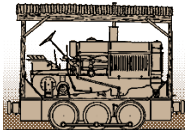
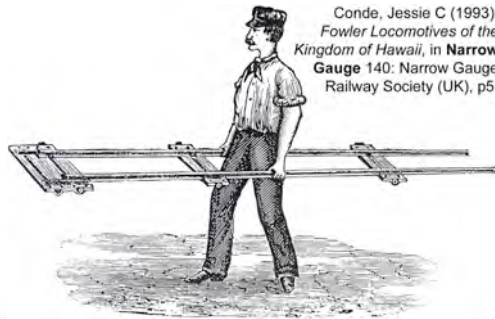


Portable Track

- Lynn Zelmer e-mail: lynn@zelmeroz.com



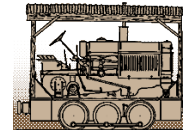
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Portable Track: Presentation

- Photos from the canefields (Qld, Fiji, Java, HI)
- Trackwork types/range/specifications
- Acknowledgements, thanks, etc.



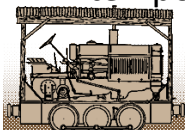
Marshalling cars of cut cane with mules on the portable track at Oahu Sugar Co. Circa 1900. H.S.P.A. Conde: Sugar Trains p 67



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Main haulage & feeder tracks...

- On estate work it is general to use a permanent line with heavy rails for the main haulage and light temporary lines in the cutting fields as feeder tracks. The latter are moved forward as cutting proceeds and are simply laid on the ground without any ballasting. The wagons are loaded on these temporary lines and afterwards transferred to the main line. [R Hudson Ltd cat 36035]

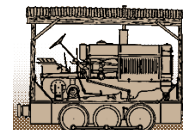


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Fiji 2003...



© Brad Peardon

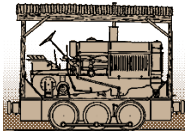


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Java 2008...



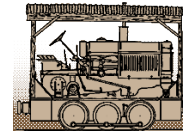
© John Browning



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Hudson BS Portable Railways

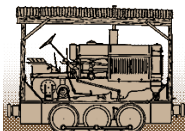
- #1: 10 lbs rails. Sleepers, standard clipbolt type, 33" long, spaced 1610/mile (1000/km), 24" rail gauge. Max load 36 cwt (4032 lbs) on 4 wheels; traction by hand, slow speeds.
- #3 (Standard): 14 lbs rails, 24" gauge, light traffic—animals or small tractors @4 mph.
- #6 (Standard): 20 lbs rails, 24" gauge, light locos, 8 mph (may need extra sleepers).



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Hudson BS Portable Track

- Other types of Hudson BS sleeper (eg riveted) and fishplate joint more expensive
- Other companies had different 'standards'

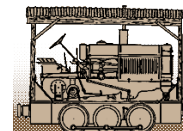


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Similar if not Hudson (Java)



© John Browning

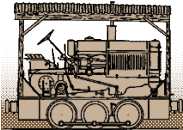


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Gregg (USA) Portable Track



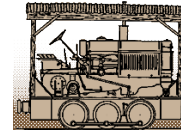
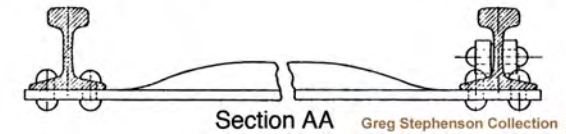
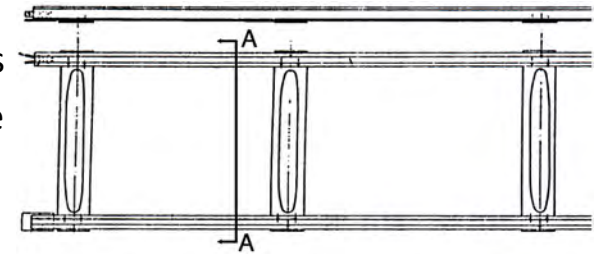
Straight section of portable track fitted with splice shoes. From Conde; Sugar Trains Pictorial (Hawaii)



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CSR BHP 14 lb rail

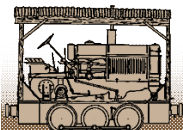
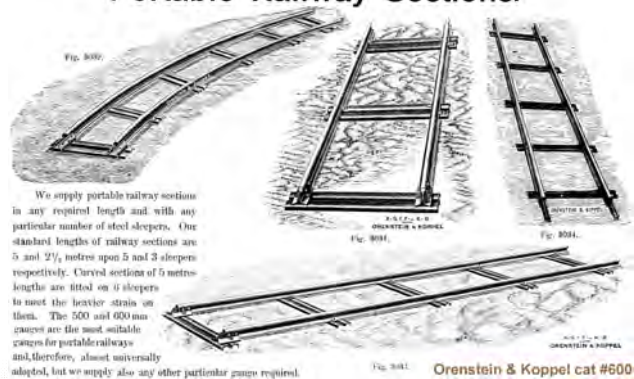
- 16' 6"
- 6 sleepers
- 24" gauge
- Riveted
- Sole & fish plates



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Any length, gauge, sleepers...

Portable Railway Sections.



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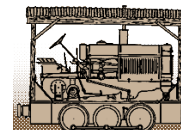
Hudson BS turnouts

- British Standard: other products included three way turnouts, crossings, turntables & heavier duty components for permanent way.



LEFT-HAND TURNOUT on steel sleepers, with switchbox and lever for loco. traction
Code 36265

SMALL SYMMETRICAL TURNOUT on steel sleepers, with kickover tongues for hand or animal traction
Code 36267



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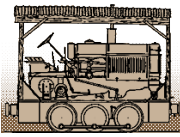
Permanent way to field lines...

Orenstein & Koppel cat #600 **Inclined Planes.**

1. Single Inclined Plane.
 Fig. 3065. Single Inclined Plane.
 Fig. 3065 illustrates a single inclined plane. They consist of a curved section of track 5 metres long and a pair of ascending tongues connected by a tie-rod.

3. Adjustable Inclined Planes,
 as illustrated by Fig. 3067, consist of a curved section of track 3 1/2 metres long, a pair of ascending tongues connected by tie-rod and a straight section 1 1/2 metres long. The turning point of the inclined plane is on the joint sleeper of the straight section.

The advantage claimed for adjustable inclined planes is that they can be laid upon the main track by a simple turning, and removed in the same way without loosening the fish plate bolts.



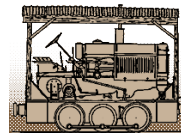
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Misc...

3. Double Inclined Plane
 consists of a section of line 1/2 in long with a pair of tongues at either end and may be found useful where a portable line is to cross a permanent line.

Portable Level Crossing.
 Fig. 3044 below illustrates a portable level crossing made of wood planking which will be found useful where the track is crossed by a cart-road.

Connecting Bridge.
 When a track is being laid down simultaneously at either end and no short section will suit, the small space remaining, the run section is first made by the bridge represented by Fig. 3043.



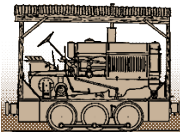
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Mule power, 1910...



Conde: Sugar Trains Pictorial p41

Portable track car with mule power and crew in the Highlands of Puunene 1910. Bishop Museum.



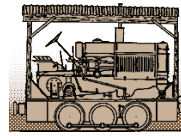
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Almost certainly portable track...



Narrow Gauge & Short Line Gazette, July 2008, p 68

Above: A 2-foot gauge John Fowler & Co. open-cab 2-4-0T works the Maui cane fields of the Hawaiian Commercial & Sugar Co. near Spreckelsville in 1881. This line was converted to 3-foot gauge in 1900-1901. Photo, collection of C.L. Tullford.

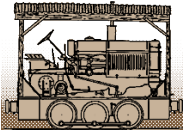


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Post-steam power c 1925...



© Bishop Museum, Hawaii



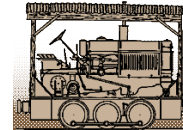
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Straddling the track...



Marshalling cane cars on the portable track about 1925. *Hawaiian Sugar Planter's Association.*

Conde: Sugar Trains Pictorial, p30

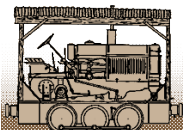


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Track?



Fig. early 1900s © John Peterson

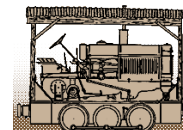


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Yes, there is track!

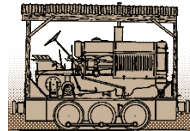


Fig. early 1900s © John Peterson



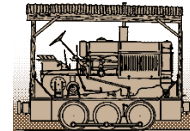
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Current track often overgrown too!



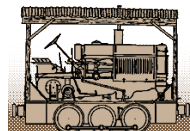
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Java: longitudinal trucks



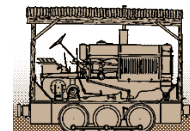
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Track bolted together (fishplates)



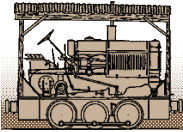
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Incline & straight section



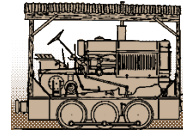
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Curved incline or ??



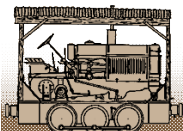
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Incline or riding points?



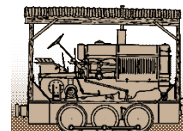
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Conforming to terrain...



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...

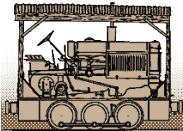


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...and butt ends...



© John Browning

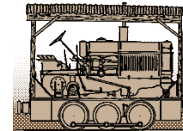


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Late 1980s Fiji...



Cuvu, Fiji, late 1980s © John Peterson

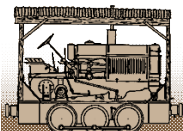


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...



John Peterson © late 1980s

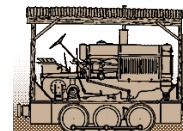


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South Johnstone Mill, 2003

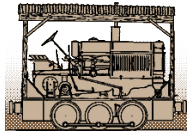


© Rob Nesbitt



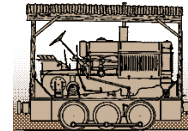
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Java: standard sections



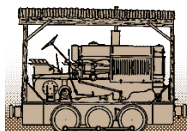
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Portable track & cattle grids



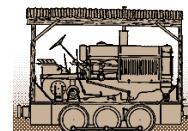
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Fiji: Tavua Depot



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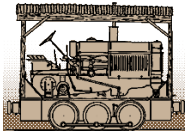
Tavua Depot



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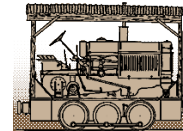
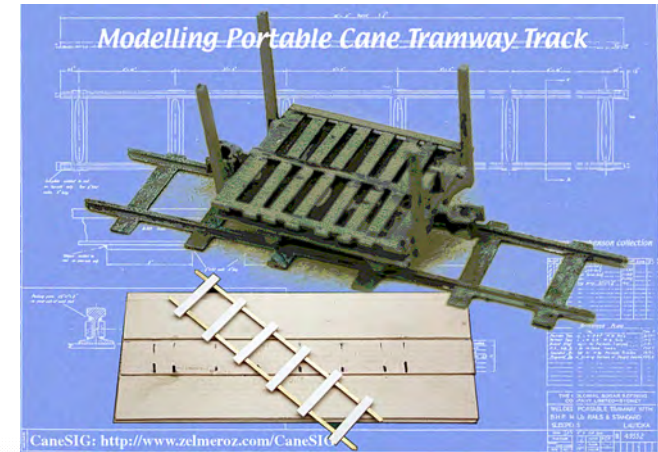
HOn30 portable track sections...

- 18' nickel silver rail
- 4' scale styrene 8 x 2



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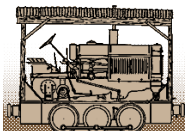
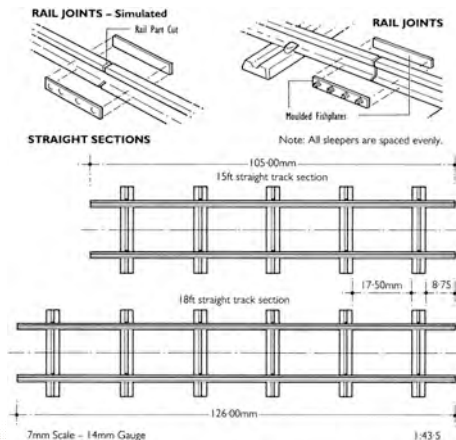
...using HOn30 cardstock jig



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O-14 (7mm scale) BS track

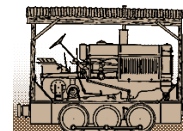
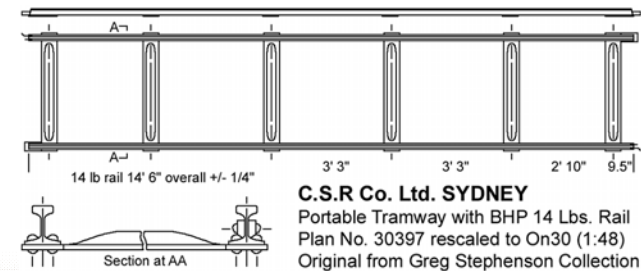
- Roy C Link models
- Injection molded styrene sleepers
- 15' or 18' lengths
- Code 55-82 track
- Sleepers evenly spaced



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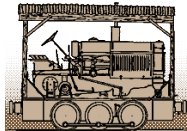
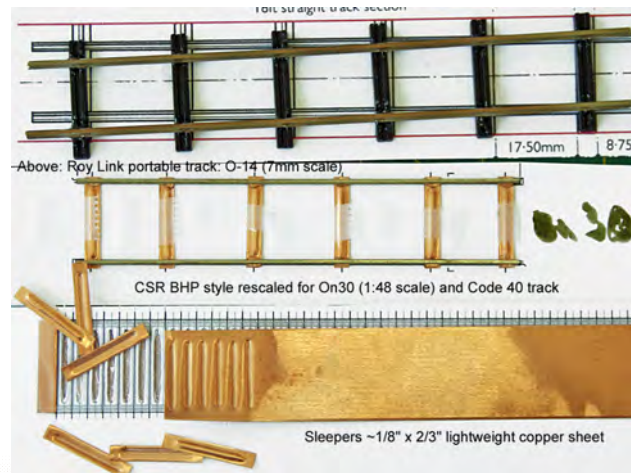
CSR/BHP rescaled for On30

- 14 lb rail 14' 6" long bolted to sleepers spaced 9.5", 2' 10", 3' 3" from each end & extending slightly outside rail; alternate sole/fish plates



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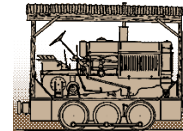
O-14 and On30 modelled



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Acknowledgements

- Numerous authors, researchers, railfans, photographers & draftsmen
- Historical materials, including original, reprinted and [online] scanned catalogues
- Narrow Gauge Convention—the opportunity and the audience
- Happy Modelling!



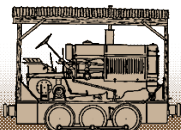
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Further information

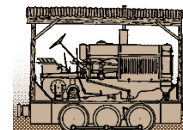
- www.zelmeroz.com/CaneSIG
- QldRailHeritage.com/mrqc
- *NGDU #36*: January 2010
- *LRRSA Light Railways*: forthcoming
- Link, Roy C (1994). *Industrial Narrow Gauge Catalogue and Handbook*
- Manufacturer's catalogues, archives, etc.

Many thanks...

- Without an audience there wouldn't be a convention
- Happy modelling, regardless of your scale, gauge, era
- lynn@zelmeroz.com: qldrailheritage.com/mrqc, www.zelmeroz.com/canesig



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