

Shipping Containers Guidelines

Design option 2

Gable Roof







Residential zone set-backs (for Shipping Containers):

General Guides:

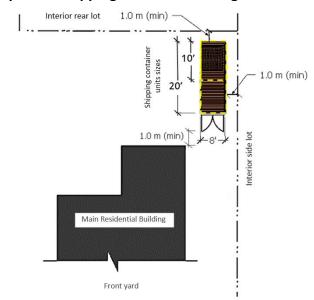
- Accessory residential shipping container units shall be permitted in the rear yard or interior side yard and shall not be closer to any rear or interior side lot line than 1.0 m or closer to any exterior side yard than the required yard for dwellings.
- Shall only cover 10% (max.) of the land use
- Accessory residential shipping container units shall not exceed 3.7 m in height for flat roof and shall not exceed 4.5 m from grade to the peak with a pitched roof.
- Cannot be connected/attached to the main residential building
- All accessory shipping container units over 10 m2 or 108 sq. ft. will require a building permit.
- All accessory shipping container units are subject to site plan control.

Allowed shipping container units:

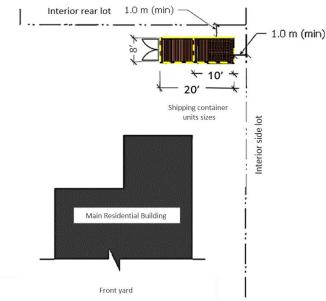
- · Must not have any holes or rips
- Must not be rusted, cracked or dented
- · Must not be twisted
- Have not been used to transfer any dangerous goods.
- All accessory shipping containers must be vented
- All accessory shipping containers must contain at least one window.

(all notes mentioned above apply to 10', 20' shipping containers).

Optional Shipping Containers Configurations:



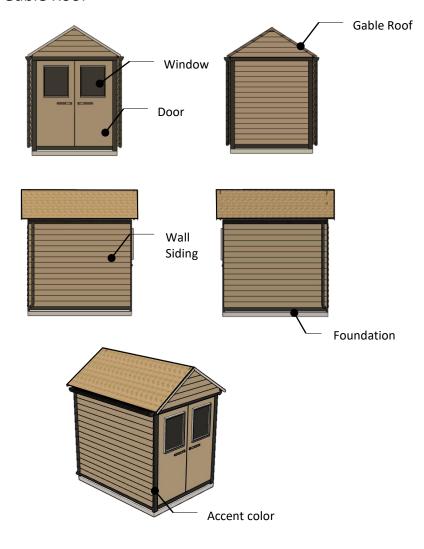
Shipping Container unit aligned with the side Lot line



Shipping Container unit aligned with rear lot line

Design option 2

Gable Roof



Wall sidings:

- Wood Siding (finished as per manufacturer's specs)
- Vinyl siding
- Fiber-cement Siding (finished as per manufacturer's specs)
- Aluminum Siding (finished as per manufacturer's specs)

Permitted to be installed vertically or horizontally (as per manufacturer's specs)

Color to be determined by owner.

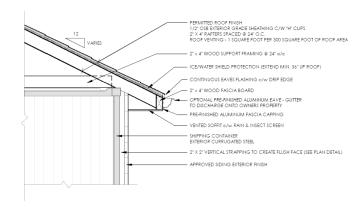
Roof Finish:

- Asphalt shingles
- Wood shakes and shingles
- Metal Roofing

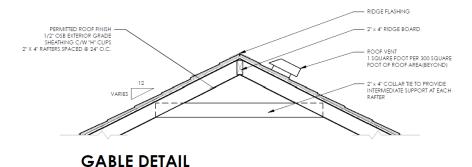
(Solar panels to be applied separately if applicable)

Color to be determined by owner.

Optional roof vents (ridge vents, louvre vent, turbine vent, ... Etc.)



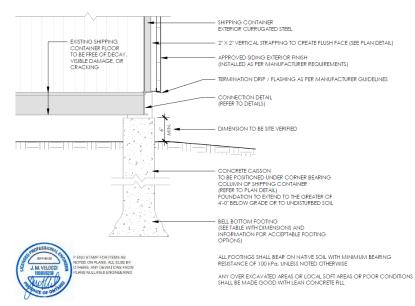
SHED / GABLE ROOF CONNECTION



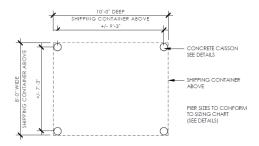
Foundation Options:

- A. Concrete Pier
- B. Granular Base
- C. Concrete slab on grade
- D. Wood Sleepers (6x6 or 8x8)

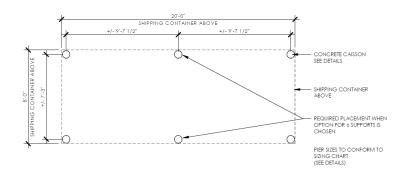
Other foundation options to be submitted with required Eng. documents For building permit.



TYPE A - BASE DETAIL - CONCRETE PIER



TYPE A - FOUNDATION PLAN - 10 FOOT CONTAINER



TYPE A - FOUNDATION PLAN - 20 FOOT CONTAINER

APPLICABLE TO ALL DETAILS:

USE OF E70XX OR EQUIVALENT ELECTRODE FOR ALL WELDING, OR SUITABLE ELECTRODE FOR COR-TEN STEEL

ALL WELDING STEEL SHALL CONFORM TO THE REQUIREMENTS OF CSA STD. W59 AND SHALL BE UNDERTAKEN BY A FABRICATOR FULLY APPROVED BY THE CANADIAN WELDING BUREAU TO THE REQUIREMENTS OF CSA STD. W47

WELDING OF SHAPES TO SHIPPING CONTAINER SIZE SHALL BE FILLET WELDS ON EVERY SURFACE, FOR CORRUGATIONS PROVIDE ON EVERY OTHER (E.O.)

FILLET WELDS FOR HSS WITH RADIUS ≥ 10mm SHALL BE PROVIDED AS FLARE GROOVE WELDS IN ACCORDANCE

TO CSA W59 √ Ε L4x3x0.375 (LLV) 2-1/2"Ø ANCHOR BOLTS OR A307 THREADED ROD TOP OF CONCRETE PIER DEPTH FOR PROST PROTECTION GRADE 4-15M VERT BARS w/ 10M CLOSED TIES AT 10" C/C

CONCRETE PIER BELL BOTTOM OF PIERS w/o FOOTING MIN 2"

FLOOR LOADING - 40 PSF / 100 PSF		
DIMENSION 'D' (40 PSF / 100 PSF)		
# OF SUPPORTS	10' CONTAINER	20' CONTAINER
4	16 / 20	24 / 28
6	N/A	20 / 24

ALTERNATE TO SONO TUBES PROVIDE 12"X12" PIER W/ 4-15M VERT BARS AND 10M TIES AT 10" C/C ON 24"x24"x10" THK FOOTING w/ 3-10M BARS EACH WAY BOTTOM, ANCHORAGE OPTION 'A' OR 'B' AND PROVIDED MINIMUM ADEQUATE EDGE DISTANCE FOR ANCHORS

PIER SUPPORT - OPTION 'A'

DIMENSION 'D'

PLUS ADD 2" BELL AT BOTTOM

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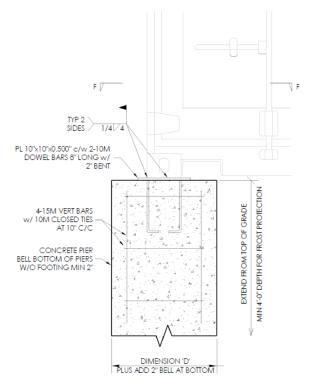
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EXTEND

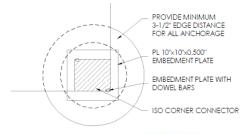
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TYPE A - PIER ANCHOR DETAILS

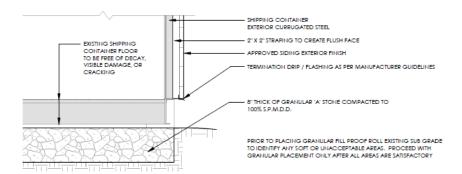


PIER SUPPORT - OPTION 'B'

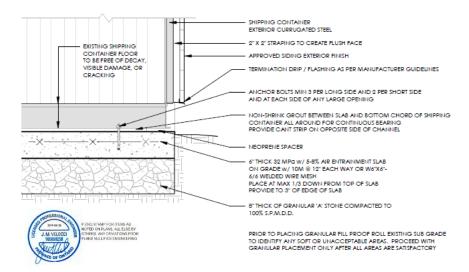


VIEW F-F

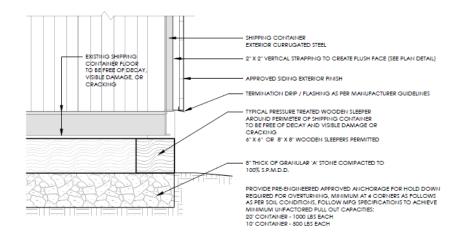




TYPE B - BASE DETAIL - ON GRADE



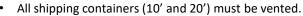
TYPE C - BASE DETAIL - SLAB ON GRADE



TYPE D - BASE DETAIL - WOOD SLEEPERS

Doors and Windows

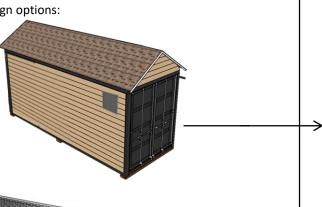
Doors and windows options:



- Doors and windows materials to be determined by owner (wood, metal, aluminum, etc.)
- Type of door and window openings to be determined by owner (hinged doors, sliding doors, rotating, rolled doors, etc.), (casement Windows, awning window, slider windows, etc.)
- Side doors (double doors/single door) and side windows (fixed windows/casement window) are permitted to be facing inward of owner property boundary.

Example of a permitted design options:

20' shipping container existing metal doors (Same applied to 10' shipping containers)















Cover shipping containers metal doors with wall siding panels and a door handle to be added.

windows on at least one side

windows on at least one side wall or on both.

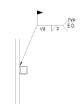
Replace existing shipping containers metal doors with any kind of double doors (garden doors, sliding doors, rolled doors ..etc.) windows at least one on the side wall or on both

Cover one side of the shipping containers metal doors with wall siding panels and a door handle to be added window on the other side

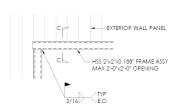
Cover shipping containers metal doors with wall siding panels and a door handle to be added windows on both doors

Existing shipping containers metal doors to be removed and replaced (or blocked) by wall siding panels similar to the back wall.

A door and a window to be added to the side wall (single door or double doors if there's enough space).



VIEW C-C WALL VENT OPENING SECTION

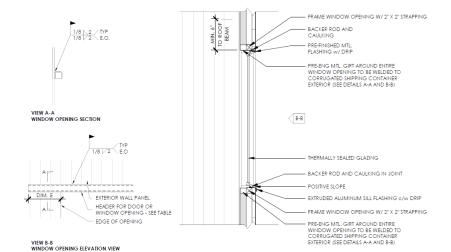


WALL VENT OPENING - ELEVATION VIEW

FRAME WINDOW OPENING W/ 2" X 2" STRAPPING PRE-ENG MTL. GIRT AROUND -OPENING TO BE WELDED TO CORRUGATED SHIPPING CONTAINER EXTERIOR (SEE DETAILS C-C AND D-D) EXTRUDED ALUMINUM SILL FLASHING c/w DRIP -COMPLETE W/ INSECT SCREEN D-D PRE-ENG MTL. GIRT AROUND -OPENING TO BE WELDED TO CORRUGATED SHIPPING CONTAINER EXTERIOR (SEE DETAILS C-C AND D-D) EXTRUDED ALUMINUM SILL FLASHING c/w DRIP FRAME WINDOW OPENING W/ 2" X 2" STRAPPING

VENT OPENING DETAIL





| HEADER SIZES FOR WINDOW OR | DOOR OPENINGS' | | OPENING SPAN | MEMBER SIZE | DIMENSION 'E' | | 2°0' ≤ 4°40" | HSS 2°42°0.188 | 6 INCHES | | 4°0' ≤ 6°40" | C4x5.4 | 12 INCHES | | 6°0' ≤ 8°0" | C4x5.4 | 12 INCHES |

"BASED ON CLIMATIC LOADS FOR AREA PLUS 12PSF DEAD LOAD MAXIMUM FOR ROOF LOAD. ANY SPANS EXCEEDING 8-0" OR INCREASED LOADING REQUIREMENTS SHALL BE DESIGNED SEPARATELY

WINDOW OPENING SECTION

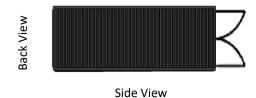


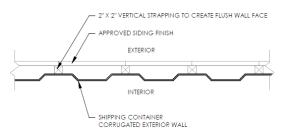
Cladding coverage:

- 10' and 20' Shipping container units side walls to be 100% covered.
- The back wall of all shipping containers to be 100% covered.

Key Plan:

Side View





WALL STRAPPING PLAN DETAIL

