

**St. Johns & Atlantic
Transportation**

SJA

Operations Manual

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I. Layout at a glance

Name: St. Johns & Atlantic
Transportation

Scale: HO (1:87.1)

Size: 28'-2" x 30'-5-³/₄"

Period: 22-October-2005

Prototype: CSX, FEC, NLAX, SOU

Locale: Florida

Layout Style: Walkaround

Layout Height: 57 ¹/₄"

Benchwork: ³/₄' X 2 ¹/₂" grid

Roadbed: AMI Instant Roadbed on 1" Styrofoam

Length of mainline run: xyz'

Track: Code 70 and 83

Minimum turnout: No. 4

Minimum radius: xyz"

Maximum grade: xyz%

Scenery: xyz

Backdrop: Photo prints over painted ³/₁₆" Ultra Board

Control: Digitrax command control

II. Design

The Saint John's & Atlantic was designed by John Armstrong based on criteria set forth by Mark Norman. Saint Johns & Atlantic Transportation operates between Jacksonville, south through Winter Haven and southwest through Tampa. It provides switching services within Jacksonville. The tracks roughly parallel the Saint Johns River until reaching Sanford then Orlando. The Taft yard marks the southern terminus of the SJA. The Jacksonville area constitutes a major portion of the layout with extensive interchange traffic north through Georgia to the Midwest, plains states, and eastern seaboard. To the west there is an interchange with CSX at Baldwin and traffic through the panhandle to points west. Along the Atlantic coast via FEC service is provided to south Florida and the NLAX at the space center. Within Jacksonville there is switching among the industries.

The SJA has a business alliance with CSX Transportation which is also based in Jacksonville. The businesses operate independently. For purposes of modeling, SJA operates the prototype CXS tracks south of Jacksonville. CSX operates all other trackage it normally would operate in this area.

The SJA is patterned after CSX and generally follows CSX practices in the manner the Family Lines once operated.

III. Power-Up Checklist

- Overhead fluorescent – ON
- Pantry lights – ON
- North track lights – ON
- South track lights – ON
- Blue circuit rope lights – ON [optional]
- Orange circuit rope lights – ON [optional]
- Power District 1 – ON
- Power District 2 - ON
- Power District 3 - ON
- Power District 4 - ON
- Power District 5 – ON
- Power District - Accessories – ON
- Power District - BDL16's – ON

IV. Layout

A. Track schematic colors

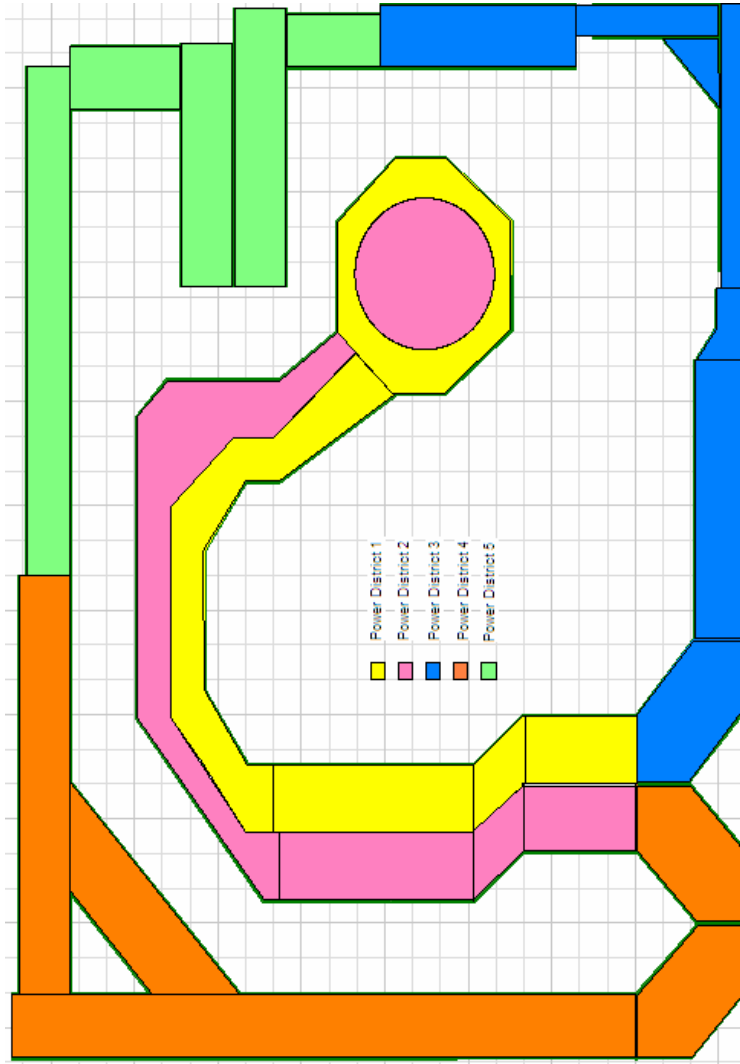
- CSX Black
- FEC Maroon
- NLAX Red
- SJA Blue
- SOU Green
- Spurs Grey

B. Track naming convention

- Mainline: Track segments end in zero, i.e. 100, 110, 120, ...190. Each, line ends in 00 initially then increments by ten.
- Turnouts, Crossings, Slip Switches: These components end in 2, 4, 6, or 8. They increment logically in relationship to the mainline track segment preceding them.
- Sidings, Spurs: These track segments end in 1, 3, 5, 7, or 9. They increment logically in relationship to the track segment preceding them.

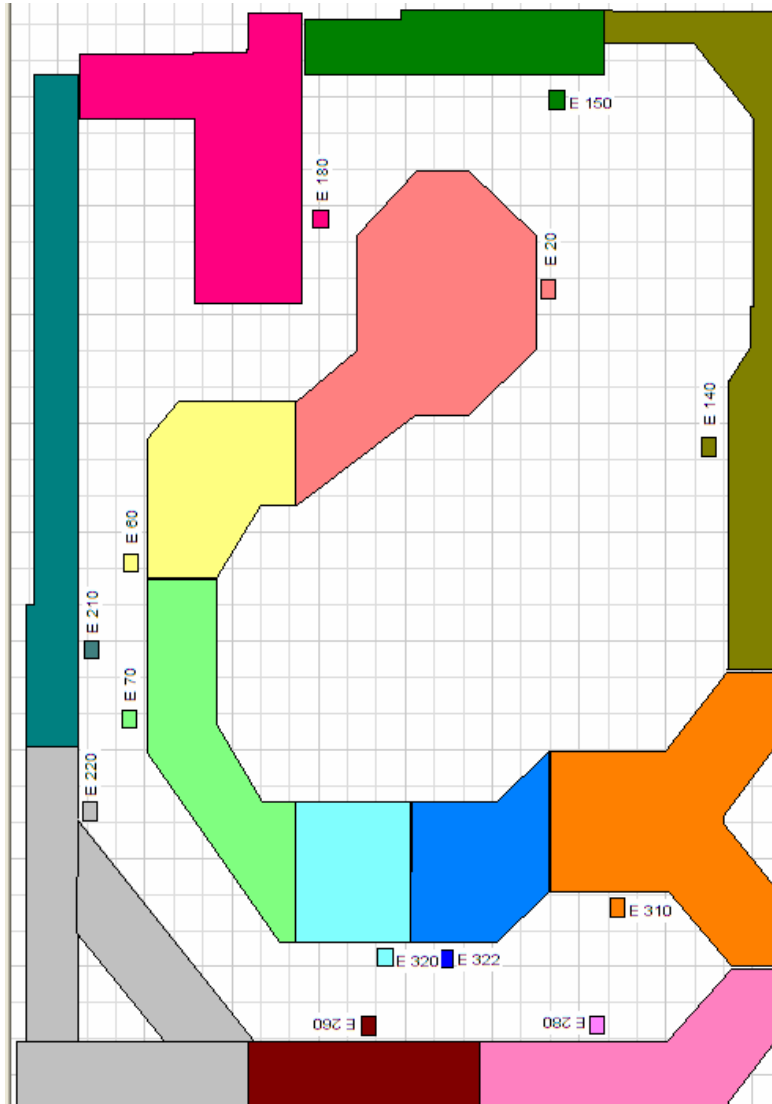
C. Power Districts

The layout has five power districts. The districts are fed by a pair of 12 gauge feeder wires. Accessories, BDL-16's, and Turnouts have their own layout wide power supplies.



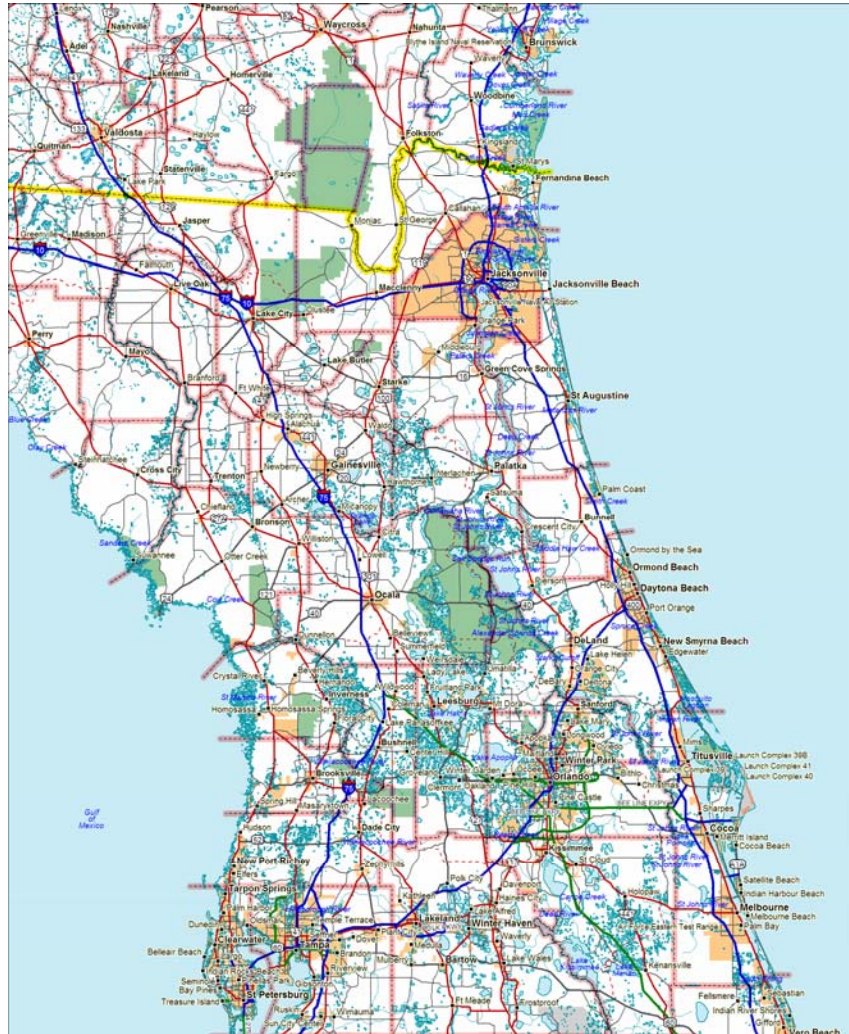
D. Control Districts

The layout has 13 control districts. Controls and detection circuitry for the district are found in the designated Electronics Bay.



V. Operations

A. Map



- B. System schematic**
- C. Motive power**
- D. Trains**
- E. Operating rules**
- F. Signals and communication**
- G. Classification and blocking**
- H. Dispatching**

VI. Power-Down Checklist

- Modeling desk light – OFF
- Painting desk light - OFF
- Blue circuit rope lights – OFF
- Orange circuit rope lights – OFF
- Pantry Lights – OFF
- North track lights – OFF
- South track lights – OFF
- Power District 1 – OFF
- Power District 2 - OFF
- Power District 3 - OFF
- Power District 4 - OFF
- Power District 5 – OFF
- Power District - Accessories – OFF
- Power District - BDL16's – OFF
- Power District - Turnouts – ON
- Extension cord, Space Center – OFF FLOOR
- Extension cord, Central Florida Connector – OFF FLOOR
- Overhead fluorescent – OFF