North Shore Extension – Main Window
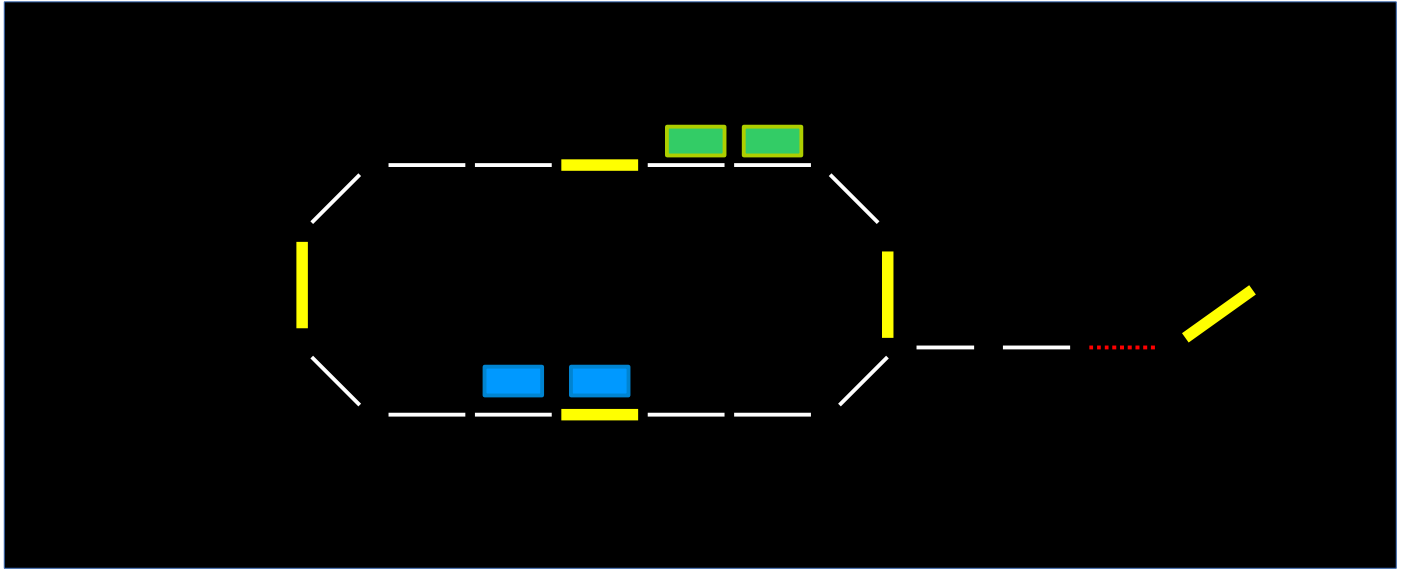
Trains

Name	Location	Status	Speed	Authority		
TrainA	123,456	running	50mph	100mi	Schedule	Route
TrainB	234,567	stopped	0mph	N/a	Schedule	Route

Track Maintenance   Add/Remove Track

This is the main window of the user interface in the CTC.

On the top is a display
- Lines are track blocks
- Yellow lines indicate blocks at stations
- Red dashed lines are closed tracks
- The rectangles above the lines are trains at their current position
    - Will also display the train name

Below the display is information about individual trains

The gray rectangles are buttons that allow the user to change options in the transit system.
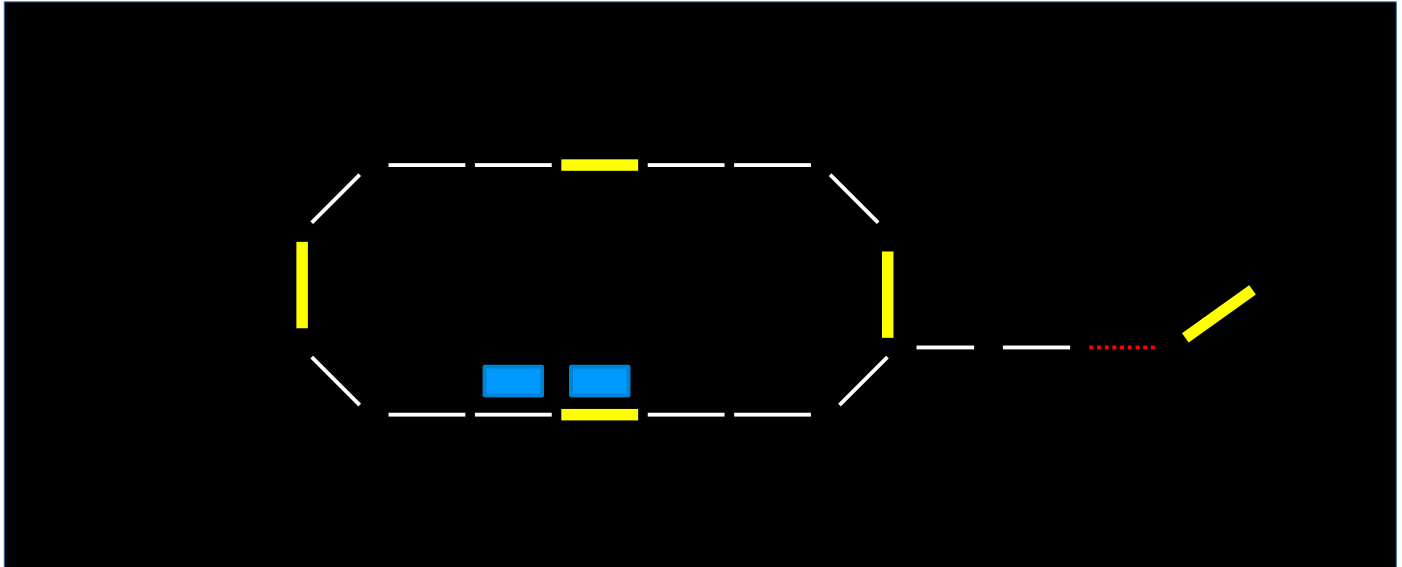
Schedule Train B

| Station	Arrive By	Leave At		
South	5:45AM	6:00AM	x	
East	6:45AM	7:00AM	x	
North	7:45AM	8:00AM	x	
Add...			Submit	

Cancel   Submit

This is the Schedule Train Window. The user accesses this window by clicking on "Schedule" for one of the trains in the main window.

The display is the same as the main window except only the current train is shown.

The table shows all the times trains should be arriving and leaving stations.
- Click on X to remove an entry in the schedule.
- Type a station in the box Add... along with times in the next two columns and hit submit to add an entry.
- An error message will display below table if user tries to submit invalid information.
- Submit saves all changes and goes back to main
- Cancel discards all changes and goes back to main
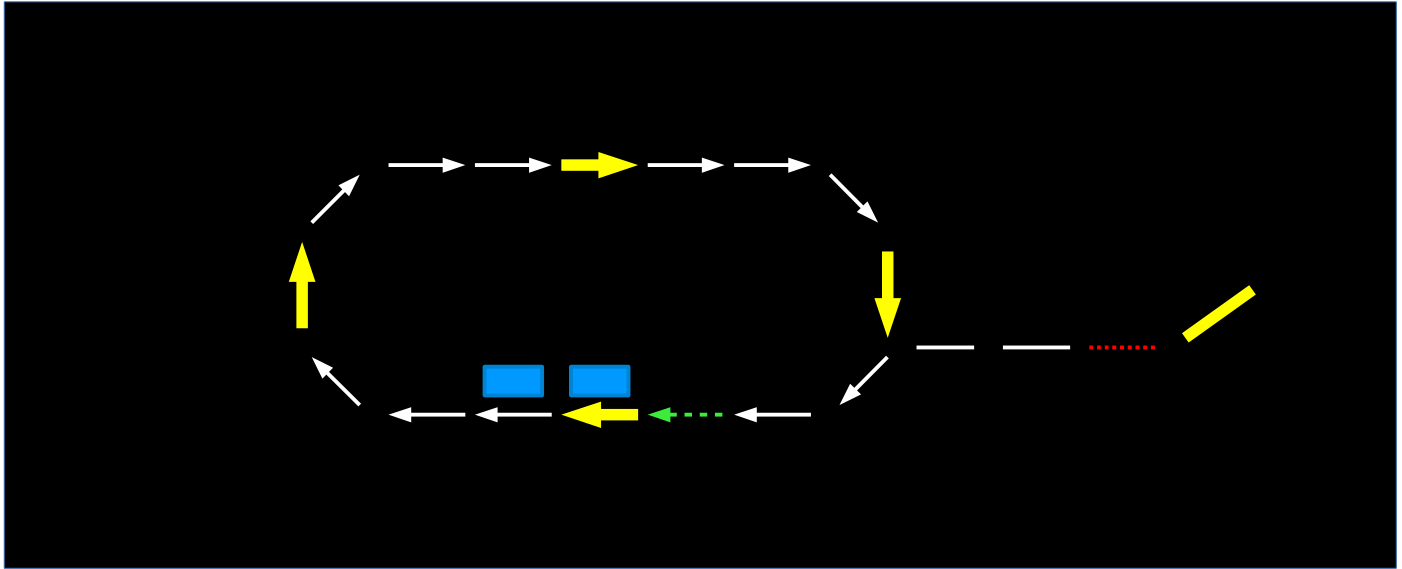
Route Train B

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 52
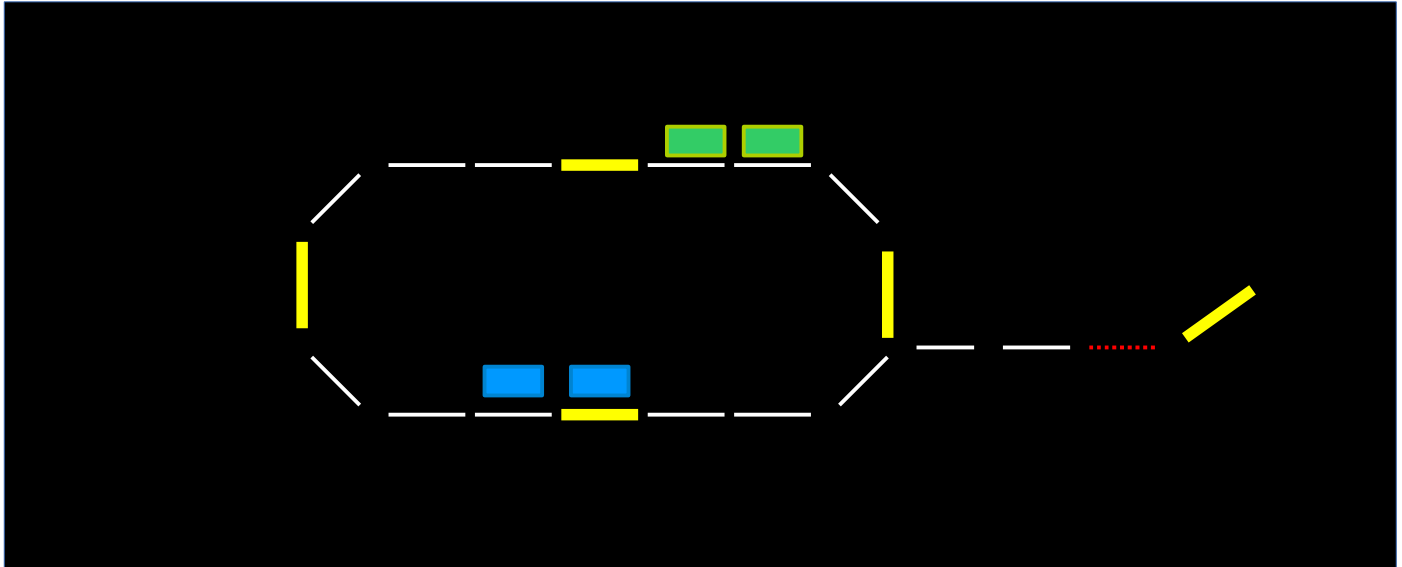
Error: INVALID ROUTE

Cancel   Submit

This is the Route Train window. The user accesses this window by clicking on "Route" for one of the trains in the main window.
- The display is the same as the main, except only the chosen train is shown, and arrows indicate the direction that the train will move on a track block as the user is entering in routes.
- User types in block numbers or clicks on tracks to make block numbers appear in text box.
- Submit saves all changes and goes back to main
- Cancel discards all changes and goes back to main
- If user tries to submit invalid route, error message will appear as shown above.

Tracks on maintenance

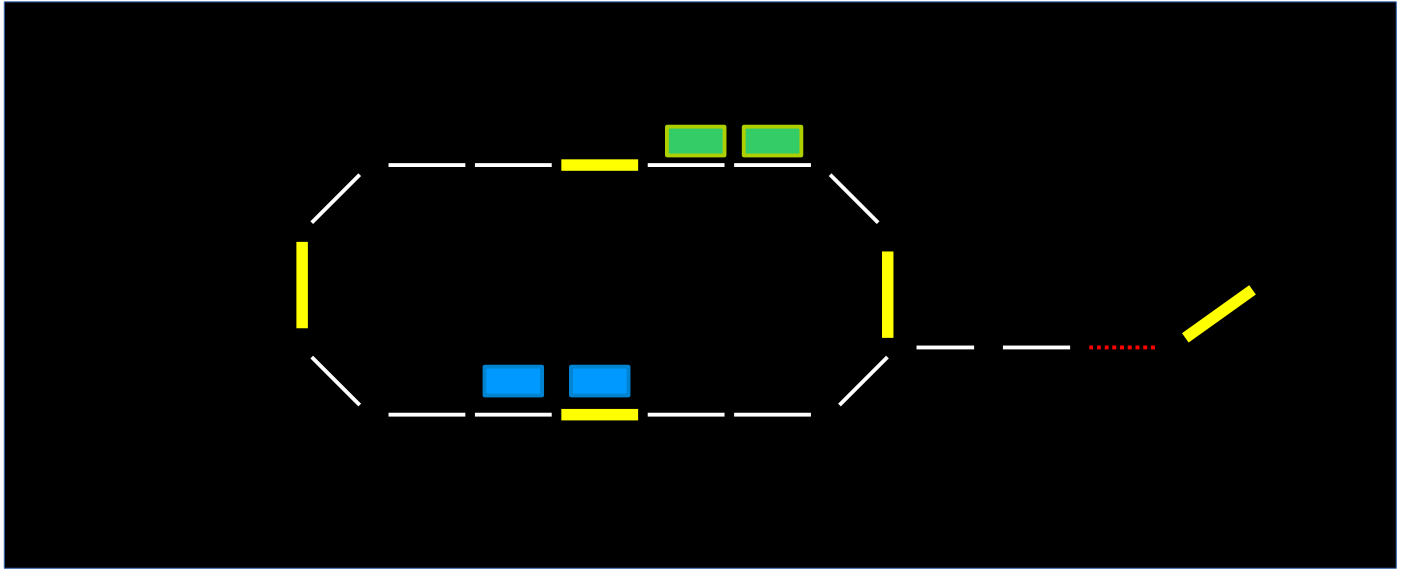| Track #	
57	Reopen
Add...	Submit

Cancel   Submit

This is the Track Maintenance window. The user accesses this window by clicking on "Track Maintenance" in the main window.
- The display is the same as the main.
- The tracks currently closed for maintenance are shown.
- Type track block number in the Add.. section of table and hit submit to close that track for maintenance. May also click on track block to autotype in a number.
- Click "Reopen" next to a track number to reopen it.
- Submit saves all changes and goes back to main
- Cancel discards all changes and goes back to main
- If user tries to add invalid track number, error message will display on the side.

Add Track

234,324 253,623 ...   Add

Add Successful!

Remove Track

Track # 57   Remove   Cancel   Submit

This is the Add/Remove Track window. The user accesses this window by clicking on "Add/Remove Track" in the main window.
- The display is the same as the main.
- Type in track dimensions under Add Track and clicks "Add" to add a track. The track will then appear on display if successful.
- Type in track number next to Track # (or click on track in display) and hit "Remove" to remove a track.
- Any invalid input will result in an error message on the side where Add Successful is.
- Submit saves all changes and goes back to main
- Cancel discards all changes and goes back to main