



Trench Shielding & Shoring Brochure

WE DELIVER!



OVER 75 YEARS OF EXPERIENCE
OVER 75 YEARS OF EXPERIENCE

– LOCALLY OWNED & OPERATED –

“Your Midwest Trench Shoring supplier!”

636-660-7467

2300 CASSENS DRIVE • FENTON, MO 63026

www.lubyshoring.com





Luby Shoring Services strives to provide reliable service, proven innovative shoring/shielding products, and experienced knowledgeable staff to supply working solutions to address our customer's specific project needs.

LUBY Offers:

- Engineered shoring systems and designs
- CAD drawings for submittals (PE Stamp if required)
- Pre-engineered design prior to bid process
- On-site technical assistance for engineered systems

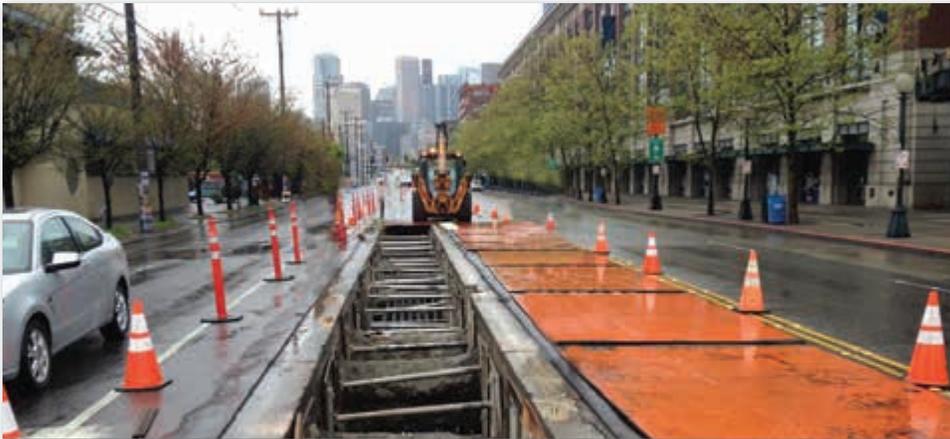
Street Plates



Street plates are a necessity to contractors, municipalities and utility companies in many projects. Some uses are among street crossing of utilities, temporary access over unstable terrain, and to avoid unnecessary back - filling.

For rent to contractors, municipalities and utility companies.

Street crossing of utilities / Temporary access over unstable terrain / Avoid unnecessary back - filling.

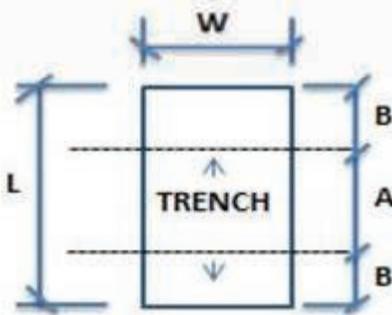


Trench widths are based on an analysis per the 14th Edition of the "Standard Specification For Highway Bridges" by A.A.S.H.T.O. An assumed axle loading of 12 tons with a 30% impact factor was used. The axle length is 6 feet; therefore the number of wheels carried by a plate depends on the roadway width.

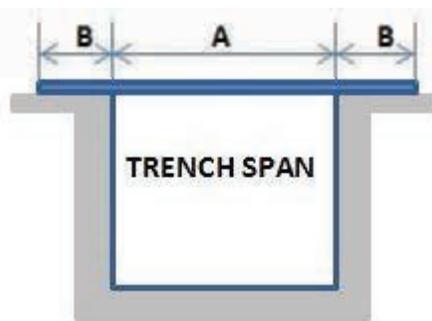
The plates are fabricated from A.S.T.M. A36 steel. Plate shall be secured from lateral movement, while in use by means of materials, such as asphalt-base cold mix or railroad spikes (spikes available for sale) on all four corners.

NOTE

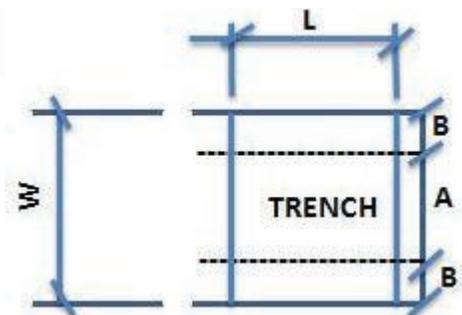
Street plates have not been engineered by Luby Equipment Services to be used in trench shoring applications. If used for shoring, the engineering design is the responsibility of others.



PARALLEL



TRENCH SPAN



PERPENDICULAR

Application Table

WIDTH "W" * FT.	LENGTH "L" * FT.	THICKNESS	WEIGHT (LBS.)	PARALLEL		PERPENDICULAR	
				"A"	"B"	"A"	"B"
4	8	1"	1300	24"	12"	48"	24"
5	10	1"	2050	30"	15"	60"	30"
5	12	1"	2460	30"	15"	60"	30"
8	10	1"	3270	48"	24"	72"	30"
8	12	1"	3930	48"	24"	72"	36"
8	16	1"	5230	48"	24"	72"	60"
8	20	1"	6540	48"	24"	72"	84"

W = Width of Plate / L = Length of Plate / A = Maximum Trench Width (span) / B = Minimum Plate Overlap

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Spreader

Spreader Sets for Steel Trench Shields



MODEL	LENGTH	WEIGHT (LBS.)
SP-24-4	24"	415
SP-30-4	30"	500
SP-36-4	36"	585
SP-42-4	42"	675
SP-48-4	48"	760
SP-54-4	54"	850
SP-60-4	60"	935
SP-66-4	66"	1020
SP-72-4	72"	1105
SP-78-4	78"	1195
SP-84-4	84"	1280
SP-90-4	90"	1370



MODEL	LENGTH	WEIGHT (LBS.)
SP-96-4	96"	1455
SP-102-4	102"	1540
SP-108-4	108"	1630
SP-120-4	120"	1800
SP-132-4	132"	1975
SP-144-4	144"	2150
SP-156-4	156"	2320
SP-168-4	168"	2495
SP-180-4	180"	2670
SP-192-4	192"	2850
SP-204-4	204"	3015
SP-216-4	216"	3535
SP-228-4	228"	3185
SP-240-4	240"	3365

Spreader Sets / 8" Sch. 80 / 4-Pipe "I"

Rigging

- 3/8" X 6' Wire Rope Sling with (4) - 2 Ton Crosby Shackles
- 3/8" X 8' Wire Rope Sling with (4) - 2 Ton Crosby Shackles
- 5/8" X 8' Wire Rope Sling with (4) - 13.5 Ton Crosby Shackles
- 5/8" X 10' Wire Rope Sling with (4) - 13.5 Ton Crosby Shackles
- 5/8" X 15' Wire Rope Sling with (4) - 13.5 Ton Crosby Shackles



*** All rigging is certified and tagged with size, length, max load, serial number, and date of load test ***

Size A Trench Shield

Soil, Classification, Calculating Depth Ratings, and Sizing a Shield



Determine Depth of Cut

- Slope must start 18 in. or 1-1/2 ft. below the top of the Shield

Determine Soil Conditions

- (See Depth Rating Chart)
 - Type A (25#)
 - Type B (45#)
 - Type C-60 (60#)
 - Type C-80 (80#)
 - Hydrostatic

Determine Width of Trench Shield

- Shield width determined by Outside Diameter (OD) of the pipe or the OD of the excavator bucket.
- Allow 6 in. of clearance on each side of pipe bell.
- Shield should be a minimum of 12 in. wider than the excavator bucket OD.

Determine Length of Trench Shield

- Inside length clearance of pipe is approximately 2 ft. less than the overall length of the shield.
- Shield must be 2 to 4 ft. longer than the pipe.

Determine Machine Lift Capacity

- Lift capacity is 1.5 times the shield weight at 20 ft. radius at grade.

Determine Bucket Width

- Inside shield: 12 in. less than shield

CALCULATING DEPT RATINGS:

PSF ratings and depths are based on temporary loading.

Lateral Pressure Per Foot of Depth:

- Type "A" Soil = 25 lbs.
- Type "B" Soil = 45 lbs.
- Type "C-60" Soil = 60 lbs.
- Type "C-80" Soil = 80 lbs.

Depth Rating Using Shield Capacity (e.g. 1200 lbs.):

- $1200 / 25 = 48$ ft.
- $1200 / 45 = 27$ ft.
- $1200 / 60 = 20$ ft.
- $1200 / 80 = 15$ ft.

Soil types

Type "A" (No Soil Is Type "A" If):

- It is fissured
- It is subject to vibration
- It has been previously disturbed
- It is part of a sloped, layered system, which dips into the excavation on a slope of four horizontal to one vertical [4H:1V] or greater
- It is subject to other factors requiring Classification as less stable

Type "B" Soil:

- Cohesive soil with unconfined compressive strength greater than 0.5 tons per square foot (tsf.), but less than 1.5 tsf.
- Granular cohesion-less soils, e.g., gravel, silt, silt loam, sandy loam
- Type "A" fissured or subject to vibration
- Unstable dry rock
- It is part of a sloped, layered system, which dips into the excavation on a slope less steep than 4H:1V, but only if the material would otherwise be classified as Type "B"

Type "C" Soil:

- Cohesive/non-cohesive soils with unconfined compressive strength of 0.5 tsf or less
- Granular soils including gravel, sand, and loamy sand
- Submerged soil or soil from which water is freely seeping
- Submerged rock that is not stable
- Sloped, layered system which slopes into an excavation at an angle 4H:1V, or steeper

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XLD

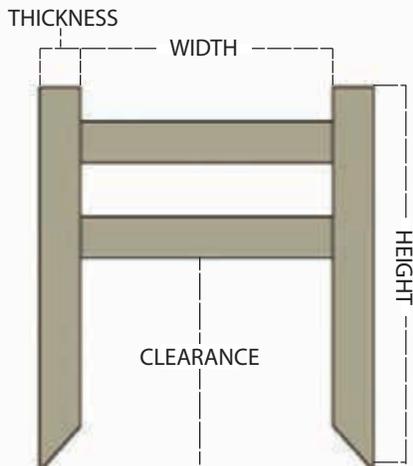
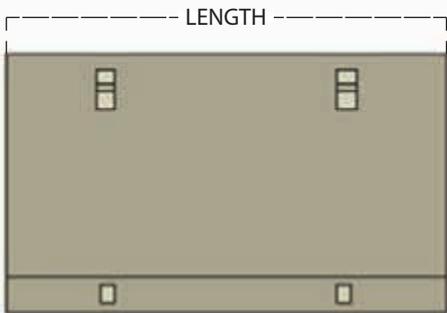
4" Thick Steel Double Wall Trench Shields

Used with medium crawler excavators in trenches where weight and space are crucial.



XLD

MODEL	WEIGHT (LBS.)	PIPE CLEARANCE	SOIL TYPE (C-60)	SHIELD CAP (PSF)
48 XLD	2,520	22"	46'	2,760
410 XLD	2,850	22"	46'	2,760
412 XLD	3,380	22"	46'	2,760
414 XLD	3,740	22"	34'	2,040
416 XLD	4,130	22"	25'	1,500
420 XLD	4,970	22"	20'	1,200
<hr/>				
88 XLD	4,380	64"	46'	2,760
810 XLD	5,090	64"	44'	2,640
812 XLD	5,800	64"	34'	2,040
814 XLD	6,580	64"	29'	1,740
816 XLD	7,270	64"	26'	1,560
820 XLD	8,920	64"	22'	1,320
1012 XLD	7,000	84"	33'	1,980
1014 XLD	8,025	84"	22'	1,320



Features

- ◆ Reinforced top rails
- ◆ Adjustable & stackable
- ◆ Thru-wall lifting lugs
- ◆ Four-point lifting system
- ◆ Thru-wall collars
- ◆ Triple vertical tube collar post design
- ◆ Pinned spreader connections
- ◆ Strongest knife edge in industry
- ◆ Professional Engineer design & depth certification
- ◆ Plug welding on double wall shields
- ◆ High strength mill certified steel

Options

- ◆ Pulling lugs
- ◆ Foam filled
- ◆ Pulling blocks
- ◆ Mud plate
- ◆ Corner brackets
- ◆ Custom spreader location
- ◆ Custom paint
- ◆ Stacking pockets
- ◆ T-connection cut-outs

Spreader options

- ◆ 4-Pipe Independent Set
- ◆ 5-Pipe Independent Set
- ◆ 6" Schedule 80
- ◆ 8" Schedule 80 (Standard)

HT6 6" Thick Steel Double Wall Trench Shields

Combines depth capability with lightweight narrow sidewalls, making the most versatile steel shield available. They are designed for medium range excavators.



HT6	MODEL (HT. x LENGTH)	WEIGHT (LBS.)	PIPE CLEARANCE	SOIL TYPE (C-60)	SHIELD CAP (PSF)
	4'X20' HT6	6,370	22"	24'	1,440
	4'X24' HT6	7,510	22"	19'	1,140
	8'X20' HT6	10,410	64"	26'	1,560
	8'X24' HT6	12,290	64"	19'	1,140
	10'X16' HT6	10,380	84"	28'	1,680
	10'X20' HT6	12,900	84"	24'	1,440
	10'X24' HT6	15,890	84"	20'	1,200

HT8 8" Thick Steel Double Wall Trench Shields

Designed for deeper, more demanding work, while minimizing sidewall deflection and providing extensive shield durability.

HT8	MODEL (HT. x LENGTH)	WEIGHT (LBS.)	PIPE CLEARANCE	SOIL TYPE (C-60)	SHIELD CAP (PSF)
	8'X20' HT8	10,960	64"	35'	2,100
	8'X22' HT8	12,320	64"	26'	1,560
	8'X24' HT8	13,420	64"	25'	1,500
	8'X30' HTHD8	22,400	64"	25'	1,500
	10'X20' HT8	14,740	84"	32'	1,920
	10'X24' HT8	16,270	84"	28'	1,680
	10'X30' HT8	23,400	84"	20'	1,200

MHXLDW MANHOLE SHIELDS

Designed to be used in two, three, or four-sided configurations, with an independent spreader system. Can also be used with the 6" schedule 80 spreader.

Features

- ◆ Reinforced top rails
- ◆ Stackable
- ◆ Thru-wall lifting lugs
- ◆ Pinned spreader connections
- ◆ Strongest knife edge in the industry
- ◆ Plug welding on double wall shields
- ◆ High strength mill-certified steel

MODEL (Height x Length)	WEIGHT (LBS.)	PIPE CLEARANCE	SOIL TYPE (C-60)	SHIELD CAPACITY
8'x 8' MHXLDW	5,170	52"	22'	1,320
8'x 10' MHXLDW	5,840	52"	22'	1,320
8'x 12' MHXLDW	6,860	52"	22'	1,320
8'x 14' MHXLDW	7,570	52"	22'	1,320



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XLAP™ ALUMINUM DOUBLE WALL TRENCH

Designed for municipalities, utilities and contractors who use rubber-tired backhoe/loaders and small excavators when trenching. Can also be used with the XLAP-3 Spreader.



Features

- ◆ Telescoping spreader sets in a variety of sizes
- ◆ Stackable with Build-A-Box
- ◆ Flat bottom or extruded aluminum knife edge on panels
- ◆ Narrow sidewalls
- ◆ Ultra-light double wall aluminum
- ◆ Greatest strength to weight ratio in the industry
- ◆ 3" sidewalls are smooth to prevent dirt build up and reduce friction
- ◆ Foam-filled wall construction prevents dirt and moisture accumulation
- ◆ Pulling and lifting lugs

Options

- ◆ T-connection cut-outs
- ◆ End panels for 3 and 4-sided shields
- ◆ Adjustable spreaders
- ◆ Custom spreader location
- ◆ Adjustable legs

MODEL (Height x Length)	WEIGHT (LBS.)	PIPE CLEARANCE	SOIL TYPE (C-60)	SHIELD CAPACITY
8' x 6' XLAP	900	30"	26'	1,560
8' x 8' XLAP	1,120	30"	20'	1,200
8' x 10' XLAP	1,340	30"	16'	960
8' x 12' XLAP	1,560	30"	13'	780
8' x 14' XLAP	1,770	30"	10'	600

ARCH SPREADERS and Extensions			
MODEL Height x Length (ft.)	DESCRIPTION	WEIGHT (LBS.)	DEPTH OF CUT (C-60) Soil Type
BBAC-ARCH 64	72" (high) x 48"	560	14
BBAC-EXT24	24" Horiz. Extensions	117	14
BBAC-EXT36	36" Horiz. Extensions	139	14
BBAC-EXT48	48" Horiz. Extensions	161	14
BBAC-EXT60	60" Horiz. Extensions	183	14
BBAC-EXT72	72" Horiz. Extensions	205	14
BBAC-EXT84	84" Horiz. Extensions	227	14

SPREADERS Single Adj. Square Tube		
MODEL Height x Length (ft.)	LENGTH (IN.)	WEIGHT (LBS.)
XL-1824-1	18 - 24	30
XL-2436-1	24 - 36	35
XL-3660-1	36 - 60	51
XL-4872-1	48 - 72	67
XL-6096-1	60 - 96	81
XL-72108-1	72 - 108	95
XL-84120-1	84 - 120	95
XL-96144-1	96 - 144	130

BUILD-A-BOX™ TRENCH SHIELD SYSTEM

Designed to be used with adjustable or arch spreaders. Changes can be made on the spot to adjust to any job with light to extreme conditions and can be assembled in minutes.



TWO SIDED BUILD-A-BOX™

MODEL (HT. x LENGTH)	WEIGHT (LBS.)	DEPTH/CUT (C-60 SOIL) Sec. Corner Post	SHIELD CAP Sec. Corner Post	DEPTH/CUT (C-60 SOIL) Full Length Post	SHIELD CAP Full Length Post
2'x 3' BBP	40	40'	2,400	40'	2,400
2'x 4' BBP	52	40'	2,400	32'	1,920
2'x 6' BBP	76	40'	2,400	22'	1,320
2'x 8' BBP	100	24'	1,440	17'	1,020
2'x 10' BBP	124	16'	960	14'	840
2'x 12' BBP	148	13'	780	11'	660
2'x 14' BBP	170	10'	600	9'	540

3 AND 4 SIDED BUILD-A-BOX™

MODEL (HT. x LENGTH)	DEPTH/CUT (C-60 SOIL) Sec. Corner Post	SHIELD CAP Sec. Corner Post	DEPTH/CUT (C-60 SOIL) Full Length Post	SHIELD CAP Full Length Post
4'x 8'	22'	1,320	17'	1,020
4'x10'	15'	900	13'	780
4'x12'	13'	780	10'	600
4'x14'	10'	600	9'	540
6'x 6'	34'	2,040	22'	1,320
6'x 8'	21'	1,260	17'	1,020
6'x10'	14'	840	12'	720
6'x12'	13'	780	10'	600
6'x14'	10'	600	9'	540
8'x 8'	20'	1,200	17'	1,020
8'x10'	14'	840	12'	720
8'x12'	12'	720	9'	540
8'x14'	9'	540	8'	480
10'x10'	13'	780	11'	660
10'x12'	12'	720	9'	540
10'x14'	9'	540	8'	480
12'x12'	11'	660	9'	540
12'x14'	9'	540	8'	480
14'x14'	8'	480	8'	480

3-Sided



4-Sided



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STONE MIZER®



Sizing & Using a Stone Mizer®

MACHINE SIZE (LBS)	STONE MIZER
Up to 35,000	5 cu. yd.
35,000 - 55,000	7.5 cu. yd.
55,000 - 75,000	9 cu. yd.
75,000 - 90,000	10 cu. yd.
90,000 - 120,000	12 cu. yd.
120,000 - 140,000	15 cu. yd.
140,000 - 170,000	20 cu. yd.
170,000 and up	Custom

- ◆ Stone Mizers should hold a minimum of four buckets (large enough to make one complete cut or cycle).
- ◆ The inside dimension of the Stone Mizer should be at least 12 in. wider than the excavator bucket.
- ◆ Heavy-duty designs are recommended for 90,000+lbs. excavators.
- ◆ Special designs are available.



SM Standard Stone Mizer® With Lift Bar

MODEL/CAPACITY (CU. YD.)	SIZE (in.) H x W x L	WEIGHT (LBS)
SM-5	36" x 60" x 140"	4,210
SM-7.5	48" x 60" x 162"	4,820
SM-9	48" x 60" x 186"	5,490
SM-10	48" x 60" x 204"	6,350
SM-12	48" x 70" x 210"	7,040
SM-15	48" x 70" x 216"	7,530

Standard Series

SDSM Heavy-Duty Stone Mizer® With Lift Bar

MODEL/CAPACITY (CU. YD.)	SIZE (in.) H x W x L	WEIGHT (LBS)
HDSM-5	36" x 60" x 140"	5,210
HDSM-7.5	48" x 60" x 162"	6,120
HDSM-9	48" x 60" x 186"	6,890
HDSM-10	48" x 60" x 204"	7,820
HDSM-12	48" x 70" x 210"	8,590
HDSM-15	60" x 70" x 216"	9,580
HDSM-18	60" x 70" x 252"	10,790
HDSM-20	72" x 70" x 252"	11,370

Recommended for 90,000 lbs. + Excavators

SM-EWHD Ext. Width Heavy-Duty Stone Mizer® With Lift Bar

MODEL/CAPACITY (CU. YD.)	SIZE (in.) H x W x L	WEIGHT (LBS)
SM-EWHD-9	48" x 75" x 157"	6,850
SM-EWHD-10	48" x 83" x 158"	7,540
SM-EWHD-12	48" x 83" x 181"	8,430
SM-EWHD-15	60" x 86" x 188"	9,600
SM-EWHD-18	60" x 90.5" x 207"	10,240
SM-EWHD-20	60" x 90.5" x 224"	11,070

Better Accommodates Excavators With Oversized Buckets

SM-EWSD Ext. Width Severe Duty Stone Mizer® With Lift Bar

MODEL/CAPACITY (CU. YD.)	SIZE (in.) H x W x L	WEIGHT (LBS)
SM-EWSD-15	60" x 86" x 188"	12,430
SM-EWSD-18	60" x 90.5" x 207"	13,390
SM-EWSD-20	60" x 90.5" x 224"	14,600

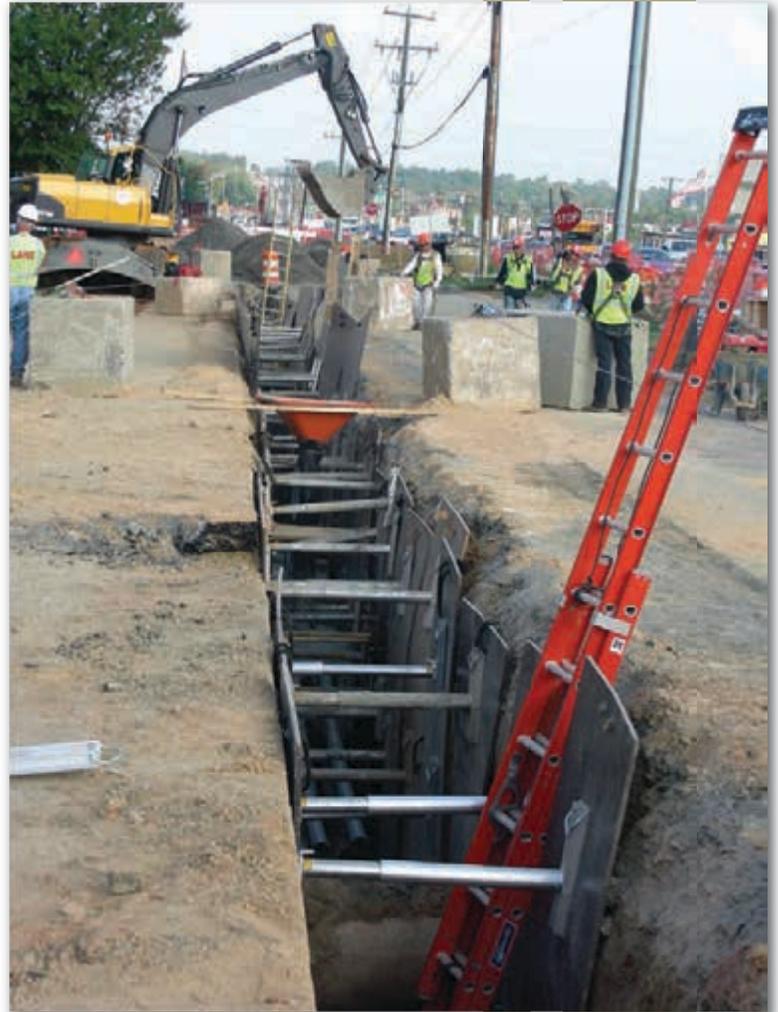
Engineered For Use With Larger Excavators of 140,000 + Lbs.

Hydraulic Shoring



Standard Duty Aluminum Hydraulic Shores

RAIL LENGTH	CYLINDER ADJUSTMENT	WEIGHT (LBS.)
1.5'	17" to 27"	20
1.5'	22" to 36"	23
1.5'	28" to 46"	25
1.5'	34" to 55"	28
1.5'	40" to 64"	30
1.5'	52" to 88"	36
1.5'	108" to 144"	57
EXTENSIONS	EXTENSIONS LGTH	WEIGHT
	12"	6
	24"	9
	30"	10
	42"	12
	56"	14



HYDRAULIC SHORING SUPPORT EQUIPMENT

4' X 4' Finn Form Board w/ropes	45 lbs
4' X 8' Finn Form Board w/ropes	90 lbs
Release Tools	7 lbs / 9 lbs / 14 lbs
Removal Hook	7 lbs / 9 lbs / 14 lbs
5 gal. Plastic Pump Can	10 lbs. empty/50 lbs. with fluid

3.5' Rails, 5' Rails and 7' Rails are available.

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Slide Rail System

Universal component steel trench shielding system.



Individual Slide Rail components offer the option of using lighter equipment when installing the system. The cost of rental and installation of the system is approximately 50% of steel sheeting.

- ◆ Installation and required excavation are completed together, saving time and reducing cost.
- ◆ Wall to wall working space is greater.
- ◆ Minimal vibration to adjacent buildings and surrounding structures.

The Efficiency ClearSpan™ System incorporates special walers for larger unobstructed four-side working pits for site specific jobs.

- ◆ Provides a large unobstructed working area.
- ◆ Cost effective compared to steel sheeting and other methods.
- ◆ Heavy-duty panels provide minimal deflection.
- ◆ Minimal vibration to adjacent buildings and surrounding structures.



4-Sided Multi-Bay



This configuration is ideal when installing next to existing utilities and structures. Longer pipe may be installed by raising or removing the parallel beam spreader assembly.

- ◆ Innovative parallel beams eliminated post deflection during installation and removal. The roller design facilitates the vertical movement of the integrated beam and spreader unit.
- ◆ The parallel beam can be used with spreaders or arches.

Slide Rail Accessories



Ground Quick-release™ Shackle

In the process of installing Slide Rail, the shackle connecting the top of posts, panels, and sheeting must be removed manually. This is normally done by climbing on a ladder to reach the top. The innovative new Ground QUICK-RELEASE™ Shackle has a spring loaded pin that when pulled from the ground by a connecting robe, retracts and frees the shackle.



Slide Rail Job Box

Customized, lockable tool box designed specifically for Slide Rail components and tools. Custom racks holds multiple cables, shackles, and other Slide Rail accessories:

- Corner Spacing & Squaring Tools
- Wire Rope & Single Leg Slings
- Screw Pin Shackles & Swivel
- Rope & Level
- Shackle Removal Wrench
- Slide Rail Post Handling Device



Slide Rail Squaring Tool



Squaring the system is critical to the ease of the dig and push process. The Squaring Tool is a spacing template that makes it easy to assure that the system is square and plumb.

Pull Bracket-Removal Shackle



Pull Bracket-Removal Shackles are uniquely designed to quickly and easily pull Slide Rail panels from compacted soil without damaging the panels or other equipment.

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Leica Piper 200 & 100 2M Pipe Lasers

The world's most versatile pipe lasers



The most versatile pipe lasers in the market, the **Leica Piper 200 and 100** bring exceptional performance, accuracy and simplicity to sewer construction and pipe applications. The compact Piper fits inside a 100 millimetre (4 inch) pipe, assuring easy and efficient setup even in the smallest inverts.

High application versatility

In the pipe, over the top or in the manhole, the Leica Piper always delivers

- In the pipe – Piper's self-centring, rubber tipped feet and robust, cast-aluminum housing assures the highest reliability in the pipeline construction.
- Over the top – In above-ground tasks, the optional scope and the mount kit provide user-friendly solutions for simple setup and operation
- In the manhole – in manhole application, Piper's unique design and wide stable base make it easy to set up even in the tightest inverts.
- Piper is 100% waterproof (sealed to IP X8 protection standard) and has a positive pressure nitrogen seal to deliver the ultimate reliability. outstanding performance.

Piper hits the target every time

Piper is ideal anywhere line and grade is required.

- Large clear display for easy grade reading: Line position, battery status and level indication.
- Piper's bright, visible beam is focused to maintain its crisp, clear spot and size over long distances.
- Automatic grade compensation easily identifies and corrects grade errors.
Piper automatically self-levels over a full grade range and eliminates the need to tip the laser for steep slopes.

Increased productivity with smart features

Piper 200 and 100 provide pipe and sewer contractors with smart, user-friendly features for enhanced application performance.

- Strobe Mode – its multi-functional remote control strobes the laser beam for increased visibility
- Top pivot point (Lighted Pivot Point) and Battery Saving Mode.
- Alignmaster function – a patented automatic targeting system that searches and finds the target for fast second day setups, minimizing downtime on the jobsite.

Plugs & Testing Equipment



TEST & BLOCK PLUGS

FLOW DIVERSION



TEST EQUIPMENT

REHABILITATION



66" Hydraulically Actuated Telescopic Flow Diverters used to dry up a structure. Diverters are steered into place remotely with included hydraulic control panel.

If your trench looks like this, you need this class!

Trench Safety Awareness & Duties of the Competent Person

Training Topics

- Soil classification
- Sloping and benching
- Aluminum hydraulic shoring
- Requirements for protective systems
- Manufactured tabulated data
- Site specific engineering
- General requirements and competent person responsibilities



Upon successful completion, participants will receive a Certificate of Course Completion within 1 week

Call or email for more information or to register today!

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