

ISEKI

PIPE ROOF METHOD

This unique method can be used for economically installing large-section, short-length tunnels.

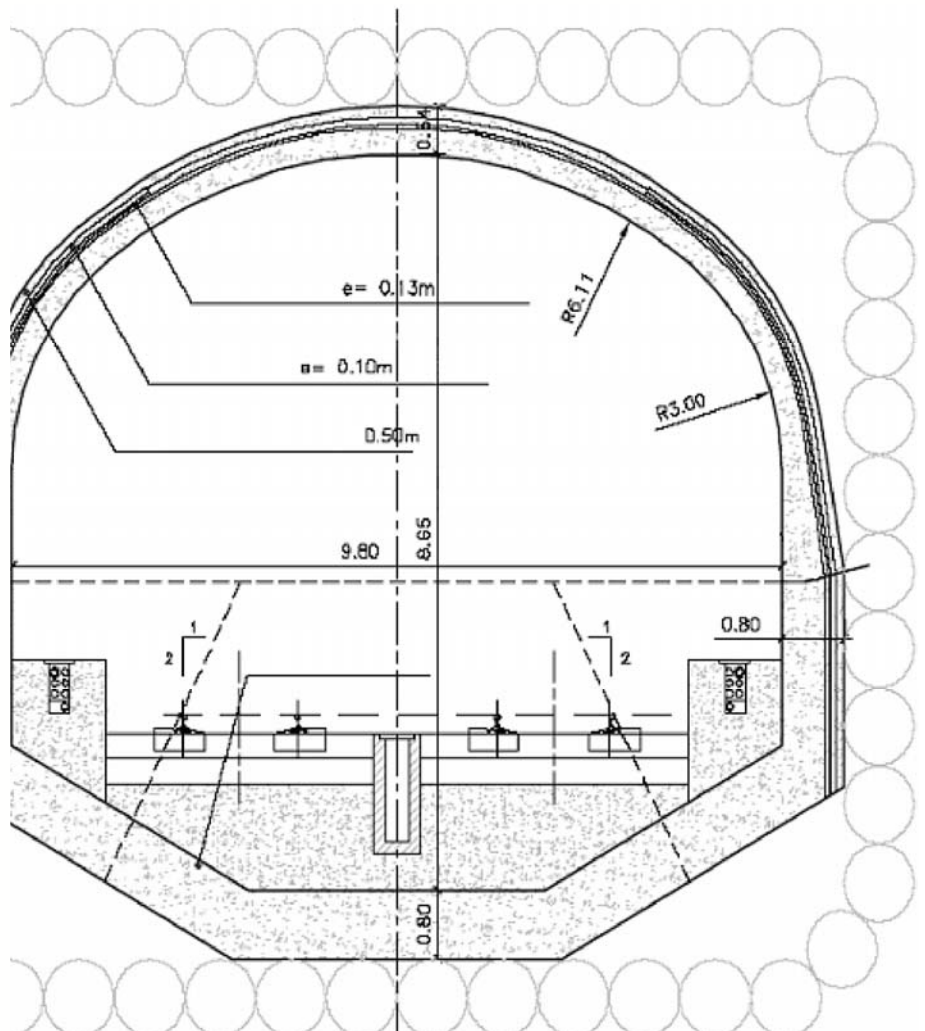
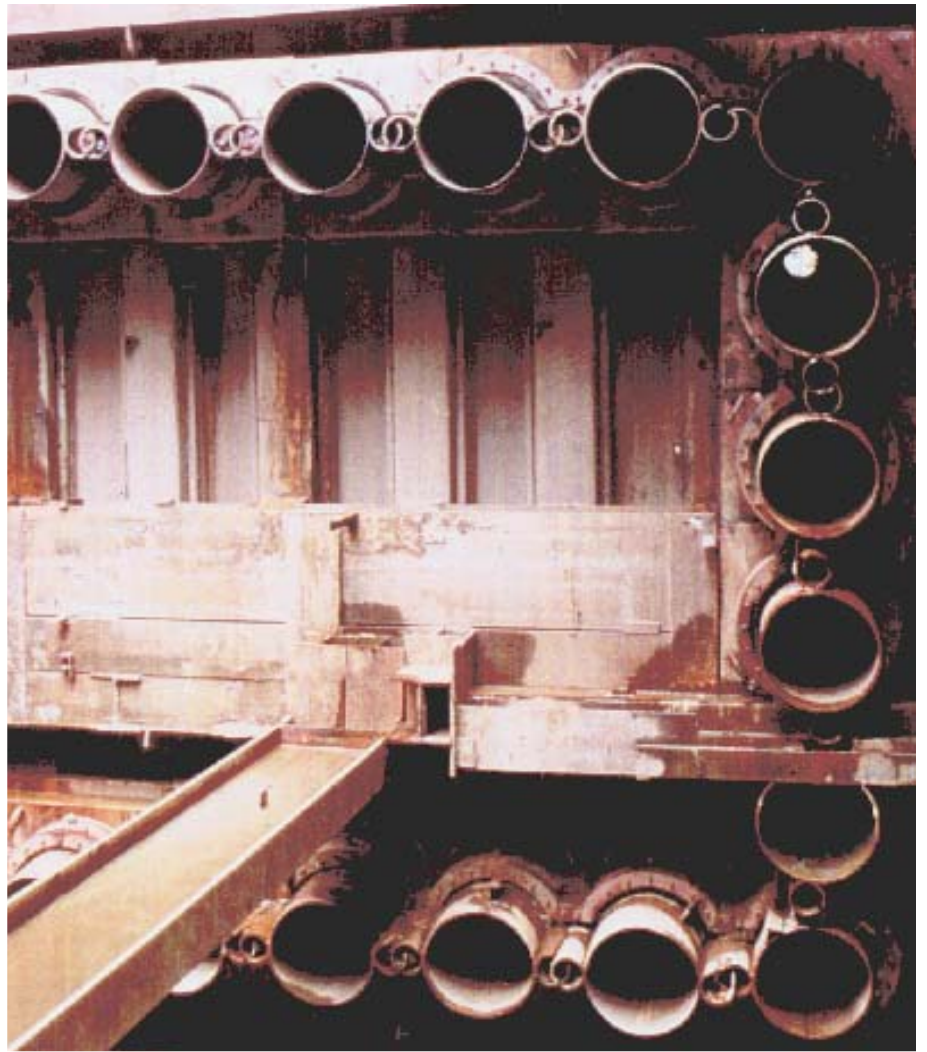
The main benefits of the Iseki Pipe Roof Method are:

- *Total security against settlement and ground movement*
- *Cost savings over alternative methods*
- *Flexibility of design*
- *Installed pipes are linked together to make a secure structure, which is then supported, excavated, and finally lined to create the finished tunnel.*

Distributor for Iseki Poly-Tech, Inc.
Sales: Europe, Middle-East, Africa,
Indian sub-continent
Hire: Worldwide



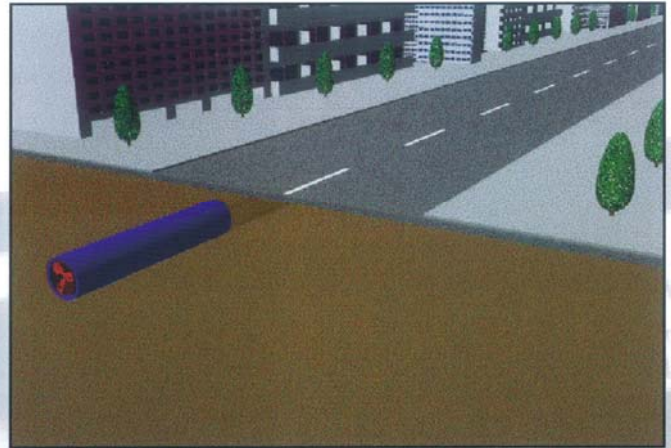
ISEKI
MICROTUNNELLING



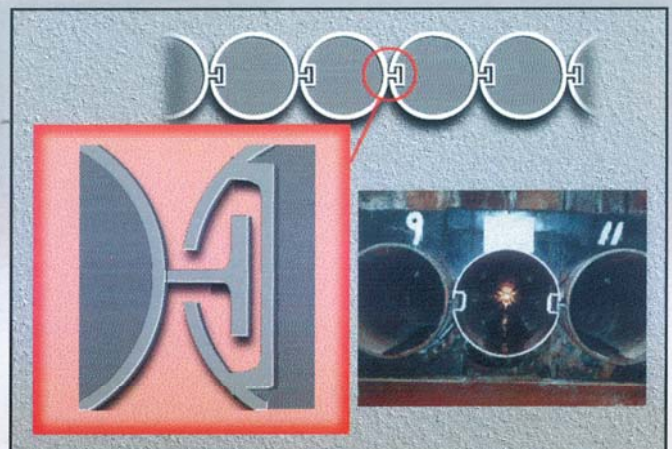
THE ISEKI PIPE ROOF METHOD

Brief method statement:

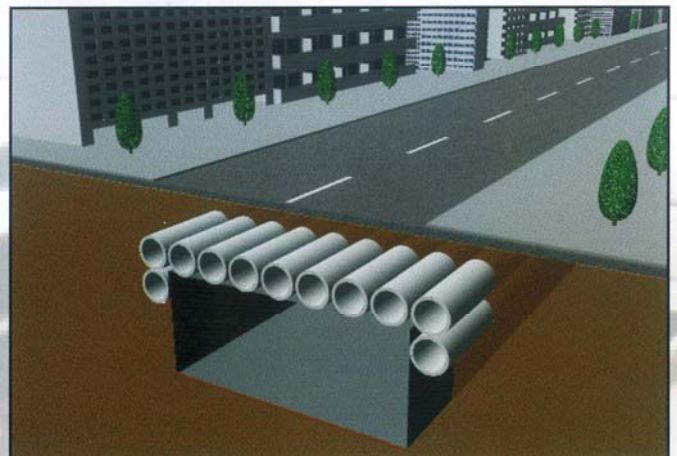
- ◆ Analyse project to choose best pipe size for geometry and system availability.
- ◆ Calculate structural elements.
- ◆ Sink shafts at each end of proposed pipe roof.
- ◆ Microtunnel from centre top, proceeding in both directions (two systems can be used simultaneously).
- ◆ When pipe roof is in place, commence excavation in stages, introducing bracing to support the roof.
- ◆ Fill pipes with concrete (optional, subject to structural requirements).
- ◆ Complete project by lining the tunnel.



The first pipe is installed as per the normal microtunnelling method



Each subsequent pipe interlocks with an adjacent pipe



This procedure allows a complete arch to be constructed

Iseki Pipe Roofing Experience:

date	location	machine	pipe o.d.	drives
1983	Singapore	TM400id	22"	24 x 26m
1993	Singapore	TCC450id	24"	58 x 36m
1994	Taiwan	TCC600id	32"	64 x 54m
1993	Taiwan	TCZ450id	24"	23 x 45m
1993	Japan	TCC600id	32"	24 x 128m
			"	34 x 98m
			"	7 x 132m
1994	Malaysia	TCC600id	30"	30 x 65m
1995	Japan	TCC700id	36"	29 x 47m
1995	Japan	TCC700id	32"	56 x 59m
1996	Japan	TCZ450id	28"	59 x 71m
1998	Taiwan	TCC450id	24"	72 x 101m
			"	65 x 77m
1999	Japan	TCS450id	24"	22 x 92m
2000	Japan	TCS450id	24"	18 x 81m
2001	Athens	TCC300id	18"	35 x 26m
2002	Japan	TCS450id	24"	13 x 70m
2004	Japan	TCS450id	24"	32 x 100m

Distributor for Iseki Poly-Tech, Inc.

Sales: Europe, Middle-East, Africa, Indian sub-continent

Hire: Worldwide



ISEKI
MICROTUNNELLING

Iseki Microtunnelling
Airfield Road
Hinwick
Wellingborough
NN29 7JQ
United Kingdom

tel: +44(0)1234 781166
fax: +44(0)1234 781992

email: info@isekimicro.com

website: www.isekimicro.com