



ENGINEERING • INSPECTIONS
CERTIFICATIONS • TESTING

February 7, 2022

New Baxley, LLC
DBA Impact Housing
137 West Park Dr.
Baxley, GA 31513

RE: Manufacturer: New Baxley/Impact Housing
S/N Size & Occupancy: 1668004GSH; IHG-32FL; 15'-4" X 68'-0"; SFD
HWC Plan #: 2773-0040F

To Whom It May Concern:

This is to certify that the plans for the referenced manufactured building have been reviewed and approved as being in compliance with the 2020 Florida Codes with 2021 Supplement and Standards, as noted on the approved drawings, subject to the following limitations:

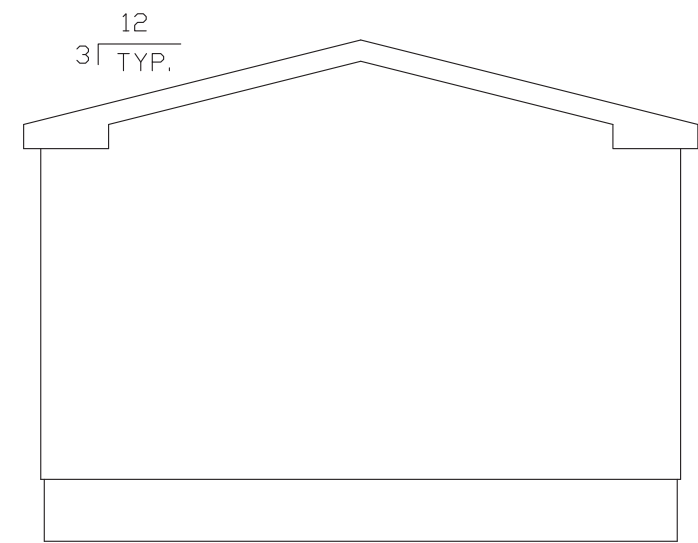
1. Approval covers factory-built structure only. (Note: Any alterations to factory built structure on site voids state approval)
2. Items installed at the site are subject to review, approval, and inspection by the local authority having jurisdiction.
3. The Chapter 633 Plan Review and Inspection shall be conducted by the local fire safety inspector.
4. Signed and sealed plans shall be on file with HWC Engineering.
5. NOT approved for High Velocity Hurricane Zone (i.e. Broward and Dade Counties)

Sincerely,
HILBORN, WERNER, CARTER & ASSOCIATES, INC.

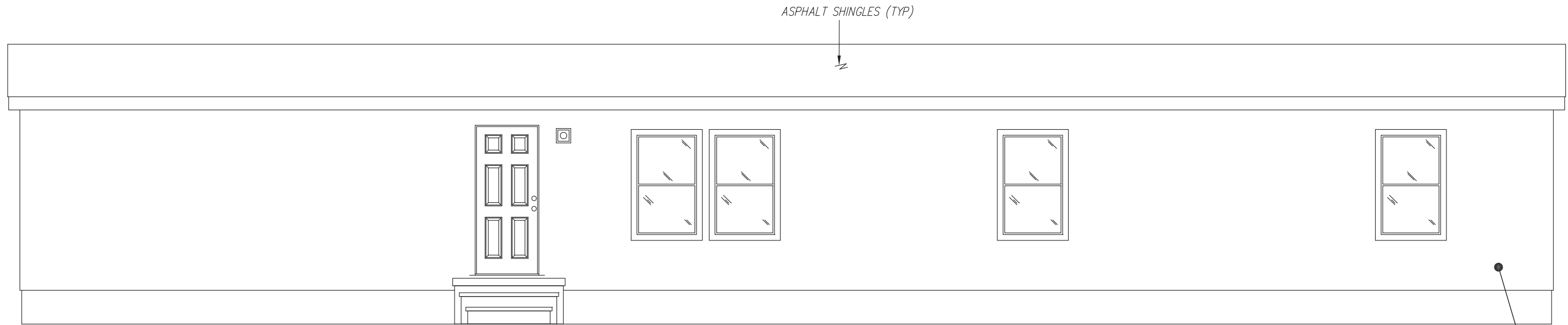


Plan Reviewer

HILBORN, WERNER, CARTER AND ASSOCIATES, INC.
1627 SOUTH MYRTLE AVENUE CLEARWATER, FLORIDA 33756
(727) 584-8151
FAX: (727) 588-3343 / (727) 585-2392 / (727) 587-0447
Modular Design Inspection



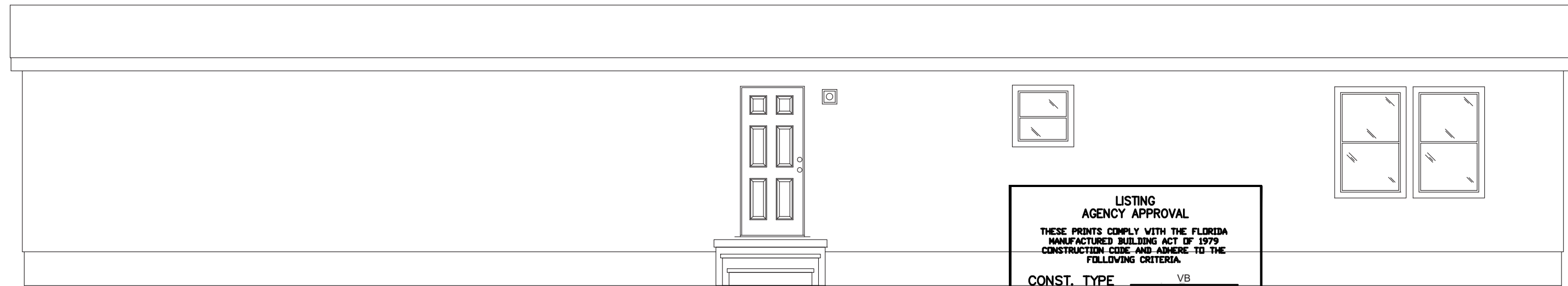
LEFT ELEVATION



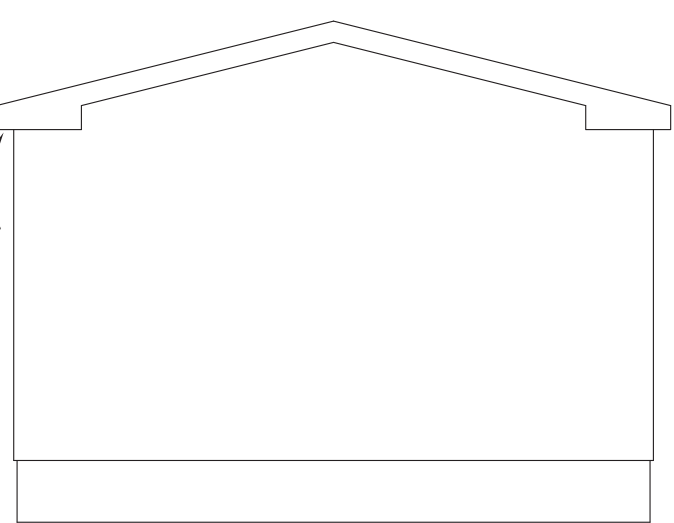
REAR ELEVATION

STAIRS, HANDRAILS AND GUARDS TO BE SITE
INSTALLED AND SPECIFIED/DESIGNED BY OTHERS-TYP

VINYL SIDING, CEMPLANK LAP SIDING, CEMPANAL PANEL SIDING,
HARDIPLANK LAP SIDING, OR HARDIPANEL PANEL SIDING (TYP.)



FRONT ELEVATION



RIGHT ELEVATION

Date 02-07-22 Plan No. 2773-0040F
Approved By SCOTT S. FRANCIS

Modular Building Plans Examiner
Florida License No. SMP-42

LISTING AGENCY APPROVAL	
THESE PRINTS COMPLY WITH THE FLORIDA MANUFACTURED BUILDING ACT OF 1979 CONSTRUCTION CODE AND ADHERE TO THE FOLLOWING CRITERIA	
CONST. TYPE	VB
OCCUPANCY	SFD
ALLOWABLE NO. OF FLOORS	1
RISK CATEGORY	II
WIND VELOCITY (ULT)	150
WIND VELOCITY (ASD)	116
FIRE RATING OF EXT. WALLS	0
PLAN NO.	2773-0040F
ALLOW. FLOOR LOAD	40
APPROVAL DATE	02-07-2022
MANUFACTURER	New Baxley
HIGH VELOCITY HURRICANE ZONE	NO

IWC
MUR-261



2/1/22

WILLIAM J.
KALKER,
JR., P.E.

Digitally signed by WILLIAM J.
KALKER, JR., P.E.
DN: cn=William J.
KALKER, JR., P.E., o=W.J.
KALKER, JR., P.E.
Reason: I am the author of this
document
Location: your signing location here
Date: 2022.02.01 15:15:29-0500'
Format: PDF Reader Version: 11.2.1

NOTE: THIS STRUCTURE IS A MODULAR (FACTORY-BUILT) BUILDING WHICH IS TO BE
CONSTRUCTED AND INSPECTED IN ACCORDANCE WITH AN APPROVED THIRD-PARTY
QUALITY ASSURANCE PROGRAM TO INSURE COMPLIANCE WITH THE REFERENCED
CODES AND STANDARDS.

ELEVATION NOTES: Typical

See cross section for method of roof ventilation.

Handicap ramp(s), Stair(s), and Handrails are site
installed, designed by others, and subject to local
jurisdiction review and approval.

Foundation enclosure (when provided) must have 1
square foot net vent area per 1/150th of the floor
area and an 18"x24" minimum crawl space access,
site installed by others, subject to local jurisdiction,
review & approval. (min 7.0 ft² net vent area req'd)

DRAWING INDEX:

DRAWING #1 ELEVATIONS
DRAWING #2 FLOOR PLAN
DRAWING #3 ELECTRICAL PLAN
DRAWING #4 FLOOR FRAMING
DRAWING #5 PLUMBING
DRAWING #6 CROSS SECTION
DRAWING #7 DETAILS
DRAWING #8 DETAILS

NOTE: THE FLOOR AND ROOF DESIGN OF THIS BUILDING
IS 'LIGHT-FRAME' TRUSS-TYPE CONSTRUCTION'
AS REFERENCED IN FAC RULE 69A-3.012(6). THE
POSTING OF NOTICE SIGN(S) AS REQUIRED BY
FAC RULE 69A-3.012(6) SHALL BE SITE-INSTALLED
AND IS THE RESPONSIBILITY OF THE BUILDING OWNER.

NOTE: ALL MATERIALS USED IN THE CONSTRUCTION
OF THIS BUILDING WHICH ARE COVERED BY THE
FLORIDA BUILDING COMMISSION FAC 61G20-3
RULES SHALL HAVE A CURRENT FLORIDA PRODUCT
APPROVAL AND/OR SHALL BE APPROVED IN AC-
CORDANCE WITH FS 553.8425

NOTE: BUILDING IS DESIGNED TO MEET THE THERMAL
ENVELOPE PRESCRIPTIVE REQUIREMENTS OF THE
2020 FBC-ENERGY CONSERVATION, 7TH EDITION,
FOR CLIMATE ZONES 1 AND 2

NOTE: THIS STRUCTURE CANNOT BE LOCATED ON THE
UPPER HALF OF AN 'ISOLATED HILL, RIDGE OR
ESCARPMENT' WHICH IS EQUAL TO OR HIGHER
THAN 15 FEET IN EXPC OR EXPD LOCATIONS
OR EQUAL TO OR HIGHER THAN 60 FEET IN
EXPB LOCATIONS

THIS STRUCTURE CANNOT BE LOCATED ON THE SEAWARD
SIDE OF THE COASTAL CONSTRUCTION CONTROL LINE

STATE OF FLORIDA

CODE: 2020 FBC, RESIDENTIAL WITH 2021
SUPP. (7TH EDITION) AND 2017 NEC

FLOOR LIVE LOAD: 40 PSF
FLOOR DEAD LOAD: 10 PSF
ROOF LIVE LOAD: 20 PSF
ROOF DEAD LOAD: 7 PSF
ATTIC LIVE LOAD: 10 PSF
ATTIC DEAD LOAD: 7 PSF
WIND SPEED Vult: 150 MPH, EXPC
(3 SEC. GUST; ENCLOSED BLDG)

OCCUPANCY GROUP: SINGLE FAMILY DWELL.
CONSTRUCTION TYPE: WOOD FRAME
RISK CATEGORY: II (PER ASCE 7-16)
MEAN ROOF HEIGHT NOT TO EXCEED 15' ABOVE GRADE
COMPONENT & CLADDING DESIGN LOADS (ASD):
WALL ZONE 4: 31.9 PSF WALL ZONE 5: 39.4 PSF
ROOF ZONE 1: 54.2 PSF ROOF ZONE 2: 79.2 PSF
ROOF ZONE 3: 94.1 PSF

SEISMIC DESIGN CATEGORY: A AND B
Not to be located in coastal or flood hazard areas
or in HIGH VELOCITY HURRICANE ZONES

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

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

FOUNDATION NOTES

IN ACCORDANCE WITH THE REQUIREMENTS OF THE
FLORIDA DEPARTMENT OF BUSINESS AND PROFESSIONAL
REGULATION, THESE BUILDING PLANS DO NOT CONTAIN
FOUNDATION SUPPORT AND TIEDOWN SYSTEM DETAILS
AND SPECIFICATIONS.

THE DESIGNER OF THE BUILDING PLANS SHOULD BE
CONTACTED TO OBTAIN APPROPRIATE FOUNDATION
PLANS. IF FOUNDATION PLANS ARE DESIGNED BY
OTHERS, THE DESIGNER OF THE BUILDING PLANS SHALL
NOT BE HELD RESPONSIBLE OR LIABLE FOR THE
FOUNDATION DESIGN AND THE CONSEQUENTIAL PER-
FORMANCE OF THE SUPERSTRUCTURE'S STRUCTURAL
COMPONENTS AND SYSTEMS RELATED THERETO.

THE FBC-R CODE REQUIRES THAT ALL BUILDINGS
LOCATED IN AREAS WITH WIND SPEEDS (Vult) EQUAL
TO OR GREATER THAN 140 MPH AND ALL BUILDINGS
LOCATED IN AREAS WITH WIND SPEEDS (Vult) EQUAL
TO OR GREATER THAN 130 MPH WHICH ARE WITHIN
ONE MILE OF THE COASTAL MEAN WATER LINE MUST
BE PROVIDED WITH EITHER OF THE FOLLOWING:

- (1) IMPACT RESISTANT GLAZING COMPLYING
WITH AN IMPACT GLAZING STANDARD,
ASTM E1996 AND ASTM E1886 AS
MODIFIED IN SECTION 3012.1.2.1,
TAS 201, TAS 202 AND TAS 203 OR
AAMA 506
- (11) STORM PROTECTION WOOD STRUCTURAL
PANELS (IE, MIN. 7/16" OSB OR PLY-
WOOD) PRECUT TO FIT THE GLAZING
OPENINGS WITH THE ATTACHMENT HARD-
WARE PROVIDED. THE PROTECTIVE
PANELS MUST BE INSTALLED IN ACCOR-
DANCE WITH THE FASTENING SPECIFICA-
TIONS PROVIDED IN THE EXCEPTION
LISTED IN SECTION R3012.1.2.

NOTE, THE STORM PROTECTIVE PANELS MAY BE
PROVIDED BY THE LOCAL CONTRACTOR OR
INSTALLER RATHER THAN THE BUILDING MANUFAC-
TURER.

IN ADDITION, EXTERIOR WINDOWS AND DOORS MUST
BE DESIGNED TO RESIST THE DESIGN WIND LOADS
SPECIFIED IN TABLE R3012(2) OF THE FBC-R CODE
ADJUSTED FOR HEIGHT AND EXPOSURE PER TABLE
R3012(3) OF THE FBC-R CODE.

ALL EXTERIOR WINDOWS AND GLASS DOORS MUST
BE TESTED AND APPROVED BY AN APPROVED
INDEPENDENT LABORATORY AND BEAR A LABEL
INDICATING COMPLIANCE WITH AAMA/WDMA/CSA
101/1.5.2/A440 OR TAS 202 (HVHZ SHALL COMPLY
WITH TAS 202 AND ASTM E1300)

BUILDING SITE INSTALLATION REQUIREMENTS ATTENTION LOCAL INSPECTIONS DEPARTMENT:

The following items have not been completed by
the building manufacturer, have not been inspected
by the third party inspection agency and are not
certified by the state modular label and/or certi-
fication. Code compliance for these items must be
determined at the local level:

- 1) The completed foundation support system and
tiedown and/or anchorage system.
- 2) Ramps, stairs and general access to the building.
- 3) Building drains, cleanouts and hook-ups to plumb-
ing system, and finish plumbing.
- 4) Electrical service hook-up (including feeders and
the main Electrical Panel).
- 5) Connection of electrical circuits crossing over
modular mating lines (multi-wide units only).
- 6) Structural and aesthetic interconnections between
modules (multi-units only).
- 7) Installation of insulation at floor, ceiling and end-
walls at mating lines (multi-wide units only).
- 8) Install R6.5 insulation on all piping installed in
unconditioned spaces.
- 9) Install firestopping at all module mate lines at the
marriage wall ceiling height and at the floor system.
- 10) Crawl space light and switch
- 11) HVAC system crossover ducts, and HVAC systems;
HVAC system energy code compliance documentation
to be provided by the HVAC designer
- 12) Ridge vents must be installed in accordance with
the vent manufacturers instructions.
- 13) Storm Protection Panels Required For Glazed Openings
- 14) Lamps in permanent light fixtures to be site-installed.
- 15) On-site fastenings and framing at gable walls,
truss transitions and/or hinged trusses.
- 16) Window Guards when required (see notes on Dwg #2)
- 17) Hose Bibbs and Backflow Preventors
- 18) Foundation Design
- 19) Floor Insulation
- 20) Installation of Air Admittance Valves After Drainage
System Testing
- 21) Communications Outlet and Cable to be site-installed
- 22) Low Velocity Blade Fans
- 23) Fire Separation Distance for building to be 3 feet min-
imum from the property line or assumed property line
- 24) Thermal Envelope Blower Door Testing and Whole House
Ventilation System to be Performed/Installed On-Site

NEW BAXLEY, LLC DBA IMPACT HOUSING 137 WEST PARK DR. BAXLEY, GA. 31513		
DATE: 1/27/22		
CODES: FBC		
LABELS: FL	REVISIONS:	DRAWN BY:
SCALE: NTS	2/1/22	C.A. Leblanc
MODEL: 1668004GSH ELEVATIONS	PLAN NO. IHG-32FL	SHEET
WILLIAM J. KALKER, JR., P.E. CONSULTING ENGINEER		33 ROCKWOOD LANE MONROE, CT 06468 (203) 261-1167
		I OF 8

[illegible]

WINDOW SCHEDULE					
WIDTH	HEIGHT	TYPE	LIGHT SQ FT	VENT SQ FT	
30"	30"	Single hung	4.97	2.45	
30"	60"	Single hung	9.95	4.91	
36"	60"	Single hung	12.21	5.99	
30"	40"	Single hung	6.28	3.02	
30"	30"	Single hung	4.45	2.07	
36"	36"	Single hung	6.81	3.22	
46"	60"	Single hung	16.07	7.84	
40"	60"	Single hung	13.71	6.71	
30"	27"	Single hung	3.90	1.78	

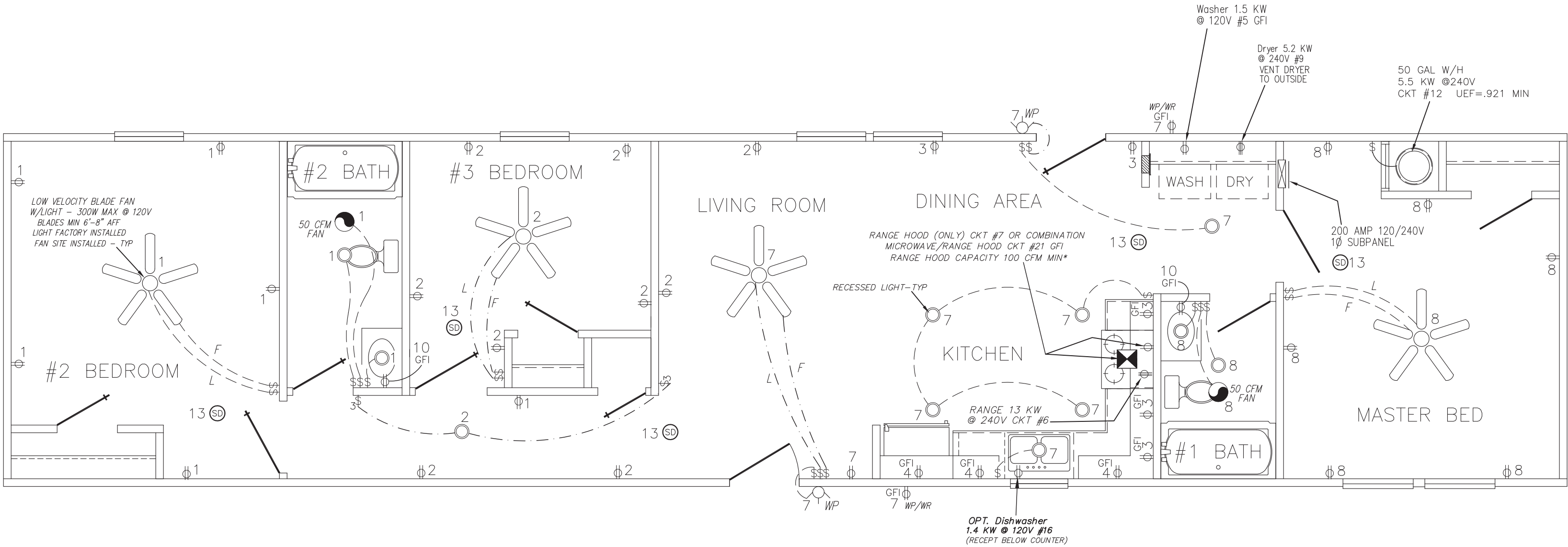
SUPPLEMENTAL NOTES:

WHEN THE TOP OF THE SILL OF AN OPERABLE WINDOW OPENING IS LOCATED MORE THAN 72 INCHES ABOVE THE FINISHED GRADE AND IS LOCATED LESS THAN 24 INCHES ABOVE THE FINISHED FLOOR, THE WINDOW MUST BE PROVIDED WITH A WINDOW FALL PREVENTION DEVICE OR AN OPENING CONTROL DEVICE THAT COMPLIES WITH ASTM F2090. EGRESS WINDOWS MUST BE PROVIDED WITH AN OPENING CONTROL DEVICE THAT PERMITS THE WINDOW TO STILL COMPLY WITH THE MINIMUM EGRESS WINDOW OPENING REQUIREMENTS SPECIFIED IN CODE SECT. R310.2

*NOTE: All windows to be single hung w/insulated glazing
All egress windows must comply w/FBC-R
Section R310 with the distance from the
the finished floor to the bottom of the
egress opening not exceeding 44 inches)
(Kinro Series 9750 Low E Vinyl with U=.35 & SHGC = .25)
All Exterior doors to be insulated with U=.35 except Sliding
Glass Doors and Atrium Doors to have U=.35 and SHGC=.25
NOTE: All windows and sliding glass doors shall have
an infiltration rate not exceeding .3 CFM
per square foot and swinging doors not
exceeding .5 CFM per square foot when
tested per NFRC 400 or AAMA/WDMA/CSA
101/I.S.2/A440.
All Interior partitions 2x4 studs @ 16" O.C. SPF #3
min. unless otherwise noted.
All straps referenced on the floor plan are
1-1/2" x 26 GA steel with 8-15 GA x 1" staples
each end from ridge beam to stud and stud
to edge joist(s) or from header to stud and
stud to edge joist(s) - typical unless noted
otherwise (steel strap Fy = 36 KSI MIN)*

LISTING	
AGENCY APPROVAL	
THESE PRINTS COMPLY WITH THE FLORIDA MANUFACTURED BUILDING ACT OF 1979 CONSTRUCTION CODE AND ADHERE TO THE FOLLOWING CRITERIA.	
CONST. TYPE	VB
OCCUPANCY	SFD
ALLOWED NO. OF FLOORS	1
RISK CATEGORY	II
WIND VELOCITY (ULT)	150
WIND VELOCITY (ASD)	116
FIRE RATING OF EXT. WALLS	0
PLAN NO.	2773-0040F
ALLOW. FLOOR LOAD	40
APPROVAL DATE	02-07-2022
MANUFACTURER	New Baxley
HIGH VELOCITY HURRICANE ZONE	NO

NEW BAXLEY, LLC DBA IMPACT HOUSING 137 WEST PARK DR. BAXLEY, GA. 31513			
DATE: 1/27/22		REVISIONS: 1/31/22 2/1/22 DRAWN BY:	
CODES: FBC			
LABELS: FL			
SCALE: 1/4" = 1'-0"		MODEL: 1668004GSH FLOOR PLAN	
		PLAN NO. IHG-32FL	SHEET
WILLIAM J. KALKER, JR., P.E. CONSULTING ENGINEER		33 ROCKWOOD LANE MONROE, CT 06468 (203) 261-1167	2 OF 8



NOTE: ALL BRANCH CIRCUITS SUPPLYING 15 AND 20 AMP OUTLETS IN KITCHENS, FAMILY ROOMS, DINING ROOMS, LAUNDRY AREAS, LIVING ROOMS, LIBRARIES, DENS, BEDROOMS, CLOSETS, SUN ROOMS, HALLWAYS, RECREATION ROOMS OR SIMILAR AREAS MUST BE PROTECTED BY AN ARC-FAULT CIRCUIT INTERRUPTER IN ACCORDANCE WITH SECTION 210.12 OF THE NEC. (CIRCUITS 1, 2, 3, 4, 5, 7, 8, 13, 16 AND 21 MUST BE PROTECTED BY AN ARC-FAULT TYPE CIRCUIT BREAKER)

NOTE: THE HVAC SYSTEM IS TO BE SITE INSTALLED AND DESIGNED BY OTHERS, SUBJECT TO LOCAL BUILDING OFFICIAL REVIEW AND APPROVAL. (HVAC SYSTEM TO BE ALL ELECTRIC - GAS OR OIL FUEL NOT PERMITTED)

ELECTRICAL NOTES: NEC

- All circuits and equipment shall be grounded in accordance with the appropriate articles of the NEC.
- When light fixtures are installed in closets they shall be surface mounted or recessed. Incandescent fixtures shall have completely enclosed lamps. Surface mounted incandescent fixtures shall have minimum clearance of 12 inches and all other fixtures shall have a minimum clearance of 8 inches from the "Closet Storage Space" as defined by NEC 410-2.
- When water heaters are installed they shall be provided with readily accessible disconnects adjacent to the water heaters served. The branch circuit switch or circuit breakers shall be permitted to serve as disconnecting means only where the switch or circuit breaker is within sight from the water heater or is capable of being locked in the open position.
- HVAC equipment shall be provided with readily accessible disconnects adjacent to the equipment served. A unit switch with a marked "OFF" position that is a part of the HVAC equipment and disconnects all ungrounded conductors shall be permitted as the disconnecting means where other disconnecting means are also provided by a readily accessible circuit breaker.
- Prior to energizing the electrical system the interrupting rating of the main breaker must be designed and verified by as being in compliance with section 110-9 of the NEC by local electrical consultant.
- The main electrical panel, service disconnect (main circuit breakers) and feeders are site installed, designed by others and subject to local jurisdiction review and approval.
- All circuits crossing over modular mating line(s) shall be site connected with approved accessible junction boxes, located below the floor or in the attic.
- All circuits to be copper NM except HVAC and Range circuits to be copper SE cable. (75°C).
- Light and switch to be site-installed in the crawl space near the crawl space access door (light to be connected to any of the installed general lighting circuits).
- Receptacles installed in wet locations must be in a weatherproof enclosure the integrity of which is not affected when the attachment plug cap is inserted or removed. All 15 amp and 20 amp receptacles installed on the exterior of the building shall be listed as 'Weather Resistant'.
- Smoke alarms must be wired to activate all alarms simultaneously if any alarm is activated. All smoke alarms located within twenty feet of a cooking appliance shall be the photoelectric type.
- All fans must be ducted to the exterior of the building and terminate at an approved vent cap.
- Carbon monoxide alarms must have an audible alarm and must be listed to comply with either ANSI/UL 2034 or UL-2075.
- Minimum of 90% of lamps in permanently installed lighting fixtures shall have an efficacy of not less than 65 lumens per watt.
- A Communications Outlet and Cable to the Outlet to be Site-Installed.
- Recessed luminaires installed in the thermal envelope shall be sealed to limit air leakage to not more than 2 CFM per ASTM E283 at a 1.57 psf pressure differential and shall be IC-rated and labeled.

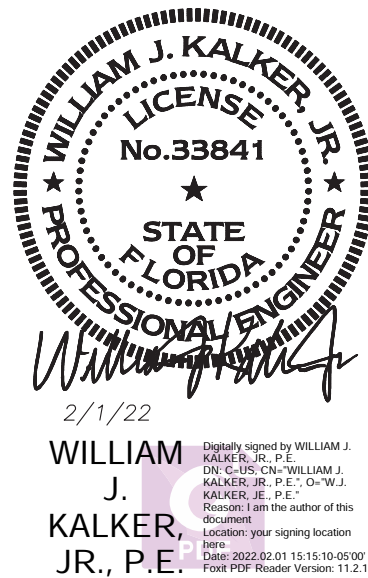
*HOOD EXHAUSTS TO EXTERIOR OF BUILDING

NOTE: ALL RECEPTACLES INSTALLED ON 15 AMP AND 20 AMP CIRCUITS MUST BE LISTED AS "TAMPER RESISTANT"

NOTE: ALL APPLIANCES AND ELECTRICAL EQUIPMENT MUST BE INSTALLED IN ACCORDANCE WITH THE LISTINGS

LISTING AGENCY APPROVAL	
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HIGH VELOCITY HURRICANE ZONE	NO

IWC
MUR-261



PANEL SIZING

1042 Sq. Ft. @ 3 watts/Sq. Ft.	3.13 KW
3-20 AMP Appliance circuits	4.50 KW
Laundry circuit	1.50 KW
Range	13.00 KW
Clothes Dryer	5.20 KW
Water Heater	5.50 KW
Opt. Dishwasher	1.40 KW
Fans	2.10 KW
TOTAL	36.33 KW

$$\begin{aligned} \text{First 10 KW @ 100\%} &= 10.00 \text{ KW} \\ \text{Remainder @ 40\% (26.33)(.4)=} &= 10.53 \text{ KW} \\ \text{Assumed HVAC (max)} &= 15.90 \text{ KW} \\ \text{TOTAL} &= 36.43 \text{ KW} \end{aligned}$$

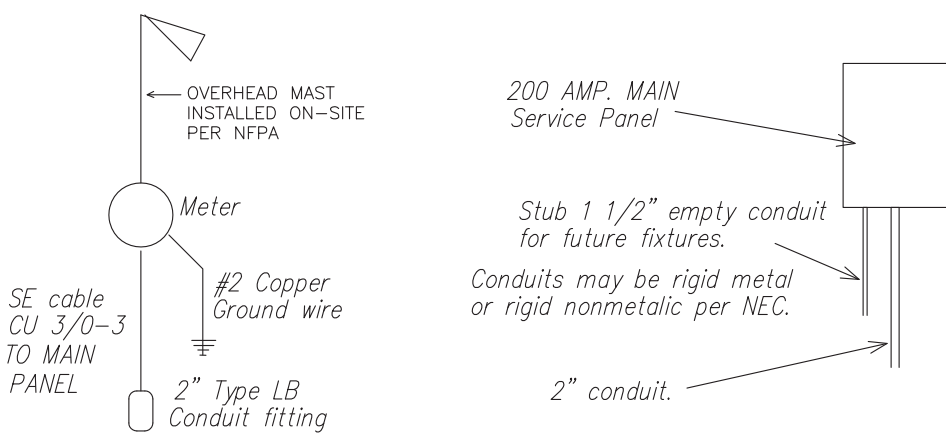
Calculated Load for service size
36.430 w/240 volts= 151.8 Amperes
200 AMP service standard

ELECTRICAL LEDGEND

- \$ Light Switch
- ⊖ Duplex Recept
- ⊖ 240V Recept
- ⊖ Thermostat
- ⊖ Smoke Alarm w/Battery Backup
- ⊖ Porch light W/P
- ⊖ Incandescent Light
- ⊖ Exhaust fan w/Light
- ⊖ Panel box
- ⊖ Exhaust fan
- ⊖ Fluorescent Light
- ⊖ Range hood w/Exhaust Fan and Light

NOTE: NOT ALL CIRCUITS LISTED IN CIRCUIT SCHEDULES ARE USED IN THE ELECTRICAL PLAN ABOVE

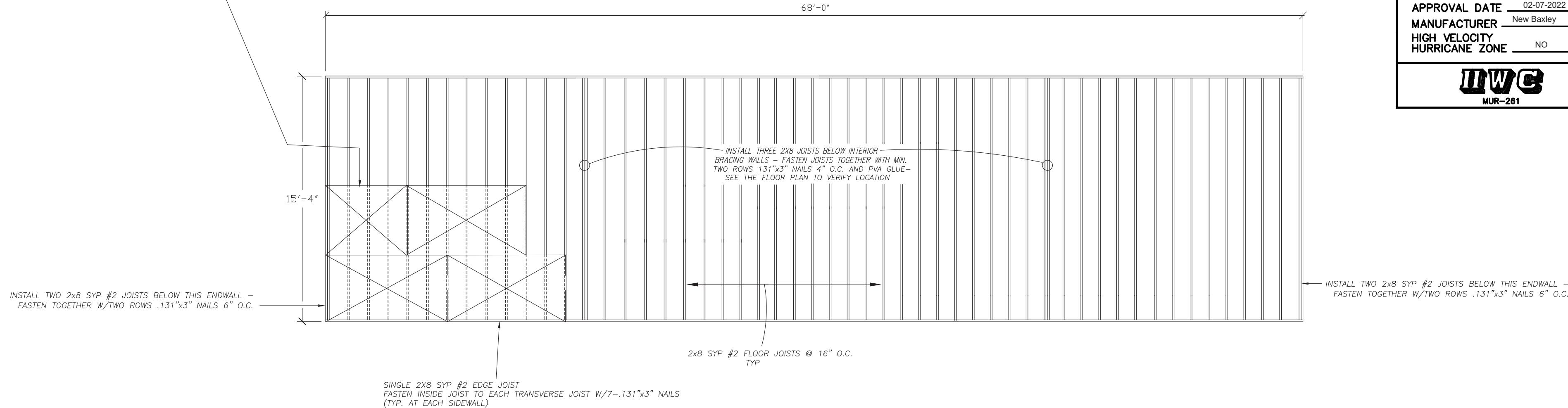
CIR	DESCRIPTION	COND.	SIZE (CU)	BRK(A)
1,2	General Lighting	14-2	w/GND	15
3,4	Small Appliance	12-2	w/GND	20
5	Washer	12-2	w/GND	20 GFI
6	Range	8-3	w/GND	40 2P
7,8	General Lighting	14-2	w/GND	15
9	Dryer	10-3	w/GND	30 2P
10	Bath	12-2	w/GND	20
12	Water Heater	10-2	w/GND	30 2P
13	Smoke Alarms	14-2	w/GND	15
14,15	General Lighting	14-2	w/GND	15
16	Dishwasher (opt)	12-2	w/GND	20 GFI
17	Freezer (opt)	12-2	w/GND	20
18,19	General Lighting	14-2	w/GND	15
20	Small Appliance	12-2	w/GND	20
21	Microwave	12-2	w/GND	20 GFI



NEW BAXLEY,LLC DBA IMPACT HOUSING 137 WEST PARK DR. BAXLEY, GA. 31513

DATE: 1/27/22	REVISIONS: 2/1/22	DRAWN BY:
CODES: FBC		
LABELS: FL		
SCALE: 1/4" = 1'-0"		
MODEL: 1668004GSH ELECTRICAL PLAN	PLAN NO. IHG-32FL	SHEET 3 OF 8
WILLIAM J. KALKER, JR., P.E. CONSULTING ENGINEER	33 ROCKWOOD LANE MONROE, CT 06468 (203) 261-1167	

19/32" PLYWOOD SHEATHING PERPENDICULAR TO JOISTS W/ NEXT ROW STAGGERED
@ MIN. 2'-8" (STURDIFLOOR, EXP 1, 20" O.C.) T&G EDGES FASTENED W/ 100% PVA FLUE
AND .120" X 2-1/2" NAILS @ 6" O.C. EDGES AND FIELD
OR
19/32" OSB SHEATHING PERPENDICULAR TO JOISTS W/ NEXT ROW STAGGERED
@ MIN. 2'-8" (STURDIFLOOR, EXP 1, 20" O.C.) T&G EDGES FASTENED W/ 100% PVA FLUE
AND .120" X 2-1/2" NAILS @ 6" O.C. EDGES AND FIELD



FRONT

FLOOR FRAMING PLAN



2/27/22

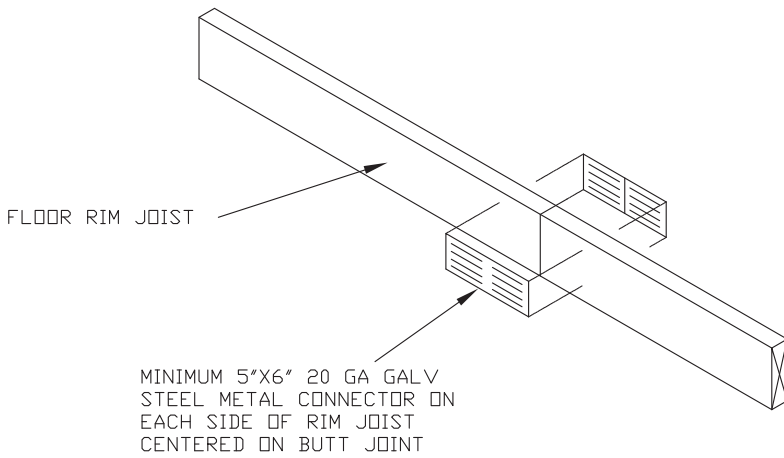
WILLIAM J. KALKER, JR., P.E.

Digitally signed by WILLIAM J. KALKER, JR., P.E.
DN: C=US, CN=WILLIAM J. KALKER, JR., P.E., O=W.J. KALKER, JR., P.E.
Reason: I am the author of this document.
Location: your signing location
Date: 2022.01.27 15:22:51-05'00'
Foxit PDF Reader Version: 11.1.0

NOTE: THE FOUNDATION SYSTEM FOR THIS BUILDING MUST PROVIDE PIERS TO SUPPORT THE FLOOR EDGE JOISTS BELOW ALL OPENING STUDS ON EACH SIDE OF OPENINGS EXCEEDING 48" IN WIDTH BELOW EACH SIDEWALL AND MUST PROVIDE PIERS TO SUPPORT THE FLOOR EDGE JOISTS BELOW EACH SIDEWALL AT A MAXIMUM SPACING OF 8'-0" O.C. BETWEEN THE OPENING PIERS. THESE PIERS MUST BE DESIGNED TO SUPPORT THE ROOF LIVE LOADS AND THE ROOF AND WALL DEAD LOADS.

SUPPLEMENTAL NOTES:

METAL PLATES, CONNECTORS, SCREWS, BOLTS, NUTS AND WASHERS EXPOSED DIRECTLY TO WEATHER OR SUBJECT TO SALT CORROSION IN COASTAL AREAS SHALL BE HOT DIPPED GALVANIZED STEEL WITH ZINC COATING WEIGHTS IN ACCORDANCE WITH ASTM A153.
ALL CUT ENDS, NOTCHES AND DRILLED HOLES OF PRESERVATIVE-TREATED WOOD SHALL BE TREATED IN ACCORDANCE WITH AWPA M4



FLOOR EDGE JOIST BUTT JOINT SPLICE DETAIL

NEW BAXLEY, LLC
DBA IMPACT HOUSING
137 WEST PARK DR.
BAXLEY, GA. 31513

DATE: 2/27/22		
CODES: IRC		
LABELS: FL	REVISIONS:	DRAWN BY: C.A. Leblanc
SCALE: NTS		
MODEL: 1668004GSH FLOOR FRAMING	PLAN NO. IHG-32FL	SHEET
WILLIAM J. KALKER, JR., P.E. CONSULTING ENGINEER	33 ROCKWOOD LANE MONROE, CT 06468 (203) 261-1167	4 OF 8



Short sweeps not less than 3 inches diameter may be used in soil and waste lines where the change in direction of flow is from the horizontal to the vertical and may be for making necessary offsets between the ceiling and the next floor above.

LISTING AGENCY APPROVAL	
THESE PRINTS COMPLY WITH THE FLORIDA MANUFACTURED BUILDING ACT OF 1979 CONSTRUCTION CODE AND ADHERE TO THE FOLLOWING CRITERIA.	
CONST. TYPE	VB
OCCUPANCY	SFD
ALLOWABLE NO. OF FLOORS	1
RISK CATEGORY	II
WIND VELOCITY (ULT)	150
WIND VELOCITY (ASD)	116
FIRE RATING OF EXT. WALLS	0
PLAN NO.	2773-0040F
ALLOW. FLOOR LOAD	40
APPROVAL DATE	02-07-2022
MANUFACTURER	New Baxley
HIGH VELOCITY HURRICANE ZONE	NO

IWCA
MUR-261

SHOWER UNITS TO BE PRE-MANUFACTURED AND SHALL HAVE AT LEAST 900 SQUARE INCHES OF INTERIOR CROSS-SECTIONAL AREA WITH AN INTERIOR DIMENSION OF NOT LESS THAN 30 INCHES, EXCLUSIVE OF FIXTURE VALVES, SHOWER HEADS, SOAP DISHES AND GRAB BARS OR RAILS, AND SHALL HAVE WATER RESISTANT WALL SURFACES EXTENDING A MINIMUM OF 72 INCHES ABOVE THE SHOWER DRAIN. UTILITY SEATS ARE SHOWERS DOORS SHALL OPEN OUTWARD. FOLDED-DOWN SEATS ARE ACCEPTABLE PROVIDED THE REQUIRED 900 SQUARE INCH MINIMUM AREA IS MAINTAINED WITH THE SEAT IN THE FOLDED-UP POSITION.

A THERMAL EXPANSION TANK MUST BE INSTALLED BETWEEN THE INLET SHUTOFF VALVE AND ALL STORAGE WATER HEATER TANKS TO CONTROL PRESSURES IN THE WATER SUPPLY SYSTEM CAUSED BY WATER THERMAL EXPANSION. (TO BE SITE INSTALLED)

IN AREAS WHERE HOSE BIBBS ARE SUBJECT TO FREEZING,
THE HOSE BIBBS SHALL BE EQUIPPED WITH AN ACCESSIBLE
STOP-AND-WASTE-TYPE VALVE INSIDE THE BUILDING TO
PERMIT DRAINING OF THE HOSE BIBB DURING COLD PERIODS,

STORAGE WATER HEATERS NOT EQUIPPED WITH INTEGRAL HEAT TRAPS AND HAVING VERTICAL PIPE RISERS SHALL HAVE HEAT TRAPS INSTALLED ON BOTH THE INLETS AND OUTLETS. EXTERNAL HEAT TRAPS SHALL CONSIST OF EITHER A COMMERCIALY AVAILABLE HEAT TRAP OR A DOWNWARD AND UPWARD BEND OF AT LEAST 3-1/2 INCHES IN THE HOT WATER LINE AND COLD WATER LINE AS CLOSE AS POSSIBLE TO THE STORAGE TANK.

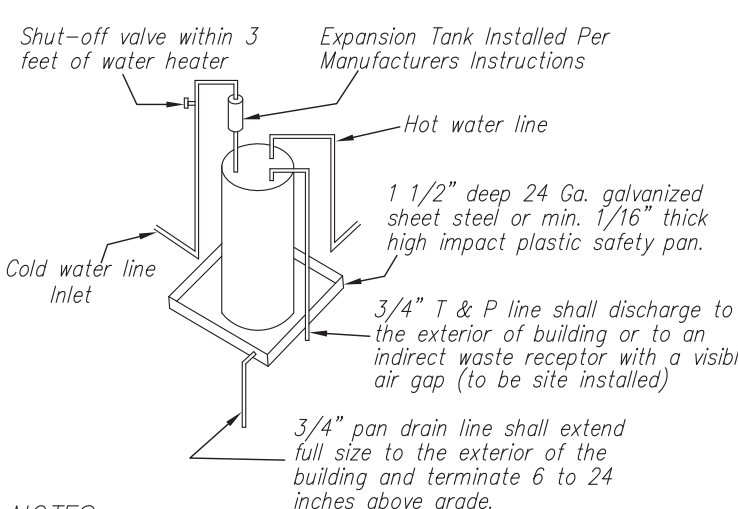
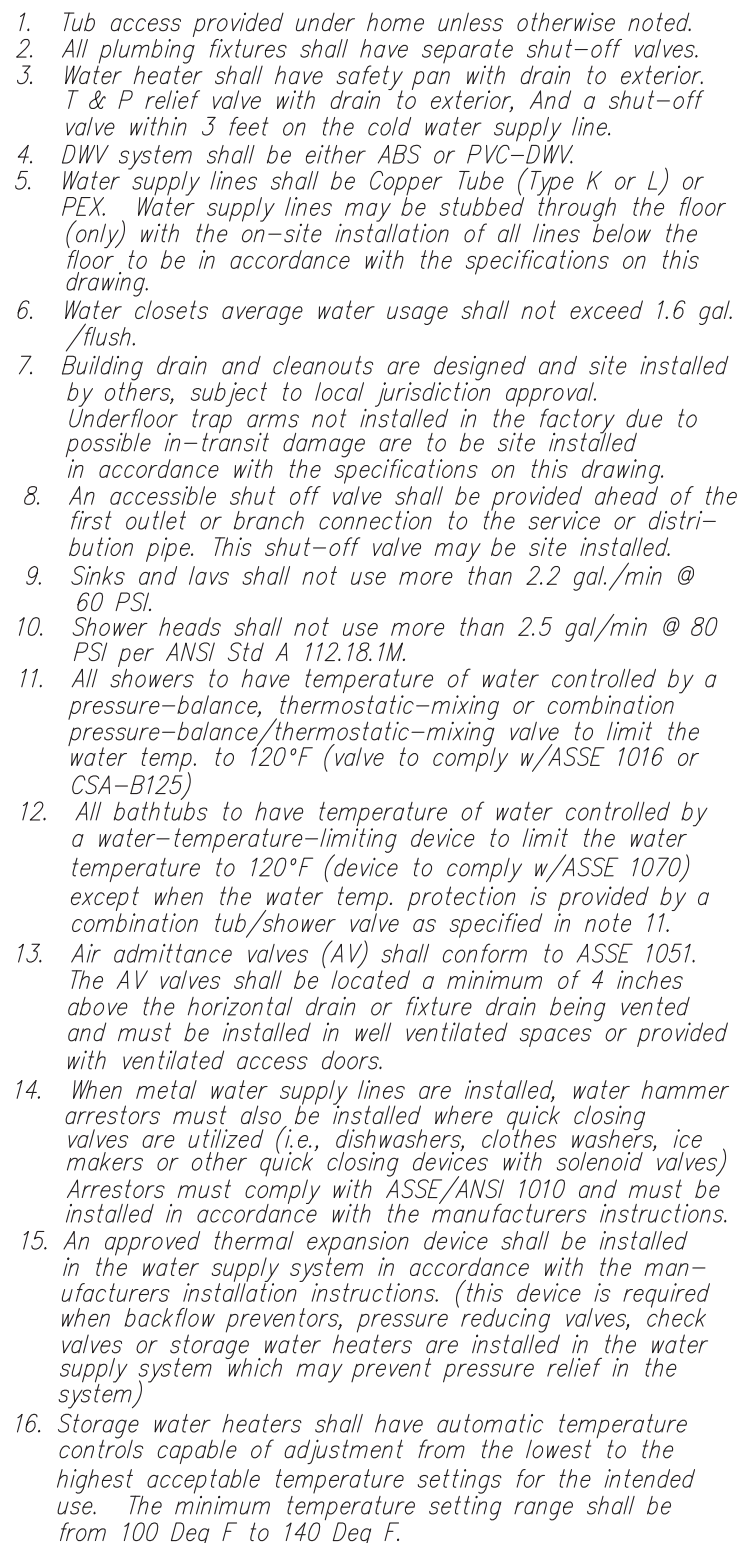
INSULATION WITH A MINIMUM THERMAL RESISTANCE OF R-3 SHALL BE INSTALLED ON ALL HOT WATER PIPE FROM THE WATER HEATER TO A DISTRIBUTION MANIFOLD AND ON ALL HOT WATER PIPE LOCATED OUTSIDE THE CONDITIONED SPACE. IN ADDITION, INSULATION WITH A MINIMUM THERMAL RESISTANCE OF R-3 SHALL BE INSTALLED ON ALL 3/4" DIAMETER AND LARGER HOT HOT WATER SUPPLY PIPE.

FLOW RATES FOR PLUMBING FIXTURES SHALL NOT EXCEED THE FOLLOWING RATES:

LAVATORY 2.2 GPM AT 60 PSI
SHOWER HEAD 2.5 GPM AT 80 PSI
HAND HELD SHOWER SPRAY 2.5 GPM AT 80 PSI
SINK FAUCET 2.2 GPM AT 60 PSI
WATER CLOSET 1.6 GALLONS PER FLUSH CYCLE

*NOTE: FOR WATER SUPPLY SYSTEM OPTION #1 (ONLY):
THE WATER INLET LOCATION MAY VARY FROM THE LOCATION SHOWN
PROVIDED A 1" DIA PIPE EXTENDS FROM THE REVISED INLET LOCATION
DIRECTLY TO THE WATER HEATER WITH ALL OTHER WATER PIPING AS
SHOWN IN THE SCHEMATIC EXCEPT THAT PIPE SIZES FOLLOWED BY
PARENTHESES MAY HAVE THE PIPE SIZE REDUCED TO THE SIZE WITHIN
THE PARENTHESES.

INSTALL AN ACCESSIBLE 1" MAIN SHUTOFF VALVE NEAR THE ENTRANCE OF THE WATER SERVICE. THE VALVE SHALL BE A FULL-OPEN TYPE HAVING NOMINAL RESTRICTION TO FLOW WITH PROVISIONS FOR DRAINAGE SUCH AS A BLEED ORIFICE OR INSTALLATION OF A SEPARATE DRAIN VALVE [SHUTOFF VALVE(S) TO BE SITE INSTALLED]



NOTES:

1. Water heater shall be provided with a cold water "Dip" tube with a hole at the top or a vacuum relief valve installed in the cold water supply line above the top of the water heater tank; bottom fed water heaters shall have a vacuum relief valve complying with ANSI Z21.22 installed.
2. Water heaters shall be provided with a temperature and pressure relief valve complying with ANSI Z21.22 installed in the shell of the water heater tank. The valve shall be actuated by the water in the top 6 inches of the tank and shall have a temperature rating of not more than 210° and a pressure setting not exceeding the tanks rated working pressure or 150 psi, whichever is less
3. Water heaters shall be equipped with an energy cutoff device that will cut off the supply of heat energy to the water tank before the temperature of the water in the tank exceeds 210° F.

TYPICAL WATER HEATER DETAIL

NTS

NTS

NEW BAXLEY, LLC
BA IMPACT HOUSING
137 WEST PARK DR.
BAXLEY, GA. 31513

DATE: 2/27/22	REVISIONS: 2/27/22		DRAWN BY: SHEET 5 OF 8
CODES: FBC			
LABELS: FL			
SCALE: NTS			
MODEL: 1668004GSH PLUMBING		PLAN NO. IHG-32FL	
WILLIAM J. KALKER, JR., P.E. CONSULTING ENGINEER		33 ROCKWOOD LANE MONROE, CT 06468 (203) 261-1167	

GENERAL NOTES

Exterior joints in the building envelope that are sources of air leakage. Such as around windows and door frames; Between wall cavities and windows or door frames; Between walls and foundations; Between walls and roof/ceiling and Between wall panels; Openings at penetrations of utility services through walls, floors and roofs; and all other such openings in the building envelope shall be caulked, gasketed. Weather stripped or otherwise sealed in an approved manner.

Soffit vents and ridge vents equal to 1/150 of total roof area (min 7.0 sq. ft. net vent air is required) with a minimum 1/2 of the total provided with soffit vents and minimum 1/2 of the total provided with ridge vent

UNIVERSAL COTTAGE TRUSS #P2092901

TRUSS DESIGN LOADS:

20 PSF ROOF LL ON TOP CHORD
7 PSF ROOF DL ON TOP CHORD
10 PSF ATTIC LL ON BTM CHORD***
7 PSF ROOF DL ON BTM CHORD

*** ATTIC LL NOT TO BE APPLIED CONCURRENTLY WITH OTHER LIVE LOADS

COTTAGE LISTED TRUSSES 24" O.C. EXCEPT
INSTALL TRUSSES 16" O.C. IN END ZONES
AND OVER PORCH

CONTINUOUS RIDGE VENT

R38 FIBERGLASS INSULATION OR R38 BLOWN INSULATION
USE BAFFLES AS REQUIRED AT SOFFITS TO MAINTAIN A
MINIMUM 1 INCH AIR PASSAGE GAP FROM THE INSULATION
TO THE ROOF SHEATHING (TYP)

7/16" RATED SHEATHING OSB, EXP1,
24/16 MIN ROOF SHEATHING

INSTALL 1/2" THICK X 3'
WIDE CONT. OSB OR PLY
BEARING STRIP ON SIDEWALL
TOP PLATES (REMOVE CEILING
INT. FINISH FOR BEARING
STRIPS) TO SUPPORT TRUSSES
(TYP EACH SIDEWALL)

ASPHALT SHINGLES INSTALLED PER MANUFACTURERS
INSTRUCTIONS OVER ONE LAYER OF UNDERLAYMENT FOR
ROOF PITCHES EQUAL TO AND EXCEEDING 4/12 AND TWO
LAYERS OF UNDERLAYMENT FOR ROOF PITCHES LESS THAN
4/12 (WIND RESISTANT SHINGLES; CLASS A)
INSTALL THE UNDERLAYMENT IN ACCORDANCE WITH SECTION
R905.2.7 OF THE FBC-R.

2X6 SYP #2 SUB-FASCIA (TYP)
(SEE SPLICE DETAIL BELOW)

INSTALL TRUSS ANCHORS/FASTENINGS
FROM EACH TRUSS TO WALL FRAMING
PER DETAIL ON DRAWING #7
(TYP EACH SIDEWALL)

GALV. STEEL EAVE DRIP EDGE
(TYP)

DBL TOP PLATE 2X4 SYP #2
OFFSET BUTT JOINTS 48" MIN
AND FASTEN TOGETHER WITH
.131"X3" NAILS 5" O.C.
(TYP AT EXT. WALLS)

EXTERIOR WALL CONSTRUCTION
AND UPLIFT STRAPPING AT OPENINGS
PER THE APPROVED STRUCTURAL
CONST. PACKAGE (SYP LUMBER REQ'D)

R13 FIBERGLASS BATT INSULATION
BETWEEN STUDS (TYP EXTERIOR WALLS)

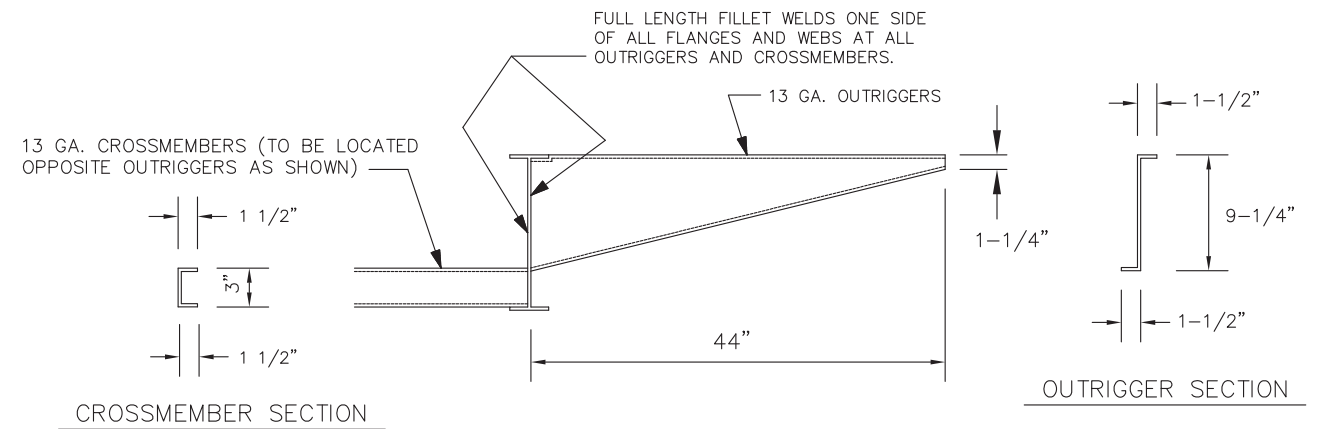
1-1/2" X 26 GA UPLIFT STRAP
WITH 8-15 GA X 1" STAPLES EACH
END 16" O.C. MAX AND AT OPENINGS
FROM THE STUDS TO EDGE JOIST(S)
PER THE APPROVED STRUCTURAL
CONSTRUCTION PACKAGE
(TYP ALL EXTERIOR WALLS)

INSTALL 1-3/8" X 3" LAG SCREW
THROUGH FLANGE INTO EDGE
JOIST AT EACH OUTRIGGER (TYP)

INSTALL 1-3/8" X 3" LAG SCREW
W/STEEL FLANGE CLIP ON THE
OUTSIDE OF STEEL BEAM FLANGE ON
EACH JOIST BETWEEN THE OUTRIGGERS
AND INTO EACH JOIST BELOW INTERIOR
BRACING WALLS (TYP EACH STEEL BEAM)

NOTE: FLANGE CLIPS TO BE MIN 1-1/4"x2-3/8"
10 GA. A36 STEEL WITH 3/8" DIA HOLE

OUTRIGGER AND CROSSMEMBER
SPACING 96" O.C. MAX. (TYP)
INSTALL FIRST OUTRIGGER WITHIN
16" OF END OF FLOOR (TYP)



.035" VINYL SIDING, 5/16" CEMPLANK LAP SIDING, 5/16" CEMPANEL PANEL
SIDING, 5/16" HARDPLANK LAP SIDING OR 5/16" HARDIPANEL PANEL SIDING
SHALL BE INSTALLED PER THE MANUFACTURERS INSTRUCTIONS OVER AN
APPROVED MOISTURE BARRIER ON 7/16" OSB RATED SHEATHING, EXP1, 24/16
FASTENED WITH 8D CDM NAIL 6" O.C. EDGES AND 6" O.C. FIELD ON ENDWALLS
AND 6" O.C. EDGES AND 6" O.C. FIELD ON SIDEWALLS (TYP)

ON ENDWALLS SHEATHING SHALL EXTEND CONTINUOUSLY FROM TOP OF TRUSS
TOP CHORD TO BOTTOM OF EDGE JOIST(S) WITH 2X SYP BLOCKING BEHIND
ALL HORIZONTAL SEAMS AND ALL PANELS SPANNING A MIN. OF 2 STUD BAYS)
ON SIDEWALLS SHEATHING SHALL EXTEND CONTINUOUSLY FROM TOP OF TOP
PLATE TO BOTTOM OF EDGE JOIST(S) WITH 2X SYP BLOCKING BEHIND BEHIND
ALL HORIZONTAL SEAMS AND ALL PANELS SPANNING A MIN. OF 2 STUD BAYS)

EXTERIOR WALL STUDS 2X4 SYP #2 MAX. 16" O.C.
(SEE THE APPROVED STRUCTURAL PACKAGE FOR THE LOCATIONS AND WALL
HEIGHTS WHICH WILL REQUIRE CLOSER SPACINGS AND/OR DOUBLE STUDS)

FASTEN EXTERIOR WALLS TO EDGE JOIST(S) WITH #8X3" SCREWS 6" O.C.
WITHIN 3' FROM EACH CORNER AND 7-1/2" O.C. IN OTHER LOCATIONS OR
FASTEN EXTERIOR WALLS TO EDGE JOIST(S) WITH .131"X3" NAILS 6" O.C.
WITHIN 3' OF EACH CORNER AND 7-1/2" O.C. IN OTHER LOCATIONS
(TYP EACH SIDEWALL AND ENDWALL)

1-2X8 SYP #2 RIM JOIST (TYP)
(SEE FLOOR CONST. DWG FOR SPECS)

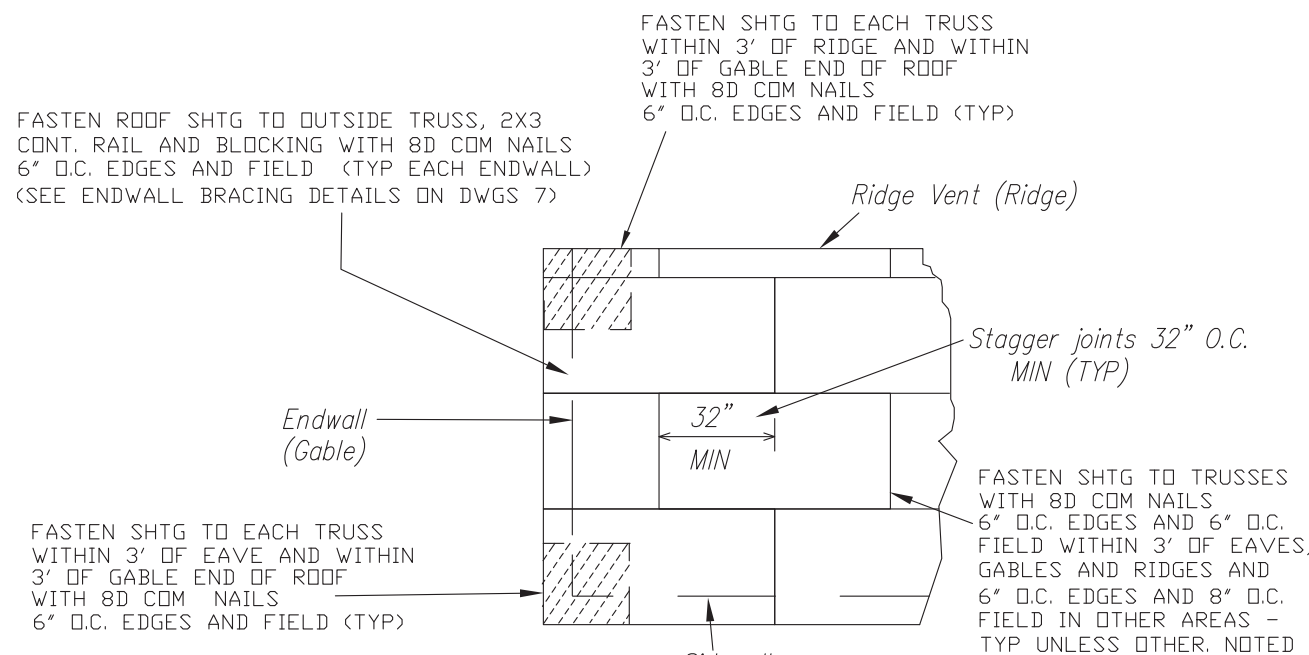
R13 FIBERGLASS BATT INSULATION BETWEEN
JOISTS AND AT EXTERIOR WALL EDGE JOISTS (TYP)

VERMIN BARRIER (TYP)

SEE FOUNDATION DRAWING FOR
FOUNDATION, FOOTING AND PIER
SPECS (TYP)

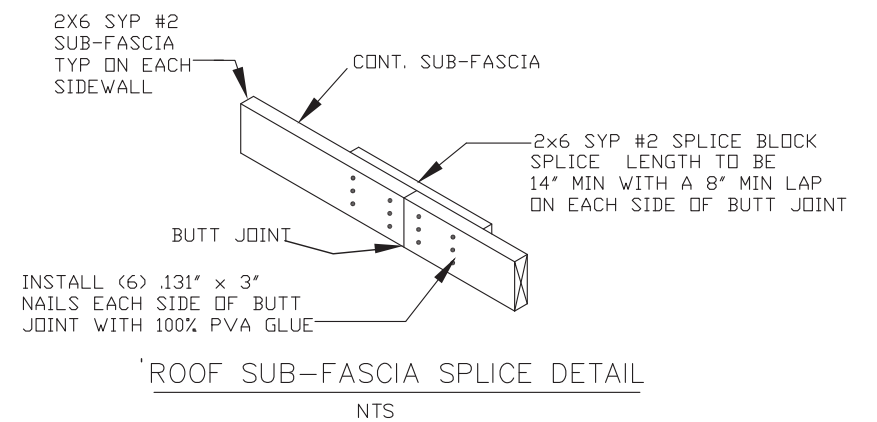
CROSS SECTION

NOTE: THE 'END ZONE' FOR THIS STRUCTURE EXTENDS 6.0 FEET FROM EACH CORNER FOR WALL
CONSTRUCTION AND WALL TO FLOOR UPLIFT STRAP SPECIFICATIONS AND 3.0 FEET FROM THE
GABLES/ENDWALLS FOR THE ROOF FRAMING AND TRUSS INSTALLATION SPECIFICATIONS



NOTE: ALL ROOF SHG PANELS MUST SPAN
A MIN. OF TWO TRUSS BAYS W/LONG
DIMENSION PERPENDICULAR TO TRUSSES

ROOF SHEATHING DETAIL



NEW BAXLEY, LLC
DBA IMPACT HOUSING
137 WEST PARK DR.
BAXLEY, GA. 31513

DATE: 2/27/22		
CODES: IRC		
LABELS: FL	REVISIONS:	DRAWN BY: C.A. Leblanc
SCALE: NTS		
MODEL: 1668004GSH CROSS SECTION	PLAN NO. IHG-32FL	SHEET
WILLIAM J. KALKER, JR., P.E. CONSULTING ENGINEER	33 ROCKWOOD LANE MONROE, CT 06468 (203) 261-1167	6 OF 8



WILLIAM J.
KALKER,
JR., P.E.

Digitally signed by WILLIAM J.
KALKER, JR., P.E.
DN: c=US, cn=WILLIAM J.
KALKER, JR., P.E., o=W.J.
KALKER, JR., P.E., Reason: I am the author of this
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LISTING
AGENCY APPROVAL

THESE PRINTS COMPLY WITH THE FLORIDA
MANUFACTURED BUILDING ACT OF 1979
CONSTRUCTION CODE AND ADHERE TO THE
FOLLOWING CRITERIA.

CONST. TYPE	VB
OCCUPANCY	SFD
ALLOWABLE NO. OF FLOORS	1
RISK CATEGORY	II
WIND VELOCITY (ULT)	150
WIND VELOCITY (ASD)	116
FIRE RATING OF EXT. WALLS	0
PLAN NO.	2773-0040F
ALLOW. FLOOR LOAD	40
APPROVAL DATE	02-07-2022
MANUFACTURER	New Baxley
HIGH VELOCITY HURRICANE ZONE	NO



ALL STRAPS REFERENCED IN THESE DRAWINGS
ARE MINIMUM 26 GA STEEL X WIDTH SPECIFIED
WITH A MINIMUM YIELD STRENGTH = 36 KSI
TYPICAL UNLESS OTHERWISE NOTED

ALL PVA GLUE TO COMPLY WITH ASTM D3930
AND SPECIFICATION CA25-4

SUPPLEMENTAL NOTES:

ATTIC VENTILATION OPENINGS MUST BE PROTECTED AGAINST
THE ENTRANCE OF RAIN OR SNOW AND PROVIDED WITH
CORROSION-RESISTANT WIRE MESH WITH 1/16 INCH MINIMUM
AND 1/4 INCH MAXIMUM OPENINGS.

ASPHALT SHINGLES MUST BE CLASSIFIED IN ACCORDANCE
WITH ASTM D3161 OR ASTM D7158. SHINGLES CLASSIFIED
AS ASTM D3161 CLASS B ARE ACCEPTABLE WITH WIND
SPEEDS UP TO 129 MPH V_{ult} AND SHINGLES CLASSIFIED AS
ASTM D7158 CLASS G ARE ACCEPTABLE WITH WIND SPEEDS
UP TO 155 MPH V_{ult}. SHINGLES CLASSIFIED AS ASTM D3161
CLASS F OR AS ASTM D7158 CLASS H ARE ACCEPTABLE FOR
USE IN ALL WIND SPEEDS.

ASPHALT SHINGLE UNDERLAYMENT AND METAL ROOF PANEL
UNDERLAYMENT SHALL COMPLY WITH ASTM D226, TYPE II OR
ASTM D4869, TYPE III OR TYPE IV OR ASTM D6757.

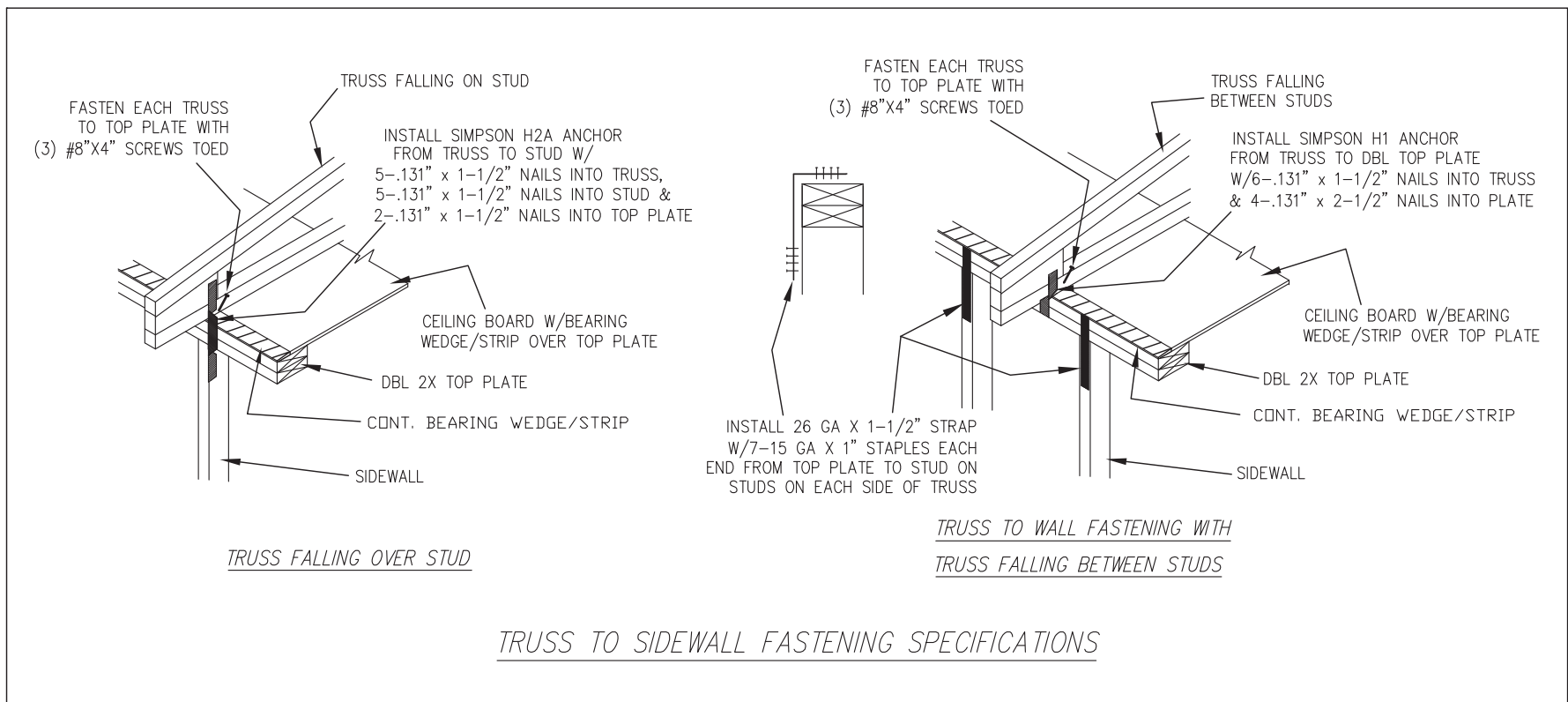
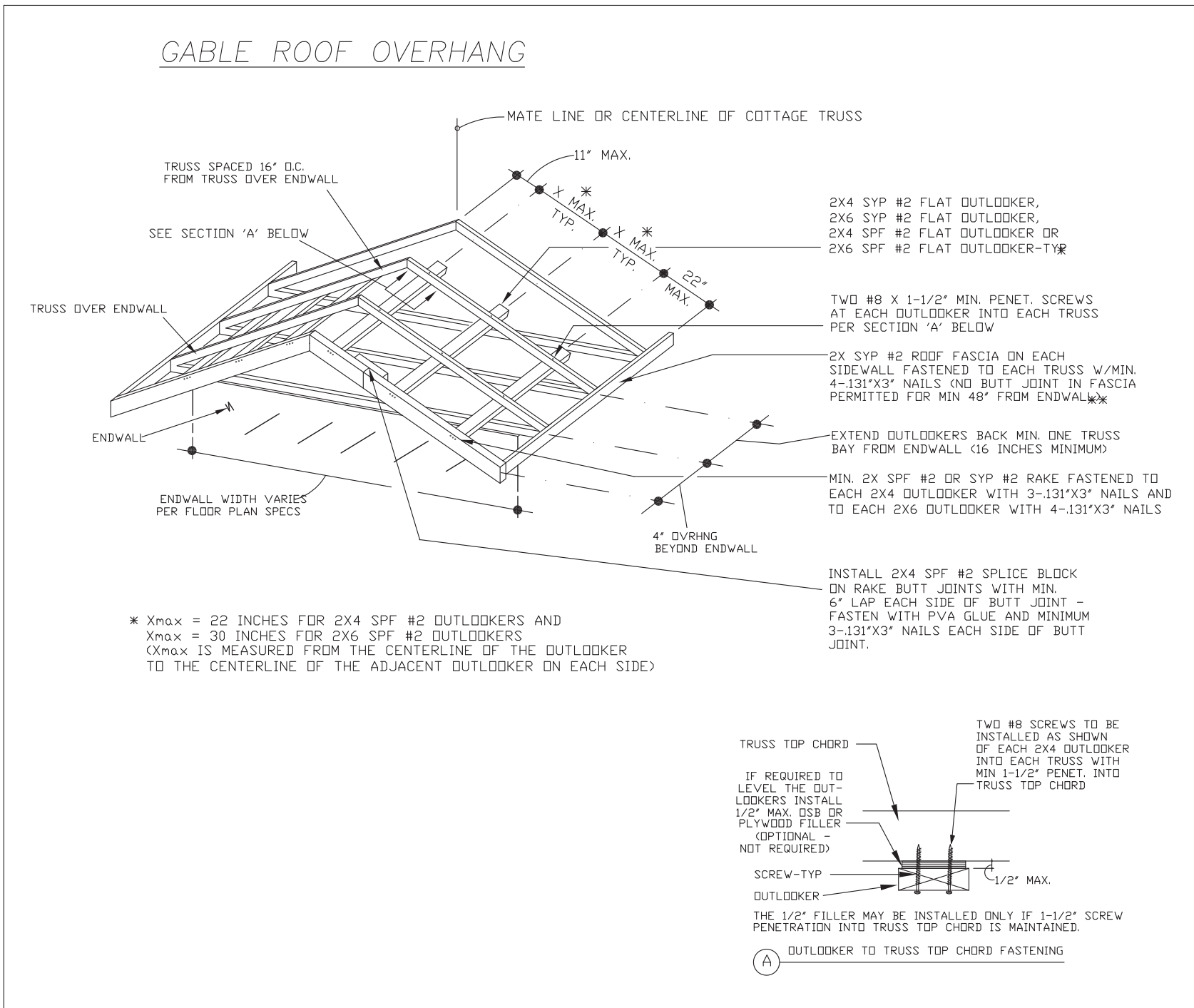
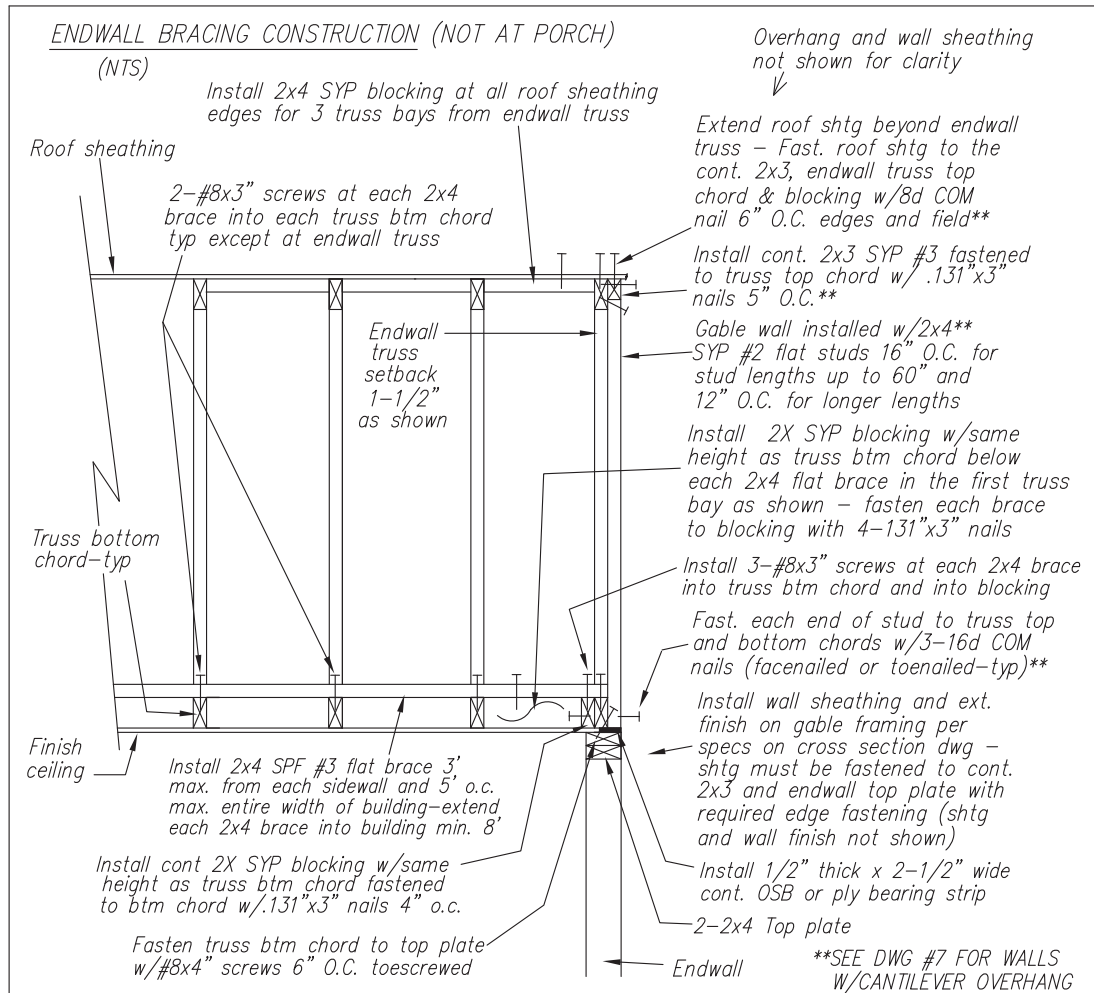
ASPHALT SHINGLE UNDERLAYMENT AND METAL ROOF PANEL
UNDERLAYMENT SHALL BE INSTALLED IN ACCORDANCE WITH
TABLE R905.1.1.1 OF THE 2021 SUPP. OF THE 2020 FBC-R.

ALL WINDOWS AND DOORS SHALL BE INSTALLED AND FLASHED
IN ACCORDANCE WITH THE WINDOW MANUFACTURER'S WRITTEN
INSTALLATION INSTRUCTIONS

ALL EXTERIOR WALL OPENINGS, PROJECTING WOOD TRIM
AND ALL CONNECTIONS OF DECKS, STAIRS OR PORCHES TO
MODULAR BUILDING LUMBER CONSTRUCTION MUST BE PRO-
TECTED WITH APPROVED CORROSION-RESISTANT FLASHING
INSTALLED IN 'SHINGLE-FASHION' TO PREVENT ENTRY OF
WATER INTO THE BUILDING FRAMING CAVITIES. THE FLASHING
SHALL EXTEND TO THE SURFACE OF THE EXTERIOR WALL
FINISH.

ALL EXPOSED INSULATION INSTALLED IN ATTICS MUST HAVE
A CRITICAL RADIANT FLUX NOT LESS THAN .12 WATT PER
SQUARE CENTIMETER

METAL PLATES, CONNECTORS, SCREWS, BOLTS, NUTS AND
WASHERS EXPOSED DIRECTLY TO WEATHER OR SUBJECT TO
SALT CORROSION IN COASTAL AREAS SHALL BE HOT DIPPED
GALVANIZED STEEL WITH ZINC COATING WEIGHTS IN ACCOR-
DANCE WITH ASTM A153.



WILLIAM J. KALKER, JR., P.E.

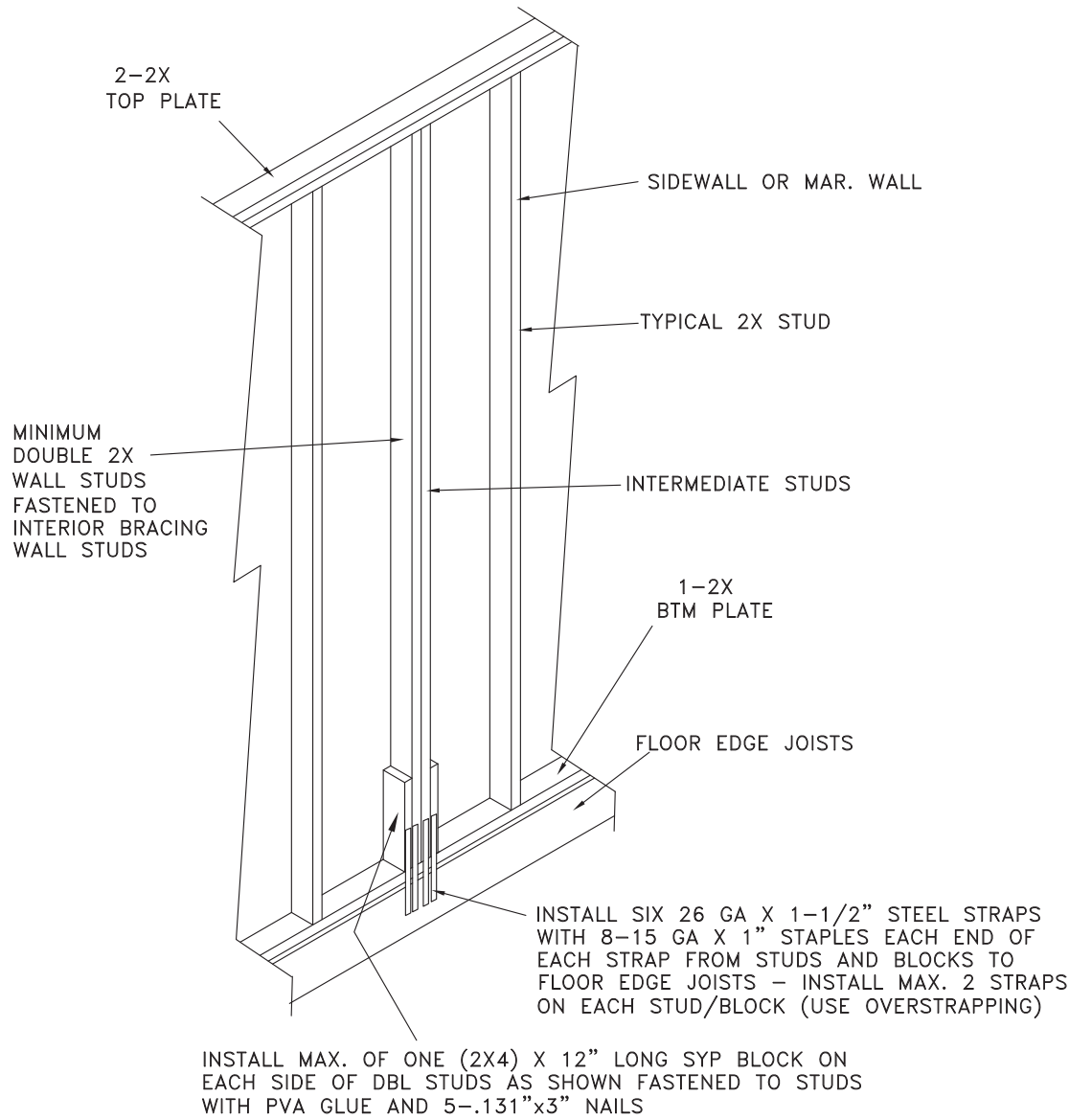
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LISTING AGENCY APPROVAL	
THESE PRINTS COMPLY WITH THE FLORIDA MANUFACTURED BUILDING ACT OF 1979 CONSTRUCTION CODE AND ADHERE TO THE FOLLOWING CRITERIA.	
CONST. TYPE	VB
OCCUPANCY	SFD
ALLOWABLE NO. OF FLOORS	1
RISK CATEGORY	II
WIND VELOCITY (ULT)	150
WIND VELOCITY (ASD)	116
FIRE RATING OF EXT. WALLS	0
PLAN NO.	2773-0040F
ALLOW. FLOOR LOAD	40
APPROVAL DATE	02-07-2022
MANUFACTURER	New Baxley
HIGH VELOCITY HURRICANE ZONE	NO



NEW BAXLEY,LLC DBA IMPACT HOUSING 137 WEST PARK DR. BAXLEY, GA. 31513			
DATE: 2/27/22		REVISIONS:	
CODES: FBC			
LABELS: FL			
SCALE: NTS		DRAWN BY: C.A.LebLANC	
MODEL: 1668004GSH DETAILS		PLAN NO. IHG-32FL	SHEET 7 OF 8
WILLIAM J. KALKER, JR., P.E. CONSULTING ENGINEER		33 ROCKWOOD LANE MONROE, CT 06468 (203) 261-1167	

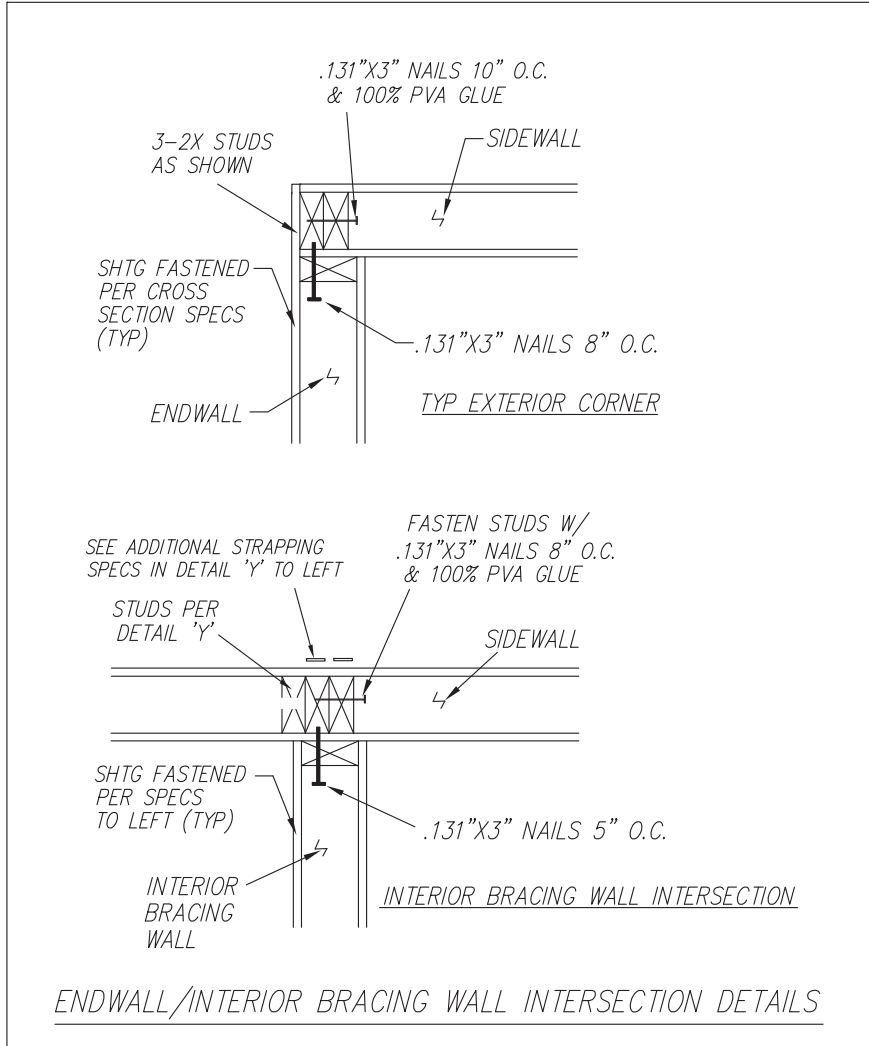
LISTING AGENCY APPROVAL	
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APPROVAL DATE	02-07-2022
MANUFACTURER	New Baxley
HIGH VELOCITY HURRICANE ZONE	NO
IWC MUR-261	



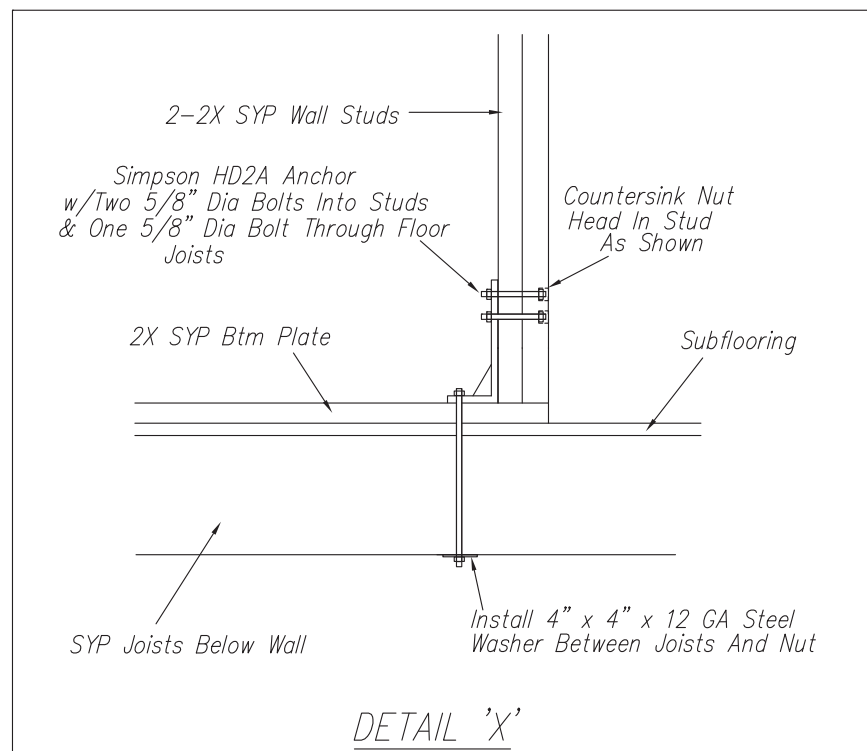
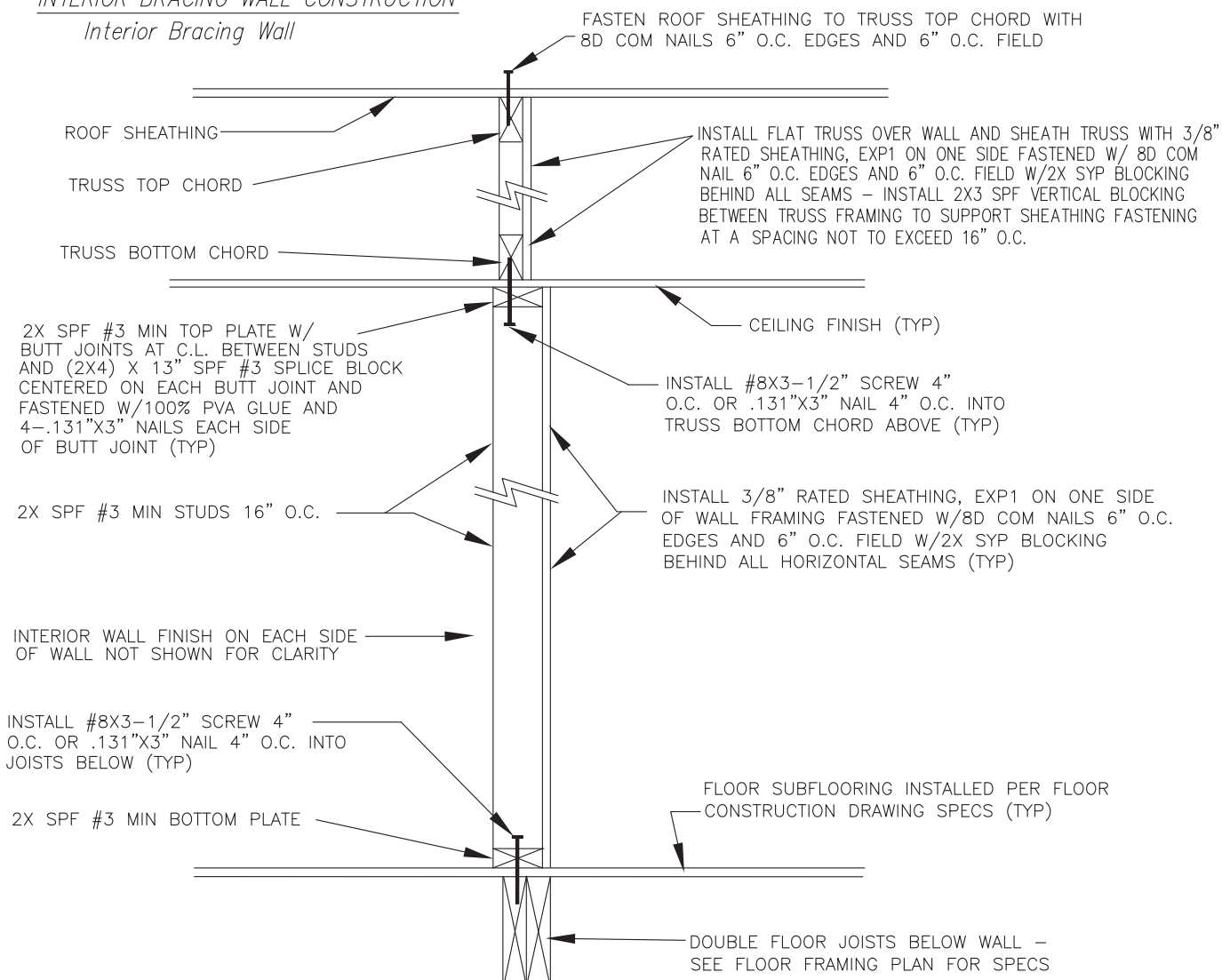
DETAIL 'Y'

ADDITIONAL WALL TO FLOOR UPLIFT STRAPPING AT INTERIOR BRACING WALLS

TYP EACH END OF INTERIOR BRACING WALL UNLESS OTHERWISE NOTED ON FLOOR PLAN DRAWING



INTERIOR BRACING WALL CONSTRUCTION
Interior Bracing Wall



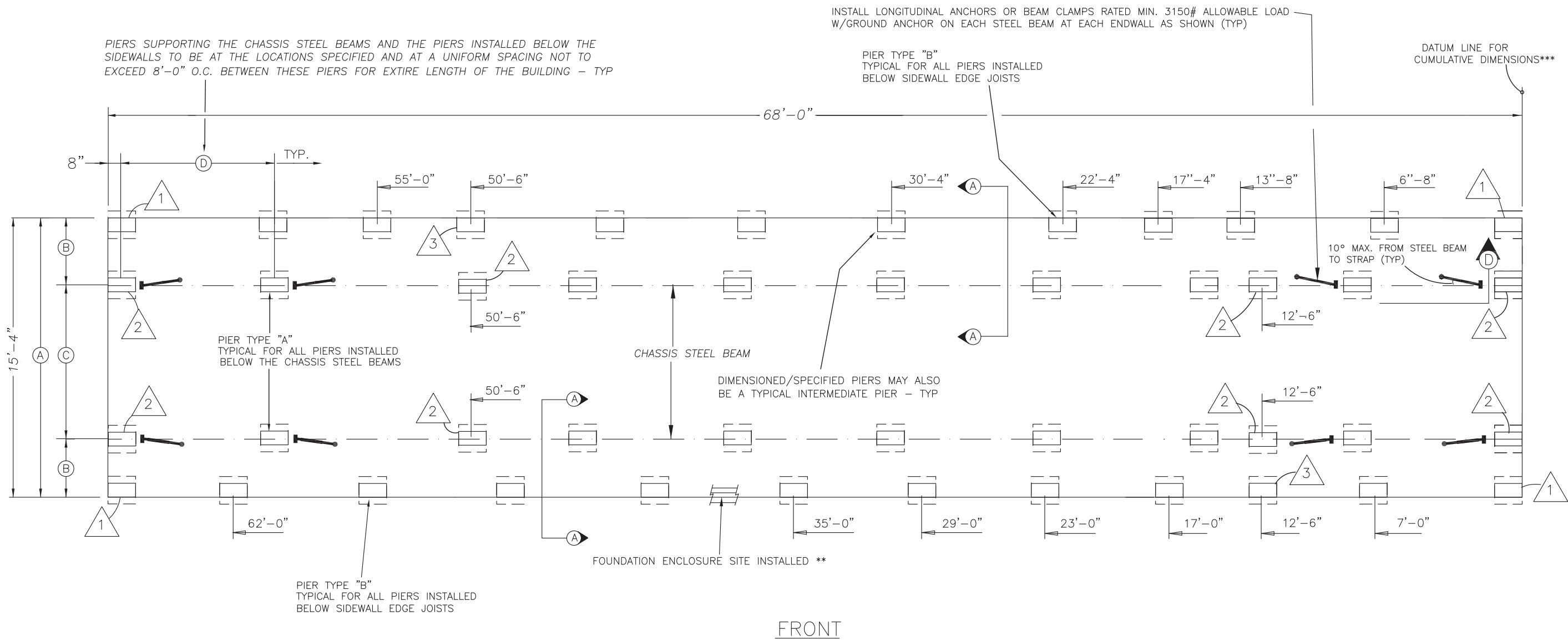
2/27/22

WILLIAM J.
KALKER,
JR., P.E.

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NEW BAXLEY, LLC
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137 WEST PARK DR.
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WILLIAM J. KALKER, JR., P.E. CONSULTING ENGINEER	33 ROCKWOOD LANE MONROE, CT 06468 (203) 261-1167	8 OF 8



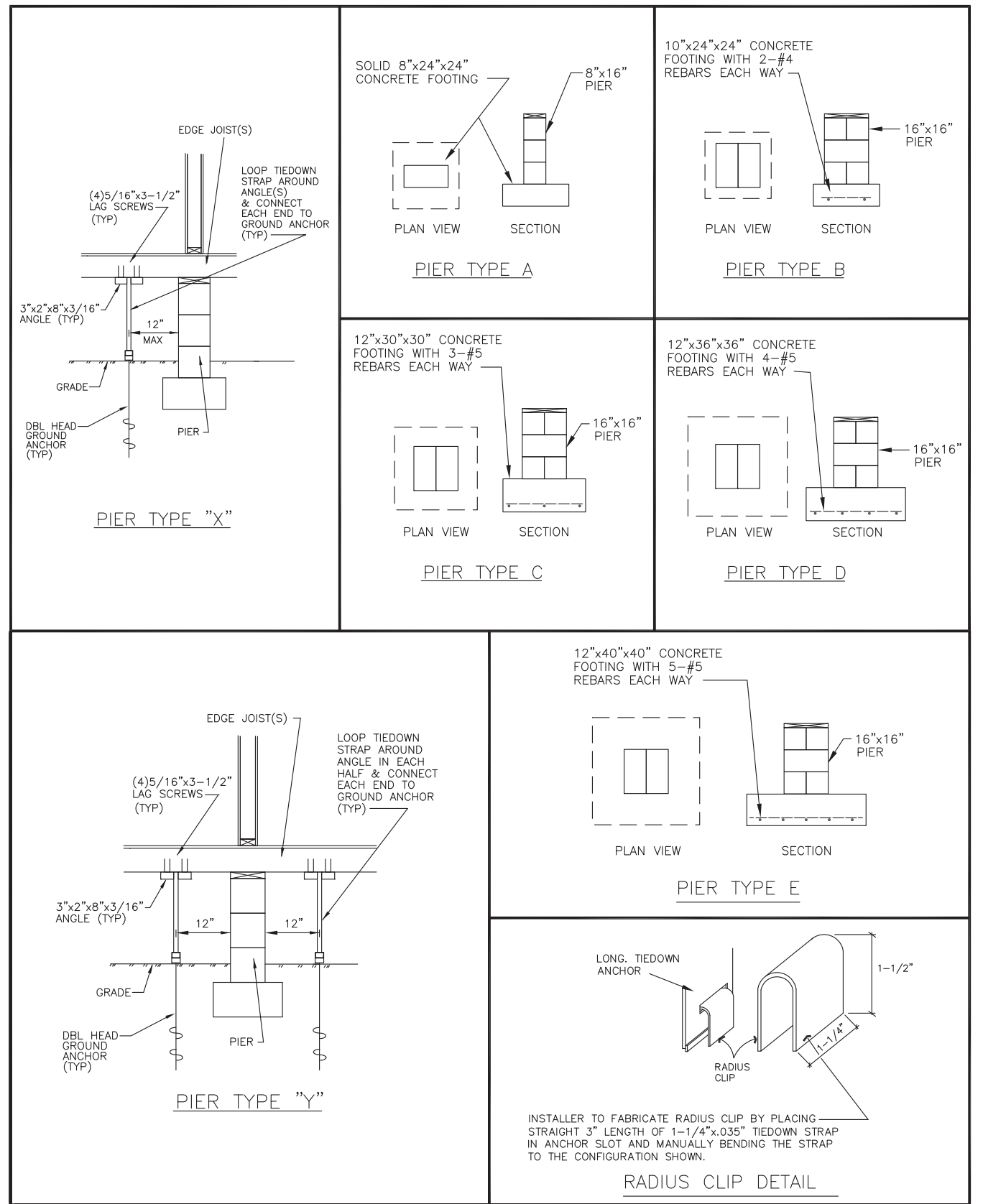
ADD PLATFORMS, STAIRS AND RAILINGS AS REQUIRED FOR ACCESS TO BUILDING - ALL PLATFORMS, STAIRS AND RAILINGS TO BE DESIGNED BY SITE (LOCAL) ENGINEER, SUBJECT TO BUILDING OFFICIAL REVIEW AND APPROVAL - TYP

PIER FOUNDATION WITH STEEL FRAME

THIS REFERENCE FOUNDATION IS DESIGNED FOR A MAX. 150 MPH WIND SPEED (EXPC) PER THE 2020 FBC-R (7TH EDITION) SUPPLEMENT FOR MODEL "1668004GSH" (IHG-32FL) WITH THE STEEL FRAME CHASSIS (SEE THE MODEL DRAWINGS FOR FURTHER LIMITATIONS)

FOUNDATION NOTE:
THE REVIEW AND APPROVAL OF THIS FOUNDATION PLAN IS SUBJECT TO THE LOCAL BUILDING DEPARTMENT HAVING JURISDICTION.

** FOUNDATION ENCLOSURE TO BE DESIGNED BY OTHERS. ENCLOSURE MUST HAVE VENTILATION OPENINGS WITH A MINIMUM NET VENT AREA OF NOT LESS THAN 1 SQ. FT. FOR EACH 150 SQUARE FEET OF CRAWL SPACE AREA. LOCATE OPENINGS WITHIN 3 FEET OF EACH CORNER AND UNIFORMLY SPACED BETWEEN THE CORNERS. AROUND BUILDING PERIMETER ALSO INSTALL A MINIMUM 18"x24" CRAWL SPACE ACCESS DOOR.



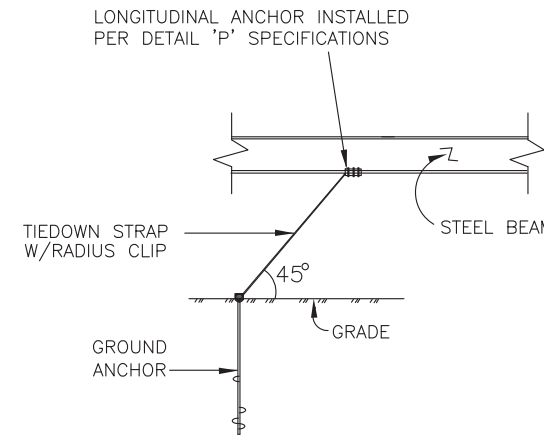
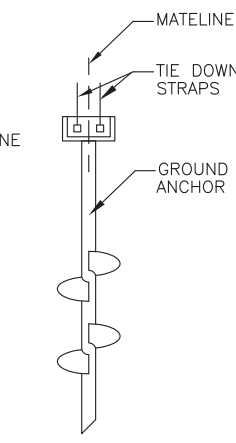
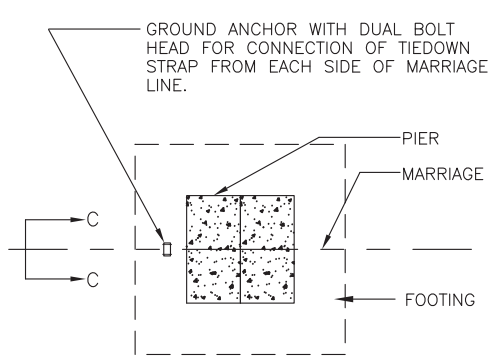
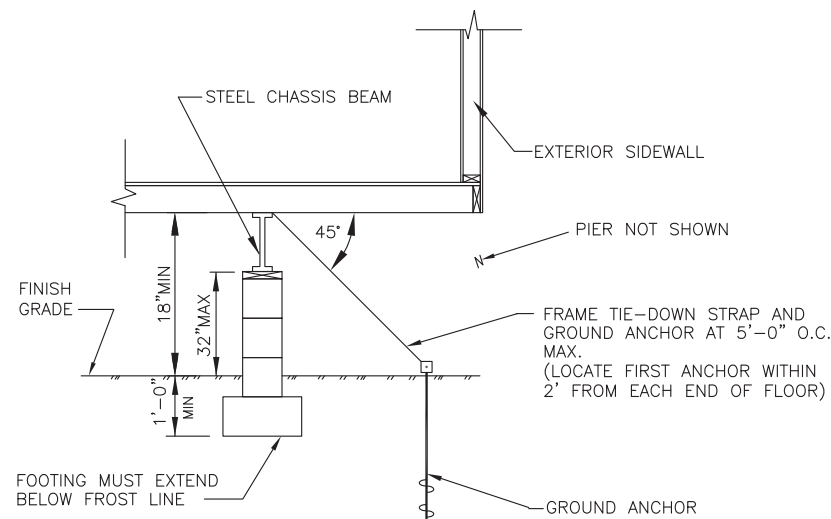
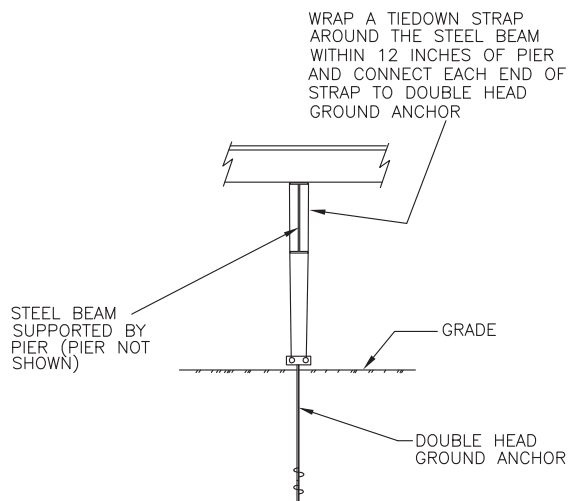
SUPPORT PIER REQUIREMENTS

PIER NUMBER	MINIMUM SOIL BEARING CAPACITY	PIER TYPE	NUMBER OF VERTICAL TIE DOWN STRAPS REQUIRED (EACH MODULE)
1	2000 PSF	B & X	SEE DETAIL
	3000 PSF	B & X	SEE DETAIL
2	2000 PSF	A & Z	SEE DETAIL
	3000 PSF	A & Z	SEE DETAIL
3	2000 PSF	B & Y	SEE DETAIL
	3000 PSF	B & Y	SEE DETAIL
	2000 PSF		
	3000 PSF		
	2000 PSF		
	3000 PSF		

FOUNDATION DIMENSIONS

A	MODULE WIDTH	B	PIER TO MODULE EDGE	C	STEEL BEAM SPACING
	184"		44-1/4"		95-1/2"
D	MAXIMUM PIER SPACING		MINIMUM SOIL BEARING CAPACITY		
	8'-0" O.C.		2000 PSF		

THE SUITABILITY OF THIS 'REFERENCE' FOUNDATION FOR A SPECIFIC SITE MUST BE DETERMINED AND/OR VERIFIED BY A DESIGN PROFESSIONAL FAMILIAR WITH THE SITE.



FOUNDATION NOTES:

- ALL FOUNDATION CONSTRUCTION, MATERIALS, AND INSTALLATION SHALL BE IN ACCORDANCE WITH ALL APPLICABLE STATE AND LOCAL CODES.
- TIE-DOWN STRAPS TO BE 1-1/4"x.035" GALVANIZED STEEL TYPE-1, FINISH-B, GRADE-1 CONFORMING WITH ASTM D3953. TIEDOWN STRAPS AND CONNECTING HARDWARE SHALL HAVE A MINIMUM 4725# ULTIMATE TENSION LOAD CAPACITY.
- GROUND ANCHORS SHALL HAVE A 5000# MINIMUM ULTIMATE LOAD CAPACITY, AND SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS. ALL GROUND ANCHORS CONNECTED TO THE SIDEWALL OR LONGITUDINAL TIEDOWNS MUST BE PROVIDED WITH STABILIZER PLATES TO MINIMIZE HORIZONTAL MOVEMENT. THE DESIGN OF GROUND ANCHOR, INCLUDING SHAFT LENGTH, NUMBER AND DIAMETER OF HELICES, STABILIZER PLATES, ETC. TO BE AS SPECIFIED BY THE GROUND ANCHOR MANUFACTURER FOR THE ACTUAL SOIL TYPE ENCOUNTERED. IF THE ULTIMATE LOAD CAPACITIES OF GROUND ANCHORS ARE BELOW THE REQUIRED VALUES SPECIFIED ABOVE THE DESIGN ENGINEER MUST BE CONSULTED FOR AN ALTERNATE FOUNDATION DESIGN.
- THE FIRST TIEDOWN STRAP FROM THE ENDWALLS SHALL BE LOCATED NOT MORE THAN 2' FROM THE END OF THE FLOOR. (TYP EACH END OF FLOOR)

- CONCRETE MUST HAVE A MIN. COMPRESSIVE STRENGTH OF 2,500 PSI AT 28 DAYS.
- ALL PIERS SHALL BE CONSTRUCTED OF 8"x8"x16" CONCRETE MASONRY UNITS CONFORMING WITH ASTM C90. MASONRY UNITS SHALL BE STANDARD WEIGHT BLOCKS LAID IN TYPE M OR S MORTAR OR WHEN PERMITTED BY THE LOCAL BUILDING OFFICIAL MAY BE COVERED WITH SURFACE BONDING CEMENT. SURFACE BONDING CEMENT MUST BE APPLIED IN ACCORDANCE WITH THE MANUFACTURERS INSTRUCTIONS AND/OR THE PRODUCTS LISTING. ALL SURFACE BONDING CEMENTS MUST COMPLY WITH ASTM C887. (WHEN SURFACE BONDING CEMENT IS USED THE FIRST COURSE OF CONCRETE BLOCKS MUST BE LAID IN TYPE M OR S MORTAR). ALL FOUNDATION AND/OR PIER CONSTRUCTIONS MUST COMPLY WITH THE MINIMUM SPECIFICATIONS PROVIDED ABOVE.
- ALL REINFORCEMENT BARS SHALL COMPLY WITH ASTM A615, GRADE 60. REINFORCEMENT BARS SHALL BE EQUALLY SPACED AND PLACED WITH 3" CLEARANCE FROM BOTTOM AND SIDES OF THE FOOTING.
- CHASSIS STEEL BEAM SUPPORT PIERS MUST BE INSTALLED WITH THE CENTERLINE OF EACH PIER LOCATED DIRECTLY BELOW THE STEEL BEAM CENTERLINE.
- ALL PIERS SHALL BE CAPPED WITH 2x8 SYP PRESSURE TREATED SILL PLATES INSTALLED OVER 4" THICK CONCRETE CAP BLOCKS COVERING THE ENTIRE PIER.
- INSTALL A CONC. BLOCK PIER ON EACH SIDE OF ALL EXTERIOR DOOR OPENINGS. SLIGHT ADJUSTMENTS MAY BE REQUIRED TO INSURE OPENABILITY AFTER INSTALLATION OF BUILDING IS COMPLETE.
- CHASSIS STEEL BEAM SUPPORT PIERS MAY BE ROTATED 90 DEGREES FROM THE ORIENTATION SHOWN ON THE FOUNDATION PLAN ABOVE (SEE NOTE #8).
- MIN. 2000 PSF ALLOWABLE SOIL BEARING CAPACITY IS ASSUMED. IF THE ACTUAL SOIL BEARING CAPACITY IS LESS THAN 2000 PSF, THE DESIGN ENGINEER MUST BE CONSULTED FOR AN ALTERNATE FOUNDATION DESIGN. ALL FOOTINGS SHALL BE PLACED ON STABLE AND ON NON-EXPANSIVE SOILS ONLY.
- ALL GROUND ANCHORS SPECIFIED ON THIS DRAWING MUST BE CERTIFIED BY A PROFESSIONAL ENGINEER OR A RECOGNIZED THIRD-PARTY TESTING LABORATORY TO ADEQUATELY SUPPORT A MIN. 5000# ULTIMATE WITHDRAWAL LOAD WHEN LOADED BOTH PARALLEL WITH THE ANCHOR SHAFT AND AT A 45° ANGLE (WITH STABILIZER PLATE) FROM THE ANCHOR SHAFT.
- THE GROUND ANCHORS MUST BE INSTALLED TO THEIR FULL DEPTH IN ACCORDANCE WITH THE MANUFACTURERS INSTRUCTIONS. GROUND ANCHORS MUST BE APPROVED FOR INSTALLATION IN THE SOIL TYPE IN WHICH THEY WILL BE INSTALLED AND MUST EXTEND BELOW THE FROST DEPTH



NEW BAXLEY, LLC
DBA IMPACT HOUSING
137 WEST PARK DR.
BAXLEY, GA. 31513

DATE: 2/27/22		
CODES: IRC		
LABELS: FL	REVISIONS:	DRAWN BY: C.A. Leblanc
SCALE: NTS		
MODEL: 1668004GSH REFERENCE FOUNDATION	PLAN NO. IHG-32FL	SHEET I OF I
WILLIAM J. KALKER, JR., P.E. CONSULTING ENGINEER	33 ROCKWOOD LANE MONROE, CT 06468 (203) 261-1167	

Job 108483	Truss P2092901	Truss Type QUEENPOST	Qty 1	Ply 1	High Line Structures 407 GA
UFP Industries Inc., Grand Rapids, MI 49525, Weston Gorby Copyright © 2021 UFP Industries, Inc. All Rights Reserved					Ref. #10014869 Tue Dec 14 14:40:49 2021 Page 1 of 1

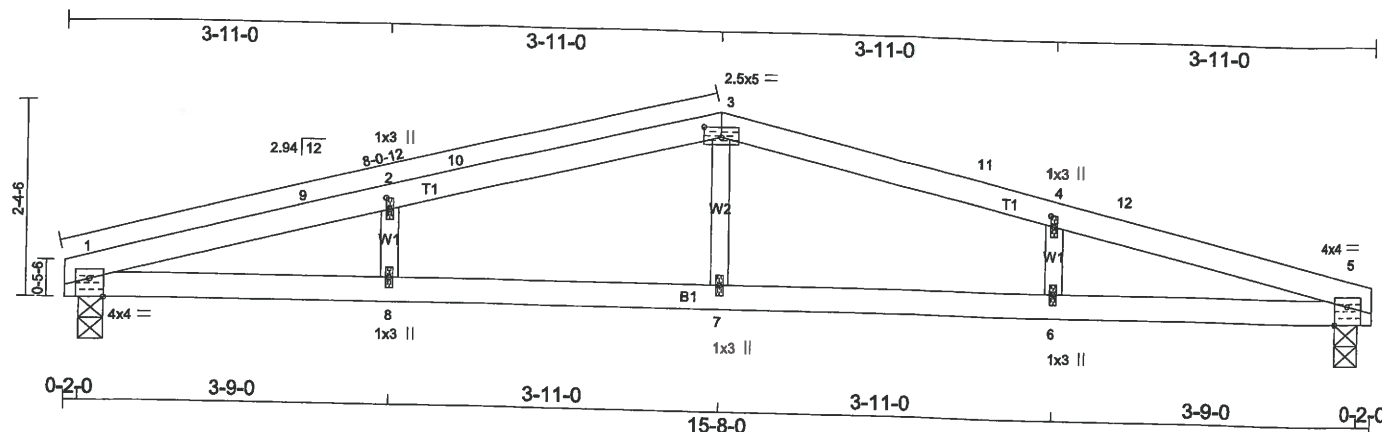


Plate Offsets (X,Y) - [1:0-2-0,Edge], [2:0-1-10,0-0-8], [3:0-2-8,0-1-7], [4:0-1-10,0-0-8], [5:0-2-0,Edge]

SPACING-: 2-0-0 LOADING (psf) TCLL 20.0 TCDL 7.0 BCLL 0.0 * BCDL 7.0	SPACING-: 1-4-0 LOADING (psf) TCLL 30.0 TCDL 10.5 BCLL 0.0 * BCDL 10.5	SPACING-: 2-0-0 Plate Grip DOL 1.25 Plate Metal DOL 1.00 Lumber DOL 1.25 Rep Stress Incr YES Code FBC2020/TPI2014	CSI. TC 0.89 BC 0.98 WB 0.10 Matrix-P	DEFL. Vert(LL) 0.27 in (loc) 8 Vert(CT) 0.24 in (loc) 8 Horz(CT) 0.02 in (loc) 5	PLATES WAVE Weight: 51 lb FT = 0%
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LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.1
WEBS 2x3 SP No.2

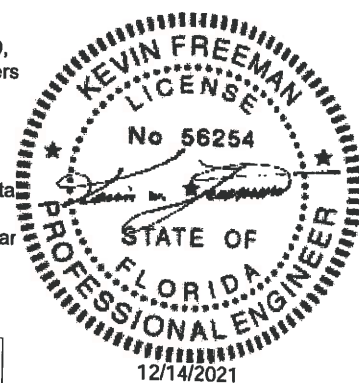
BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-5-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 4-7-4 oc bracing.

REACTIONS. (lb/size) 1=523/0-3-8 (min. 0-1-8), 5=523/0-3-8 (min. 0-1-8)
Max Horz 1=-65(LC 15)
Max Uplift 1=-415(LC 6), 5=-415(LC 7)

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-9=-1173/1472, 2-9=-1133/1474, 2-10=-1149/1553, 3-10=-1132/1556, 3-11=-1132/1556,
4-11=-1149/1553, 4-12=-1133/1474, 5-12=-1173/1472
BOT CHORD 1-8=-1349/1100, 7-8=-1349/1100, 6-7=-1349/1100, 5-6=-1349/1100
WEBS 3-7=-339/303, 2-8=-128/294, 4-6=-128/294

NOTES-

- 1) This truss has been checked for uniform roof live load only, except as noted.
- 2) Wind: ASCE 7-16; Vult=150mph (3-second gust) Vasd=116mph @24in o.c.; TCDL=2.8psf; BCDL=2.8psf; (Alt. 180mph @16in o.c.; TCDL=4.2psf; BCDL=4.2psf); h=30ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 4-10-0, Exterior(2R) 4-10-0 to 10-10-0, Interior(1) 10-10-0 to 12-6-4, Exterior(2E) 12-6-4 to 15-6-4 zone; cantilever left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60 Plate metal DOL=1.00
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 ta by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 415 lb uplift at joint 1 ar 415 lb uplift at joint 5.
- 7) This design has been checked for Alpine Wave 20 gauge plates.



The professional engineering seal indicates that a licensed professional engineer has designed the truss under the standards referenced within this document, not necessarily the current state building code. The engineering seal is not an approval to use in a specific state. The final determination on whether a truss design is acceptable under the locally adopted building code rest with the building official or designated appointee.

WARNING - Verify design parameters and READ NOTES

Truss shall not be cut or modified without approval of the truss design engineer.
This component has only been designed for the loads noted on this drawing. Construction and lifting forces have not been considered. The builder is responsible for lifting methods and system design. Builder responsibilities are defined under TPI1. This design is based only upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of building designer - not truss designer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to insure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult BCSI 1-06 from the Wood Truss Council of America and Truss Plate Institute Recommendation available from WTCA, 6300 Enterprise LN, Madison, WI 53719

UFP Industries, Inc.
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GRAND RAPIDS, MI 49525



FLORIDA BUILDING CODE, ENERGY CONSERVATION	
Residential Building Thermal Envelope Approach	
FORM R402—2020	R-Value Computation Method
	Florida Climate Zone 1B2
PROJECT NAME AND ADDRESS:	BUILDER: IMPACT HOUSING
OWNER:	PERMITTING OFFICE:
PERMIT TYPE:	JURISDICTION NUMBER:
WORST CASE?	PERMIT NUMBER:
	NUMBER OF UNITS:
	CONDITIONED FLOOR AREA: 1043 FT²

Scope: Compliance with Section R402.1.2 of the Florida Building Code, Energy Conservation, shall be demonstrated by the use of Form R402 for single- and multiple-family residences of three stories or less in height, additions to existing residential buildings, alterations, renovations and building systems in existing buildings, as applicable. To comply, a building must meet or exceed all of the energy efficiency requirements and applicable mandatory requirements summarized on this form. If a building does not comply with this method, or by the UA Alternative method, it may still comply under Section R405 or R406 of the Florida Building Code, Energy Conservation.

General Instructions:

1. Fill in all the applicable spaces of the "INSTALLED" row in the INSULATION AND FENESTRATION REQUIREMENTS BY COMPONENT table with the information requested. All "INSTALLED" values must be equal to or more efficient than the required levels. "AVG" indicates an area weighted average is allowed; "LOWEST" indicates the lowest R-value to be installed must be entered.
2. Complete the tables for air infiltration and installed equipment.
3. Read the MANDATORY REQUIREMENTS table and check each box to indicate your intent to comply with all applicable items.
4. Read, sign and date the "Prepared By" certification statement at the bottom of this form. The owner or owner's agent must also sign and date the form.

INSULATION AND FENESTRATION REQUIREMENTS BY COMPONENT¹

REQUIREMENTS	FENESTRATION U-FACTOR ^{2, 3, 4}	SKYLIGHT ² U-FACTOR	GLAZED FENESTRATION SHGC ^{2, 3}	CEILING R-VALUE	WOOD FRAME WALL R-VALUE ⁵	MASS WALL R-VALUE ^{5, 6}	FLOOR R-VALUE	BASEMENT WALL R-VALUE	SLAB ⁷ R-VALUE & DEPTH	CRAWL SPACE WALL R-VALUE
CLIMATE ZONE 1	NR	0.75	0.25	30	13	3/4	13	0	0	0
CLIMATE ZONE 2	0.40	0.65	0.25	38	13	4/8	13	0	0	0
VALUE	AVG	AVG	AVG	LOWEST	LOWEST	LOWEST	LOWEST	LOWEST	LOWEST	LOWEST
INSTALLED:	35		25	R38	R13		R13			

R-Value Calculation Method - [PASS / FAIL]

For SI: 1 foot = 304.8 mm; NR = No requirement.

- (1) R-values are minimums, U-factors and SHGC are maximums. When insulation is installed in a cavity which is less than the label or design thickness of the insulation, the installed R-value of the insulation shall not be less than the R-value specified in the table.
- (2) The fenestration U-factor column excludes skylights. The SHGC column applies to all glazed fenestration. Exception: Skylights may be excluded from glazed fenestration SHGC requirements in Climate Zones 1 through 3 where the SHGC for such skylights does not exceed 0.30.
- (3) For impact rated fenestration complying with Section R301.2.1.2 of the Florida Building Code, Residential or Section 1609.1.2 of the Florida Building Code, Building, the maximum U-factor shall be 0.65 in Climate Zone 2. An area-weighted average of U-factor and SHGC shall be accepted to meet the requirements, and up to 15 square feet of glazed fenestration area are exempted from the U-factor and SHGC requirement based on Section R402.3.1, R402.3.2 and R402.3.3.
- (4) One side-hinged opaque door assembly up to 24 square feet is exempted from this U-factor requirement based on Section R402.3.4.
- (5) R-values are for insulation material only as applied in accordance with manufacturer's installation instructions.
- (6) The second R-value applies when more than half the insulation is on the interior of the mass wall.
- (7) R-5 shall be added to the required slab edge R-values for heated slabs. Insulation depth shall be the depth of the footing or 2 feet, whichever is less in Climate Zones 1 through 3 for heated slabs.

Air Infiltration:	Blower door test is required on the building envelope to verify leakage 7 ACH50; test report must be provided to code official before CO is issued Florida Building Code, Energy Conservation Section R402.4.1.2 testing exception may apply for additions, alterations, or renovations.
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WILLIAM J. KALKER, JR., P.E.
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MONROE, CT 06468

2020 FLORIDA ENERGY CODE
MODULAR BUILDING THERMAL ENVELOPE
PRESCRIPTIVE COMPLIANCE FORM R402-2020
FOR PLAN NO.

114-32FL



WJ Kalker

1/27/22

IMPACT HOUSING