further include a pipe disposed between the first and second wall boards and extending between the opposing end members, wherein the pipe include a pipe diverter, and wherein a free end of the pipe diverter passes through an opening in the first wall board or the second wall board.

[004] A multi-story building may include a structural frame including at least one beam, and a pre-assembled wall panel attached to the structural frame and including an upper panel portion which extends above a floor level of an upper unit of the building and a lower panel portion which extends below a ceiling level of a lower unit of the building.

[004a] An example pre-assembled wall panel may further include first and second wall boards spaced apart by a plurality of studs and a pipe disposed between the first and second wallboards, wherein the pipe includes a pipe diverter passing through one of the first or second wall boards.

[004b] Another example pre-assembled wall panel may further include insulation arranged perpendicular to the wall boards between the upper and lower panel portions.

[004c] An example upper panel portion may span a full height of the upper story and a partial height of another story above the upper story.

[005] A method of constructing a utility wall of a building may include attaching a first pre-assembled wall panel to a structural frame of a building, positioning a second pre-assembled wall panel vertically above the first pre-assembled wall panel, wherein each of the first and second pre-assembled wall panels includes a pipe at least partially inside the wall panel and a flow diverter exposed to an exterior of the wall panel, attaching the second pre-assembled wall panel to the structural frame of the building, and connecting a pipe fitting to each of the flow diverters to fluidly couple the pipes of the first and second pre-assembled wall panels.

[006] The foregoing summary is illustrative only and is not intended to be in any way limiting. In addition to the illustrative aspects, embodiments, and features described above, further aspects, embodiments, and features will become apparent by reference to the drawings and the following detailed description.

BRIEF DESCRIPTION OF THE DRAWINGS

[007] The foregoing and other features of the present disclosure will become more fully apparent from the following description and appended claims, taken in conjunction with the accompanying drawings. Understanding that these drawings depict only several embodiments in accordance with the disclosure and are, therefore, not to be considered limiting of its scope, the disclosure will be described with additional specificity and detail through use of the accompanying drawings, in which:

[008] FIG. 1A is an isometric view of a wall panel;

[009] FIG. 1B is a partially exploded isometric view of the wall panel in FIG. 1A;

[010] FIG. 2 is a partial elevation cross-sectional view of a wall panel;

14. The wall panel of claim 1, wherein the wall panel is from about 18 feet to about 22 feet long.

15. The building of claim 1, wherein the wall panel includes an opening configured to accommodate a door for a unit.

16. A multi-story building comprising:

a structural frame including at least one beam; and

a pre-assembled wall panel attached to the structural frame and comprising an upper panel portion which extends above a floor level of an upper unit of the building and a lower panel portion which extends below a ceiling level of a lower unit of the building,

wherein the pre-assembled wall panel further comprises first and second wall boards spaced apart by a plurality of studs and a pipe disposed between the first and second wallboards, wherein the pipe comprises a pipe diverter passing through one of the first or second wall boards.

17. A multi-story building comprising:

a structural frame including at least one beam; and

a pre-assembled wall panel attached to the structural frame and comprising an upper panel portion which extends above a floor level of an upper unit of the building and a lower panel portion which extends below a ceiling level of a lower unit of the building,

wherein the pre-assembled wall panel further comprises insulation arranged perpendicular to the wall boards between the upper and lower panel portions.

18. A multi-story building comprising:

a structural frame including at least one beam; and

a pre-assembled wall panel attached to the structural frame and comprising an upper panel portion which extends above a floor level of an upper unit of the building and a lower panel portion which extends below a ceiling level of a lower unit of the building,

wherein the upper panel portion spans a full height of the upper story and a partial height of another story above the upper story.

19. A method of constructing a utility wall of a building, the method comprising:

attaching a first pre-assembled wall panel to a structural frame of a building;

positioning a second pre-assembled wall panel vertically above the first pre-assembled wall panel, wherein each of the first and second pre-assembled wall panels comprises a pipe at least partially inside the wall panel, the pipe including a flow diverter exposed to an exterior of the wall panel;

attaching the second pre-assembled wall panel to the structural frame of the building; and

connecting a pipe fitting to each of the flow diverters to fluidly couple the pipes of the first and second pre-assembled wall panels.

20. The method of claim 19, wherein the attaching the first pre-assembled wall panel to a structural frame includes mechanically joining an angle bracket attached to the first pre-assembled wall panel to a horizontal structural member of the building.

21. The method of claim 19, wherein the first pre-assembled wall panel includes an upper panel portion which extends above a floor level of an upper unit of the building and a lower panel portion which extends below a ceiling level of a lower unit of the building, the method further comprising attaching a floor panel to the structural frame at a location between the upper and lower panel portions before attaching the at least one of the first and second pre-assembled wall panels to the structural frame.

22. The method of claim 19, wherein the pipes of each of the first and second pre-assembled wall panels further comprise second pipe diverters, the method further comprising connecting plumbing fixtures to the second pipe diverters.