

RAIL	WALER
LENGTH	8'
SECTION MODULUS	$S_x=14.5 \text{ in}^3$
SECTION PROFILE HEIGHT	5"
MAXIMUM CYLINDER LOADING	18,000 lbs.
CYLINDER NORMAL OPERATING PRESET PRESSURE	750—1500 PSI

ALLOWABLE HORIZONTAL SHORE SPACING (FT)			
DEPTH	TYPE A	TYPE B	TYPE C-60
5' - 8'	8'	7'	4'
10'	8'	6'	4'
12'	8'	5'	3'
14'	7'	4'	3'
16'	6'	4'	3'
18'	6'	3'	PLYWOOD OPTIONAL TO 8 FT. DEEP OR AS REQUIRED (SEE NOTE 3)
20'	4'	3'	
PLYWOOD OPTIONAL TO 8 FT. DEEP OR AS REQUIRED (SEE NOTE 3)			MUST USE PLYWOOD AFTER 8 FT.
USE PLYWOOD FOR RAVELING AND SLOUGHING			

Notes

A. Plywood is to be 1 1/2 in. cdx or 3/4 in. thick 14 ply fir form Plywood is for raveling and sloughing only. It may be required in any type of soil and must be used in type O—G and greater soil over 8 ft. deep (See page 1 for alternate plywood sheeting)

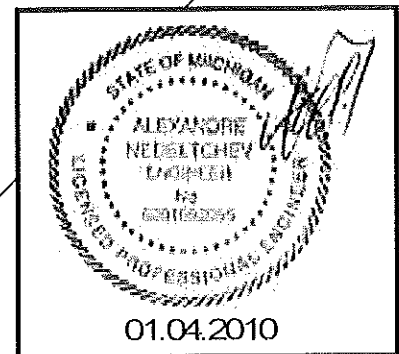
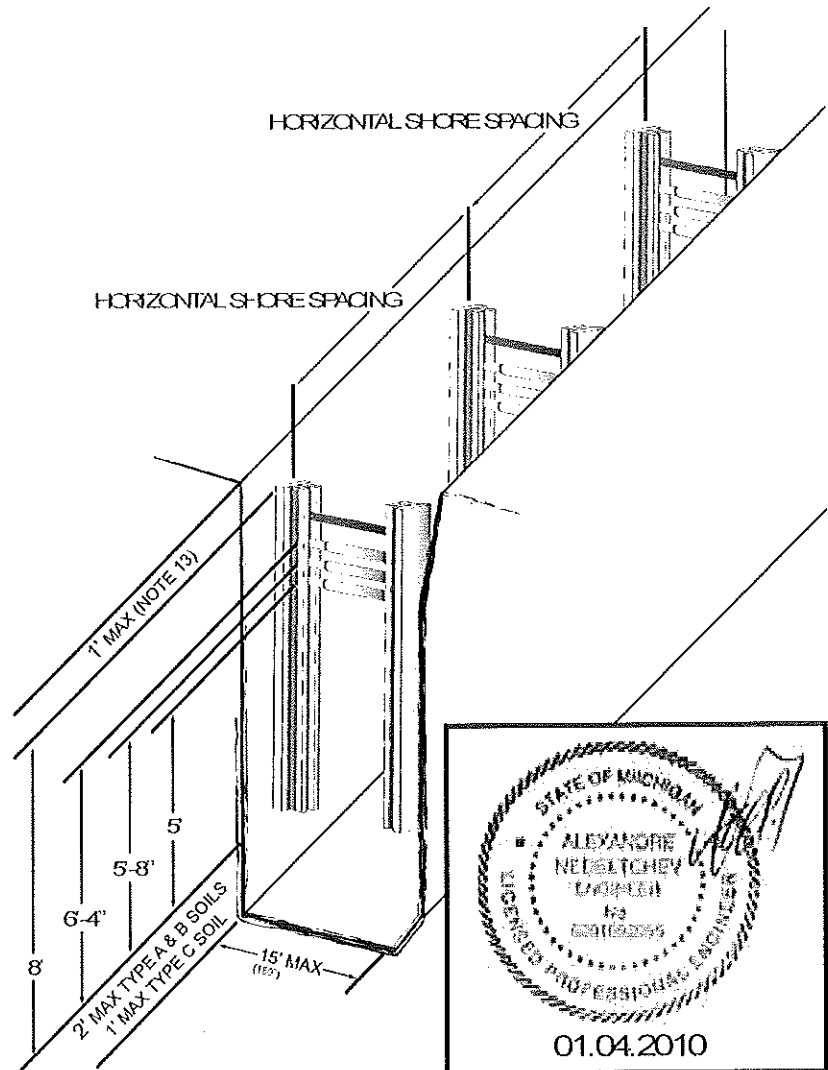
B. There must be at least 3 columns of shoring in the trench at all times. At the horizontal spacing indicated (or less), to form a shoring system. In trenches over 12 ft. deep and if possible a minimum of four shores should be used. For excavations that are too short to place three or four shores at the required spacing, two shores shall be placed at the required spacing. There shall be a shore within 2 ft. - 6 in. of each end of the excavation.

C. Spacing charts allow for surcharge loading from equipment weighing 20 lbs. or less. For larger equipment the surcharge loading should be increased as determined by a registered civil engineer.

D. No vertical loads are to be applied to the shores.

E. Shore loading shall be determined from the depth of the excavation and not from the location of the cylinders.

F. Trenches wider than 9'-4" up to 15' (112"-180") require Efficiency's Steel Oversleeves extensions.



RAIL	WALER
LENGTH	10'
SECTION MODULUS	$S_x=14.5 \text{ in}^3$
SECTION PROFILE HEIGHT	5'
MAXIMUM CYLINDER LOADING	18,000 lbs.
CYLINDER NORMAL OPERATING PRESET PRESSURE	750—1500 PSI

ALLOWABLE HORIZONTAL SHORE SPACING (FT)			
DEPTH	TYPE A	TYPE B	TYPE C-60
9'	8'	7'	4'
10'	8'	7'	4'
12'	8'	6'	4'
14'	8'	5'	3'
16'	7'	4'	3'
18'	6'	3'	PLYWOOD OPTIONAL TO 8 FT. DEEP OR AS REQUIRED (SEE NOTE 3)
20'	4'	3'	
PLYWOOD OPTIONAL TO 8 FT. DEEP OR AS REQUIRED (SEE NOTE 3)			MUST USE PLYWOOD AFTER 8 FT.
USE PLYWOOD FOR RAVELING AND SLOUGHING			

Notes

A. Plywood is to be 1 1/2 in. cdx or 3/4 in. thick 14 ply fir form Plywood is for raveling and sloughing only. It may be required in any type of soil and must be used in type 0—C0 and greater soil over 8 ft. deep (See page 1 for alternate plywood sheeting)

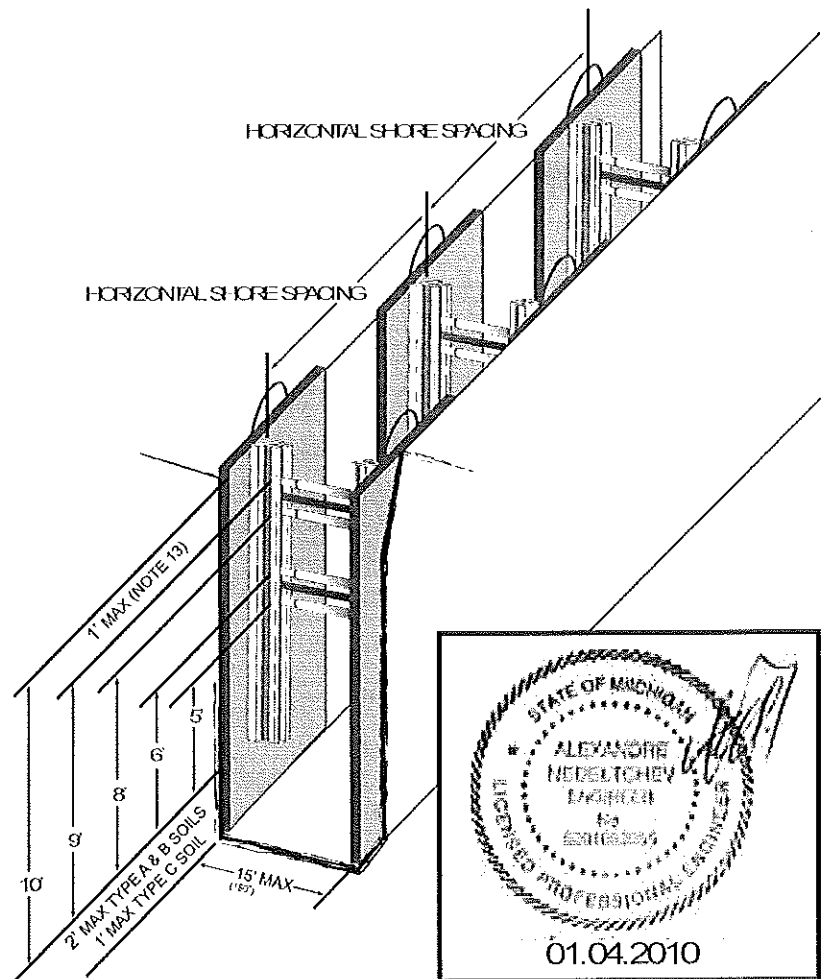
B. There must be at least 3 columns of shoring in the trench at all times. At the horizontal spacing indicated (or less), to form a shoring system. In trenches over 12 ft. deep and if possible a minimum of four shores should be used. For excavations that are too short to place three or four shores at the required spacing, two shores shall be placed at the required spacing. There shall be a shore within 2 ft. - 6 in. of each end of the excavation.

C. Spacing charts allow for surcharge loading for equipment weighing 20 lbs or less. For larger equipment the surcharge loading should be increased as determined by a registered civil engineer.

D. No vertical loads are to be applied to the shores.

E. Shore loading shall be determined from the depth of the excavation and not from the location of the cylinders.

F. Trenches wider than 9'-4" up to 15' (112"-180") require Efficiency's Steel Oversleeves extensions.



RAIL	WALER
LENGTH	12'
SECTION MODULUS	$S_x=14.5 \text{ in}^3$
SECTION PROFILE HEIGHT	5'
MAXIMUM CYLINDER LOADING	18,000 lbs.
CYLINDER NORMAL OPERATING PRESET PRESSURE	750—1500 PSI

ALLOWABLE HORIZONTAL SHORE SPACING (FT)			
DEPTH	TYPE A	TYPE B	TYPE C-60
11'	8'	7'	4'
12'	8'	6'	4'
14'	8'	5'	3'
16'	7'	4'	3'
18'	6'	3'	PLYWOOD OPTIONAL TO 8 FT. DEEP OR AS REQUIRED (SEE NOTE 3)
20'	4'	3'	
PLYWOOD OPTIONAL TO 8 FT. DEEP OR AS REQUIRED (SEE NOTE 3)			MUST USE PLYWOOD AFTER 8 FT.
USE PLYWOOD FOR RAVELING AND SLOUGHING			

Notes

A. Plywood is to be 1 1/2 in. edx or 3/4 in. thick 14 ply fin form Plywood is for raveling and sloughing only. It may be required in any type of soil and must be used in type 0—60 and greater soil over 8 ft. deep (See page 1 for alternate plywood sheeting)

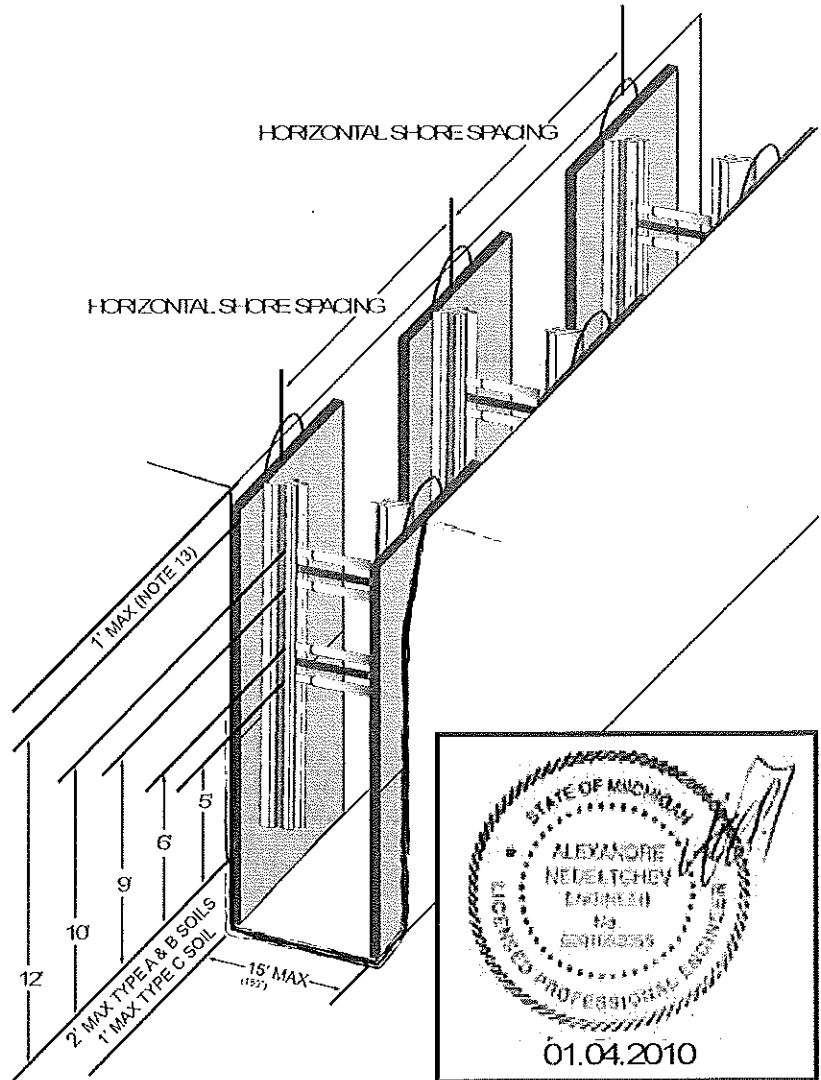
B. There must be at least 3 columns of shoring in the trench at all times. At the horizontal spacing indicated (or less), to form a shoring system. In trenches over 12 ft. deep and if possible a minimum of four shores should be used. For excavations that are too short to place three or four shores at the required spacing, two shores shall be placed at the required spacing. There shall be a shore within 2 ft. - 6 in. of each end of the excavation.

C. Spacing charts allow for surcharge loading for equipment weighing 20 lbs. or less. For larger equipment the surcharge loading should be increased as determined by a registered civil engineer.

D. No vertical loads are to be applied to the shores.

E. Shore loading shall be determined from the depth of the excavation and not from the location of the cylinders.

F. Trenches wider than 9'-4" up to 15' (12'-18") require Efficiency's Steel Oversleeves extensions.



RAIL	WALER
LENGTH	16'
SECTION MODULUS	$S_x=14.5 \text{ in}^3$
SECTION PROFILE HEIGHT	5'
MAXIMUM CYLINDER LOADING	18,000 lbs.
CYLINDER NORMAL OPERATING PRESSET PRESSURE	750—1500 PSI

ALLOWABLE HORIZONTAL SHORE SPACING (FT)			
DEPTH	TYPE A	TYPE B	TYPE C 60
14'	7'	4'	3'
16'	6'	4'	3'
18'	6'	3'	PLYWOOD OPTIONAL TO 8 FT. DEEP OR AS REQUIRED (SEE NOTE 3)
20'	4'	3'	
PLYWOOD OPTIONAL TO 8 FT. DEEP OR AS REQUIRED (SEE NOTE 3)			MUST USE PLYWOOD AFTER 8 FT.
USE PLYWOOD FOR RAVELING AND SLOUGHING			

Notes

A. Plywood is to be 1½ in. cdx or ¾ in. thick 14 ply fm form Plywood is for raveling and sloughing only. It may be required in any type of soil and must be used in type O—G and greater soil over 8 ft. deep (See page 1 for alternate plywood sheeting)

B. There must be at least 3 columns of shoring in the trench at all times. At the horizontal spacing indicated (or less), to form a shoring system. In trenches over 12 ft. deep and if possible a minimum of four shores should be used. For excavations that are too short to place three or four shores at the required spacing, two shores shall be placed at the required spacing. There shall be a shore within 2 ft. - 6 in. of each end of the excavation.

C. Spacing charts allow for surcharge loading for equipment weighing 20 lbs. or less. For larger equipment the surcharge loading should be increased as determined by a registered civil engineer.

D. No vertical loads are to be applied to the shores.

E. Shore loading shall be determined from the depth of the excavation and not from the location of the cylinders.

F. Trenches wider than 9'-4" up to 15' (112'-180") require Efficiency's Steel Oversleeves extensions.

