

Prototypical Operations

Sacramento Model Railroad Historical Society

HO Standard Gauge Layout

February 4th, 2012

Proto Ops – Quick Guide

- HO Layout
- Locations along the Mainline
- Freight- Car Cards & Waybills
- Trains- Blue Cards & Engineers



HO Layout

Single Deck & Double Deck

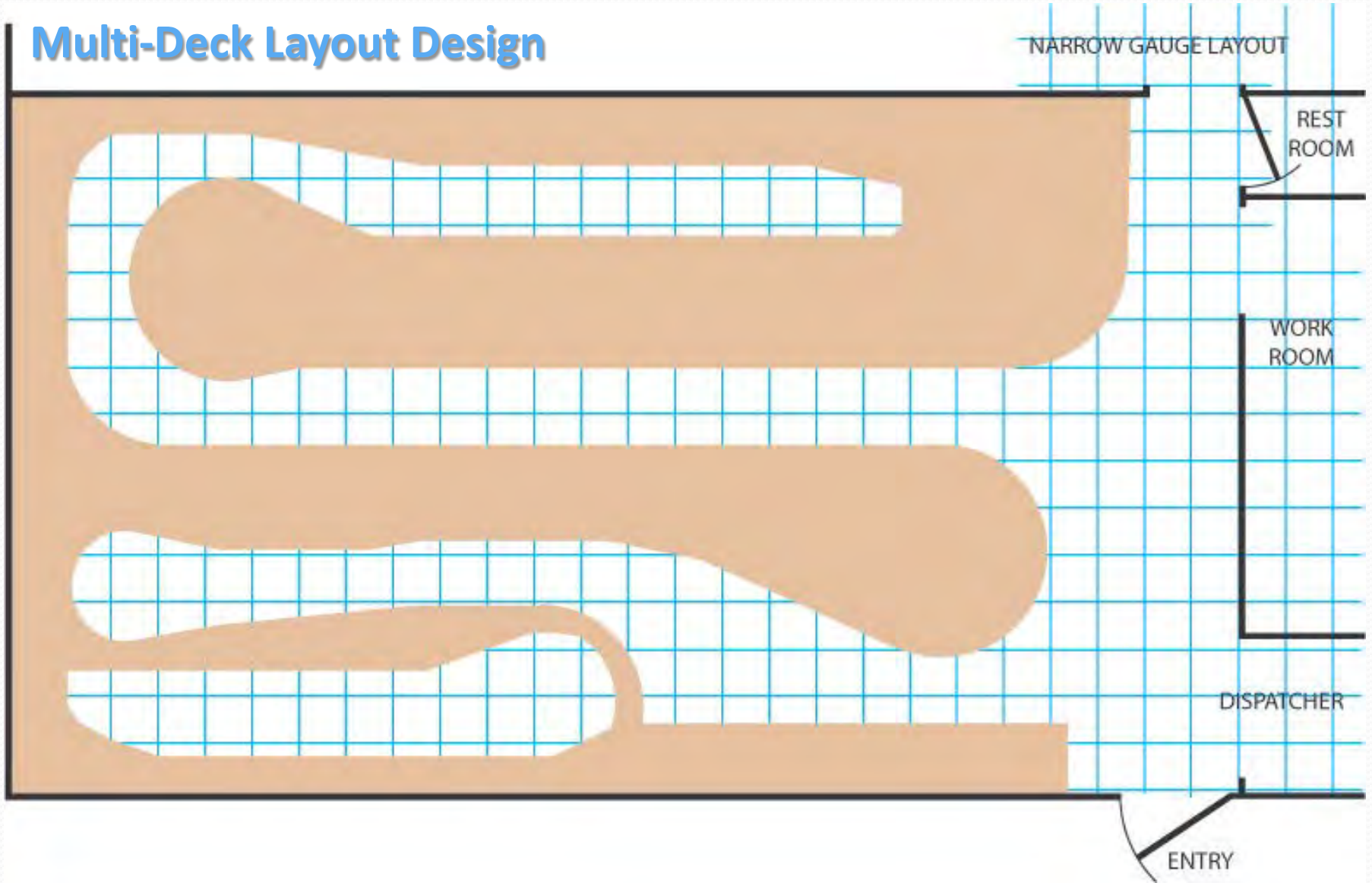
Upper Deck – Western Pacific

Lower Deck- Southern Pacific

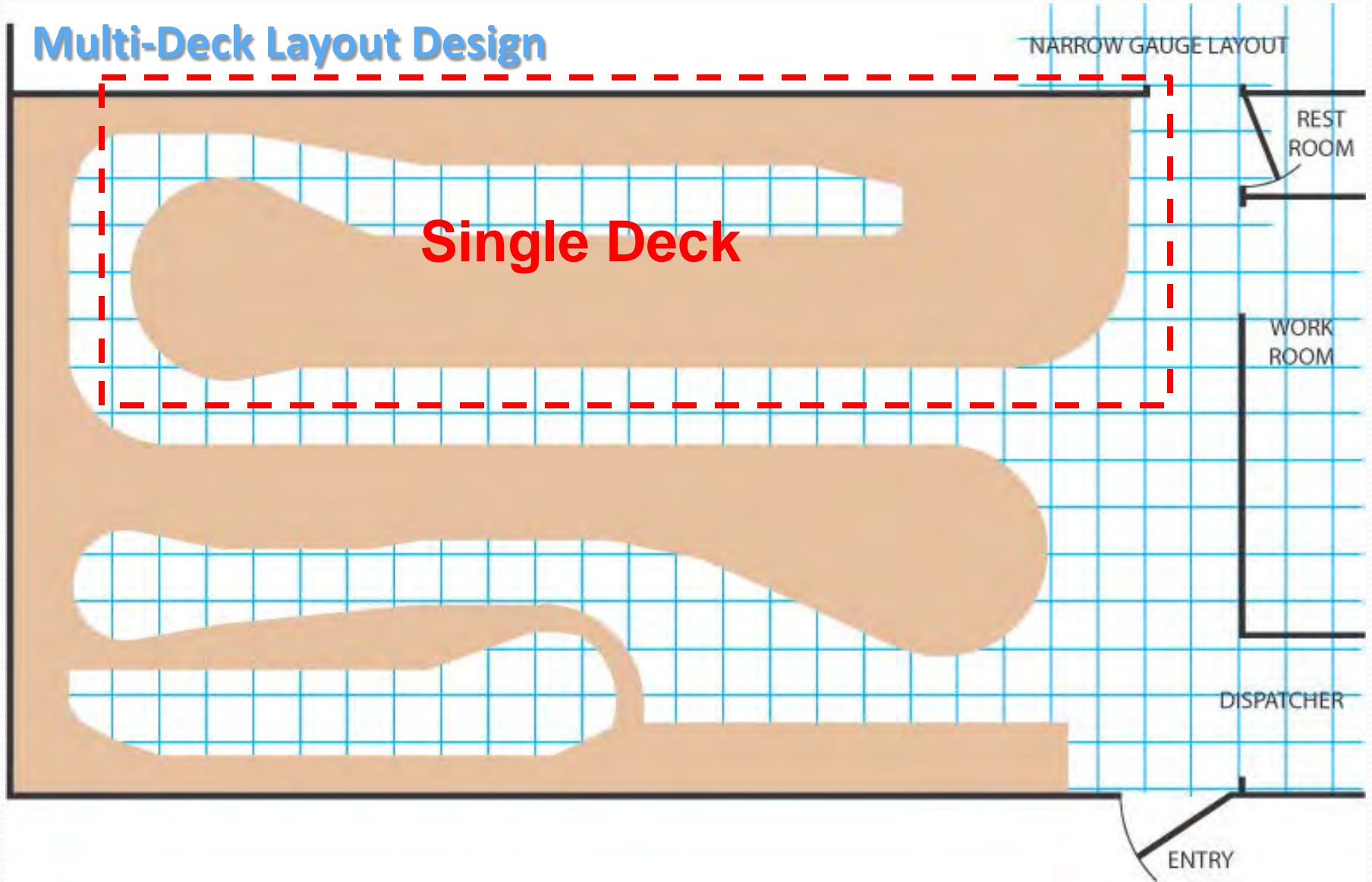
DCC Control



Multi-Deck Layout Design



Multi-Deck Layout Design



Multi-Deck Layout Design

NARROW GAUGE LAYOUT

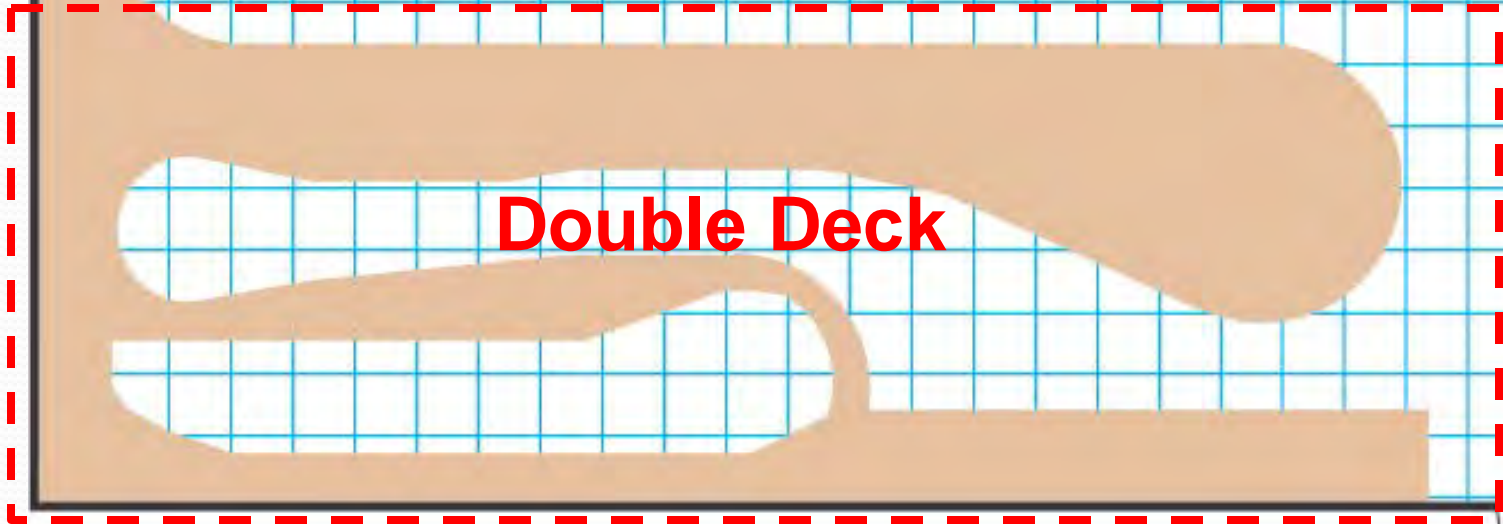
REST ROOM

WORK ROOM

Double Deck

DISPATCHER

ENTRY



Where the action is...



Sacramento to Oakland



Sacramento to Oakland

Sacramento Passenger

12th Street Yard

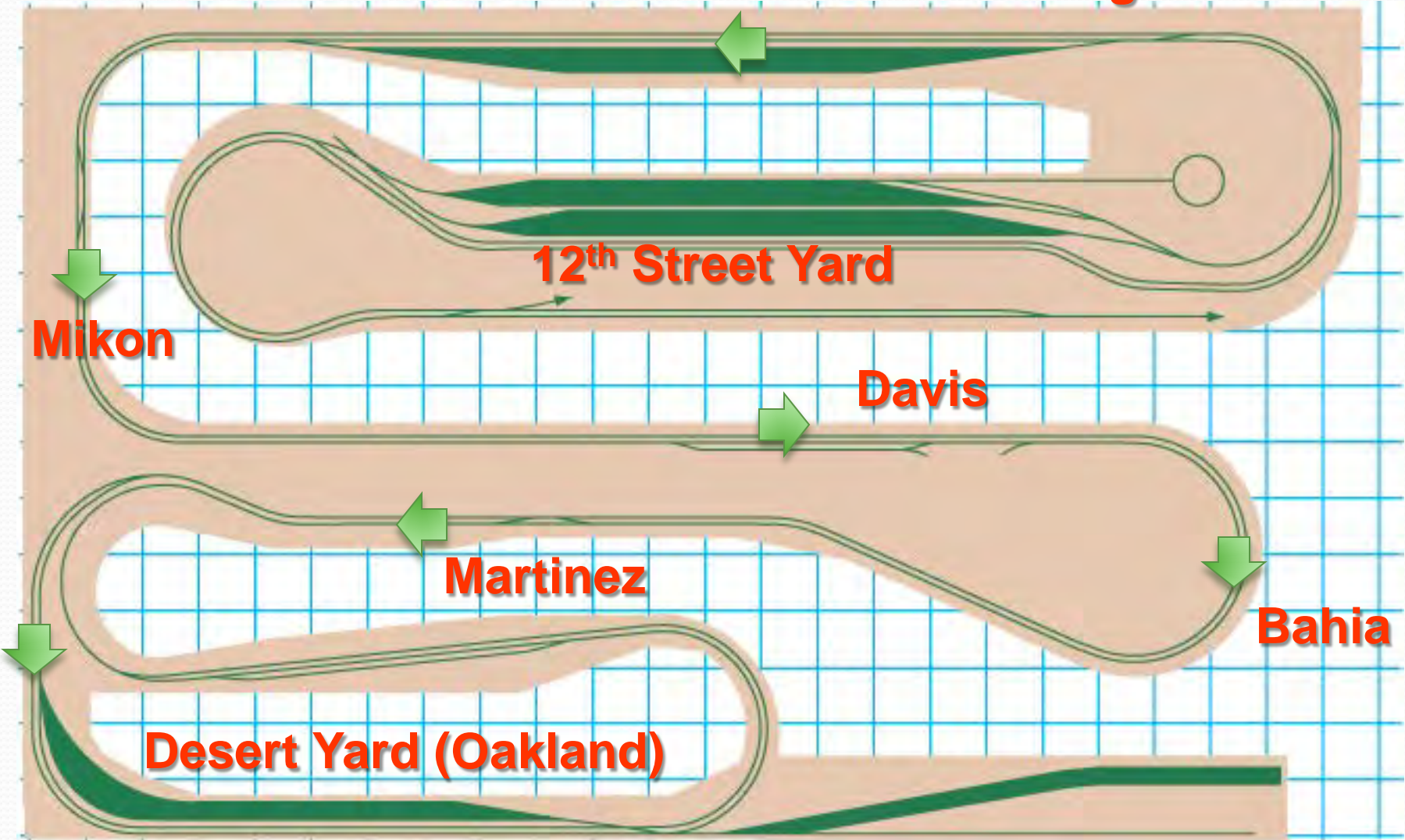
Mikon

Davis

Martinez

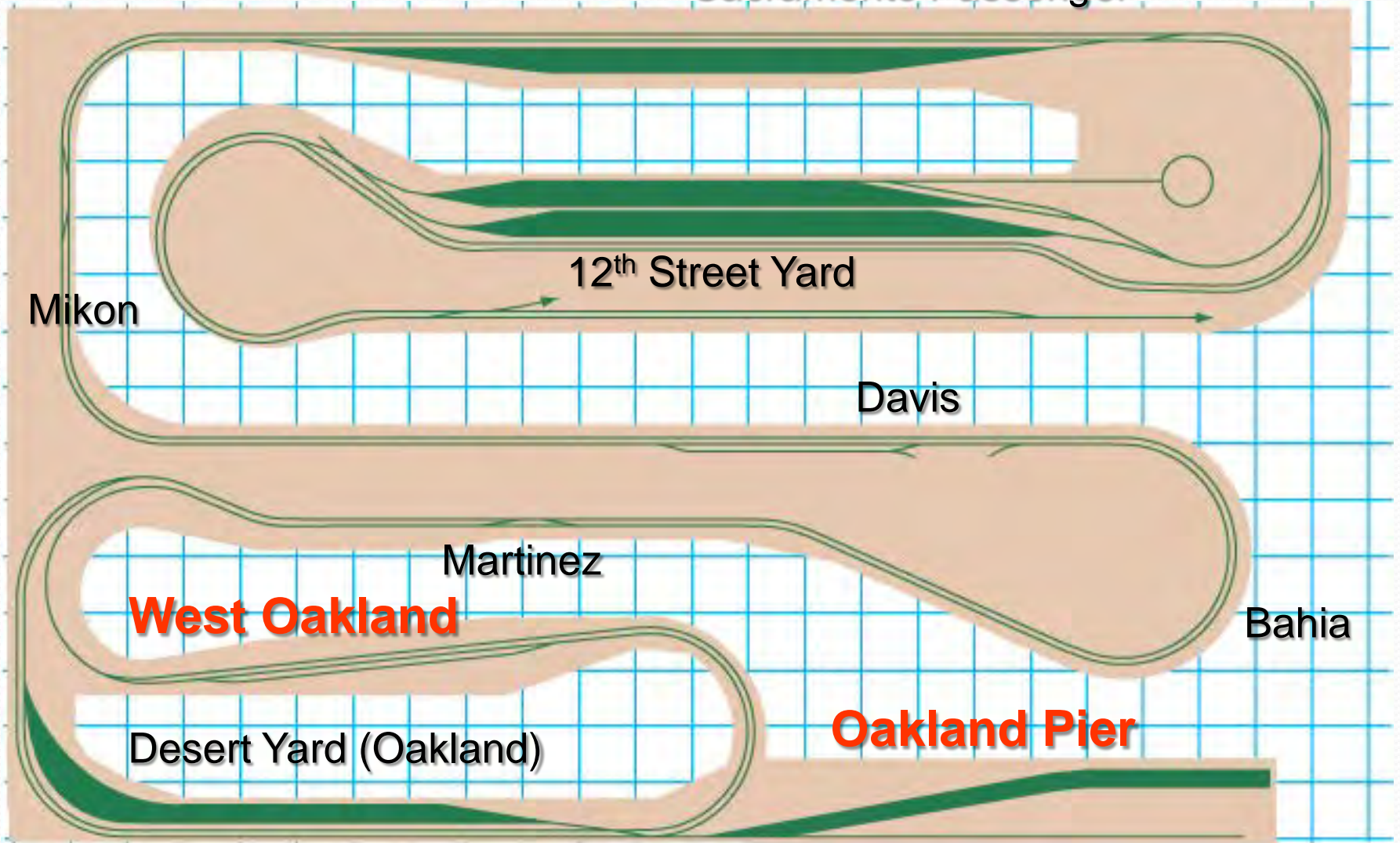
Bahia

Desert Yard (Oakland)

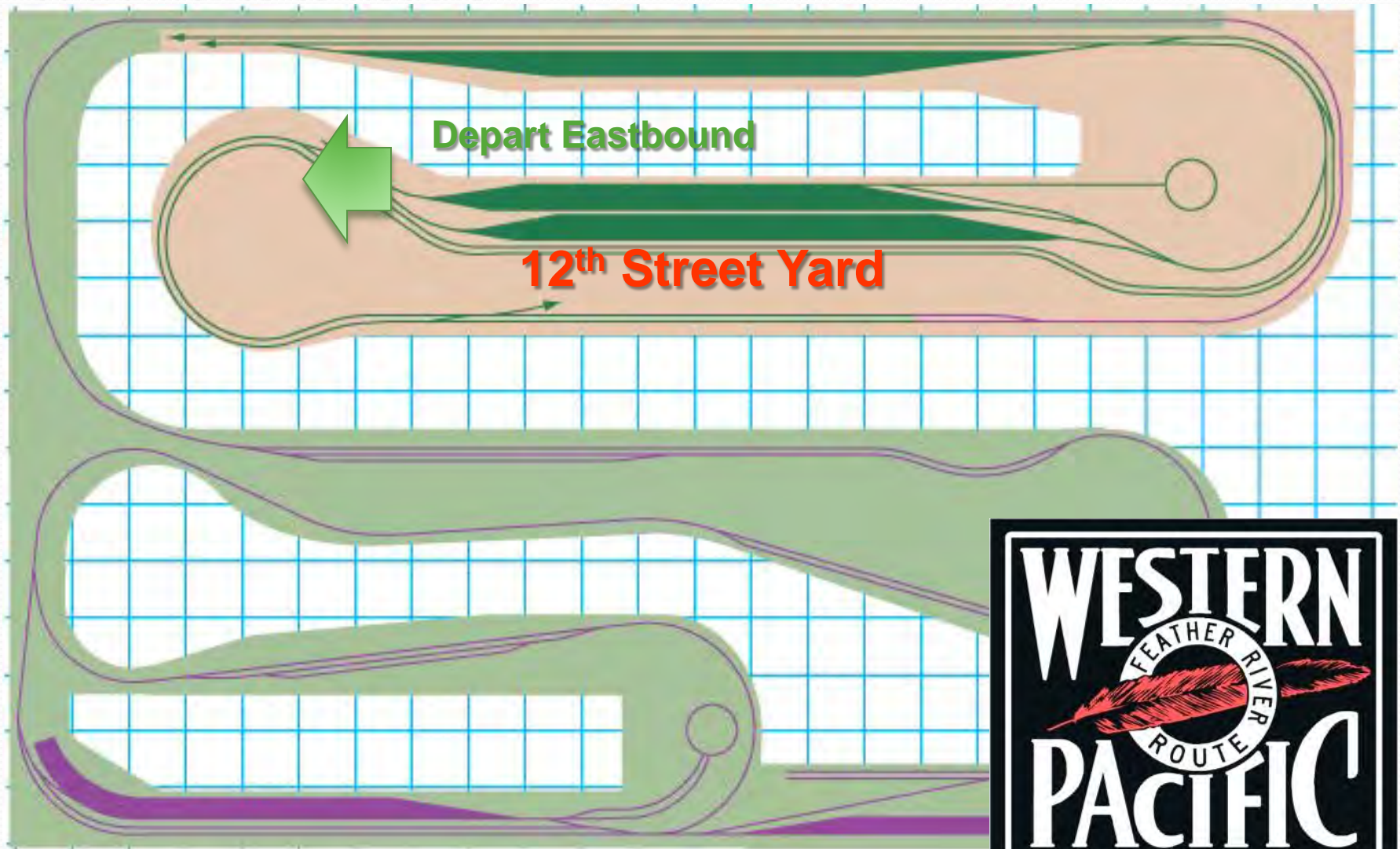


Sacramento to Oakland

Sacramento Passenger



Sacramento to Keddie

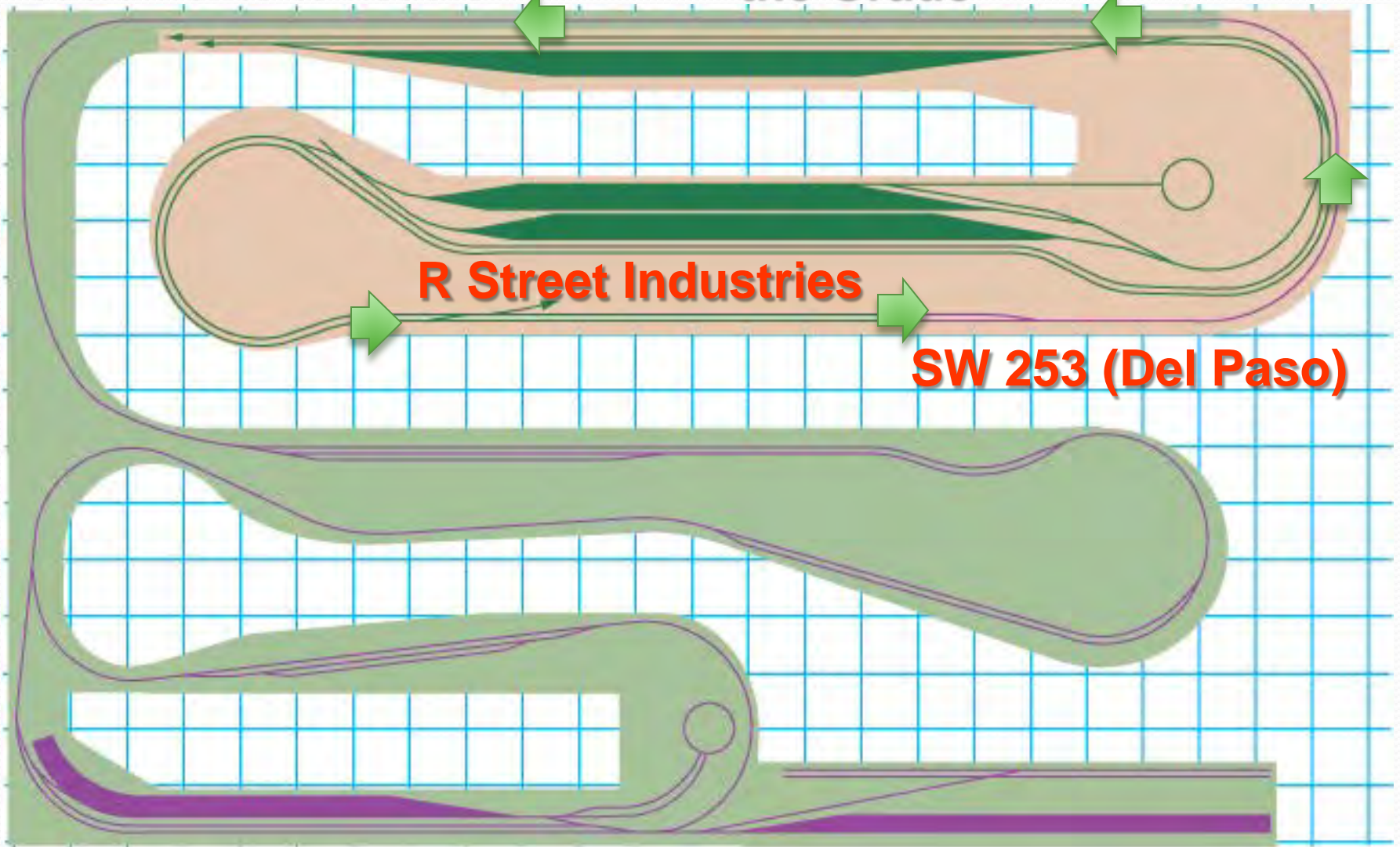


Sacramento to Keddie

“the Grade”

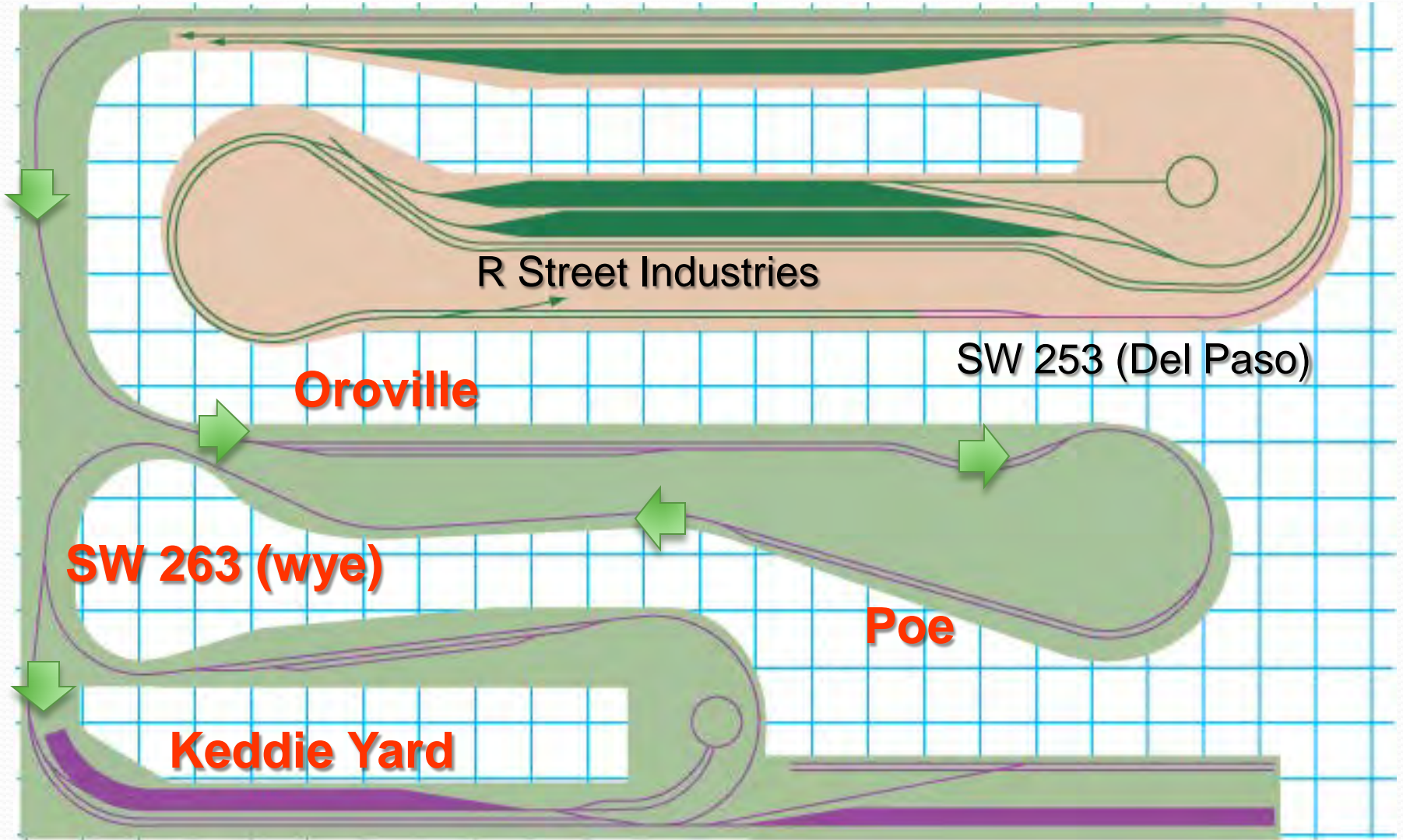
R Street Industries

SW 253 (Del Paso)



Sacramento to Keddie

"the Grade"



Sacramento to Keddie

“the Grade”

Marysville

R Street Industries

Oroville

SW 253 (Del Paso)

SW 263 (wye)

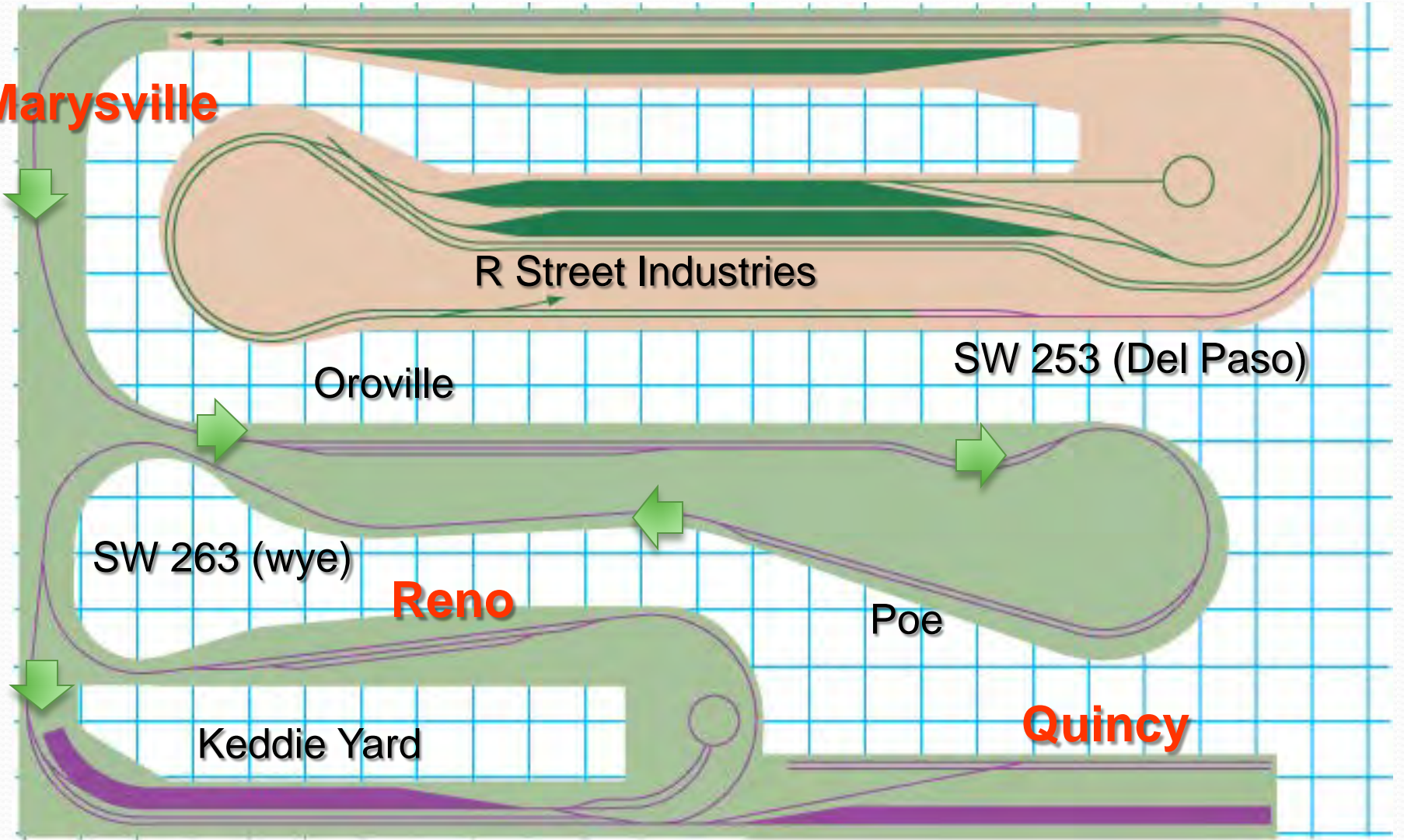
Reno

Poe

Keddie Yard

Quincy

GN / SLC Staging



The "Paperwork"

Car Cards

Waybills

Train Cards



Car Card

Reporting marks

Description

ARA Code

Owner info

Pocket

GN
18009
Red- Billboard "Great Northern" 40' Steel Box
XM
EMPTY
SHIP TO: via Sacramento 12th Street Yard
Owner: R. Schott SCHOTT
Leasee: PRVT Steam

Waybills

FM	3
WAYBILL	
via Sac Northern	
Pittsburg, CA	
Columbia Steel	
SN	
Steel Products (crated)	

ARA Code

Waybill position

Waybill or Order

Destination
(Color coded)

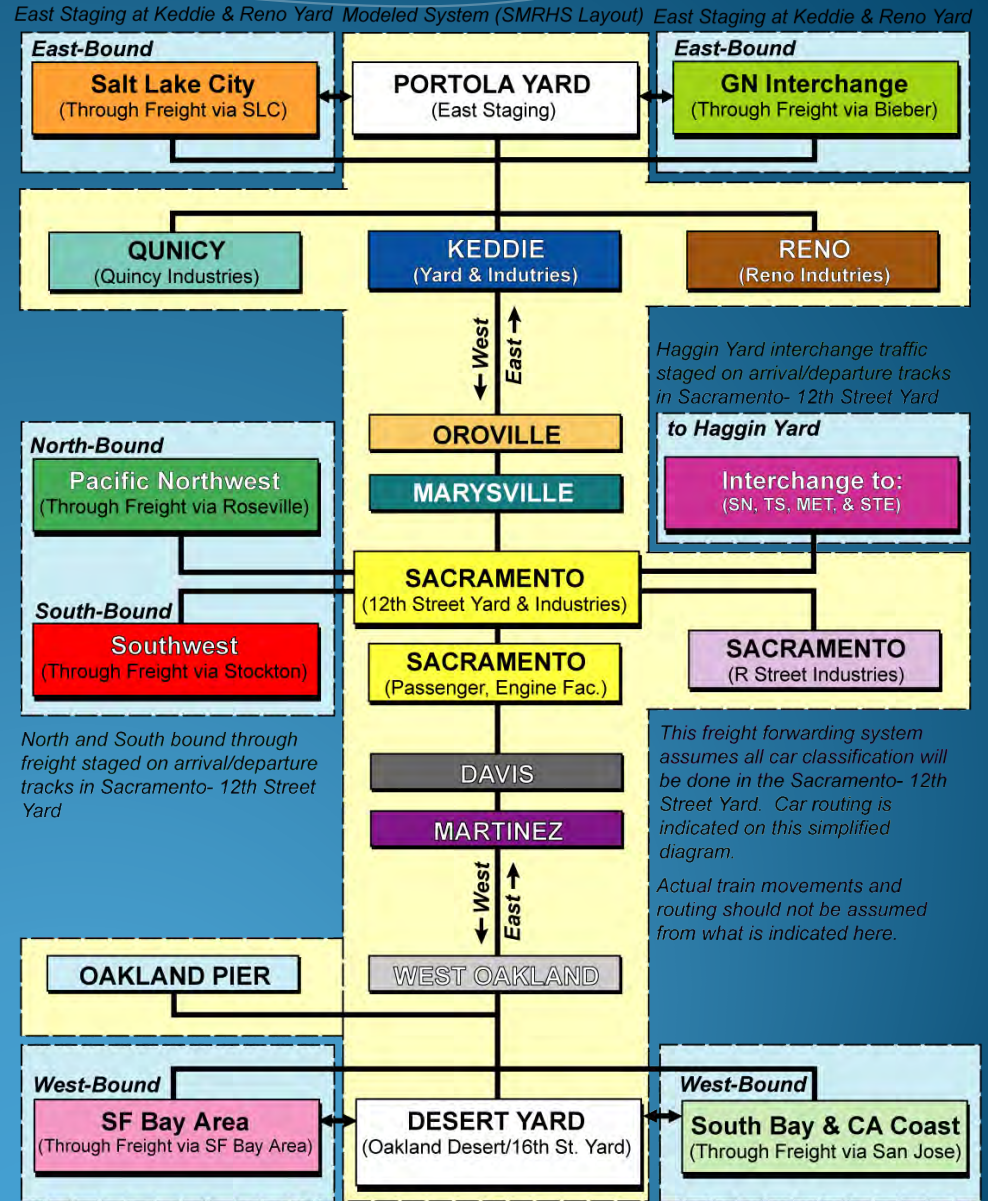
Commodity

System Schematic - Freight

OPERATIONS: WAYBILLS

Color Coding

All destinations for freight cars have a unique color.



San Francisco Bay Area and Calif Coast freight moving along the Coast Div. is considered West Staging and occurs at Desert/16th Street Yard, Oakland.

Waybills for Online Industries

FM	1
EMPTY CAR ORDER	
via Sacramento	
Quincy, CA	
Sierra Pacific Industries	
WP-QRR	
Lumber Loading	

FM	2
WAYBILL	
to Sacramento	
12th Street Yard	
for classification	
Loaded	

Yellow bar indicates delivery to online industry

Double yellow means car is ready to be pulled from industry

Sort these cars:

GN
18009
Red- Billboard "Great Northern"
40' Steel Box

XM	1
WAYBILL	
via GN Interchange	
Aberdeen, SD	
Graybar Electric	
GN	
Electrical Components	

Ow
Lea

NP
53488
Black- 42' Flat

FM	1
EMPTY CAR ORDER	
via Sacramento	
Quincy, CA	
Sierra Pacific Industries	
WP-QRR	
Lumber Loading	

(
L

WP
53600
Black- 53' Flat

FM	2
WAYBILL	
to Sacramento	
12th Street Yard	
for classification	
Loaded	

(
L T

Card Boxes

Freight cars at industries will have a Car Card near by.

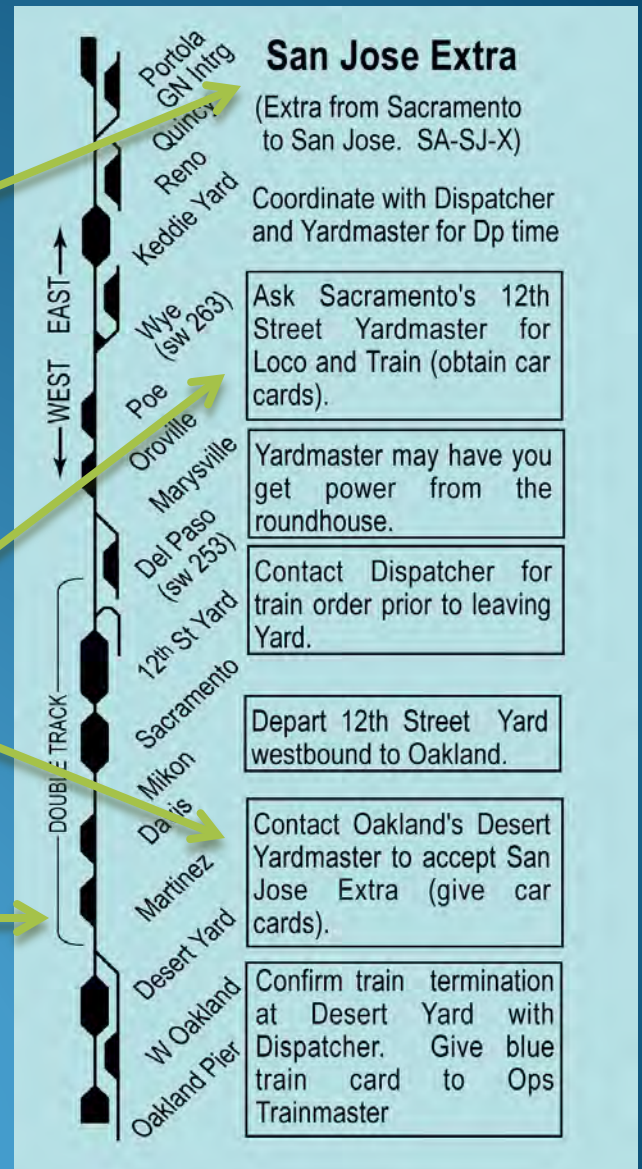


Train Card

Train
(name/number)

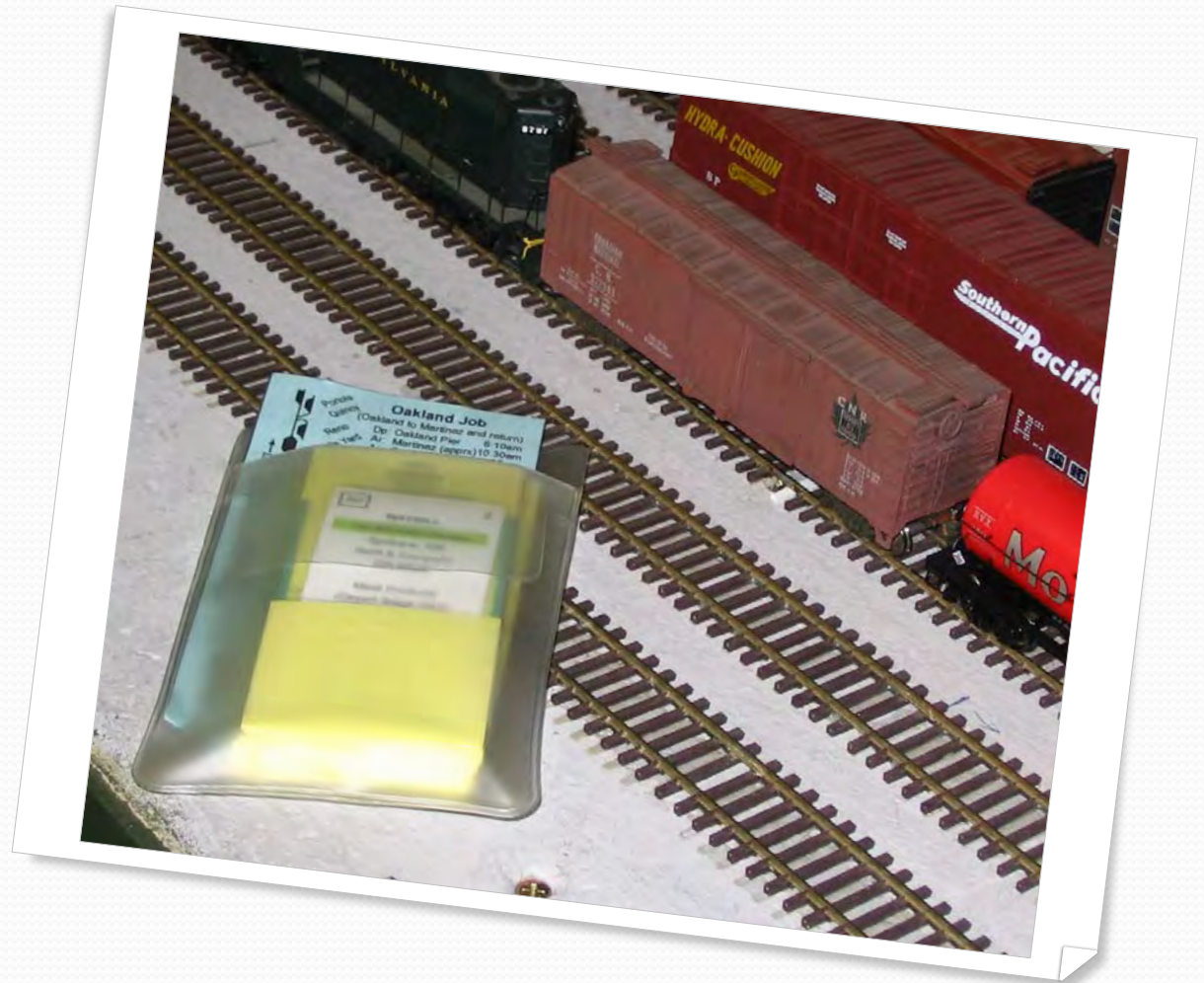
Crew Instructions

System Schematic



Important

The Car Cards
move with the
freight cars.
Don't leave
without your
cards!



Loco Card

This card has lead unit information.

DCC codes for lighting and sound

Lead Loco:	<u>Santa Fe 929</u>	
DCC Address:	<u>929</u>	
<u>ATSF</u>	<u>929</u>	<u>SD24</u>
(RR)	(Number)	(Type)
<u>ATSF</u>	<u>703</u>	<u>GP9</u>
_____	_____	_____
_____	_____	_____
(other units in consist)		
Features		
<input checked="" type="checkbox"/>	Standard Functions	
<input checked="" type="checkbox"/>	Sound	
<input type="checkbox"/>	See back	
Standard Functions		
F0	Lights on/off	
F1	Bell	
F2	Whistle/horn	
Owner:	<u>Bob Schott</u>	
Certified:	<u>1-12-2012</u>	

“Handle” to communicate with Dispatcher.

“Steal” this DCC address.

Bad Order

If a car is defective, fill out a Bad Order and remove the car from the layout.

BAD ORDER
Reporting Marks
RR: _____ No: _____

Performance

- Derails often
- De-couples often
- Leans to one side
- Excessive wobble

Couplers

- Missing/Broken
- Too high or low
- Pin adjustment
- Missing spring

Wheels/Trucks

- Missing/Broken
- Out of guage
- Truck won't turn
- Dirty wheels

Front

BAD ORDER

Misc.

- Loose weight
- Detached parts
- Loose detail
- No owner ID
- No detection resistor

Other (describe)

Issued by: _____
Date: _____

Back

Very Important People:

- **Trainmaster:** He assigns jobs, calls crews, gives out blue train cards, and answers questions on “Proto Ops”.
- **Dispatcher:** The only person to grant authority (give permission) to move along the mainline.
- **Pilot:** Assists new operators in their jobs.