









project specific designs must be performed by a qualified engineer familiar with the conditions on the actual site.

ANCHOR BLOCK DIMENSIONS SINGLE:3FT WIDE X 1.5FT DEEP X1FT THICK CONCRETE DOUBLE: 4FT WIDE X 1.5FT DEEP X 1FT THICK CONCRETE SLOPE MAY VARY 2 #5 CONT. ALUMINUM 6" X 6" X 1/2" PLATE WASHER WITH 1" NUT 4 #4 VERTICAL #4 HORIZONTAL .5" DIA. WEEP HOLE 4'0" O.C. 3/4"" DIA. ALUMINUM ANCHOR RODS SPACED 6'-0" O.C. MAX. 12 FT BACK WHERE POSSIBLE 6" X6" X 1/2" ALUMINUM PLATE WASHER VINYL SHEET PILE WITH 3/4" NUT FILL 8" VERTICAL VOID IN SHEET PILE TYPE TRUE LINE 800 TO WATERWARD GROUND LEVEL-LENGTH 8 FOOT SPECIFICATIONS CONCRETE: 4000 PSI IN 28 DAYS REBAR: GRADE 60 EPOXY COATED EXPANSION JOINTS: 48'-0" MAX ANCHOR RODS:3/4" ALUMINUM RODS This drawing is provided to show a typical concept for constructing a wall of this style. It is not intended to be used as a final design for any specific project. There are many geotechnical and structural properties that have to be considered in the design of a project. These factors vary depending on conditions that are potentially unique to each jobsite. As such,



Drawing 104 wood composite cap, concrete deadman

The Innovative Hybrid Sheet Piling System



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Drawing 105 wood composite cap, piling deadman

The Innovative Hybrid Sheet Piling System



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Drawing 106

in front of existing block wall, concrete cap & deadman









MOORING POINT CONCEPT USING TRULINE	
PLACEMENT, SIZE AND SHAPE CAN BE ADJUSTED BY VARYING QUANTITY AND ARRANGEMENT OF THE TRULINE COMPONENTS	
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To create a 90 degree corner/ return anywhere on the wall, simply pre-attach a male end cap to the u-channel face with stainless steel bolts, nut and flat washers on 24" centers prior to driving the u-channel. You can then begin driving u-channel parts starting on this end cap as shown.



IMPORTANT—PRIOR TO INSTALLATION

It is important to pre-attach the male end cap to the FIRST u-channel prior to driving. Simply slide in place and fasten with coarse thread deck screws on 24" spacing to the u-channel. This will close the open end of the first u-channel and provide a rigid box to drive.

To maintain hook spacing, always construct the wall so that the closed end of the u-channel is the leading edge. MALE END CAP





Drawing 111 creating Truline expansion joints

The Innovative Hybrid Sheet Piling System

CREATING TRULINE EXPANSION JOINTS FOR CONCRETE CAPS WITH EXPANSION JOINTS

If the design of the top cap for the wall specifies expansion joints, you must also design expansion joints into the Truline wall. The expansion joint in the wall and the top cap must be at the same location.

An expansion joint in the wall is made by ending a run of continuously engaged hooks with a female end cap and then starting a new run of u-channels with a male end cap.

Suggested Method:

- 1. Fasten together, using 1-1/4 #6 deck screws, one male and one female end cap in the arrangement shown.
- 2. Install this assembly on the u-channel of a section of continuously hooked pieces.
- 3. Remove all screws above the mudline except for those that are close enough to the top that they can be removed later after the other u-channels are installed.
- 4. Install the next u-channel on to the hooks of the male end cap and proceed with the remainder of the wall.
- 5. Prior to pouring the top cap, remove all remaining screws holding the male and female end caps together to allow for unrestricted movement above the mudline between these parts. While the screws fastening the end caps together remain in place below the mudline, this will not inhibit the movement of the joint. The pullout strength of the small screw is easily exceeded when the wall contracts stripping the threads which allows the wall to move.
- 6. Prior to backfilling, place filter fabric behind the wall at each expansion joint to prevent soil from entering the joint when it opens up.









ASSEMBLED CAP





STAINLESS

ACTION OF









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