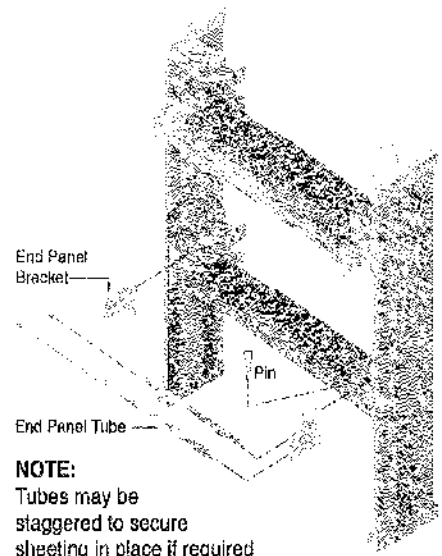


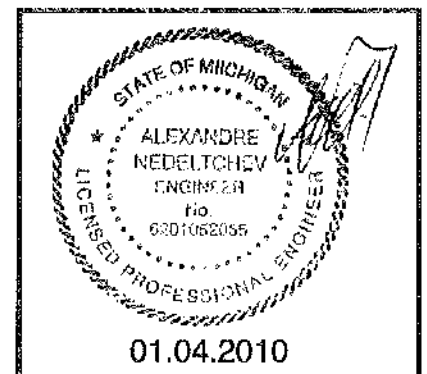
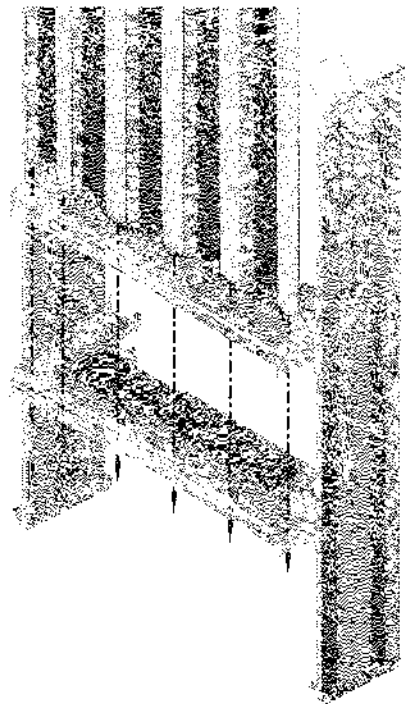
Basis and Limitations of the Data for End Shores

- A. When End Shores are used with Vertical Shores, the horizontal spacing between the End Shore and the first Vertical Shore shall not exceed the spacing shown in the Tabulated Data tables for Vertical Shores for the soil type and depths encountered in the trench. If sheeting is necessary behind the Vertical Shores, the End Shore shall be placed close to the end Vertical Shore sheeting.
- B. When End Shores are used with Waler Systems there shall be no more than 4 feet clear between the end of the End Shore and the end of the first Wale.
- C. When End Shores are used with Hydraulic Aluminum Shields there shall be no more than 2 feet clear between the end of the End Shore and the end of the Shoring Shield.
- D. When End Shores are used with Trench Shields there shall be no more than 4 feet clear between the end of the End Shore and the Trench Shield.
- E. The End Shores may be used only in the Hydraulic modes with the hydraulic cylinders pressurized.
- F. The maximum operating width of End Shores is 12 feet.
- G. The bottom Hydraulic Quickbrace shall be located no more than 4 feet above the bottom of the excavation. The top hydraulic Quickbrace shall be located between one foot and two feet below the top of the excavation.
- H. The sheeting directly behind the end of each Hydraulic Quickbrace must bear on firm soil or solid and stable filler to distribute the cylinder load to the face of the excavation.
- I. The top of the sheeting shall be level with the top of the excavation or above it.
- J. The faces of the excavation must be cut near vertical and straight.

Note: All pins and keepers must be installed. **NEXT PAGE**



NOTE:
Tubes may be staggered to secure sheeting in place if required



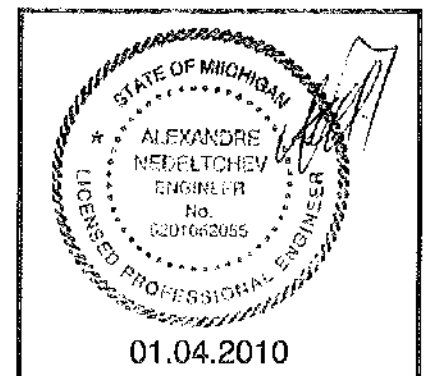
Usage and Limitations

- K. If the top of the excavation is sloped away from the End Shore, the top of the sheeting must be a minimum of 12 inches above the top of the slope. The top Hydraulic Quickbrace must be located below the top of the slope.
- M. No vertical load shall be applied to the Hydraulic Quickbrace.
- N. In the Hydraulic modes the End Shores may be stacked vertically provided all Hydraulic Quickbraces and hydraulic cylinders are pressurized to a minimum of 750 p.s.i. and the sides of all End Shores bear against the excavation face.
- O. The Hydraulic Quickbrace furnished with End Shores will support the loads across the end of the trench as shown in the table below.



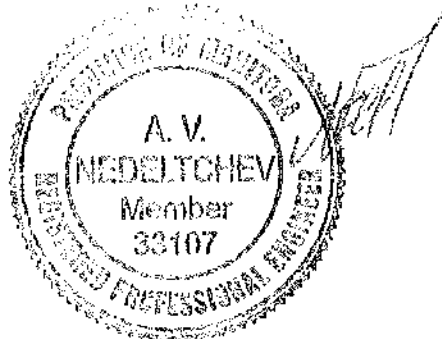



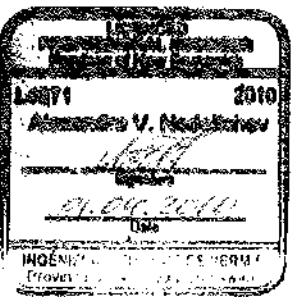
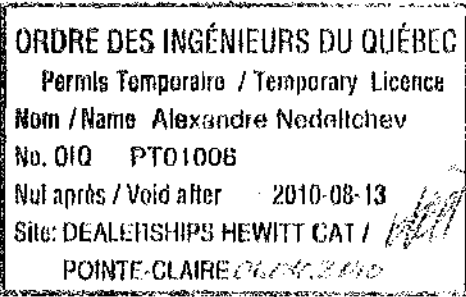
Model Rail (Lg. x CB*)	Allowable Depth (Ft.) For Soil Type			
	A	B	C-60	C-80
S-3.5XCB-E	25	25	21	N/A
S-5XCB-E	25	25	21	N/A
S-7XCB-E	25	25	21	N/A
S-8XCB-E	25	25	21	N/A
S-9XCB-E	25	25	21	N/A
S-12XCB-E	25	25	21	N/A

*CB: Cross Brace

Cross Brace Widths (In.)
17 - 27
22 - 36
28 - 46
34 - 55
42 - 69
52 - 88



The following additional certifications apply to pages 1-25 of this document, stamped by Alex Nedeltchev, P.E., on January 4, 2010.

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