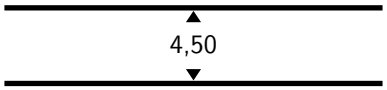
Snippets

No.	Name	Symbol	Code	Sub library
1	main track		`\draw[MainTrack] (-2.5,0) -- ++(5,0);`	topology
2	main line (double track)		`\draw[MainTrack] (-2.5, 0.5) -- ++(5,0);` `\draw[MainTrack] (-2.5,-0.5) -- ++(5,0);`	topology

3	track distance (in m)		`\draw[MainTrack] (-2.5, 0.5) -- ++(5,0);`
			`\pic at (0,-0.5) {track_distance={4,50}};`
			`\draw[MainTrack] (-2.5,-0.5) -- ++(5,0);`
				topology

4	secondary track		`\draw[SecondaryTrack] (-2.5,0) -- ++(5,0);`	topology
5	track number		`\draw[MainTrack] (-2.5,0) -- ++(5,0);` `\pic at (0, 0) {track_number={2}};`	topology

6	turnout left (forward)		`\draw[MainTrack] (-2.5,0) -- ++(5,0);`
			`\draw[MainTrack] ( 0,0) -- ++(1,1);`
			`\pic at (0,0) {turnout_left_forward};`
				topology

7	turnout left (backward)		`\draw[MainTrack] (-2.5,0) -- ++( 5, 0);`
			`\draw[MainTrack] ( 0,0) -- ++(-1,-1);`
			`\pic at (0,0) {turnout_left_backward};`
				topology

No.	Name	Symbol	Code	Sub library

8	turnout right (forward)		`\draw[MainTrack] (-2.5,0) -- ++(5, 0);`
			`\draw[MainTrack] ( 0,0) -- ++(1,-1);`
			`\pic at (0,0) {turnout_right_forward};`
				topology

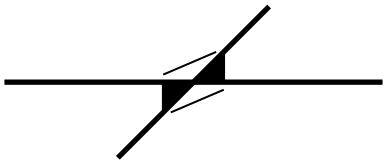
9	turnout right (backward)		`\draw[MainTrack] (-2.5,0) -- ++( 5,0);`
			`\draw[MainTrack] ( 0,0) -- ++(-1,1);`
			`\pic at (0,0) {turnout_right_backward};`
				topology

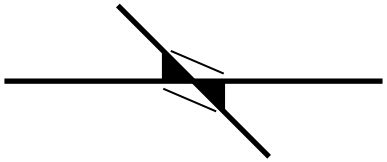
10	turnout left (forward)
	with fouling point indicator
			`\draw[MainTrack] (-2.5,0) -- ++(5,0);`
			`\draw[MainTrack] ( 0,0) -- ++(1,1);`
			`\pic at (0,0) {turnout_left_forward};`
			`\pic at (0,0) {fouling_point_left_forward};`
				topology

11	turnout left (backward)
	with fouling point indicator
			`\draw[MainTrack] (-2.5,0) -- ++( 5, 0);`
			`\draw[MainTrack] ( 0,0) -- ++(-1,-1);`
			`\pic at (0,0) {turnout_left_backward};`
			`\pic at (0,0) {fouling_point_left_backward};`
				topology

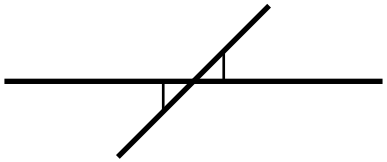
12	turnout right (forward)
	with fouling point indicator
			`\draw[MainTrack] (-2.5,0) -- ++(5, 0);`
			`\draw[MainTrack] ( 0,0) -- ++(1,-1);`
			`\pic at (0,0) {turnout_right_forward};`
			`\pic at (0,0) {fouling_point_right_forward};`
				topology

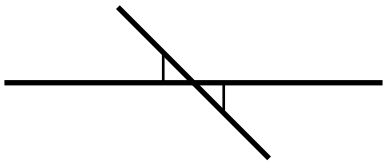
13	turnout right (backward)
	with fouling point indicator
			`\draw[MainTrack] (-2.5,0) -- ++( 5,0);`
			`\draw[MainTrack] ( 0,0) -- ++(-1,1);`
			`\pic at (0,0) {turnout_right_backward};`
			`\pic at (0,0) {fouling_point_right_backward};`
				topology

14	double-slip turnout left		`\draw[MainTrack] (-2.5, 0) -- ++(5,0);`
			`\draw[MainTrack] (-1 ,-1) -- ++(2,2);`
			`\pic at (0,0) {turnout_left_forward};`
			`\pic at (0,0) {turnout_left_backward};`
			`\pic at (0,0) {slip_left_forward};`
			`\pic at (0,0) {slip_left_backward};`
				topology

15	double-slip turnout right		`\draw[MainTrack] (-2.5,0) -- ++(5, 0);`
			`\draw[MainTrack] (-1 ,1) -- ++(2,-2);`
			`\pic at (0,0) {turnout_right_forward};`
			`\pic at (0,0) {turnout_right_backward};`
			`\pic at (0,0) {slip_right_forward};`
			`\pic at (0,0) {slip_right_backward};`
				topology

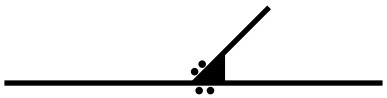
No.	Name	Symbol	Code	Sub library

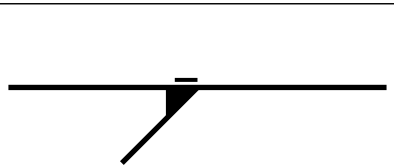
16	diamond crossing left		`\draw[MainTrack] (-2.5, 0) -- ++(5,0);`
			`\draw[MainTrack] (-1 ,-1) -- ++(2,2);`
			`\pic at (0,0) {turnout_left_forward=none};`
			`\pic at (0,0) {turnout_left_backward=none};`
				topology

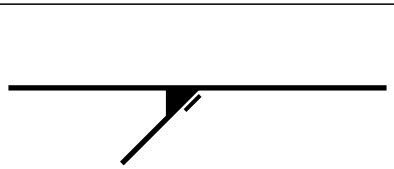
17	diamond crossing right		`\draw[MainTrack] (-2.5,0) -- ++(5, 0);`
			`\draw[MainTrack] (-1 ,1) -- ++(2,-2);`
			`\pic at (0,0) {turnout_right_forward=none};`
			`\pic at (0,0) {turnout_right_backward=none};`
				topology

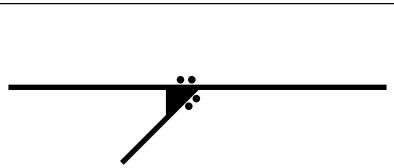
18	turnout left (forward)
	with points in right position
			`\draw[MainTrack] (-2.5,0) -- ++(5,0);`
			`\draw[MainTrack] ( 0,0) -- ++(1,1);`
			`\pic at (0,0) {turnout_left_forward};`
			`\pic at (0,0) {turnout_left_forward_points_right};`
				topology

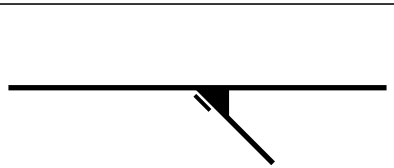
19	turnout left (forward)
	with points in left position
			`\draw[MainTrack] (-2.5,0) -- ++(5,0);`
			`\draw[MainTrack] ( 0,0) -- ++(1,1);`
			`\pic at (0,0) {turnout_left_forward};`
			`\pic at (0,0) {turnout_left_forward_points_left};`
				topology

20	turnout left (forward)
	with moving points
			`\draw[MainTrack] (-2.5,0) -- ++(5,0);`
			`\draw[MainTrack] ( 0,0) -- ++(1,1);`
			`\pic at (0,0) {turnout_left_forward};`
			`\pic at (0,0) {turnout_left_forward_points_moving};`
				topology

21	turnout left (backward)
	with points in right position
			`\draw[MainTrack] (-2.5,0) -- ++( 5, 0);`
			`\draw[MainTrack] ( 0,0) -- ++(-1,-1);`
			`\pic at (0,0) {turnout_left_backward};`
			`\pic at (0,0) {turnout_left_backward_points_right};`
				topology

22	turnout left (backward)
	with points in left position
			`\draw[MainTrack] (-2.5,0) -- ++( 5, 0);`
			`\draw[MainTrack] ( 0,0) -- ++(-1,-1);`
			`\pic at (0,0) {turnout_left_backward};`
			`\pic at (0,0) {turnout_left_backward_points_left};`
				topology

23	turnout left (backward)
	with moving points
			`\draw[MainTrack] (-2.5,0) -- ++( 5, 0);`
			`\draw[MainTrack] ( 0,0) -- ++(-1,-1);`
			`\pic at (0,0) {turnout_left_backward};`
			`\pic at (0,0) {turnout_left_backward_points_moving};`
				topology

24	turnout right (forward)
	with points in right position
			`\draw[MainTrack] (-2.5,0) -- ++(5, 0);`
			`\draw[MainTrack] ( 0,0) -- ++(1,-1);`
			`\pic at (0,0) {turnout_right_forward};`
			`\pic at (0,0) {turnout_right_forward_points_right};`
				topology

No.	Name	Symbol	Code	Sub library

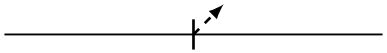
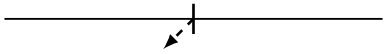
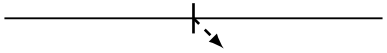
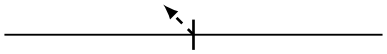
25	turnout right (forward)
	with points in left position
			`\draw[MainTrack] (-2.5,0) -- ++(5, 0);`
			`\draw[MainTrack] ( 0,0) -- ++(1,-1);`
			`\pic at (0,0) {turnout_right_forward};`
			`\pic at (0,0) {turnout_right_forward_points_left};`
				topology

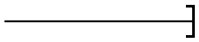
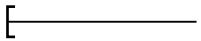
26	turnout right (forward)
	with moving points
			`\draw[MainTrack] (-2.5,0) -- ++(5, 0);`
			`\draw[MainTrack] ( 0,0) -- ++(1,-1);`
			`\pic at (0,0) {turnout_right_forward};`
			`\pic at (0,0) {turnout_right_forward_points_moving};`
				topology

27	turnout right (backward)
	with points in right position
			`\draw[MainTrack] (-2.5,0) -- ++( 5,0);`
			`\draw[MainTrack] ( 0,0) -- ++(-1,1);`
			`\pic at (0,0) {turnout_right_backward};`
			`\pic at (0,0) {turnout_right_backward_points_right};`
				topology

28	turnout right (backward)
	with points in left position
			`\draw[MainTrack] (-2.5,0) -- ++( 5,0);`
			`\draw[MainTrack] ( 0,0) -- ++(-1,1);`
			`\pic at (0,0) {turnout_right_backward};`
			`\pic at (0,0) {turnout_right_backward_points_left};`
				topology

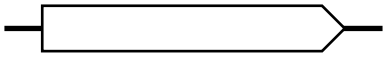
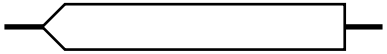
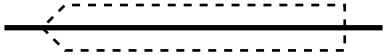
29	turnout right (backward)
	with moving points
			`\draw[MainTrack] (-2.5,0) -- ++( 5,0);`
			`\draw[MainTrack] ( 0,0) -- ++(-1,1);`
			`\pic at (0,0) {turnout_right_backward};`
			`\pic at (0,0) {turnout_right_backward_points_moving};`
				topology

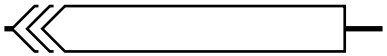
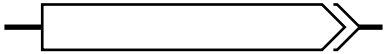
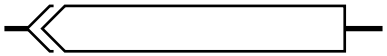
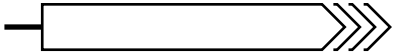
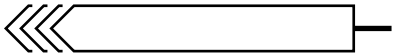
30	derailer left (forward)		`\draw[SecondaryTrack] (-2.5,0) -- ++(5,0);` `\pic at (0,0) {derailer_left_forward};`	topology
31	derailer left (backward)		`\draw[SecondaryTrack] (-2.5,0) -- ++(5,0);` `\pic at (0,0) {derailer_left_backward};`	topology
32	derailer right (forward)		`\draw[SecondaryTrack] (-2.5,0) -- ++(5,0);` `\pic at (0,0) {derailer_right_forward};`	topology
33	derailer right (backward)		`\draw[SecondaryTrack] (-2.5,0) -- ++(5,0);` `\pic at (0,0) {derailer_right_backward};`	topology

No.	Name	Symbol	Code	Sub library
34	bufferstop (forward)		`\draw[SecondaryTrack] (-2.5,0) -- ++(2.5,0);` `\pic at (0,0) {bufferstop_forward};`	topology
35	bufferstop (backward)		`\draw[SecondaryTrack] (0,0) -- ++(2.5,0);` `\pic at (0,0) {bufferstop_backward};`	topology
36	vehicles (parked)		`\draw[SecondaryTrack] (-2.5,0) -- ++(5,0);` `\pic at (-2,0) {vehicles};`	vehicles

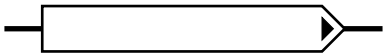
37	vehicles with label (parked)		`\draw[SecondaryTrack] (-2.5,0) -- ++(5,0);`
			`\pic at (-2,0) {vehicles};`
			`\node[font=\sffamily] at (0,0) {label};`
				vehicles

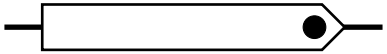
38	vehicle (parked)		`\draw[SecondaryTrack] (-2.5,0) -- ++(5,0);`
			`\pic at (-0.5,0) {vehicles=1};`
			`% change the 1 to desired length`
				vehicles

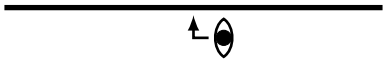
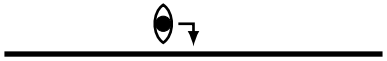
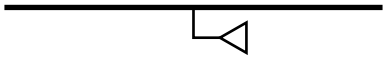
39	train (direction forward)		`\draw[MainTrack] (-2.5,0) -- ++(5,0);` `\pic at (2,0) {train_direction_forward};`	vehicles
40	train (direction backward)		`\draw[MainTrack] (-2.5,0) -- ++(5,0);` `\pic at (-2,0) {train_direction_backward};`	vehicles
41	ghost train (direction forward)		`\draw[MainTrack] (-2.5,0) -- ++(5,0);` `\pic at (2,0) {ghost_train_direction_forward};`	vehicles
42	ghost train (direction backward)		`\draw[MainTrack] (-2.5,0) -- ++(5,0);` `\pic at (-2,0) {ghost_train_direction_backward};`	vehicles

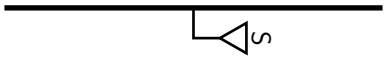
No.	Name	Symbol	Code	Sub library
43	train moving (forward)		`\draw[MainTrack] (-2.5,0) -- ++(5,0);` `\pic at (2,0) {train_moving_forward};`	vehicles
44	train moving (backward)		`\draw[MainTrack] (-2.5,0) -- ++(5,0);` `\pic at (-2,0) {train_moving_backward};`	vehicles
45	train moving slow (forward)		`\draw[MainTrack] (-2.5,0) -- ++(5,0);` `\pic at (2,0) {train_moving_slow_forward};`	vehicles
46	train moving slow (backward)		`\draw[MainTrack] (-2.5,0) -- ++(5,0);` `\pic at (-2,0) {train_moving_slow_backward};`	vehicles
47	train moving fast (forward)		`\draw[MainTrack] (-2.5,0) -- ++(5,0);` `\pic at (2,0) {train_moving_fast_forward};`	vehicles
48	train moving fast (backward)		`\draw[MainTrack] (-2.5,0) -- ++(5,0);` `\pic at (-2,0) {train_moving_fast_backward};`	vehicles
49	train in shunting mode (direction forward)		`\draw[MainTrack] (-2.5,0) -- ++(5,0);` `\pic at (2,0) {train_shunt_mode_forward};`	vehicles
50	train in shunting mode (direction backward)		`\draw[MainTrack] (-2.5,0) -- ++(5,0);` `\pic at (-2,0) {train_shunt_mode_backward};`	vehicles
51	train shunting (forward)		`\draw[MainTrack] (-2.5,0) -- ++(5,0);` `\pic at (2,0) {train_shunting_forward};`	vehicles

No.	Name	Symbol	Code	Sub library
52	train shunting (backward)		`\draw[MainTrack] (-2.5,0) -- ++(5,0);` `\pic at (-2,0) {train_shunting_backward};`	vehicles

53	train operated automatic (direction forward)		`\draw[MainTrack] (-2.5,0) -- ++(5,0);`
			`\pic at (2,0) {train_direction_forward}; % train`
			`\pic at (2,0) {train_automatic_forward}; % triangle`
				vehicles

54	train operated by human (direction forward)		`\draw[MainTrack] (-2.5,0) -- ++(5,0);`
			`\pic at (2,0) {train_direction_forward}; % train`
			`\pic at (2,0) {train_human_forward}; % dot`
				vehicles

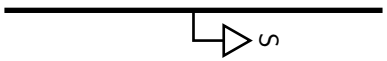
55	view point (forward)		`\draw[MainTrack] (-2.5,0) -- ++(5,0);` `\pic at (0,0) {view_point_forward};`	trafficcontrol
56	view point (backward)		`\draw[MainTrack] (-2.5,0) -- ++(5,0);` `\pic at (0,0) {view_point_backward};`	trafficcontrol
57	distant signal (forward)		`\draw[MainTrack] (-2.5,0) -- ++(5,0);` `\pic at (0,0) {distant_signal_forward};`	trafficcontrol

58	distant signal with speed indicator		`\draw[MainTrack] (-2.5,0) -- ++(5,0);`
			`\pic at (0,0) {distant_signal_forward={S}};`
			`% replace the S with desired speed or remove`
				trafficcontrol

59	distant signal (backward)		`\draw[MainTrack] (-2.5,0) -- ++(5,0);` `\pic at (0,0) {distant_signal_backward};`	trafficcontrol

60	distant signal with speed indicator		`\draw[MainTrack] (-2.5,0) -- ++(5,0);`
			`\pic at (0,0) {distant_signal_backward={S}};`
			`% replace the S with desired speed or remove`
				trafficcontrol

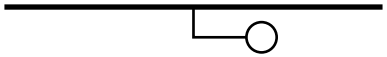
No.	Name	Symbol	Code	Sub library

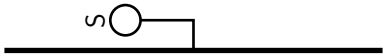
61	speed signal (forward)		`\draw[MainTrack] (-2.5,0) -- ++(5,0);`
			`\pic at (0,0) {speed_signal_forward={S}};`
			`% replace the S with desired speed or remove`
				trafficcontrol

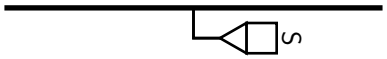
62	speed signal (backward)		`\draw[MainTrack] (-2.5,0) -- ++(5,0);`
			`\pic at (0,0) {speed_signal_backward={S}};`
			`% replace the S with desired speed or remove`
				trafficcontrol

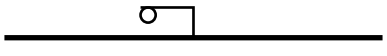
63	block signal (forward)		`\draw[MainTrack] (-2.5,0) -- ++(5,0);` `\pic at (0,0) {block_signal_forward};`	trafficcontrol

64	block signal (backward)		`\draw[MainTrack] (-2.5,0) -- ++(5,0);`
			`\pic at (0,0) {block_signal_backward={S}};`
			`% replace the S with desired speed or remove`
				trafficcontrol

65	route signal (forward)		`\draw[MainTrack] (-2.5,0) -- ++(5,0);` `\pic at (0,0) {route_signal_forward};`	trafficcontrol

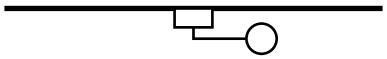
66	route signal (backward)		`\draw[MainTrack] (-2.5,0) -- ++(5,0);`
			`\pic at (0,0) {route_signal_backward={S}};`
			`% replace the S with desired speed or remove`
				trafficcontrol

67	combined signal
	(distant and block signal)
			`\draw[MainTrack] (-2.5,0) -- ++(5,0);`
			`\pic at (0,0) {block_signal_forward={S}}; % Order 1`
			`% replace the S with desired speed or remove`
			`\pic at (0,0) {distant_signal_forward}; % Order 2`
				trafficcontrol

68	shunt signal (forward)		`\draw[MainTrack] (-2.5,0) -- ++(5,0);` `\pic at (0,0) {shunt_signal_forward};`	trafficcontrol
69	shunt signal (backward)		`\draw[MainTrack] (-2.5,0) -- ++(5,0);` `\pic at (0,0) {shunt_signal_backward};`	trafficcontrol

No.	Name	Symbol	Code	Sub library
70	shunt signal locked (forward)		`\draw[MainTrack] (-2.5,0) -- ++(5,0);` `\pic at (0,0) {shunt_signal_forward_locked};`	`trafficcontrol`
71	shunt signal locked (backward)		`\draw[MainTrack] (-2.5,0) -- ++(5,0);` `\pic at (0,0) {shunt_signal_backward_locked};`	`trafficcontrol`
72	shunt limit (forward)		`\draw[MainTrack] (-2.5,0) -- ++(5,0);` `\pic at (0,0) {shunt_limit_forward};`	`trafficcontrol`
73	shunt limit (backward)		`\draw[MainTrack] (-2.5,0) -- ++(5,0);` `\pic at (0,0) {shunt_limit_backward};`	`trafficcontrol`

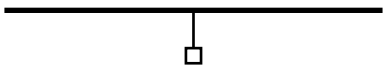
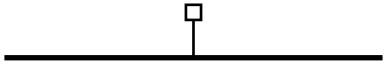
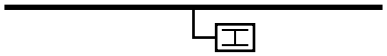
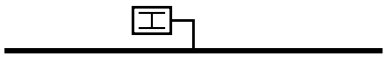
74	transmitter (below & above)		`\draw[MainTrack] (-2.5,0) -- ++(5,0);`
			`\pic at (-1,0) {transmitter_below};`
			`\pic at ( 1,0) {transmitter_above};`
				`trafficcontrol`

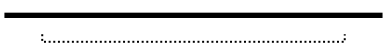
75	transmitter (below)
	with signal
			`\draw[MainTrack] (-2.5,0) -- ++(5,0);`
			`\pic at (0,0) {route_signal_forward};`
			`\pic at (0,0) {transmitter_below};`
				`trafficcontrol`

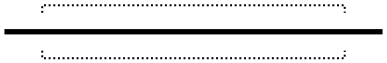
76	transmitter (below & above)
	effective forward
			`\draw[MainTrack] (-2.5,0) -- ++(5,0);`
			`\pic at (-1,0) {transmitter_below_forward};`
			`\pic at ( 1,0) {transmitter_above_forward};`
				`trafficcontrol`

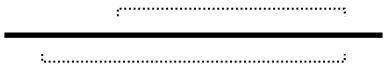
77	transmitter (below & above)
	effective backward
			`\draw[MainTrack] (-2.5,0) -- ++(5,0);`
			`\pic at (-1,0) {transmitter_below_backward};`
			`\pic at ( 1,0) {transmitter_above_backward};`
				`trafficcontrol`

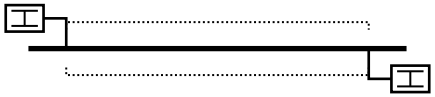
78	transmitter (below & above)
	effective bidirectional
			`\draw[MainTrack] (-2.5,0) -- ++(5,0);`
			`\pic at (-1,0) {transmitter_below_bidirectional};`
			`\pic at ( 1,0) {transmitter_above_bidirectional};`
				`trafficcontrol`

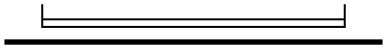
No.	Name	Symbol	Code	Sub library
79	block end marker (forward)		`\draw[MainTrack] (-2.5,0) -- ++(5,0);` `\pic at (0,0) {block_end_marker_forward};`	`trafficcontrol`
80	block end marker (backward)		`\draw[MainTrack] (-2.5,0) -- ++(5,0);` `\pic at (0,0) {block_end_marker_backward};`	`trafficcontrol`
81	block clearing point (forward)		`\draw[MainTrack] (-2.5,0) -- ++(5,0);` `\pic at (0,0) {block_clearing_point_forward};`	`trafficcontrol`
82	block clearing point (backward)		`\draw[MainTrack] (-2.5,0) -- ++(5,0);` `\pic at (0,0) {block_clearing_point_backward};`	`trafficcontrol`
83	route clearing point (forward)		`\draw[MainTrack] (-2.5,0) -- ++(5,0);` `\pic at (0,0) {route_clearing_point_forward};`	`trafficcontrol`
84	route clearing point (backward)		`\draw[MainTrack] (-2.5,0) -- ++(5,0);` `\pic at (0,0) {route_clearing_point_backward};`	`trafficcontrol`
85	clearing point		`\draw[MainTrack] (-2.5,0) -- ++(5,0);` `\pic at (0,0) {clearing_point};`	`trafficcontrol`
86	train berth sign (forward)		`\draw[MainTrack] (-2.5,0) -- ++(5,0);` `\pic at (0,0) {train_berth_sign_forward};`	`trafficcontrol`
87	train berth sign (backward)		`\draw[MainTrack] (-2.5,0) -- ++(5,0);` `\pic at (0,0) {train_berth_sign_backward};`	`trafficcontrol`

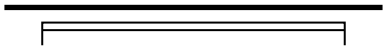
No.	Name	Symbol	Code	Sub library
88	train berth shape		`\draw[MainTrack] (-2.5,0) -- ++(5,0);` `\pic at (-2,0) {train_berth_shape_forward={4}};`	trafficcontrol

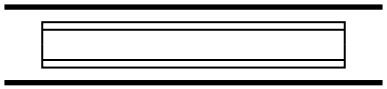
89	train berth shape bidirectional		`\draw[MainTrack] (-2.5,0) -- ++(5,0);`
			`\pic at (-2,0) {train_berth_shape=4};`
			% change the 4 to desired length
				trafficcontrol

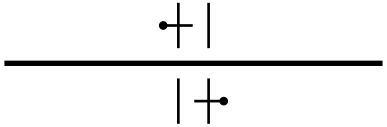
90	train berth with different shape		`\draw[MainTrack] (-2.5,0) -- ++(5,0);`
			`\pic at (-2,0) {train_berth_shape_forward={4}};`
			`\pic at (-1,0) {train_berth_shape_backward={3}};`
				trafficcontrol

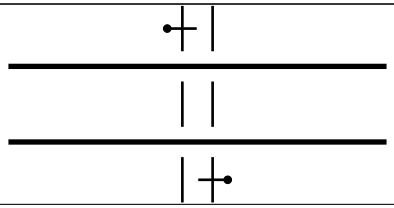
91	train berth		`\draw[MainTrack] (-2.5,0) -- ++(5,0);`
			`\pic at (-2,0) {train_berth_sign_backward};`
			`\pic at (-2,0) {train_berth_shape};`
			`\pic at ( 2,0) {train_berth_sign_forward};`
				trafficcontrol

92	platform (left)		`\draw[MainTrack] (-2.5,0) -- ++(5,0);`
			`\pic at (-2,0) {platform_left=4};`
			% change the 4 to desired length
				constructions

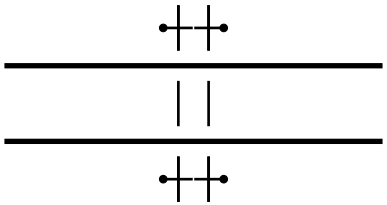
93	platform (right)		`\draw[MainTrack] (-2.5,0) -- ++(5,0);`
			`\pic at (-2,0) {platform_right=4};`
			% change the 4 to desired length
				constructions

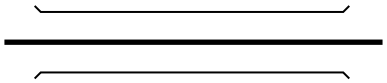
94	platform (middle)		`\draw[MainTrack] (-2.5, 0.5) -- ++(5,0);`
			`\draw[MainTrack] (-2.5,-0.5) -- ++(5,0);`
			`\pic at (-2, 0.5) {platform_right};`
			`\pic at (-2,-0.5) {platform_left};`
				constructions

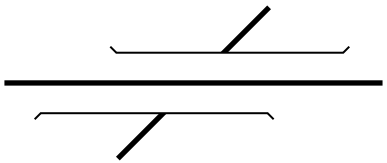
95	level crossing (single track)		`\draw[MainTrack] (-2.5,0) -- ++(5,0);`
			`\pic at (0,0) {level_crossing_barrier_left};`
			`\pic at (0,0) {level_crossing_barrier_right};`
				constructions

96	level crossing (double track)		`\draw[MainTrack] (-2.5,-0.5) -- ++(5,0);`
			`\draw[MainTrack] (-2.5, 0.5) -- ++(5,0);`
			`\pic at (0, 0.5) {level_crossing_barrier_left};`
			`\pic at (0, 0.5) {level_crossing};`
			`\pic at (0,-0.5) {level_crossing_barrier_right};`
				constructions

No.	Name	Symbol	Code	Sub library

97	level crossing (double track)
	with full closure
			`\draw[MainTrack] (-2.5,-0.5) -- ++(5,0);`
			`\draw[MainTrack] (-2.5, 0.5) -- ++(5,0);`
			`\pic at (0, 1.5) {level_crossing_barrier_right};`
			`\pic at (0, 0.5) {level_crossing_barrier_left};`
			`\pic at (0, 0.5) {level_crossing};`
			`\pic at (0,-0.5) {level_crossing_barrier_right};`
			`\pic at (0,-1.5) {level_crossing_barrier_left};`
				`constructions`

98	bridge		`\draw[MainTrack] (-2.5,0) -- ++(5,0);`
			`\pic at (-2,0) {bridge_left=4};`
			`\pic at (-2,0) {bridge_right=4};`
				`constructions`

99	bridge
	with track beneath
			`\draw[MainTrack] (-1,-1) -- ++(2,2);`
			`\fill[background] (-1,-0.4) rectangle (1,0.4);`
			`\draw[MainTrack] (-2.5,0) -- ++(5,0);`
			`\pic at (-1,0) {bridge_left=3};`
			`\pic at (-2,0) {bridge_right=3};`
				`constructions`

100	hump		`\draw[SecondaryTrack] (-2.5,0) -- ++(5,0);` `\pic at (0,0) {hump};`	`constructions`
101	interlocking		`\pic at (0,0) {interlocking};`	`constructions`