	RISER DIAGRAM - PAGE-12
	50 of 52

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-9
Location of all electrical boxes	ELECTRICAL PLAN - PAGE-9
Electrical panel location	FLOOR PLAN & ELEC PAGE 3 & 9
Note regarding main disconnect (if applicable)	FLOOR PLAN & ELEC PAGE 3 & 9
Exterior lighting and receptacles	ELECTRICAL PLAN - PAGE-9
Ground level receptacles (if applicable)	FOUNDATION - PAGE-2
Smoke detector location(s)	ELECTRICAL PLAN - PAGE-9
Electical load calculations	ELECTRICAL CALCULATIONS - PAGE-23
Electrical panel layout (breaker and wire sizes, circuit schedules)	ELECTRICAL PLAN - PAGE-9
Panel and service entrance sizes	ELECTRICAL PLAN - PAGE-9
All fixtures furnished by mfg. shown on plans	ELECTRICAL PLAN - PAGE-9
ACCESSIBILITY (for other than 1 & 2 family dwelling)	N/A
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-21
Materials species and grade	SECTION - PAGE-21
Sheathing, decking, and concrete as applicable	SECTION - PAGE-21
Fastening instructions	SECTION - PAGE-21
Insulation	SECTION - PAGE-21
Details as required for clarification	SECTION - PAGE-21
WALL X-SECTION	CHCITION DAGE 24
Stud and column sizes and spacing	SECTION - PAGE-21
Materials species and grade	SECTION - PAGE-21
Sheathing and bracing	SECTION - PAGE-21
Headers and lintels	SECTION - PAGE-21
Finishes	SECTION - PAGE-21
Fastening instructions	SECTION - PAGE-21
Insulation	SECTION - PAGE-21
Details as required for clarification	DETAIL PAGES: 4, 5, 13, 14, 15, 16, 17, 18,
	19 & 20 51 of 52

NORTH CAROLINA MODULAR PLANS REVIEW CHECKLIST

Page 3 of 3

Revised June 2018

	1
CELLING / DOOE V CECTION	
CEILING / ROOF X-SECTION	CECTION DACE 24
Truss, rafter, and beam spacing	SECTION - PAGE-21
Lumber species and grade	SECTION - PAGE-21
Sheathing and decking	SECTION - PAGE-21
Finishes	SECTION - PAGE-21
Fastening instructions	SECTION - PAGE-21
Insulation	SECTION - PAGE-21
Details including NC sealed truss designs or manual reference	CALCULATIONS MANUAL
FOUNDATION PLAN	
Footings, pier, and curtain wall locations and specifications	FOUNDATION - PAGE-2
X-sections with dimensions	FOUNDATION, SECTION - PAGE-2 & 21
Anchorage - sill plate to piers and curtain wall	COVER SHEET - PAGE-1
Anchorage - building to sill plate	FOUNDATION, SECTION - PAGE-2 & 21
Anchorage - tie downs (lateral and logitudinal)	FOUNDATION, SECTION - PAGE-2 & 21
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