

This layout was designed with an overabundance of destinations for a wide variety of cars. In several cases trucks could have been used by the business, but because we are running a railroad, we will assume that our superb sales force convinced them to use rail services instead. While most any type of car could conceivably be sent to most any destination (such as for example a flat car containing a large replacement manufacturing machine for a machine shop), below are the typical cars that will be regularly spotted at each business.

### **Readymix Plant**

*Pre-mixes concrete for constructions sites, and loads it on special trucks for delivery.*

*Also re-sells bags and bulk containers of raw materials that can be mixed on site.*

*The model aggregate (simulated with plastic pellets) can be physically dumped into an unloadable tray.*

IN =

**Cement hopper** of powdered cement

**Side dump gondola** of aggregate

**Boxcar** with bags of sand/lime/cement

**Gondola** holding empty cement canisters

OUT =

**Gondola** with the formerly empty cement canisters (see above) having now been filled

### **Injection Tool&Die**

*Moulds plastic parts for other businesses.*

IN =

**Airslide hopper** of plastic pellets

OUT =

**Boxcar** of molded products

### **Industrial Chemical Product Manufacturer**

*Mixes all sorts of chemicals together using proprietary formulas.*

*Mixtures are sold in bulk to farms, or to businesses using them as additives or for as-is retail packaging.*

*\* As storage area lies unseen off the front of the layout, it can be any size required to justify deliveries.*

*The model 50 gallon drums of chemicals can be physically loaded using a Lionel Oil Drum Loader.*

IN =

**Tank car** carrying virtually any single type of liquid or gas chemical you can imagine being used

**Boxcar** filled with assorted containers of any type of ancillary liquid or granular chemicals

**Boxcar** of empty 50 gallon drums

OUT =

**Tank car** for individual bulk filling with one of the multiple kinds mixed liquid chemicals

**Boxcar** (or **Gondola**) to load with assortments of 50 gallon drums of liquid or granular chemicals

### **Builders Supply Store**

*A lumber yard that now supplies most items a carpenter or mason needs for their construction project. Store also stocks pre-manufactured building parts, such as doors, windows, and trusses. Paved area on both sides of the track allows for balanced forklift unloading of cars from both sides.*

IN =

**Flatcar** of cinderblock/bricks/flagstone  
**Bulkhead flatcar** of sheetrock  
**Flatcar** or **Centerbeam flatcar** or **Boxcar** of lumber  
**Double-door boxcar** of prefab doors and windows  
**All-door boxcar** of prefab trusses  
**Boxcar** of assorted building supplies

### **Fuel Wholesaler**

*Business buys diesel and other petroleum fuels, which are temporarily stored in holding tanks. Metered pipes run directly to the locomotive diesel fueling stand.  
\* The loading stand for retail gas station delivery tanker trucks lies unseen off the front of the layout.  
\* There is also a holding tank for LPG lying unseen off the front of the layout.*

IN =

**Tank car** of petroleum fuel  
**Tank car** of LPG

### **Engine Fuel / Sand**

*This stand is where diesel locomotives refuel and occasionally add sand. Without a sanding tower, sand is delivered in bags, stored dry, and then hand poured into engines. Fuel comes through pipes from the nearby Fuel Wholesaler.*

OUT =

Refueled **Diesel Locomotives**

### **Pet and Livestock Dry Food Maker**

*Factory receives food item deliveries, then mixes the ingredients to create dry animal food for retail. The storage silos and factory are inferred by using building flat models against the layouts back wall. Cars are left on the interchange track, for later spotting by the factory owned industrial switcher.*

IN =

**Covered hopper** of grain  
**Reefer** of palletized frozen meat chunks  
**Reefer** of vegetables  
**Vat car** of pineapple slurry  
**Boxcar** of empty printed retail bags

OUT =

**Boxcar** of filled retail bags

### Newspaper

*Traditional newspaper like you would commonly find being printed in the early 1980s.*

IN =

**High-cube boxcar** (in captured service coming from the papermill) of paper rolls  
**Boxcar** of full ink drums

OUT =

**High-cube boxcar** (in captured service returning to the papermill) of recycled newspapers  
**Boxcar** of empty ink drums for recycling

### Interchange

*Spur is used to hold cars transferring to and from the home railroad and another railroad.*

*Cars do not have to originate or terminate on the physical layout itself.*

IN =

*Any car you can imagine, including military*

OUT =

*Any car you can imagine, including military*

### Piggypacked TOFC and Team

*Spur is used for promptly transloading transported goods, as well as lifting entire sealed truck trailers.*

*\* Trailers awaiting loading or which were recently unloaded are parked unseen off the front of the layout.*

*A Trailer-on-Flat-Car "Piggypacker" is stationed at the spur (containers can NOT be transloaded here).*

*The model trailers can be physically loaded and unloaded using a human hand.*

*The end of the spur has a simulated scale track, to weigh rollingstock filled on the spur for billing purposes.*

*This scale track is in actuality an "operating car" activation track, beside which is also a side-loading ramp.*

IN =

**TOFC flatcar**

**Express reefer** of perishable goods (such as cut flowers, fresh fish, etceteras)

**Reefer or Boxcar or Flatcar**

*Any oddball car being transloaded (milk car, asphalt tanker, etceteras)*

OUT =

**TOFC flatcar**

**Reefer or Boxcar or Flatcar**

*Any oddball car being transloaded (thoroughbred horse car, etceteras)*

### Twocar Freighthouse

*LCL freight which ONLY moves to and from other freighthouses on the home (or partnering) railroad. A frighthouse differs from a team track in that transloaded goods are temporarily warehoused.*

IN =

**Baggage car** (owned by home road or Amtrak) of high-priority LCL merchandise  
**Boxcar** (owned by home road, RailBox, or a partnering road) of LCL merchandise

OUT =

**Baggage car** (owned by home road or Amtrak) of high-priority LCL merchandise  
**Boxcar** (owned by home road, RailBox, or a partnering road) of LCL merchandise

### FedEx Ground

*Express packages which ONLY move to and from other Federal Express warehouses nationally. Unlike a freighthouse where the customer must come, FedEx trucks deliver packages to the customer.*

IN =

**Express reefer** or **Baggage car** (owned by FedEx or REX/REA) of package shipments

OUT =

**Express reefer** or **Baggage car** (owned by FedEx or REX/REA) of package shipments

### Tickets and Waiting

*Monumental depression era station for commuter, intercity, and long distance passenger trains. Building has a Pullman area that provides commissary and cleaning support, as well as a crew lounge. Waiting room provides ticketing, seating, refreshing restrooms, and a news stand with snacks. Building was designed without a Harvey style restaurant (as the railroad provided dining car service). Large baggage room has now been repurposed, so luggage is currently stored in another smaller area.*

IN =

**Coach** or **Chair car** or **Sleeping car** of passengers  
**Baggage car** of luggage to be temporarily held in the baggage room

OUT =

**Coach** or **Chair car** or **Sleeping car** of passengers  
Restocked dedicated **Dining car**, or the **Cafe** area within a car

## Special notes about passenger cars...

Railroads were never required to join Amtrak, and some continue to operate their own local trains. Passenger trains are usually (fast) scheduled, with their normal car consists and amenities advertised. Passenger trains can run as unscheduled "specials", most commonly to provide transport to sporting events.

Express freight cars (such as Express reefers and Baggage cars) are suitable passenger train equipment. Most freight cars could be added to a passenger train, it just isn't done because they impose a lower speed.

US railroads don't use "service class", but if they did: Coach = 3rd, Chair car = 2nd, and Sleeping car = 1st. Coaches are basic unassigned seating. These are the cars typically found in commuter trains. Chair cars are assigned seating in sleepable lounge chairs. These cars are typically found in intercity trains. Sleeping cars are assigned seating in private compartments. Seating can be converted into a bed.

Railroads often provide other amenities in their passenger trains, including:

- Cafe areas serving bistro-type meals, and dedicated dining cars serving restaurant-type meals.
- Lounges for socializing, which might be a car section, a domed area above a car, or a dedicated car.
- Smoking areas, which might be an enclosed car section, an outdoor deck, or a dedicated car.
- Storage areas, or even a dedicated baggage car, for personal items (bicycles, skis, etceteras).
- Hotel-like onboard service staff.