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498 SQ. FT. NET ZERO DEMO HOME







LIST OF DRAWINGS:

01 - COVER SHEET 02- SITE PLAN 03- GENERAL NOTES 04- FOUNDATION PLAN 05- FOUNDATION DETAILS 06- MAIN LEVEL FLOOR PLAN 07- SECOND FLOOR PLAN 08- FRONT & LEFT ELEVATIONS 09- RIGHT ≰ REAR ELEVATIONS 10- FLOOR FRAMING I I - ROOF FRAMING PLAN I 2- STAIR DETAIL & TYPICAL WALL DETAIL 13- FRAMING DETAILS 14- CROSS SECTIONS 15- ELECTRICAL PLANS

PROJECT DESIGN GUIDELINES:

SEISMIC ZONES D WIND 90 MPH (3 SECOND GUSTS) EXPOSURE B FROST DEPTH 30" FLOOR LOAD 50 PSF (40 LIVE + 10 DEAD) ROOF LOAD 55 PSF (40 LIVE + 15 DEAD) ROOF SNOW LOAD (40 PSF LIVE) GROUND SNOW LOAD (50 PSF LIVE) ASSUMED SOIL BEARING CAPACITY 1,500 PSF

PROJECT PERSONNEL DIRECTORY / CONTAFCT INFORMATION:

BEN BARTHOLOMEW	DOCUMENTATION MANAGER	BARTHO
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ROOM DIMENSIONS THE FOLLOWING ARE TYPICAL MINIMUM RECOMMENDED ROOM DIMENSIONS:

MINIMUM ROOM SIZE IS TO BE 70 SQ FT.
 CEILING HEIGHT MINIMUM IS TO BE 7'-6" IN 50% OF AREA EXCEPT 7'-0" CAN BE USED FOR BATHROOMS AND HALLWAYS.

- TURAL UGHT AND VENTULATION IE FOLLOWING ARE TYPICAL MINIMUM RECOMMENDED STANDARDS FOR LIGHTING AND VENTULATION: MINIMUM WINDOW AREA IS TO BE 8% OF THE FLOOR AREA WITH NOT LESS THAN 10 SQ FT FOR HABITABLE ROOMS AND 3 SQ FT FOR BATHROOMS AND LAUNDRY ROOMS. NOT LESS THAN ONE-HALF OF THIS REQUIRED WINDOW AREA IS TO BE OPENABLE. EVERY SLEEPING ROOM IS REQUIRED TO HAVE A WINDOW OR DOOR FOR EMERGENCY EXIT. WINDOWS WITH AN OPENABLE AREA OF NOT LESS THAN 5.7 SQ FT WITH NO DIMENSION LESS THAN 22" MEET THIS REQUIREMENT, AND THE SILL HEIGHT IS TO BE NOT MORE THAN 44" LAUNT STATE SLOOP ABOVE THE FLOOR. GLASS SUBJECT TO HUMAN IMPACT IS TO BE TEMPERED GLASS. GLASS SODORS IN SHOWER AND TUB ENCLOSURES ARE TO BE TEMPERED GLASS OR FRACTURE-RESISTANT PLASTIC. ATTIC VENTILATION IS TO BE A MINIMUM OF 1/300 OF THE ATTIC AREA, ONE-HALF IN THE SOFFIT AND ONE-HALF IN THE UPPER AREA. BATHROOM AND KITCHEN FANS AND DRYER ARE TO VENT DIRECTLY OUTSIDE. ATTICS TO VENTILATED ACCORDING TO THE REQUIREMENTS OF SECTION R806.2 OF THE 2012 IRC. SEE ELEVATION DRAWINGS FOR LOCATIONS OF ROOF VENTS.

- WINDOWS

 All WINDOW GLASS WITHIN 24 INCHES OF EXTERIOR DOORS MUST BE TEMPERED.

 All WINDOW GLASS WITHIN 24 INCHES OF EXTERIOR DOORS MUST BE TEMPERED.

 All WINDOWS USED FOR SLEEPING SHALL HAVE SILLS NOT MORE THAN 44 INCHES ABOVE FLOOR WITH AN NET CLEAR OPENING OF NOT LESS THAN 5.7 SQUARE FEET. HEIGHT OF OPENING SHALL NOT BE LESS THAN 24 INCHES, WITH A NET CLEAR WIDTH OF

 All WINDOWS USED FOR SLEEPING SHALL HAVE SILLS NOT MORE THAN 44 INCHES ABOVE FLOOR WITH AN NET CLEAR OPENING OF NOT LESS THAN 5.7 SQUARE FEET. HEIGHT OF OPENING SHALL NOT BE LESS THAN 24 INCHES, WITH A NET CLEAR WIDTH OF

- FOUNDATION THE FOLLOWING ARE TYPICAL MINIMUM RECOMMENDED REQUIREMENTS FOR FOUNDATION CONSTRUCTION: THE FOLLOWING ARE TYPICAL MINIMUM RECOMMENDED REQUIREMENTS FOR FOUNDATION CONSTRUCTION: CONCRETE MIX IS TO HAVE A MINIMUM ULTIMATE COMPRESSIVE STRENGTH OF 2500 POUNDS PER SQUARE INCH (PSI) AT 26 DAYS AND SHALL BE COMPOSED OF I PART CEMENT, 3 PARTS SAND, 4 PARTS OF I* MAXIMUM SIZE ROCK, AND NOT MORE THAN 7 1/2
- CONCRETE MX IS TO HAVE A MINIMUM UITIMATE COMPRESSIVE STRENGTH OF 2500 POUNDS PER SQUARE INCH (PSI) AT 28 DAYS AND SHALL BE COMPOSED OF 1 PART CEMENT, 3 PARTS SAND, 4 PARTS OF 1* MAXIMUM SIZE ROCK, AND NOT MORE THAN 7 1/2 GALONS OF WATER PER SACK OF CEMENT. FOUNDATION MUD-SILLS, PLATES, AND SUEPERS ARE TO BE PRESSURE TREATED OR OF FOUNDATION-GRADE REDWOOD. ALL POOTING SILLS MUST HAVE FULL BEARING ON THE FOOTING ON SILLS AND SHALL BE BOLTED TO THE FOUNDATION WITH 1/2* X 10° BOLTS EMBEDDED AT LEAST 7* INTO THE CONCRETE OR REINFORCED MASONRY, OR 15* INTO UN-REINFORCED GROUTED MASONRY. BOLTS CANNOT BE SFACED MORE THAN 6*. APART ON CENTER, WITH BOLTS SPACED NO MORE THAN 1/2* FROM CUT END OF SILLS. BASEMENT FOUNDATION WALLS WITH A HEIGHT OF 8' OR LESS SUPPORTING A WELLDRAINED POROUS FILL OF 7' OR LESS, WITH SOL PRESSURE NOT MORE THAN 30 POUNDS PER SQUARE FOOT (PSF) EQUIVALENT FLUID PRESSURE, AND WITH THE BOTTOM OF THE WALL SUPPORTID FROM INVARD MOVEMENT DY STRUCTURAL FLOOR SYSTEMS MAY BE OF TAIN CONCRETE WITH 8' MINIMUM THICKNESS AND MINIMUM UITIMATE COMPRESSIVE STRENGTH OF 2500 PSI AT 28 DAYS. BASEMENT WALLS SUPPORTING BACKFILL AND NOT
- MEETING THESE CRITERIA MUST BE DESIGNED IN ACCORDANCE WITH ACCEPTED ENGINEERING PRACTICES. CONCRETE FORMS FOR FOOTINGS NEED TO CONFORM TO THE SHAPE, LINES, AND DIMENSIONS OF THE MEMBERS AS CALLED FOR ON THE PLANS AND SHOULD BE SUBSTANTIAL AND SUFFICIENTLY TIGHT TO PREVENT LEAKAGE OF MORTAR AND SLUMPING OUT OF CONCRETE FORMS FOR FOOTINGS
- CONCRETE IN THE GROUND CONTACT AREA.

- FRAMING THE FOLLOWING ARE TYPICAL MINIMUM RECOMMENDED REQUIREMENTS FOR WOOD FRAME CONSTRUCTION: LUMBER SPECIFICATIONS: ALL JOISTS, RAFTERS, BEAMS, AND POSTS 2" TO 4" THICK SHOULD BE NO. 2 GRADE DOUGLAS FIR-LARCH OR BETTER. ALL POSTS AND BEAMS 5" AND THICKER MUST BE NO. 1 GRADE DOUGLAS FIR-LARCH OR BETTER. UNTREATED BEAMS BEARING IN CONCRETE OR MASONRY WALL POCKETS NEED AIRSPACE ON SIDES AND ENDS. 2011/0 1/35 TO HAVE NOT LESS THAN 4" OF BEARING ON MASONRY OR CONCRETE.

- LUMBER SPECIFICATIONS: ALL JOISTS, RAFTERS, BEAMS, AND POSTS 2*TO 4* THICK SHOULD BE NO. 2 GRADE DOUGLAS FIRLARCH OR BETTER. ALL POSTS AND BEAMS DE AND THICKER MUST BE NO. 1 GRADE DOUGLAS FIRLARCH OR BETTER. UNTREATED BEAMS BEARING IN CONCERTE OR MASONRY OR CONCRETE. WALL BRACING SPECIFICATIONS: EVERY EVERICIN WOOD OF JUD WALL NOR LESS THAN 1 'S 'OH INDEXING. STOPS' 2*TO 4' THICK SHOULD OF JUD WALL ROCKETE. WALL BRACING SPECIFICATIONS: EVERY EVERICIN WOOD OF JUD WALL NOR LESS THAN 1 'NO MASONRY. FLOOR JOISTS ARE TO HAVE SOLD BLOCKING AT EACH SUPPORT AND AT THE ENDS EXCEPT WHEN THE END IS HALED TO A RIM JOIST OR ADJOINING STUDS. JOISTS 2X I 4 OR LARGER ARE TO HAVE BRIDGING AT MAXIMUM INTERVALS OF 8'. TWO-INCH CLEARANCE IS REQUIRED BETWEEN COMBUSTIBLE MATERIAL AND THE WALLS OF AN INTERIOR FIREPLACE OR CHIMNEY. ONE-INCH CLEARANCE IS REQUIRED WHEN THE CHIMNEY IS ON AN OUTSIDE WALL OR 1/2'' MOISTURE-RESISTANT GYPSUM BOARD CAN BE USED RATHER THAN THE 'I' CLEARANCE BE NOT LESS THAN 45' TO THE HORIZONTAL. RAFTER FURIN BRACES ARE TO BE NOT LESS THAN 45' TO THAT THE IX'A MINIMUM SPACED NOT MORE THAN 4' ON CENTER. PROVIDE A DOUBLE TOP FLATE WITH A MINIMUM 48' LAP SPLUE. METAL TRUSS SILE DOWNS ARE TO BE REQUIRED FOR MANUFACTURED TRUSSES AT EACH END. PLANT MANUFACTURED TRUSSES (IF USED) MUST BE OF AN APPROVED DESIGN WITH AN ENGINEERED DRAWING. FIRE BLOCKING MUST BE FROVIDED FOR WALLS OVER UNDERS SITE ACH END. PLANT MANUFACTURED TRUSSES (IF USED) MUST BE OF AN APPROVED DESIGN WITH AN ENGINEERED DRAWING. FIRE BLOCKING MUST BE FROVIDED FOR WALLS OVER UNDERS SITE ACH END. PLANT MANUFACTURED TRUSSES (IF USED) MUST BE OF AN APPROVED DESIGN WITH AN ENGINEERED DRAWING. FRAMIC IN THE WATER.SATEND BE NOTERIZED TO A WATER-SPLASH AREA. BUILLING PROVIDED FOR WALLS OVER UNDERS SIDING. FRAMIC IN THE WATER.SATEND FROM CONCRETE ON OW THERER FOOL OF DYSEM, OR OTHER APPROVED SUBSTITUTE. POST-NAN-DEBACCONNECTION SECONDERS SIDING. FRAMING IN THE WATER.SATEND BE DROTECTED BY WATERFROOP FAPER, WATERFROOP GYPSUM, OR OTHER APPROV

- GAP ALL WAFERBOARD SHEATHING. INSTALL H-CLIPS ON ROOF SHEATHING.

INSTALL HEAR'S ON ROOT SHEARING. TRUSSES SHALL BE ENGINEERED AND CONSTRUCTED BY MANUFACTURER AND GUARANTEED TO WITHSTAND LOADS AS REQUIRED BY LOCAL CODES. ALL BL-PASS DOORS SHALL BE FRAMED ONE INCH SMALLER IN WIDTH THAN THE DOOR. EXAMPLE: A 4-0° SLIDER SHALL HAVE A 47 INCH ROUGH OPENING. FURTHERMORE, BI-FOLD DOORS SHALL BE FRAMED I' WIDER THAN DOOR AND 82" IN HEIGHT (VERSUS 83" IN HEIGHT FOR BI-PASS DOORS). ALL NON-BEARING INTERIOR FRAMING SHALL BE AT I G INCHES ON CENTER (UNLESS OTHERWISE NOTED).

- ALL NON-BEARING INTERIOR FRAMING SHALL BE AT 16 INCHES ON CENTER (UNLESS OTHERWISE NOTED). FRAMING TO INCLUDE ALL PURP DOWNS, PLATISHELVES, AND CELLING JOISTS PER PLAN. LADDER BLOCKING AT ALL INTERIOR WALL INTERSECTIONS WITH BYTERIOR WALL. WHERE NOT NOTED OTHERWISE, CONNECT ALL WOOD TO CONCRETE, WOOD TO STEEL, AND WOOD TO WOOD (EXCEPT STUD TO PLATE) WITH METAL CONNECTORS (SIMPSON OR EQUAL) OR USE IRC 2006 TABLE RG02.3. SOLID 2* NOMINAL BLOCKING SHALL BE PROVIDED AT ENDS OR POINTS OF SUPPORT OF ALL WOOD JOISTS AND TRUSSES. INSTALL JOIST, RAFTER, AND BEAM HANGERS AND POST CAPS PER MANUFACTURERS SPECIFICATIONS. ALL MULTIRE LATERS AND DEARS HAND POST CAPS PER MANUFACTURERS SPECIFICATIONS. ALL MULTIRE TRATES AND DEARS FOR CONTRECTED TO THE FOUNDATION WITH J BOLIST STROUCH BORTH MEMBERS ARE ALLOWED WITHOUT ENGINEERING. NUTRIES LANDERS DEPORT OF BUTCHEN THAT GROUPED AT THE SECTION IN THE SECT

- NO MORE HAN IVES INLEPARES CONNECTED TO THE FOUNDATION WITH 3 DOLES TREADED THE FASTENING READERS ARE ALLOWED WITHOUT ENGINEERING. MULTIPLE MEMBER LEDGERS ARE NOT ALLOWED. WITHOUT ENGINEERING THAT SHOWS THE FASTENING IS ADEQUATE. BLOCK ALL HORIZONTAL EDGES OF PLYWOOD WALL SHEATHING WITH 2 INCH NOMINAL BLOCKING. BLOCK EDGES OF PLYWOOD ON FLOORS AND ROOFS AS DIRECTED ON DRAWINGS. ALL LEDGER BOLTS SHALL HAVE PLATE WASHERS WITH A MINIMUM DIAMETER EQUAL TO THREE TIMES THE BOLT DIAMETER UNLESS SHOWN OTHERWISE IN DETAILS.
- MINIMUM NAILING SHALL BE AS PER TABLE GO2.3 (1) OF THE 2012 IRC. FASTENERS SUCH AS STAPLES CAN ONLY BE SUBSTITUTED FOR NAILS AT A RATE EQUAL TO LOAD VALUES PROVIDED BY I.C.B.O. APPROVAL. HOWEVER, ALL FLOOR SHEATHING MUST BE FASTENED WITH CONTINUOUS GLUE BEAD AND RING SHANK NAILS (NO
- SUBSTITUTION).
- Departments, PROVIDE HOLDOWINS AT SHEAR WALLS AS INDICATED ON THE FOUNDATION PLAN. WOOD BEAMS CONSISTING OF TWO OR MORE PIECES SHALL HAVE THE PIECES SECURELY BOLTED OR NAILED TOGETHER TO PREVENT SEPARATION AND TO INSURE MUTUAL LOAD SHARING. EACH INTERCONNECTED PIECE SHALL BE CONTINUOUS BETWEEN SUPPORTS, AND SUPPORTS SHALL HAVE THE SAME WIDTH AS THE COMPOSITE BEAM. SHELVES IN DEORFOOM CODESTS TO BE 12'IN DEPTH. SHELVES IN DEORFSTOR DE 16'. IN CLOSETS WITH DISUBLE SHELVES, UPPER SHELP TO BE AT 44' AND LOWER SHELP TO BE AT 42'. IN CLOSETS WITH DISUBLE SHELVES, UPPER SHELP TO BE AT 72' ABOVE FINISHED PLOOR. STUD WALLS THAT ARE ION IN HEIGHT OR MORE SHALL BE FRAMED WITH STUDS SPACED AT 16' O.C. STUD WALLS OVER 10 IN HEIGHT OR MORE SHELP FROM DE 100 CO. STUD WALLS OVER 10 IN HEIGHT OR MORE SHALL BE FRAMED WITH STUDS SPACED AT 16' O.C. STUD WALLS OVER 10 IN HEIGHT OR MORE SHALL BE FRAMED WITH STUDS SPACED AT 16' O.C. STUD WALLS OVER 10 IN HEIGHT OR MORE SHALE FRAMED WITH STUDS SPACED AT 16' O.C. STUD WALLS OVER 10 IN HEIGHT OR DOT SHORE SHALL BE FRAMED WITH STUDS SPACED AT 16' O.C. STUD WALLS OVER 10 IN HEIGHT OR MORE SHALE FRAMED WITH STUDS SPACED AT 16' O.C. STUD WALLS OVER 10 IN HEIGHT OR DORE SECTION GO2.8 OF THE 2012 IRC. MEMDER AROLES SHALL BE AS FOLLOWS: INCOMPT AND REASHING: 340'05B (T 4 G) INCOMPT AND REASHING: 340'05B (T 4 G) WALLS HEATHING: 1932'OSB WITH H-CLIP5 (U.N.O.) ROOF SHEATHING: 1932'OSB WITH H-CLIP5 (U.N.O.) ROOF SHEATHING: 1932'OSB WITH H-CLIP5 (U.N.O.)

- CHIMNEY AND FIREPLACE THE FOLLOWING ARE TYPICAL MINIMUM RECOMMENDED REQUIREMENTS FOR CHIMNEY AND FIREPLACE CONSTRUCTION: REINFORCING SPECIFICATIONS: MASONRY-CONSTRUCTED CHIMNEYS EXTENDING MORE THAN 7 ABOVE THE LAST ANCHORAGE POINT, SUCH AS THE ROOFLINE, MUST HAVE NOT LESS THAN FOUR #4 STEEL REINFORCING BARS PLACED VERTICALLY FOR THE FULL HEIGHT OF THE CHIMNEY WITH HORIZONTAL TIES NOT LESS THAN 1/4' DIAMETER SPACED AT NOT OVER 1/8' INTERVALS. IF THE WIDTH OF THE CHIMNEY EXCEEDS 40', TWO ADDITIONAL #4 VERTICAL BARS NEED TO BE FROVIDED FOR EACH ADDITIONAL FLUE OR FOR EACH ADDITIONAL 40' IN WIDTH OR FRACTION THEREOF. ANCHORAGE SPECIFICATIONS: ALL MASONRY CHIMNEYS OVER 1/8' HIGH SHALL BE ANCHORED AT EACH FLOOR AND/OR CEILING LINE MORE THAN 6' ABOVE GRADE, EXCEPT WHEN CONSTRUCTED COMPLETELY WITHIN THE EXTERIOR WALLS OF THE BUILDING.

- $\begin{array}{l} {\rm STARWAYS $ $ RAILING REQUIREMENTS} \\ {\rm THE FOLLOWING ARE TYPICAL IMINIMUM RECOMMENDED REQUIREMENTS FOR STAIRWAY CONSTRUCTION: \\ {\rm MAXIMUM INTERIOR STAIR RISE $$', MAXIMUM EXTERIOR STAIR RISE 7 3/4" \\ {\rm MINIMUM TREAD $9'} \\ {\rm MINIMUM INTERIOR $$O'' \\ {\rm MINIMUM INTERIOR $$G''. \\ {\rm MINIMUM I$

- WEATHER PROTECTION THE FOLLOWING ARE TYPICAL MINIMUM RECOMMENDED REQUIREMENTS FOR WHEATHERIZATION:

ALL JOINTS TRANSVERSE AND LONGITUDINAL SEAMS AND CONNECTION GAS LINES SHALL NOT PASS THROUGH OR PENETRATE ANY DUCT OR PLENUM.

- TOGETHER.
- INSTALL (1) LAYER NO. 40 COATED ROOFING OR COATED GLASS BASE (ICE & WATER SHIELD) AT ALL VALLEYS
- INSTALL (1) LATER NO. 30 CONTROL NOUTING ON COATED GLOSS BASE RICE 4 WAITES STIELD) AND ALL VALLETS.
 PROVIDE METAL FLASHING OR EQUAL AT FOUNDATIONS (OR WHERE MERCK MEETS STULCC) WHERE WAITER FROM WEATHER BARRIER COULD ENTER DWELLING.
 PROVIDE METAL FLASHING OR COUNTER-FLASHING, AND APPROVED CAULKING AT ALL EXTERIOR WINDOWS. MUST BE INSTALLED PER MANUFACTURERS SPECIFICATIONS.

- ABOVE THE FLOOR

 MINIMUM TEXPLOYED
 MINIMUM TEXPLOYED
 MINIMUM TEXPLOYED
 MINIMUM WIDTH 35:
 MINIMUM TEXPLOYED
 MINIMUM WIDTH 35:
 MINIMUM SHALL HAVE A DIMENSION, MEASURED IN THE DIRECTION OF TRAVEL, AT LEAST EQUAL TO STARWAY WIDTH.
 A DOOR MAY OPEN AT THE TOP STEP OF AN INTERIOR FLIGHT OF STARS, PROVIDED THE DOOR DOES NOT SWING OVER THE TOP STEP, AND RROVIDED THAT THE TOP STEP IS NO MORE THAN EIGHT INCHES LOWER THAN THE FLOOR LEVEL
 ENCLOSED USABLE SPACE UNDER STAIRWAY IS TO BE PROTECTED BY ONE-HOUR FIRE-RESISTANT CONSTRUCTION, SUCH AS 5/8' TYPE X GYPSUM BOARD.
 HANDRAILS ARE REQUIRED AT ALL STRIKWAY HAIVING THREE OR MORE RISERS.
 PROVIDE I 14" - 2-5/8' HANDRAILS 34" - 34" IN HEIGHT THAT RUN CONTINUOUS AND HAVE RETURNING ENDS TO WALL, NEWLE POST, OR SAFETY TERMINAL.
 HANDRAILS DEEPER THAN 2-5/8 INCHES SHALL HAVE FIREF REGOVES 34! NOT BY 1/4 INCH DEEP ROUTED THE ENTRE LENGTH OF AT LEAST ONE SIDE OF HANDRAIL.
 MINIMUM 36' HIGH GUARDRAILS ARE REQUIRED AT ALL LANDINGS OR DECKS OR FLOOR LEVELS THAT ARE MORE THAN THAN 30" APART IN DIMENSIONAL HEIGHT.
 BALUSTERS FOR GUARDRAILS ARE REQUIRED AT ALL LANDINGS OR DECKS OR FLOOR LEVELS THAT ARE MORE THAN THAN 30" APART IN DIMENSIONAL HEIGHT.
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 BALUSTERS FOR GUARDRAILS ARE REQUIRED AT ALL LANDINGS OR DECKS OR FLOOR LEVELS T NET-ZERO Tiny House GENERAL NOTES E POLLOWING AKE 1YTICAL MINIMUM RECOMMENDED REQUIREMENTS FOR WHATHEREZATION: COMPOSITION SHINGLES ON ROOF SLOPES BETWEEN 4/12 AND 7/12 AND 7/12 AND 7/12 MOST HAVE AN UNDERLAYMENT OF NOT LESS THAN 15-LB FELT. FOR SLOPES FROM 2/12 TO LESS THAN 4/12, BUILDING DEPARTMENT APPROVAL OF ROOFING MANUFACTURERS' LOWSLOPE INSTRUCTIONS IS REQUIRED. USE UNDERLAYMENT OF NOT LESS THAN 15-LB FELT WITH IN INTERLACE OF NOT LESS THAN 30-LB FELT. FOR SLOPES LESS THAN 4/12, SPECIAL APPROVAL IS REQUIRED. USE UNDERLAMENT OF NOT LESS THAN 15-LB FELT WITH AN INTERLACE OF NOT LESS THAN 30-LB FELT. FOR SLOPES LESS THAN 4/12, SPECIAL APPROVAL IS REQUIRED. ATTIC ACCESS IS TO HAVE A MINIMUM OF 22* 3 20° OF HEADROOM ABOVE. INSTALL (1) LAYER OF GRADE 'D' (15 LB.) FELT UNDER ASPHALT ROOF SHINGLES. INSTALL (1) LAYER OF GRADE 'D' (15 LB.) FELT UNDER RUNNIUM SIDING. INSTALL (1) LAYER OF GRADE 'D' (15 LB.) FELT UNDER RUNNIUM SIDING. INSTALL (2) LAYERS OF GRADE 'D' (15 LB.) FELT UNDER SHICK VENEER. INSTALL (2) LAYERS OF GRADE 'D' (15 LB.) FELT UNDER SHICK VENEER. INSTALL (1) LAYER NO. 40 COATED ROOPING OR COATED GLASS BASE (ICE & WATER SHIELD) FROM THE ROOF EAVES TO A LINE 24* INSIDE THE EXTERIOR WALL LINE WITH ALL LAPS CEMENTED INSTALL (1) LAYER NO. 40 COATED ROOPING OR COATED GLASS BASE (ICE & WATER SHIELD) FROM THE ROOF EAVES TO A LINE 24* INSIDE THE EXTERIOR WALL LINE WITH ALL LAPS CEMENTED PROVIDE TUSHING, COUNTREA DESTING, AND AFFRONCE CAUDING AT ALL EXTENDER WINDOWS. WINDOWS MUST BE INSTALLED FERMANDIAL COURLES STELLINGATIONS.
 THERMAL INSULATION AND HEATING
 THERMAL DESIGNS USING THE R.FACTOR MUST MEET MINIMUM R.FACTORS AS FOLLOWS:
 CEILING OR ROOF: FLAT R-38, VAUIDATION TYPE AND VALUES ARE DESCRIBED IN DETAIL IN CHAPTERS & AND WALLS: R.21, VAPOR BARRIER REQUIRED, WITH A MINIMUM ONE FREMEABILITY RATING.
 FLORS OVER UNHEATED CRAWL SPACE OR BASEMENTS: R-25 INCLUDING REFLECTIVE FOIL
 BASEMENT WALLS: R-21.
 SLAB-ON-GRADE: R-15 AROUND PRIMETER A MINIMUM OF I FOR TORING OF USED DEGREE DAY ZONE DO NOT REQUIRE THERMAL GLAZING ON THAT PORTION OF THE GLAZING THAT IS LESS THAN 2005 OFT WITH AN INIMUM AREA DESCRIBED IN DUES DEGREE DAY ZONE DO NOT REQUIRE THERMAL GLAZING ON THAT PORTION OF THE GLAZING THAT IS LESS THAN 2005 OFT REPORTIONS: HEATED PORTIONS OF BUILDINGS LOCATED IN THE SOOD OR LESS DEGREE DAY ZONE DO NOT REQUIRE THERMAL GLAZING ON THAT PORTION OF THE GLAZING THAT IS LESS THAN 2005 OFT REPORTIONS OF BUILDINGS INCLUDING BOORS AND WINDOWS. HEATED PORTIONS OF BUILDINGS LOCATED IN ZONES OVER SOOD-DEGREE DAY SONE SOOD OR LESS DEGREE. DAY ZONE DO NOT REQUIRE THERMAL GLAZING ON THAT PORTION OF THE GLAZING BYROUNDED WITH SPECIAL THERMAL GLAZING IN ALL EXTERIOR WALL AREAS.
 DUCT INSULATION SPECIFICATIONS: SUPPLY AND RETURN ANLE AREAS.
 DUCT INSULATION SPECIFICATIONS: SUPPLY AND RETURN ANLE AREAS.
 DUCT INSULATION SPECIFICATIONS: SUPPLY AND RETURN WALL AREAS.
 DUCT INSULATION SPECIFICATIONS: OR THERING WALLS AREAS TO DE INSULATED WITH AN R-& MINIMUM.
 HEATING SPECIFICATIONS: EVERY DWELLING UNIT AND GUEST ROOM MUST BE PROVIDED WITH HEATING FACILITIES CAPABLE OF MAINTAINING A ROOM TEMPERATURE OF 70°F (21°C) AT A POINT 3' ABOVE THE FLOCR. FIRE 6 CARGON MONOXODE WARNING SYSTEM
 FIRE 6 CARGON MONOXODE WARNING SYSTEM
 THE FOLLOWING ARE TYPICAL MINIMUM RECOMMENDED REQUIREMENTS FOR EMERGENCY WARNING SYSTEMS:
 PERMANENTLY WIRED SMOKE DETECTORS ARE REQUIRED AND MUST BE INSTALLED IN EACH SELEPTING ROOM AND AT A POINT CENTRALLY LOCATED IN THE CORRIDOR OR AREA GIVING ACCESS TO LEACH SEPARATE SLEEPING RAFA. WHITH THE DWELLING WITH AS MORE THAN ONE STORY AND IN DWELLINGS WITH BASEMENTS, A DETECTOR SHALL BE INSTALLED ON EACH STORY AND IN DWELLING STORY AND IN DWELLINGS WITH BASEMENTS, A DETECTOR SHALL BE INSTALLED ON EACH STORY AND IN BASEMENT. IN DWELLING WITH AND IN THE ALIAWAY DADI AT A BOOM OPEN TO THE HALLWAY SERVING THE BEDROOMS DXCEDS THAT OF THE HALLWAY BY 24' OR MORE, SMOKE DETECTORS SHALL SOUND AN LARAW AUDIES IN ALL SLEEPING ROOM AND AT A POINT CENTRAL DUIT IN WHICH THEY ABLOCATED. DETECTORS SHALL SOUND AN LARAW AUDIES IN ALL SLEEPING ROOM ON AND AT A POINT CENTRAL DUIT IN WHICH THEY ABLOCATED.
 DETECTORS MUST HAVE BATTEY BACKUP DETECTORS OF PRODUCTS OF COMBUSTION MOUNTED ON THE CELLING RAFA. OF THE CELING AT A POINT CENTRAL PLANE AND IN THE ASIGNAL WHEN THE BATTENEDS OF ROUTO THE CELING RAFA. AND IN THE OWNER IN CONTROL ON THE CELING OR A WALL WITHIN 12' OF THE CELING AT A POINT CENTRAL PLANE AND INTER DON'S OF PRODUCTS OF COMBUSTION MOUNTED ON THE CELING OR A WALL WITHIN 12' OF THE CELING AT A POINT CENTRAL PLANE AND WISED FOR SLEEPING. WHERE SLEEPING ROOMS ARE ON AND UPPER LEVEL, THE DETECTOR MUST BE PLANE DATIES OF AND INTO OVER 12' ROOM ROMS SUBD FOR SLEEPING. WHERE SLEEPING ROOMS ARE ON AND UPPER LEVEL, THE DETECTOR MUST BE PLANE DATIES OF AND NOT OVER 12' ROOM ROOMS SUBDE FOR SLEEPING. WHERE SLEEPING ROOMS ARE ON AND UPPER LEVEL, THE DETECTOR MUST BE PLANE DAWE AND PLANE DAVE SOFTAND SOFTAND AND AND SOFTAND ON THE CELING ONS ARE ON AND UPPER LEVEL, THE DETECTOR MUST BE PLANE DAWE AND AND SOFTAND ON THE CELING ONS ARE ON AND UPPER LEVEL, THE DETECTOR MUST BE PLANE DAWE AND AND ACCE KEYNOTES ENCLOSED ACTINGT RALE OF THE COLLING REAR THE LOT OF THE DIALWAYS SUFFACE AND ANY SOFFITS PROTECTED ON THE ENCLOSED SIDE WITH 1/2" GYP BOARD.
 ENCLOSED ACCESSIBLE SPACE UNDER STARS SHALL HAVE WALLS, UNDER STAR SUFFACE AND ANY SOFFITS PROTECTED ON THE ENCLOSED SIDE WITH 1/2" GYP BOARD.
 DOORS LEADING FROM GARAGE INTO UVING AREA SHALL BE SOLID WOOD, SOLID OR HONEYCOMB CORE STEEL DOORS NOT LESS THAN 1-3/8" THICK, OR HAVING A FIRE PROTECTION RATING OF DOUGLE LEVEN INTO WINES WITH STEED.
 CARBON MONOXIDE ALARMS SHALL BE INSTALLED ON EACH HABITABLE LEVEL OF A DWELLING UNIT EQUIPPED WITH FUEL BURNING APPLIANCES. CARBON MONOXIDE ALARMS SHALL HAVE I I O VOLT PERMANENT POWER WITH BATTERY BACKUP AND SHALL BE INTERCONNECTED WITH THE SMOKE DETECTORS.
 FIREPLACE CHIMNEYS MUST EXTEND 24 INCHES MINIMUM ABOVE ANY ROOF WITHIN A TEN FEET RADIUS. EXCAVATION, BACKFILL, AND GRADING ALL EXCAVATIONS FOR POOTINGS SHALL BE TO NATURAL, UNDISTURBED SOIL. ALL POOTINGS SHALL BE TACED ON UNDISTURBED EARTH AND BELOW FROST LINE (30' MINIMUM). TOPS OF FOUNDATION SHALL BE A MINIMUM OF & INCHES ABOVE FINISHED GRADE. DO NOT BACKFILL UNTIL FLOOR ABOVE THAS BEEN INSTALED. INTICH CRADING SHALL BE DONE 30 AS TO PROVIDE POSITIVE DRAINAGE AWAY FROM ALL BUILDING FOUNDATIONS, GRADE SHALL SLOPE AWAY & INCHES MINIMUM FOR THE FIRST O FEET FROM BUILDING. IF SOIL 15 TO BE PLACED OVER THE CURB, GUTTER, AND SIDEWALK TO ALLOW DRIVING EQUIPMENT OVER THE CONCRETE WITHOUT BREAKING IT, THEN AT LEAST A 4" DIAMETER PIPE SHALL BE PLACED IN THE GUTTER THROUGH THE DIRT TO ALLOW FOR DRAINAGE. PLUMBING (ALL WORK TO COMPLY WITH THE 2012 (PC) WATER HEATERS ARE TO BE STRAPPED AT THE UPPER ONE THIRD AND LOWER ONE THIRD WITH THE LOWER STRAP NOT CLOSER THAN 4" ABOVE CONTROLS. TOULETS SHALL BE 1, 6 AGLION RUBD TYPE, SHOWER HEADS SHALL BE 2.5 GPM TYPE. PROVIDE PRESSURE REGULATOR AND SHUT-OFF VALVE. INTERIOR WASTE AND VENT LINES SHALL BE A.6.8.5: PREZET-LESS, BACKHOW PREVENTION HOSE BIBS WITH ACCESSIBLE SHUT OFF VALVES REQUIRED. PREZET-LESS, BACKHOW PREVENTION HOSE BIBS WITH ACCESSIBLE SHUT OFF VALVES REQUIRED. PREDUMBING VENTS SHALL BE AT LEAST 2 FEET ABOVE OR IO FEET AWAY FROM ALL OUTSIDE AIR INTAKE OPENINGS. NO SUP JOINT FLUMBING CONNECTIONS ALLOWED IN CONCEALED BAREAS. INDDIVIDUALLY INSULATE ALL PLUMBING, WATER, AND DRAIN LINES IN AREAS SUBJECT TO PREZEING INSTALL VERANSION TAKEF FOR WATER HEATER, INSULATE HOT WATER LINES IN UNIFISI HEA AREAS WITH 1/2" FOAM. HEAT/CHECK VALVES REQUIRED AT WATER HEATER INLET AND OUTLET. PROVIDE ANTI-SCALD VALVES ON ALL SHOWER AND TUB/SHOWER INSTALLATIONS. TRANSLAL REFER TO ARCHITEGTURAL PLANS FOR EXACT LOCATION OF ALL MECHANICAL FIXTURES. VENTS SHALL TERMINATE 4 FEET BELOW OR 4 FEET HORIZONTALLY AND AT LEAST 1 FOOT ABOVE A DOOR, OPENABLE WINDOW, OR A GRAVITY AIR INLET INTO A BUILDING. FILLUE VENTS AND EXHAUST FAN VENTS SHALL BE AT LEAST 3 FEET ABOVE AN OUTSIDE AIR INLET LOCATED WITHIN 10 FEET AND AT LEAST 4 FEET FROM A PROPERTY LINE. NO CLOTH TYPE DUCT TAPE ALLOWED, METAL OR FOLL TAPE MUST BE USED. NS MUST BE PROPERLY. SEALED WITH TAPE OR MASTIC. NET ZERO ELECTRICAL
BATTRROOM RECEPTACLE OUTLETS SHALL BE SUPPLIED BY DEDICATED 20 AMP BRANCH CIRCUIT WITH NO OTHER OUTLETS.
BATTRROOM RECEPTACLE OUTLETS SHALL BE SUPPLIED BY DEDICATED 20 AMP BRANCH CIRCUIT WITH NO OTHER OUTLETS.
GROUND FAULT CIRCUIT PROTECTION REQUIRED FOR ALL 10 VOLT, SINGLE PHASE 15 AND 20 AMPERE RECEPTACLES INSTALLED IN BATTRROOMS, GRAGES, AND OUTDOORS WHERE THERE IS
DIRECT GRADE-LEVEL ACCESS TO DWILINGS AND POWER POLES. GFCI ALSO REQUIRED FOR ALL CONTRETOP LEVEL NITCHEN RECEPTACLES.
CATERORO RUTLETS MUST BE A MINIMUM OF IOWER POLES. GFCI ALSO REQUIRED FOR ALL CONTRETOP LEVEL NITCHEN RECEPTACLES.
CATERORO RUTLETS MUST BE A MINIMUM OF 10° ABOVE FLOOR.
ALL INCAMPESCENT LICATION RECUIRES RECEPSED INTO INSULATED AREA SHALL BE APPROVED FOR ZERO-CLEARANCE INSULATION COVER (I.C.) PER THE 200G MANDATORY ENERGY
REQUIREMENTS, CONDUIT FOR METER BASE SERVICE ENTRANCE SHALL BE ANCHORED FOR ZERO-CLEARANCE INSULATION COVER (I.C.) PER THE 200G MANDATORY ENERGY
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REQUIREMENTS, CONDUIT FOR METER BASE SERVICE ENTRANCE SHALL BE ANCHORED FOR THE DOWNDATION WITH UNI-STRUIT AND CONDUCT CLAAMPS (POMDER ACTUATED PASTENERS ARE NOT
ACCEPTABLE), OUTLETS SHALL BE SACEPACED ACCORDING TO PREVAILING CODES AS A MINIMUM REQUIREMENT. CATULA CONTER INVAL FUNAT FUNAT FUNAT SHOWS, METALLICU CUTER
SERVICE OR A CONCRETE E STUDIO 1748 EAST 4600 SOUTH OGDEN, UTAH MAIN LEVEL 320 Date 01/19/2016 LOFT LEVEL 178 TOTAL FIN. 498 *òcale* NOTED AS. BS. DLL. FA GENERAL NOTES GREER-RICH PORCH 141 heet SCALE: NONE 03 15_{Sheets}

3,00	3,000 PSI CONCRETE FOUNDATION SCHEDULE 60,000 PSI STEEL																				
MAX	MUM WALL	TOP	MIN.	VI WA	ERTICAL LL REINF.	HOI WA	RIZONTAL LL REINF.		ADI Fi	DITION DR OI	VAL RE PENING	NF. S		MAX.	MIN.	ADDITIONAL FTG.		NAL FTG. D REINE			
T.O	FOOTING	SUPPORT	WIDTH	SIZE	SPACING	SIZE	SPACING	AB NO.	OVE SIZE	Sli NO.	DES SIZE	BEI NO.	_OW SIZE	LENGTH	DEPTH	WIDTH		LENGTH	GTH FOUNDATION BOLT		.15
2'-0	" TO 5'-0'	NONE	6"	#4	32' O.C.	#4	12" O.C.	2	#4	1	#4	1	#4	2'	6"	SEE	FTG.	. SCHED.	i/2" X	10"@32"	0.C.
5'-1	" TO 6'-0'	NONE	8"	#4	18' O.C.	#4	18" O.C.	2	#4	1	#4	1	#4	3'	6'	36"	4	#4 x CONT	1/2" X	: 10" @ 32"	0.C.
G'- I	" TO 7'-0'	NONE	8"	#4	12' O.C.	#4	18" O.C.	2	#4	1	#4	1	#4	4'	8'	42"	5	#4 x CONT	i/2" X	: 10" @ 32"	0.C.
7-1	D" TO 8'-0"	FLOOR	8"	#4	24" O.C.	#4	18" O.C.	2	#4	1	#4	1	#4	5'	10'	SEE	FTG.	SCHED.	1/2" X	10" @ 32"	0.C.
8'- I	" TO 9'-0'	FLOOR	8"	#4	16' O.C.	#4	18" O.C.	2	#4	Ţ	#4		#4	6'	12'	SEE	SEE FTG. SCHED. 1/2' X 10" @ 3		10"@32"	0.C.	
9'-1'	TO 10'-0"	FLOOR	8'	#4	11" O.C.	#4	11" O.C.	2	#4	1	#4	1	#4	6'	12'	24"	2	#4 x CONT	5/8" X	: 10" @ 24"	0.C.
>	! 0'-0"+	REQ. ENG.	-	-	-	-	-	-	-	-	-	-	-	-	-	-			R	EQ. ENG.	
NOTES	10TES: FOOTING SCHEDULE									JLE											
2.	THE WALL. #4 FOOTING DOWELS SHALL EXTEND 24" INTO THE FOUNDATION AND MATCH VERTICAL STEEL								EMENT												
3.	3. ONE BAR SHALL BE LOCATED IN THE TOP 3" AND ONE BAR IN THE BOTTOM 3" OP THE FOUNDATION WALL. (THE									ENGTH.											
4.	BARS SH	ALL BE PLAC	ED WITHI	DL1 WI IN 2" (DF THE OF	ENING	AND EXTE	END	24" B	EYOI	ND TH	E ED	GE O	F THE OP	ENING.			F-1 20' 1 F-2 24' 1	CONT. 10' CONT. 10'	2 #4	CONT. CONT.
5.	THIS TAB	LE ASSUMES	6 A MININ	NUM (DF 1500 I	PSF BI	EARING CA	APAC	ITY, 3	8 PS	5F EQ	UIVA	LENT	FLUID PR	ESSURE	AND A		F-3 30' I	CONT. 10'	3 #4	CONT.
6.	GLOPALLI STADL STIL 6. ALL POUDATION STEPS SHALL BE 2'-0' MINIMUM.								A. WAY												
7.	USE 3" X	3" X 1/4" WA	SHERS,	IF SLC	DTTED WAS	5HER	S USED, A	4DD	CUT V	VASI	HER.							F-6 30'	30' 10'	3 #4 E	A. WAY
8.	J-BOLIS I	MAY BE REPI	LACED W	11H #4 ON 51	1 BARS @	12"(D.C. EXTEN	IDIN(9 24" FDUCE	OUI TO TO	+ OF ודום ר	ND (CIFIF	INTO SUS	FENDED	SLAB		F-8 42'	42' 10'	4 #4 E	A. WAY
0.	SCHEDUL	E, AND VERI	ICAL REE	BAR S	PACING O	F 24"	O.C. FOR	FOL	JNDA'		WALL	S M	AY BE	USED PR	OVIDED	THE					
	FOLLOWIN	IG CONDITIC	NS EXIS	Τ.	A. 5'-1" T	O 7'-C	" WALL LEI	NGTH	I NOT	TO I	EXCEE	DIC	D'-O".	B. UN	IBALANC	ED					
10	BACKFILL	DOES NOT I	EXCEED #	4' 525			TE: HOWE		AS F	FRI	RC 40	122	3.00		NCRETE	SHALL					
.	BE USED	SINCHOIN		5 2,5	0010100			. v LIX,	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		10 40		5,00	010100		STINCE					
	TU10 51101																				

NOTE: THIS ENGINEERING ASSUMES THAT THE CLEARANCE & SETBACK REQUIREMENTS LISTED IN IRC SECTION R403.1.7 ARE MET. IF THESE PROVISIONS ARE NOT MET, CONTACT THE ENGINEER FOR FURTHER DESIGN.

NOTE: THIS ENGINEERING ASSUMES THAT THE SITE IS STABLE HAVING NO GLOBAL STABILITY CONCERNS OR HAZARDS. IF THIS IS NOT TRUE THEN CONTACT ENGINEER FOR FURTHER ANALYSIS AND DESIGN.

FOOTING, FOUNDATION AND CONCRETE

ALL FOOTINGS ARE BASED ON ALLOWABLE SOIL BEARING PRESSURE OF 1500 PSF. FOOTINGS SHALL BEAR ON UNDISTURBED SOIL OR ENGINEERED GRANULAR FILL COMPACTED TO 95% OF MAXIMUM DENSITY. NO FOOTINGS SHALL BE PLACED IN WATER OR FROZEN GROUND. ALL FOOTINGS TO BE PLACE AT MIN. BELOW LOCAL FROST DEPTH, CONTINUOUS AND MONOLITHIC POUR. CHANGES IN ELEV. SHALL BE STEPPED WITH STEP HEIGHT NOT HIGHER THAN \sharp THE STEP LENGTH AND NOT GREATER THAN 5 FT. MIN. 6" THICKNESS ON VERT. STEP. FOOTINGS TO HAVE 2 #4 BAR CONTINUOUS. NOTIFY ENGINEER IF GRADE DROPS OVER 8 FEET IN 24 FEET (G.T. 1 TO 3 SLOPE) SO THAT APPROPRIATE DESIGN CHANGES MAY BE MADE TO FOUNDATION AND FOOTINGS.

ALL FOOTINGS, FOUNDATIONS, AND INTERIOR SLABS SHALL BE NORMAL WT. CONCRETE WITH A COMPRESSIVE STRENGTH EQUAL TO AT LEAST 2,500 PSI WITHIN 28 DAYS AFTER POURING. THE WATER/CEMENT RATIO SHALL BE NO GREATER THAN 350 WITH A MINIMUM CEMENT CONTENT OF 504 LBS. PER CUBIC YARD ALL CONC WORK SHALL BE PLACED, CURED, STRIPPED, AND PROTECTED AS DIRECTED BY THE SPECIFICATIONS AND ACI STANDARDS AND PRACTICES.

ALL REINFORCING SHALL BE DETAILED AND PLACED IN ACCORDANCE WITH ACI STANDARD 318. REINFORCEMENT SHALL BE FREE FROM MUD AND OIL AND OTHER NON-METALLIC COATINGS THAT HAMPER BONDING CAPACITY. ALL SPLICES IN CONTINUOUS REINFORCING SHALL LAP 30 BAR DIAMETERS.

VERT & HORZ. #4 BAR (GRADE 60) AS PER FND SCHEDULE. OPENINGS TO HAVE 1 VERT. #4 BAR EA. SIDE OF OPENING TED TO HORZ. BAR. 2 #4 BAR ABOVE AND 1 #4 BELOW. WINDOW OPENING EXTENDING 36" BEYOND OPENING. USE ANCHOR BOLTS AS PER FND SCHEDULE USE SIMPSON STHDX(RJ) STRAPS AS NOTED ON DRAWING. OWNER\CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS LISTED ON THE DRAWING. VERIFICATION OF ALL SITE CONDITIONS INCLUDING SITE STABILITY IS THE RESPONSIBILITY OF OTHERS

ALLOW 14 DAYS FOR CONCRETE TO CURE PRIOR TO BACKFILL.







SYPSUM STUD WALL I O" LONG J-BOLTS O.C. (U.N.O. ON SHEARWALL ULE OR ON FOUNDATION PLAN)	NET-ZERO Tiny House
- G" THICK FOUNDATION WALL	CENERAL NOTES
1/2" GYPSUM 3 1/2" THICK CONCRETE SLAB 2" R I O INSULATION UNDER SLAB (24" MIN) & VERTICALLY TO FOOTINGS 95% COMPACTED SOIL UNDER SLAB UNDISTURBED SOIL UNDER FOOTING	 ALL FOUNDATION WALLS G' THICK UNLESS OTHERWISE NOTED FOUNDATION TYPE - SLAB ON GRADE 4 BOTTOM OF ALL FOOTINGS MUST BE I 2" BELOW FINAL GRADE INOTE: THIS ENGINEERING ASSUMES THAT EITHER THE SETBACK REQUIREMENTS LISTED IN IRC SECTION R403. I.7 ARE MET, OR THAT A 20 DEEP LEVEL VARD (5% GRADE OR LESS) EXISTS ON ALL SIDES OF THE HOME. IF THIS IS NOT TRUE THEN CONTACT ENGINEER FOR FURTHER ANALYSIS AND DESIGN. NOTE: THIS ENGINEERING ASSUMES THAT THE STED IS STABLE HAVING NO GLOBAL STABILITY CONCERNS OR HAZARDS. IF THIS IS NOT TRUE THEN CONTACT ENGINEER FOR FURTHER ANALYSIS AND DESIGN.
B 5 DETAIL SCALE: 1/4"=1'-0"	KEYNOTES
	NET ZERO STUDIO 1748 EAST 4600 SOUTH OGDEN, UTAH
	MAIN LEVEL 320 LOFT LEVEL 178 TOTAL FIN. 498 PORCH 141 PORCH 141 P



0' TO 10' 2x4's @ 16"o.c. 10' TO 12' 2x4's @ 12"o.c. 12' TO 14' $2x6's$ @ 16"o.c. 14' TO 16' $2x6's$ @ 12"o.c. 16' TO 20' $2x6's$ @ 12"o.c. WALLS TALLEE THAN 20' AND/OR WALLS TALLEE THAN 5' WIGE TO EN SC REATES THAN 6' WIGE TO EN SECOND ON ALL WALLS 10' HIGH. USE 2X6 STUDS FOR ALL WALLS SUPPORTING OVER TWO LOADS.	NET-ZERO Tiny House					
ALLE CHERRIC WALL FANELS ALL EXTERIOR WALLS AND VERTICAL SURFACES AT STEPS IN ROOP SHALL BE SHEATHED WITH 7/16" APA	GENERAL NOTES					
 RATED 24/0 OR BETTER STRUCTURAL WOOD PANELS. BLOCK ALL HORSONTAL EDGES WITH 2'NOMINAL OR WIDER STUDS. 2' OR WIDER FRAMING AT ADJOINING PANEL EDGES AND NALS SHALL BE STAGGERED WHERE I OA NALS ARE SPACED 3' O.C. OR LESS. SHEATHING SHALL EXTEND CONTINUOUS FROM FLOOR TO TOP PATE FRAMING ON UPPER EXTERIOR WALLS. NALS SHALL BE FLACED NOT LESS THAN 1/2' FROM EDGE OF PANEL AND DRIVEN FLUSH BUT SHALL NOT FRACTURE THE SURFACE OF THE SHEATHING. 	 EXTERIOR WALLS FRAMED WITH 2 X 6 STUDS @ 24' O.C. UNLESS OTHERWISE NOTED INTERIOR WALLS FRAMED WITH 2 X 4 STUDS @ 16' O.C. UNLESS OTHERWISE NOTED DIMENSIONS ON FLOOR PLANS ARE TO ROUGH FRAMING ALL DOOR RETURNS ARE 4' UNLESS OTHERWISE NOTED ALL BOOR RETURNS ARE 4' UNLESS OTHERROR WALLS SHALL BE SHEATHED WITH 7/16' OSB NAILED WITH 8d NAILS AT 6' O.C. EDGES AND 12' O.C. FIELD UNLESS OTHERWISE NOTED IN SHEAR WALL SCHEDULE. EXTEND SHEATHING TO SILL PLATE 4 BLOCK AT ALL JOINTS TO CREATE DIAFHRAM T-3' FRAMED WALL HEIGHT ALL WINDOWS TOP @ G-3' A.F.F. UNLESS OTHERWISE NOTED 					
	KEYNOTES					
AL SURFACES AT STEPS IN ROOF SHALL BE SHEATHED BETTER STRUCTURAL WOOD PANELS. BLOCK ALL HORZ 2" OR WIDER FRAMING AT ADJOINING PANEL EDGES WHERE 8d NAILS ARE SPACED 3" O.C. OR LESS. JOUS FROM FLOOR TO TOP PLATE FRAMING ON UPPER ACED NOT LESS THAN 1/2" FROM EDGE OF PANEL DT FRACTURE THE SURFACE OF THE SHEATHING. NAIL TO RIM AND WALL PLATES 4" O.C. SCHEDULE NAIL EDGE FIELD STAPLE EQ 8d 6" O.C. 12" O.C. 16G @ 3" O.C. 8d 4" O.C. 12" O.C. 16G @ 2" O.C.	A. COUNTERTOP 36' HIGH B. FRIDGE UNDER COUNTER					
8d 3" 0.C. 12" 0.C. NOT ALLOWED 8d 2" 0.C. 12" 0.C. NOT ALLOWED	NET ZERO					
E SUBSTITUTED FOR 8d NAILS AT 1/2 SPACING ON (2) 2X ON JOINING PANEL EDGES.	I 748 EAST 4600 SOUTH OGDEN, UTAH					
MAIN FLOOR PLAN SCALE: 1/4"=1'-0"	MAIN LEVEL 320 LOFT LEVEL 178 TOTAL FIN. 498 PORCH 141 PORCH 141 PORCH 141 MAIN LEVEL 320 Scale NOTED Drawn AS, BS, DLL, FA Job GREER-RICH Sheet OG of 15 Sheets					

BEARING WALLS TO BE CONSTRUCTED AS FOLLOWS:

HEIGHT STUD FRAMING

EN B

FRAMING AND SHEATHING

THE CONTRACTOR SHALL USE THE FOLLOWING LUMBER GRADES UNLESS OTHERWISE NOTED:

JOISTS	DOUG FIR #2 & BTR
PARALLAMS	PER MANUF. SPEC.
HEADERS	DOUG FIR #2 & BTR
PRE-FAB TRUSSES & JOIST	PER MANUF. SPEC.
BEARING WALL STUDS	DOUG FIR #2 & BTR
SILL PLATES	PRESSURE TREATED DOUG FIR #2 & BTR
POSTS	DOUG FIR #1 & BTR
EXT DECK JOIST & BEAMS	PRESSURE TREATED DOUG FIR #2 & BTR

EACH PIECE OF STRUCTURAL LUMBER, SHEATHING, AND TIMBER SHALL BE MARKED WITH A COMPETENT AND RELABLE ORGANIZATION WHOSE REGULAR BUSINESS IS TO ESTABLISH LUMBER GRADES. THE ORGANIZATION, GRADING, AND GRADE MARKING SHALL BE SUBJECT TO APPROVAL BY THE ENGINEER

THE SIZING AND SURFACING OF ALL LUMBER EXCEPT WHERE SPECIFICALLY NOTED OTHERWISE SHALL BE MILL SIZED AND SURFACED ON 4 SIDES. ALL LUMBER SHALL BE STRAIGHT STOCK FREE FROM WARPS AND SINGLE LENGTH PIECES. SPLICING SHALL NOT BE PERMITTED EXCEPT WHERE NOTED OR APPROVED BY THE ENGINEER.

LUMBER SHALL BE AT LEAST OF THE GRADES NOTED ABOVE UNLESS OTHERWISE NOTED ON THE PLANS. ALL LUMBER SHALL BE SURFACED AND FREE OF HEART CENTER. LUMBER SHALL MEET SPECIES AND COMMERCIAL GRADE AS INDICATED ON THE PLANS AND THE DESION VALUES FOR VISUALLY GRADED LUMBER IN ACCORDANCE WITH THE NATIONAL DESION SPECIFICATION BY THE NATIONAL FOREST PRODUCTS ASSOCIATION, WHEREVER IS GREATER. BASE VALUES SHOWN MAY BE ADJUSTED IN ACCORDANCE WITH THE NATIONAL DESION SPECIFICATION. DF INDICATES DOUGLAS FIR, HF INDICATES HEM FIR, RD INDICATES REDWOOD, AND SDF INDICATES SPRUCE PINE FIR.

USE APPROPRIATE SIMPSON TIES/HARDWARE TO CONNECT ALL HEADERS TO POST OR TRIMMERS FOR ALL HEADERS 6' LONG AND LONGER. ALL MULTIPLE BEAMS AND HEADERS SHALL BE NAILED USING 16D @ 16" O.C. THREE ROWS.

ALL 2X4 STUDS TO BE MAX. 16" O.C. 2X6 STUDS TO BE MAX. 24" O.C. FLOOR SHEATHING SHALL BE 3/4" T&G APA RATED 40/20 OSB SHEATHING NAILED WITH 8d NAILS 6" O.C. AT ALL PANEL EDGES, SUPPORTED EDGES. USE 8d NAILS 12" O.C. IN FIELD. NAILS 6° O.C. AI ALL PANEL EDGES, SUPPORTED EDGES. USE B& NAILS 12° O.C. IN FIELD. NAILS SHALL BE MIN. 1/2″ FROM EDGE OF PANEL. LAY SHEATHING LONG DIMENSIONS PERPENDICULAR WITH JOISTS AND GLUE WITH GLUE CONFORMING TO APA SPECS. FLOOR JOISTS SHALL BE BLOCKED AT ALL BEARING POINTS. BLOCK ALL HORZ. EDGES OF WALL SHEATHING WITH 2 X 4 BLOCKING. EXTEND SHEATHING OVER RIM JOIST AND NAIL TO WALL PLATES ABOVE AND BELOW. OR BREAK UPPER AND LOWER SHEETING AT MID HEIGHT OF RIM BOARD. EXTEND SHEATHING DOWN TO SILL PLATE AND NAIL PER SHEAR WALL SCHEDING. SCHEDULE.

TYPICAL ROOF SHEATHING SHALL BE 7/16" RATED OSB SHEATHING NAILED WITH 8d NAILS 6" O.C. AT PANEL EDGES, SUPPORTED EDGES, AND ALL BLOCKING WITH 8d NAILS, 12" O.C. ALONG INTERMEDIATE FRAMING MEMBERS. UNLESS OTHERWISE NOTED USE 2:2X10 WITH PLY FILLER FOR BEARING HEADER. NOTE: FOR ROOF SNOW LOADS OVER 40 PSF USE 5/8" OSB

FRAMING AND SHEATHING CONTINUED

NOTED IN PLANS

EXCEPT WHERE OTHERWISE NOTED, CONNECT ALL WOOD TO CONCRETE, WOOD TO STEEL AND WOOD TO WOOD (EXCEPT STUD TO PLATE) WITH SIMPSON METAL CONNECTORS. SOLID 2" NOMINAL BLOCKING SHALL BE PROVIDED AT ENDS OR POINTS OF SUPPORT OF ALL WOOD JOISTS AND TRUSSES. INSTALL JOIST, RAFTER, AND BEAM HANGERS & POST CAPS PER MANUFACTURES SPECIFICATIONS.

MINIMUM NAILING SHALL BE AS PER SHEAR WALL SCHEDULE. STAPLES CAN BE SUBSTITUTED FOR NAILS AT HALF SPACING. PROVIDE SOLID BEARING THROUGH FLOOR SYSTEMS AND POSTS DOWN TO CONC. FTG.

THE CONTRACTOR SHALL FOLLOW THE MINIMUM NAILING SCHEDULE LISTED IN THE NDS TABLE 3.2.1. USE COMMON NAILS WHEREVER NAILS ARE SPECIFIED FOR SHEAR WALLS OR DIAPHRAGMS. SINKERS MAY BE USED IN ALL OTHER LOCATIONS.

PROVIDE DOUBLE FLOOR JOISTS UNDER ALL BEARING OR SHEAR WALLS PARALLEL TO DIRECTION OF FRAMING. PROVIDE DOUBLE FLOOR JOISTS UNDER WINDOW AND DOOR TRIMMERS AND AT OUTSIDE EDGES OF ALL CANTILEVERED FLOOR SECTIONS.

BOLTS AND NUTS SEATING ON WOOD SHALL HAVE 3" X 3" X 4" OUT STEEL WASHERS UNDER ALL HEADS AND NUTS. NUTS SHALL BE SCREWED TIGHT. COUNTER BORE FOR HEADS AND NUTS ONLY WHERE NOTED ON THE DRAWINGS AND THEN ONLY TO SUFFICIENT DEPTH TO FLUSH NUT OR HEAD. CUT OFF EXCESSIVE BOLT LENGTH AS REQUIRED AND NICK THE BOLT THREADS TO PREVENT NUT MOVEMENT OR LOOSENING.

CONTRACTOR AND ALL SUB-CONTRACTORS SHALL FOLLOW ALL STANDARD BUILDING CODES, PRACTICES, AND REQUIREMENTS AS LISTED IN THE 2012 IRC.

USE BALLOON FRAMING METHOD TO CONNECT FLOOR SYSTEMS IN SPLIT LEVEL DESIGNS. USE DOUBLE FLOOR JOIST UNDER EA. END OF SHEAR WALLS OVER CANT. FLOOR SECTIONS.

INSTALL JOIST AND RAFTER HANGERS AS PER MANUFACTURERS SPECIFICATIONS. UNLESS OTHERWISE NOTED CONNECT ALL HEADER TO STUD/POST, POST TO FLOOR, BEAM TO BEAM, RAFTER TO WALL OR TRUSS, ETC. WITH APPROPRIATE METAL CONNECTORS. USE METAL HURRICANE CLIPS EACH END OF EACH TRUSS.

FRAMING DETAILS

13,

ALL ROUGH HARDWARE, JOIST HANGERS, STRAPS, POST CAPS ETC, SHALL BE MANUFACTURED BY SIMPSON COMPANY OR AN APPROVED EQUAL. THE MAXIMUM SIZE AND NUMBER OF FASTENERS SPECIFIED BY THE MANUFACTURER SHALL BE USED UNLESS NOTED OTHERWISE.

ALL DETAILS MAY NOT BE APPLICABLE TO YOUR PLANS



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BEARING WALLS TO BE CONSTRUCTED AS FOLLOWS: HEIGHT STUD FRAMING 0' TO 10' 2x4's @ 16".c. 10' TO 12' 2x4's @ 12".c. 12' TO 14' 2x6's @ 16".c. 14' TO 16' 2x6 LSL's @ 12".c. 16' TO 20' 2x6 LSL's @ 12".c. walls talter Than 20' AND/OR OPENINGS GREATER THAN 30' MIDE TO BE DEL KING STUDS ON ALL WALLS 10' HIO'L SE 2x6 STUDF GRA ALL 10' HO'L SE 2x6 STUDF GRA ALL WALLS 10' HIO'L SE 2x6 STUDF GRA ALL WALLS SUPPORTING OVER TWO LOADS. WALLS SUPPORTING OVER TWO LOADS.	NET-ZERO Tîny House
	GENERAL NOTES
	INTERIOR WALLS FRAMED WITH 2 X 4 STUDS @ 16° O.C. UNLESS OTHERWISE NOTED EXTERIOR WALLS FRAMED WITH 2 X 6 @ 24° O.C. UNLESS OTHERWISE NOTED BALLOON RANING ON EAST AND WEST WALLS OF LOFT (SECOND FLOR) DIMENSIONS ON FLOOR PLANS ARE TO ROUGH FRAMING ALL DOOR RETURNS ARE 4' UNLESS OTHERWISE NOTED CELLING HEIGHT - 7'-3' A.F.F. UNLESS OTHERWISE NOTED
	KEVNOTEG
	<u>NETNUTES</u>
	A. DORMER WINDOWS (3 EACH ABOVE SECOND FLOOR)
BALLOON FRAME THIS PORTION OF THE WALL TO UNDERSIDE OF SCISSOR TRUSS 2 x 6 @ 24" O.C. 7'-3" HIGH FROM FIRST LEVEL FLOOR	
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	NET ZERO STUDIO 1748 EAST 4600 SOUTH OGDEN, UTAH
	MAIN LEVEL 320 Date LOFT LEVEL 178 01/19/2016 TOTAL FIN. 498 Scale NOTED
OND FLOOR LEVEL PLAN SCALE: 1/4"=1'-0"	PORCH 141 PORCH 141 Drawn AS, BS, DLL, FA Job GREER-RICH Sheet 07 of 15 Sheets
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FRAMING & SHEATHING NOTES:

- ALL 2 X 4 STUDS TO BE MAX 16" O.C., 2 X 6 STUDS @ 24" MAX O.C.
- FLOOR SHEATHING SHALL BE 3/4' T4G APA RATED 40/20 OSB SHEATHING NAILED WITH & NAILS G' O.C. AT ALL PANEL EDGES, SUPPORTED EDGES AND ALL BLOCKING. USE & NAILS 12' O.C. IN FIELD. NAILS SHALL BE MIN 1/2' FROM EDGE OF PANEL.
- LAY SHEATHING LONG DIMENSION PERPENDICULAR WITH JOISTS
 AND GLUE WITH GLUE CONFORMING TO APA SPECS.
- FLOOR JOISTS SHALL BE BLOCKED AT ALL BEARING POINTS
 BLOCK ALL HORIZONTAL EDGES OF WALL SHEATHING WITH 2 X 4 BLOCKING
- EXTEND SHEATHING OVER RIM JOIST AND NAIL TO WALL PLATES ABOVE AND BELOW OR BREAK UPPER & LOWER SHEATHING AT MID HEIGHT OF RIM BOARD.
- EXTEND SHEATHING DOWN TO SILL PLATE AND NAIL PER SHEAR WALL SCHEDULE.
- TYPICAL ROOF SHEATHING TO BE 7/16" RATED OSB SHEATHING NAILED WITH & ANAILS 6" O.C. AT PANEL EDGES, SUPPORTED EDGES AND ALL BLOCKING WITH & ANAILS, 12" O.C. ALONG INTERMEDIATE FRAMING MEMBERS.
- UNLESS OTHERWISE NOTED USE (2) 2 X 6 WITH PLY FILLER FOR BEARING HEADER.
- FOR ROOF SNOW LOADS OVER 40 PSF, USE 5/8" OSB SHEATHING
- EXCEPT WHERE OTHERWIESE NOTED, CONNECT ALL WOOD TO CONCRETE, WOOD TO STEEL AND WOOD TO WOOD (EXCEPT STUD TO PLATE) WITH SIMPSON METAL CONNECTORS.
- SOLID 2" NOMINAL BLOCKING SHALL BE PROVIDED AT ENDS OR POINTS OF SUPPORT OF ALL WOOD JOISTS AND TRUSSES.
- INSTALL JOIST, RAFTER AND BEAM HANGERS & POST CAPS PER MANUFACTURER SPECIFICATIONS.
- MINIMUM NAILING SHALL BE AS PER SHEAR WALL SCHEDULE.
 STAPLES CAN BE SUBSTITUTED FOR NAILS AT HALF SPACING.
 PROVIDE SOLID BEARING THROUGH FLOOR SYSTEMS AND POST DOWN TO CONCRETE FOOTING.
- CONTRACTOR AND ALL SUB-CONTRACTORS SHALL FOLLOW ALL STANDARD BUILDING CODES, PRACTICES AND REQUIREMENTS LISTED IN THE 2012 IRC.
- USE BALLOON FRAMING METHOD TO CONNECT FLOOR SYSTEMS IN VAULTED CEILING APPLICATIONS.
- USE DOUBLE FLOOR JOISTS UNDER EACH END OF SHEAR WALLS
 OVER CANTILEVERED FLOOR SECTIONS.
- INSTALL JOIST AND RAFTER HANGERS AS PER MANUFACTURERS SPECIFICATIONS.
- UNLESS OTHERWISE NOTED, CONNECT ALL HEADER TO STUD/ POST, POST TO FLOOR, BEAM TO BEAM, RAFTER TO WALL OR TRUSS, ETC.
 WITH APPROPRIATE METAL CONNECTOR.

HEADER TRIMMER CONNECTION

FOR HEADERS LESS THAN 5' LONG
 NAIL TO KING STUD USING (6)16d NAILS

- FOR HEADERS 5'- 8'-6" LONG

- INSTALL TWO ACE EA. END OR 12" LONG CS16 STRAP
 USE (2) TRIMMERS
- D LIEADEDO 0' 40' LONO

FOR HEADERS 9'-18' LONG
 INSTALL TWO ST18 EA. END

- USE (2) TRIMMERS
- USE (2) TRIMMERS
 INSTALL MST48 THROUGH FLOOR DIAPHRAGM IF APPLICABLE
- INSTALL STHD8 OR HTT22 OR HDU TO CONCRETE OR NAIL POST TO WALL
 - SHEATHING

FLOOR FRAMING PLAN

SCALE: |/4"=|'-0"





TRUSS/ GIRDER CONNECTION USE SIMPSON H1 OR EQUIV. TIES EACH END OF EA. TRUSS. INSTALL RAFTER HANGERS EA. END OF EA. RAFTER AS PER MANUFACTURE SPECS. INSTALL SOLID BLOCKING BETWEEN TRUSSES ALONG BEARING WALLS. INSTALL H16–2 OR EQUIV. STRAPS TO EA. END GIRDERS IF UPLIFT LESS THAN 1265 LBS. INSTALL VGT OR EQUIV. STRAPS TO EA. END GIRDERS IF UPLIFT LESS THAN 4940 LBS.	NET-ZERO Tiny House
FRAMING DETAILSH13TRUSS BLOCK DETAILK13TRUSS DEPTH BLOCKINGN13GABLE BRACE DETAILFRAMING AND SHEATHING NOTES SEE PAGE 7	 GENERAL NOTES ROOF SHEATHING SHALL BE 19/32' AFA RATED W SFAN RATING OF 40/20 NALED WITH 10d NALES AT G 'O.C. ALL PANEL INDS, SUFFORTED EDGES, TOP OF SHEAR WALES AND ALL BLOCKING; BA NALES AT 12' O.C. ALONG INTERMEDIATE FRAMING MEMDERS. PROVIDE 1/9' CAP BETWEEN ALL PANELS. BLOCK JOISTS SOLUD AT ALL BEARING FOINTS. USE SIMPSON HI TIES EACH END OF TRUSS RATER AS FER MANUFACTURER SPECIFICATIONS. INSTALL SATER HANGERS EACH END OF RATER AS FER MANUFACTURER SPECIFICATIONS. INSTALL SATER HANGERS EACH END OF RATER AS TER MANUFACTURER SPECIFICATIONS. INSTALL SOLD BLOCKING BETWEEN TRUSSES ALONG BEARING WALE. TRUSSES SHALL BE DESIGNED FOR 15 PSF DEAD LOAD AND APPLICATION. POINT LOADS VALUES SPECIFIED ON ROOF FRAMING FLAN INDICATION. CHECK DIMENSIONS WITH ARCHITECTURAL DEAVINGS. TRUSS MANUFACTURER SUFFORTED BY TRUSSES. SHALL BE DESIGNED ACORD MEMBERS TO SATISFY LOAD REQUIREMENTS. TRUSS MANUFACTURER DIS SUFFORTED BY TRUSSES. RAOUT RRUSSES SHALL BE DESIGNED ACCORDINGLY. CHECK DIMENSIONS WITH ARCHITECTURAL DEAWINGS. TRUSS MANUFACTURER DIS RESPONSIBLE TO FRAVINGE WEB AND CORD MEMBERS TO SATISFY LOAD REQUIREMENTS. TRUSS MAULFACTURER SHALL SUBMIT CALCULATIONS AND BHOP DRAWINGS FOR AFTROVAL BY ENGINEER. PROVIDE ADD AND FOR ATTIC USING GROSS SCULARE FOOTAGE OF ROOF AFREA. 1/150 SQUARE FOOTAGE OF ROOF AREA. 1/150 SQUARE FOOTAGE OF ROOF AR
22-0" ROFESSIONA KELBY MAX YORK No. 7229413 ATE OF UT AT	ROOF BEAM SCHEDULE RB-1 (2) 2 X G X 51" RB-2 (2) 2 X G X 51" RB-3 (2) 2 X G X 27" RB-4 (2) 2 X G X 33" RB-5 (2) 1 $\frac{3}{4}$ " X 7 $\frac{1}{4}$ " LVL TRUSS SCHEDULE A A (6) COMMON TRUSSES B (2) GIRDERS C (3) COMMON DORMER TRUSSES D D (3) COMMON JACKS E (1) DORMER GIRDER HANGERS (2) 4 X 6 (14) H1 (4) H2
RDER	NET ZERO STUDIO 1748 EAST 4600 SOUTH OGDEN, UTAH MAIN LEVEL 320 LOFT LEVEL 178 TOTAL FIN. 498 PORCH 141 PORCH 141 NOTED Drawn AS, BS, DLL, FA Job GREER-RICH Sheets



B 5





7/I G" OSB SHEATHING W/ ICE DAM PROTECTION IN EAVES & VALLEYS EXTENDING IN 24" FROM EXTERIOR WALL & OVERLAPING FELT W/ ASPHALT SHINGLES ATOP	NET-ZERO Tiny House GENERAL NOTES
2XG FASCIA W/ DRIP EDGE, RAIN GUTTER ¢ ALUMINUM FASCIA	
SIDING TRIM TRIPLE PANE VINYL WINDOW 22 U-FACTOR 0.28 SHGC	
WRAP INSIDE OF WINDOW JAMBS W/ ½" GYPSUM	
7/16" OSB W/ 2" (R10) EPS INSULATION ∉ – APPROVED HOUSE WRAP TAPE (OFFSET SEAMS OF INSULATION ∉ OSB)	KEYNOTES
- SIDING OVER EPS ATTACHED W/ 3 1/2" NAILS TRIPLE PANE VINYL WINDOW 22 U-FACTOR 0.28 SHGC	
DOWNSPOUT TO (2) 55 GALLON DRUMS FOR IRRIGATION	
- 2XG TREATED BASE PLATE	
— J BOLT SPACING PER ENGINEER	
COMPACTED BACK FILL	
	NET ZERO STUDIO 1748 EAST 4600 SOUTH OGDEN, UTAH
	MAIN LEVEL 320 LOFT LEVEL 178 TOTAL FIN. 498 Drawn AS BC DU C
TYPICAL WALL SECTION SCALE: 1/4"=1'-0"	PORCH 141 Job GREER-RICH Sheet 12 of 15 Sheets













