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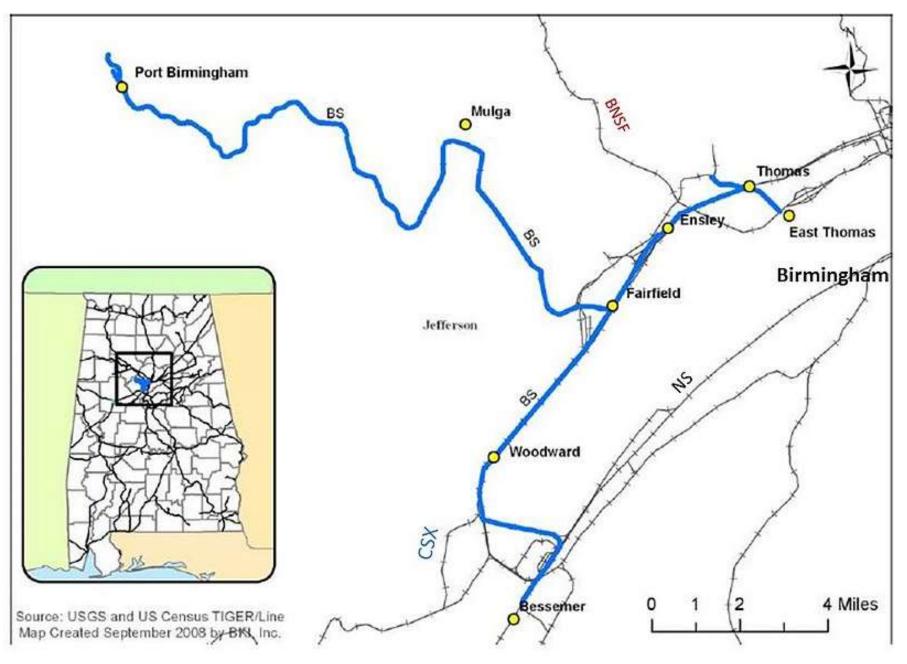
The BSMRR was designed and built to be operational. It represents the real Birmingham Southern and it's customers and operations in the years just prior to it being sold to Watco, Inc. in 2012, and becoming the Birmingham Terminal Railroad.

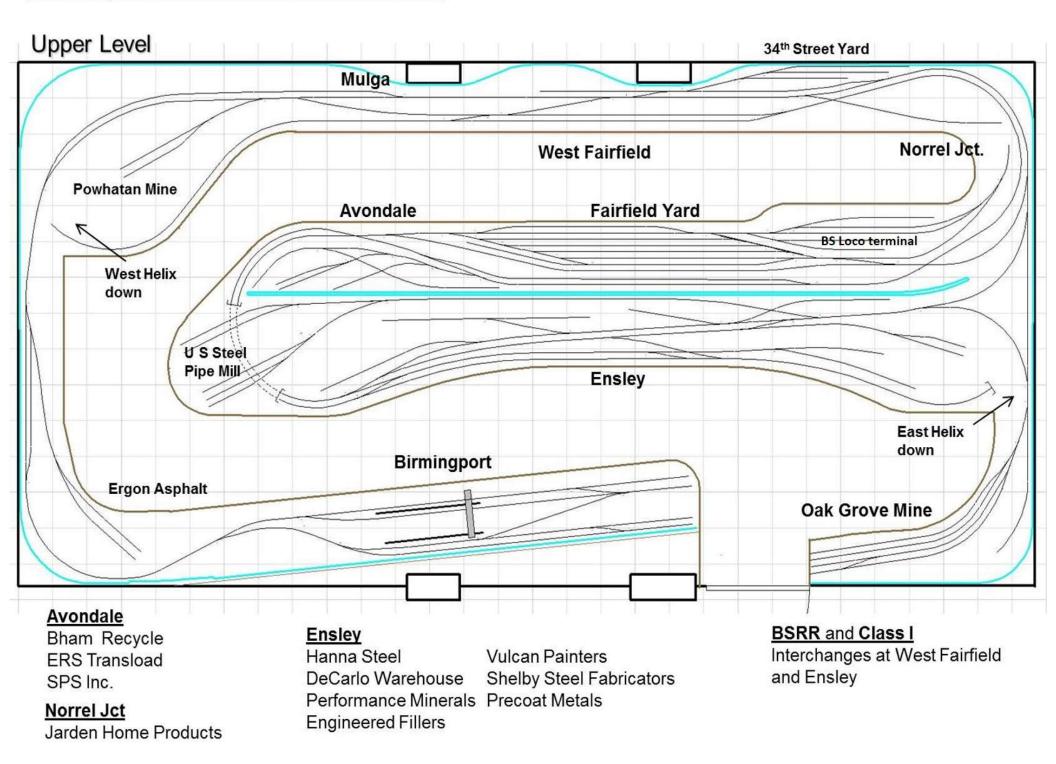
The real BSRR was an industrial short line serving the steel industries in the western areas of Birmingham and Jefferson County. It also had interchanges with Norfolk Southern, CSX and BNSF.

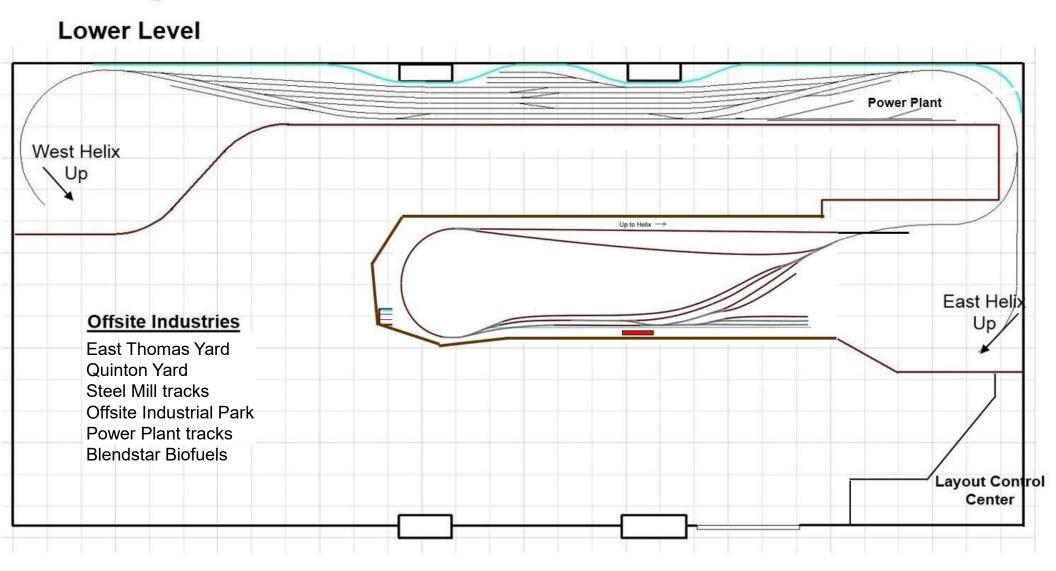
My railroad is an attempt to capture the operations of the real railroad. All of the locations on my railroad represent places in the real world. Although not all of them had rail service in the years I model, they do on my railroad. I have also included some Class I (Norfolk Southern) mainline trains to handle the interchange traffic.

Most of the upper main level of the layout has finished scenery. There are still a few details to finish, although I doubt I will ever say it's really finished. The lower level will probably never have scenery.

This is a map showing the BSRR track in the Birmingham area as it was in 2008.







- Industrial switching layout based on Birmingham Southern RR
- Includes Class 1 trains for interchange traffic
- Digitrax DCC with simplex radio; Wi-Fi is available if you have a smart phone with JMRI throttle app.
- Approximately 240' of mainline track (120' of it in two helixes)
- Approximately 410' of yards and sidings
- Over 30 different industries and yards to switch
- 23 different trains can be run
- JMRI is used to build trains

As I mentioned, I use JMRI (Java Model Railroad Interface) to operate my railroad. Many people are familiar with JMRI as a means to program their DCC decoders. It also has many more features that allow you to develop an operations scheme, create switch panels and control signals.

The following is a description of the Operations Module from their website. It does a better job of explaining the program than I can.

"The JMRI Operations program allows you to create computer generated train Manifests for your railroad. A train Manifest details the work that a crew will perform during an operations session. The Manifest provides a list of car pick up and set outs and shows where the cars are located and where they should be eventually positioned on the railroad. The program allows you to enter a roster of cars and locomotives, define locations (stations) on the railroad, and routes for trains to travel. The car roster includes information about the car, including road, number, type of car, color, length, weight, load, date built, and owner. Trains are assigned routes that define locations or stations where cars can be picked up or set out.

cont.....

Features include the ability to control what car types, roads, and car loads a location or industry can service, the available track space for a location, and the maximum length the train can be between any two locations in the train's route. Locations can have spurs, yards, staging and classification/interchange tracks. Spurs are used to service industries, and can optionally have schedules assigned to them which allows for very fine control over car movement and loads. The program generates Manifests for each train and switch lists for any location. A switch list for a location shows the work for all of the trains that will visit that location."

You will be running your trains according to a manifests created by JMRI. The one on the next page is an example of a simple manifest for one of the trains that might be run during an operating session. It tells you where the train starts, which direction it will go, where to stop and do work and where it will end. Cars to be picked up are shown in red and those to be set out are shown in blue. There is even one train that may tell you to move a car between tracks at a location. It will be printed in green.

Operators do all their own switching - there are no yard masters or switch crews.

Many, if not most, operational model railroads use staging tracks where trains are built prior to an operating session, and then run out onto the layout, do work at several locations and then return to a staging track.

I do things differently. There are no staging tracks. This is an industrial switching layout (and I like switching), so all trains are built in yards, or other locations, on the layout, are given a route and cars to switch at locations on the layout by JMRI and then return to a yard. Operators do all their own switching – there are no yard masters or switch crews.

This may increase the time it takes to run a train, but I think it helps to improve an operator's overall ability to run a train and perform the tasks necessary to complete the train's assignment. I think it's much better than just picking up a train in staging, running it out on the layout, maybe switch a few cars and then return to staging. I've seen many "opertational" layouts where a train starts in staging, runs around the layout, does no work, and returns to another staging track. That's not for me.

The next page shows a sample manifest created by JMRI that the operator will use to run his train.

	Fairfield /				
us Page	Next P	age Page 1 / 2	Close		
Fairfield / E	nsley west	moming loca	- 1 -		October 10, 2019 4:3
My JMRIR	ailroad				
		n (BS 20) Fairfield diesel from Fairf:		1000	local
	-	eld Engine Terminal			
Scheduled	work at	Fairfield Yard, an	crival time	09:35	
		Number Type	Color	Load	Track
[] Pick			Black	L	34th Street
[] Pick	and the second second		Black	L	34th Street Annex
[] Pick		Gondola	110000000000000000000000000000000000000		FFY East Mixed
[] Pick	and the second second	550054 Boxcar	Tuscan	E	34th Street
[] Pick		98042 CovHopper	White	L	34th Street
[] Pick	100 B	501388 CovHopper	Gray	L	34th Street
[] Pick	Up 1				
		Gondola		L	FFY East Mixed
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Scheduled work at Ensley Interchange, arrival time 10:45

				Road	Number Type	Color	Load	Track
[]	Pick	Up	2	Gondol a		E	Ensley Interchange
1	1	Pick	$\upsilon_{\rm P}$	1	Flatcar		L	Ensley Interchange
T	1	Set	out	1	Gondola		E	Ensley Interchange

Train departs Ensley Interchange Westbound with 11 cars, 512 feet, 524 tons

Most trains tell you to pick any locomotive from an engine terminal.

Some trains will ask you to pick one 6-axle or two 4-axle locos depending on the number of cars moved.

A few trains ask for a specific locomotive(s).

BS BP S1 - Morning Birmingport switch job BS BP S2 - Afternoon Birmingport switch job BNSF 35 - Miller Power Plant train BS USS 14 – Local Pipe Mill job MP S1 – Local Miller Power Plant switch job

My locomotive are shown on the following pages.

- I7 Birmingham Southern locomotives
 - -BS 261 MP15DC (MU'd with BS 261) \square BS 222 - MP15DC (sound) -BS 354 - SW1500 (MU'd with BS 260 - used at Power Plant) -BS 260 - MP15DC BS 370 - MP15DC (sound) BS 411 - MP15DC (used at US Steel Pipe Mill) BS 630 - SD9 BS 700 - GP38-2 (sound) BS 701 - GP38-2 (sound) (two locos with same number) BS 702 - GP38-2 (MU'd with BS 703) - BS 703 - GP38-2 BS 704 - GP38-2 -BS 711 - GP35E (MU'd with BS 711) BS 743 - GP35E NSW 4840 – 48 Class Australian loco (used at Birmingport) NS 2324 - (used at Birmingport – will be renumbered to BS)

Locomotive addresses are the road number. MU'd locos 222 and 261 use 261; 702 and 703 use 702; 711 and 743 use 711.

13 NS and other RR locomotives

	NS 1702 -	SD45-2
Most	NS 3468 -	SD40-2
used	NS 3571 -	SD40-2 (sound)
	NS 6814 -	SD60M (sound)
	NS 3544 -	SD40-2
	NS 6804 -	SD60M
	NS 6805 -	SD60M (sound)
	NS 7213 -	SD80MAC
	NS 4610 -	GP59 (Southern colors)

BNSF 2377 - GP38-2 (used only for power plant train)
BNSF 2703 - GP38-2 (MU'd with BNSF 2377 & 338)
BNSF 338 - GP60B (MU's with BNSF 2337 & 2703)
IC 8217 - GP10 (used only at Oak Grove mine)
TSRX 3301 - GP35 (used at Offsite Industrial Park)

Locomotive addresses are the road number. MU'd locos 2377, 2703 and 338 use 2377.

Freight cars used on the BSRR

These cars are identified by road name and number: Boxcar Tank Covered hopper Flat

These cars are considered "utility" and are identified only by type: Gondola Hpr BS, SOU (open hopper with BS or SOU markings) Hpr NS, JH, BN (open hopper with NS, JHMX or BNSF markings)

The Manifest will indicate how many of each type of utility car in the Road column.

May 7, 2016 5:29 PM

Birmingham Southern Model Railroad

Manifest for train (CW 130) Class 1 westbound afternoon interchange train Choose any Norfolk Southern diesel from Class 1 Engine Terminal.

Scheduled work at Offsite Industries, departure time 12:25

After leaving Offsite tracks, back up to Blendstar if pickups are required, then

			Road	Number	Туре	Color	Load	Track	
	1	Pick Ur	RUSX	483312	CovHopper	Gray	E	Trkl	
	1	Pick Dp	NS	550064	Boxcar	Brown	E	Trkl	
	1	Pick Up	RELS	350128	Boxcar	Green	L	Trk2	
	1	Pick Up	HOKX	111601	Tank	Gray	E	Trk2	Identified by Road, Number
	1	Pick Up	RUSX	483312	CovHopper	Gray	E	Trk2	and Type
	1	Pick Up	1		Gondola		L	Trk2	
	1	Pick Up	RBOX	33524	Boxcar	Yellow	E	Trkl	
	1	Pick Up	020	501398	CovHopper	Gray	L	Trk2	
	1	Pick Up	TOGX	13072	Tank	Orange	E	Trkl	
	1	Pick Up	PROX	75373	Tank	Green	L	Trk2	
[1	Pick Up	PROX	23049	Tank	White	L	Trk2	
[1	Pick Up	GATX	91713	Tank	Black	L	Trk2	

No work at Blendstar

No work at East Helix

Scheduled work at Ensley, arrival time 12:40

Class I trains not allowed to set out any cars on BS track during interchange switching.

					Road	Number	Type	Color	Load	Track
1	1	P	ick	$\upsilon_{\rm P}$	FPSS	35160	Boxcar	Brown	L	Ensley Interchange
I	1	P	ick	Up	RBOX	10572	Boxcar	Yellow	E	Ensley Interchange
[1	P	ick	Up	NSW	297301	Boxcar	Black	L	Ensley Interchange
1	1	P	ick	Up	1		Flatcar		Steel plate	Ensley Interchange
1		1	Set	out	RUSX	483312	CovHopper	Gray	E	Ensley Interchange
1		1	Set	out	NS	550064	Boxcar	Brown	E	Ensley Interchange
1		1	Set	out	RELS	350128	Boxcar	Green	L	Ensley Interchange
1	[1	Set	out	HOKX	111601	Tank	Gray	E	Ensley Interchange
	[1	Set	out	RUSX	483312	CovHopper	Gray	E	Ensley Interchange
		1	Set	out	1		Gondola		L	Ensley Interchange

Train departs Ensley Westbound with 10 cars, 540 feet, 703 tons

East Thomas moming turn		- 1 -	May 7, 2016 10:45	5 <i>PM</i>
Birmingham Southern Moo	del Railroad			
Manifest for train (BS	ET 02) East Thomas	s morning turn		
Pick up one 6-axle -	or -			
two 4-axle locomotives	if picking up more	than 12 cars	at East Thomas	
No work at Fairfield En Scheduled work ar Fairs	ield Yard, arrival	time 09:00		- Identified only by Type
Koad Numi		olor Load	Track	Identified only by Type
[] Pick Up 6	Gondol a	E	FFY Track 1 or 2	and number to pick.
[] Pick Up 3	Hpr BS, SOU	BP Coal	FFY Track 3	
[] Pick Up 13	Hpr B3,30U	BP Coal	FFY Track 4, 5 or 6	
Train departs Fairfield	l Yard Westbourd w	ith 22 cars, 1,1	159 feet, 1,540 tons	
Scheduled work at West	Fairfield, arrival	time 09:49		
Road Num	сег Туре Со	olor Load	Track	
[] Pick Up 1	Flatcar	E	West Fairfield Interchange	_
Train departs West Fai:	field Westbound w	ith 23 cars, 1,2	215 feet, 1,571 tons	
No work at West Helix				

Scheduled work at Steel Mill, arrival time 10:01

Road	Number Type	Color Load	Track	
[] Set out 6	Gondola	E	Steel Mill	
in a second second	1 IF (1 1 Th 1 1 1	-1 10 004 6	1 005 4	

Train departs Steel Mill Westbound with 17 cars, 874 feet, 1,385 tons

Scheduled work at East Thomas, arrival time 10:18

	Road	Number Type	Color	Load	Track
[] Pick Up	1	Gondol a		E	East Thomas 2
[] Pick Up	12	Hor BS, SOU		E	East Thomas 2

Tracks are either numbered or named, and some locations have multiple tracks.

If a manifest names a particular track, use that track.

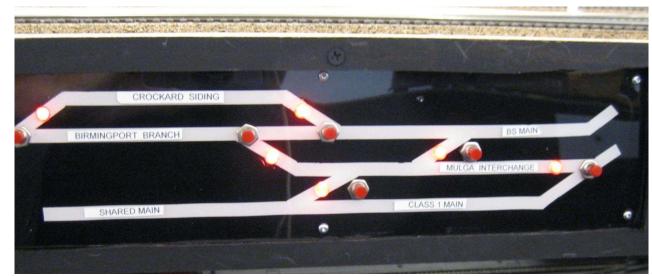
If a manifest says to set out or pick up at tracks "2 - 6" in Fairfield Yard, you can choose which tracks to use for the appropriate cars.

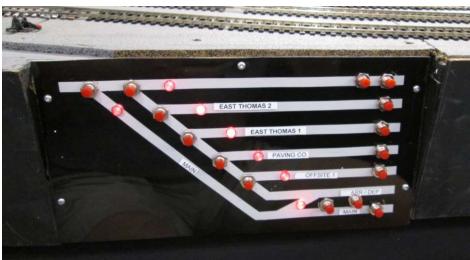
Tracks in Fairfield Yard have names, and are in two locations. The main yard has tracks labeled East, East 1, East 2-6, and West 1, 2 or 3. The 34th Street location has tracks named 34th Street 1, 2, 3 or 4, or 34th Street Annex. The manifests will tell you which tracks to use.

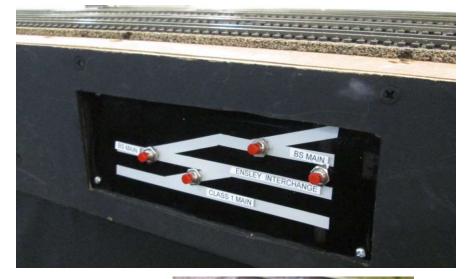
Most industry tracks have names.

General operating rules:

- There is no dispatcher.
- You build, switch and break up your own trains.
 No staged trains.
- Operators work out train meets with each other.
- Slow down and watch for other trains
- BS trains have priority over Class 1 (hey, it's my railroad)
- Try to keep main lines clear
- Throw your own switches. Most mainline ones are powered. Return all switches you throw to original position.















- Both helixes have occupancy detectors. If you see a red light, do not enter helix. If light goes out and you do not see a train, you are following one so proceed with caution. If you see a train wait for it to get past you. The BS and the Class 1 share the helix tracks and there is a chance two trains may want the same helix.
- The Class 1 trains have trackage rights on the BS mainline to switch interchanges
- Handle cars and locos as little as possible. Use wooden skewers to uncouple cars.
- Please dispatch loco from throttle after running your train.
- Please don't lay clipboards, throttles, anything on layout.
- Please no drinks or snacks in train room, except by door.