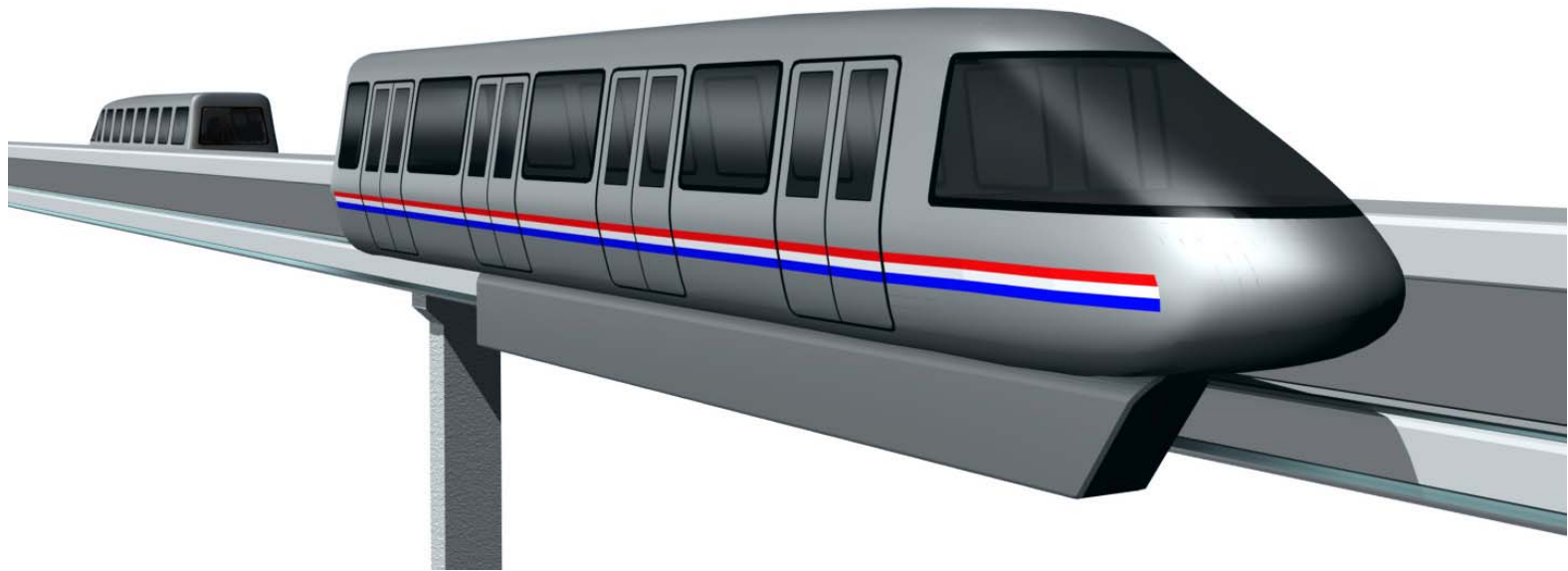
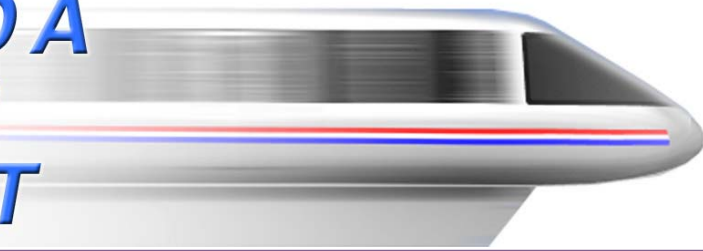




# FLORIDA SILVER BULLET



## *2<sup>nd</sup> Generation Monorail*



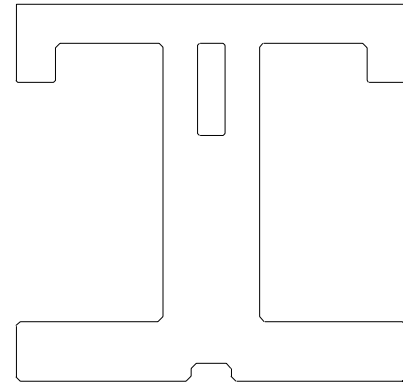
GEORGIA  
MONORAIL  
CONSORTIUM



# FLORIDA SILVER BULLET

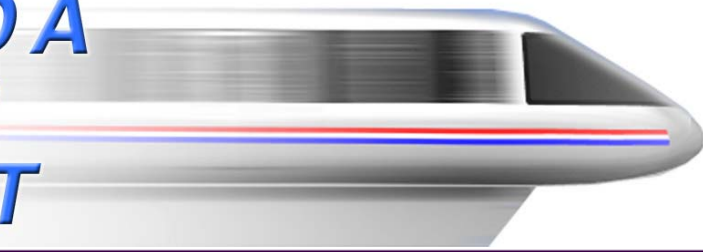


The simple beam shape is the key to the technology.

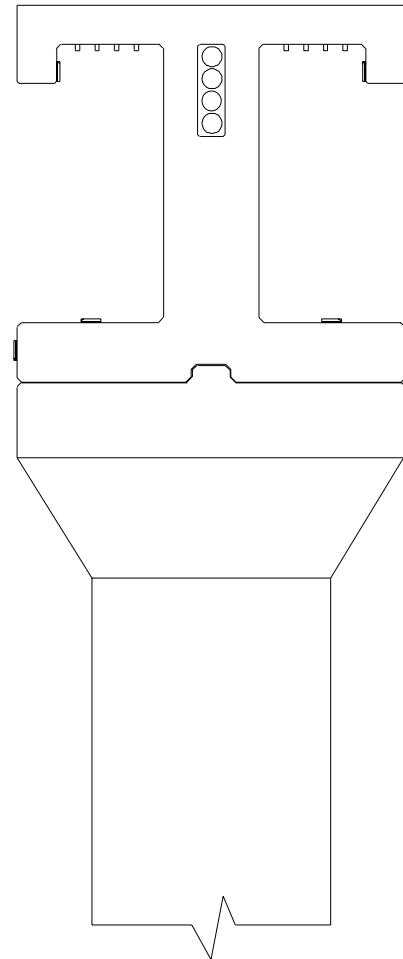




# FLORIDA SILVER BULLET



Using the void inside the top of the beam, power can be conveyed to the pantograph bars.

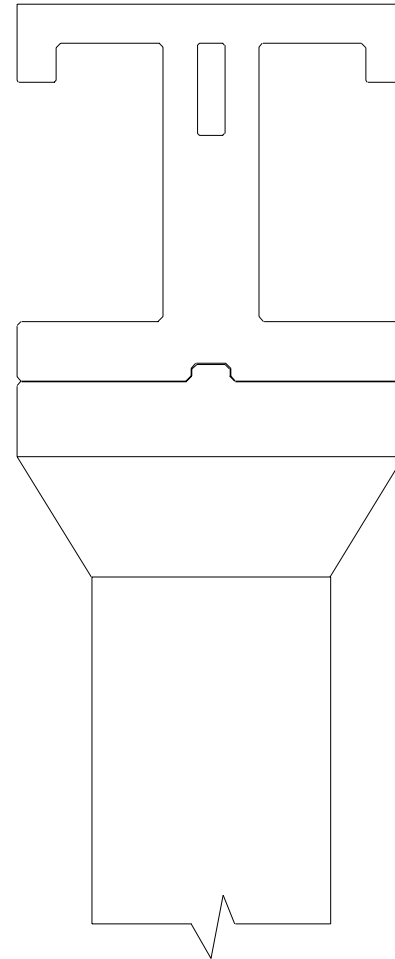




# FLORIDA SILVER BULLET

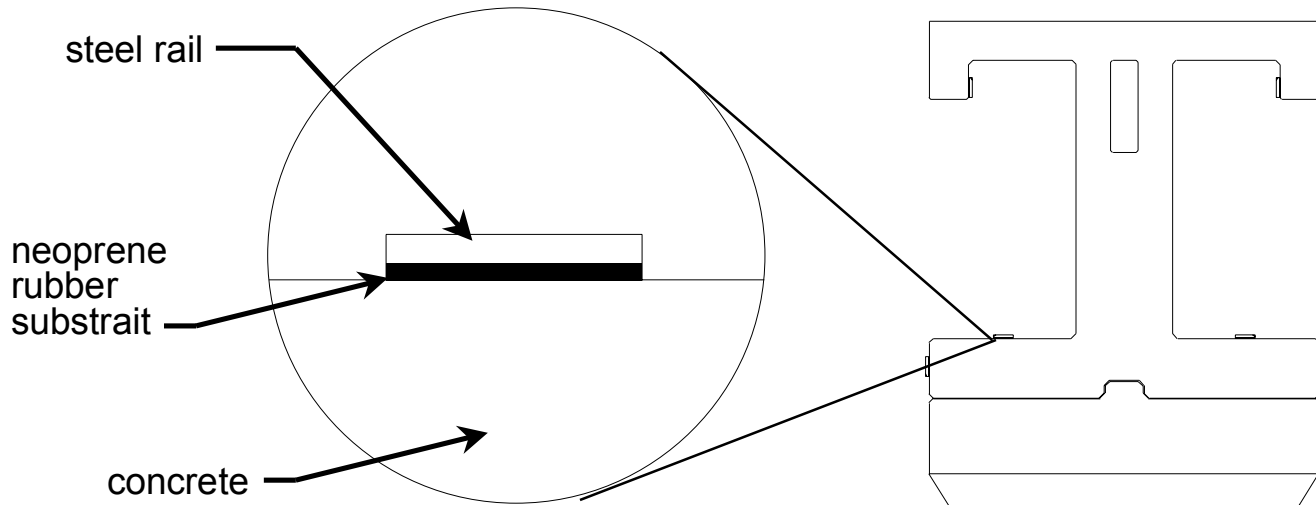
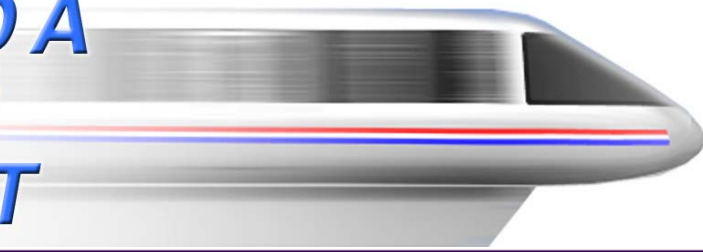


The end of each span is supported by columns which “lock” the beam horizontally.





# FLORIDA SILVER BULLET

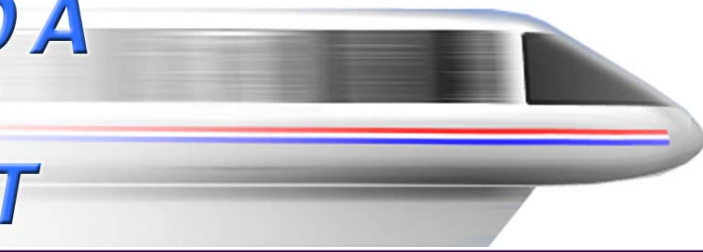


QuietRail technology allows advantages of steel, but with far less noise.





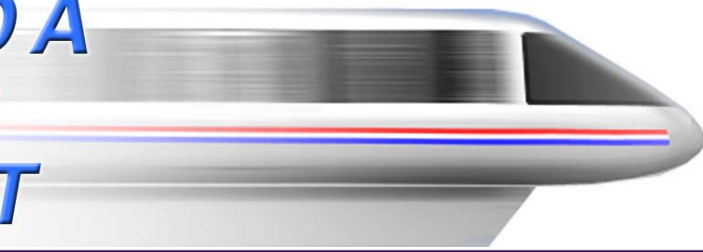
# FLORIDA SILVER BULLET



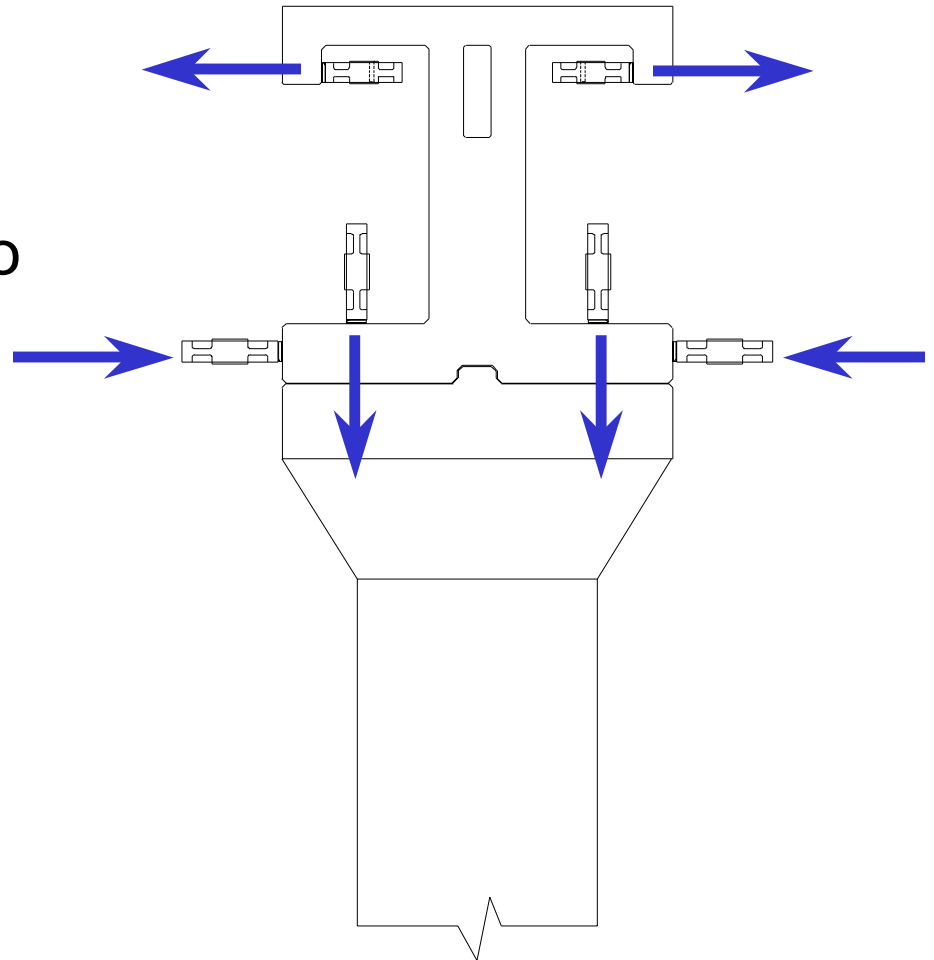
Two simultaneous directions of standard transport and emergency access over traffic congestion or rough terrain.



# FLORIDA SILVER BULLET

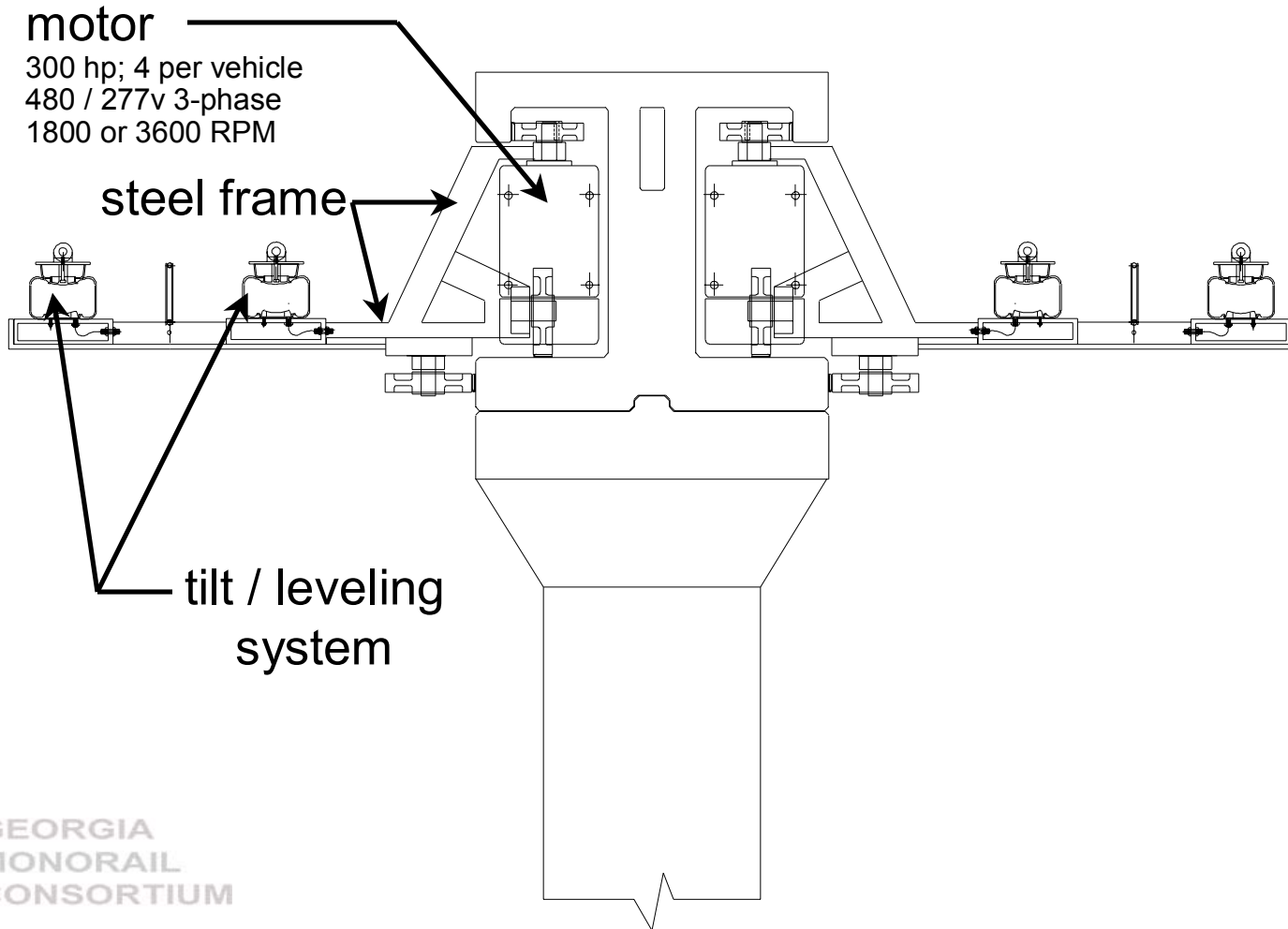
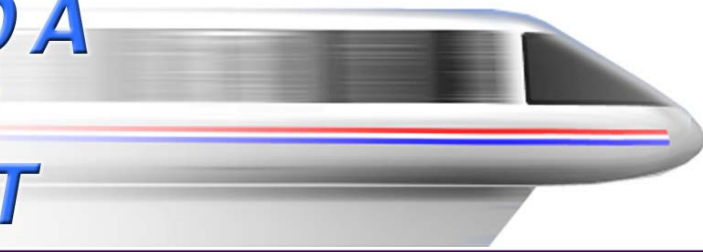


Flangeless steel wheels roll along the rails in 3 planes, locking each vehicle to its side of the guideway beam.





# FLORIDA SILVER BULLET

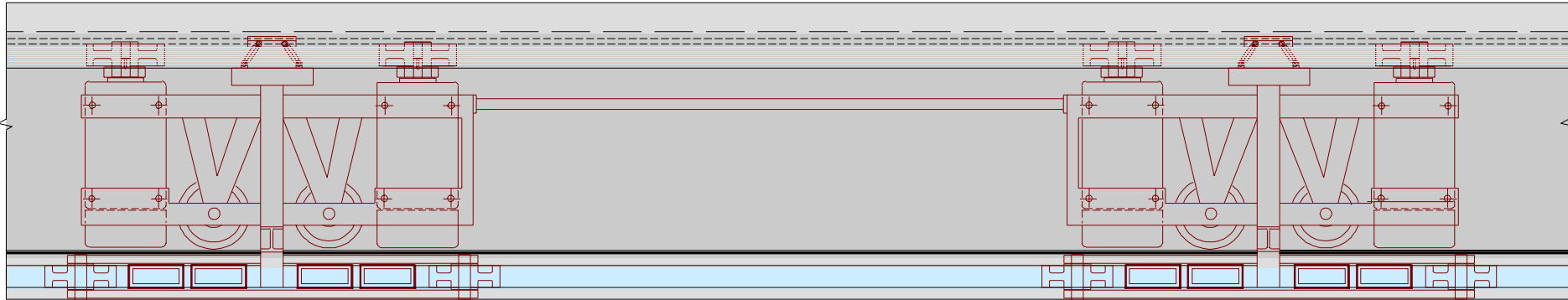




# FLORIDA SILVER BULLET



**System redundancy is key to reliable vehicle performance.**



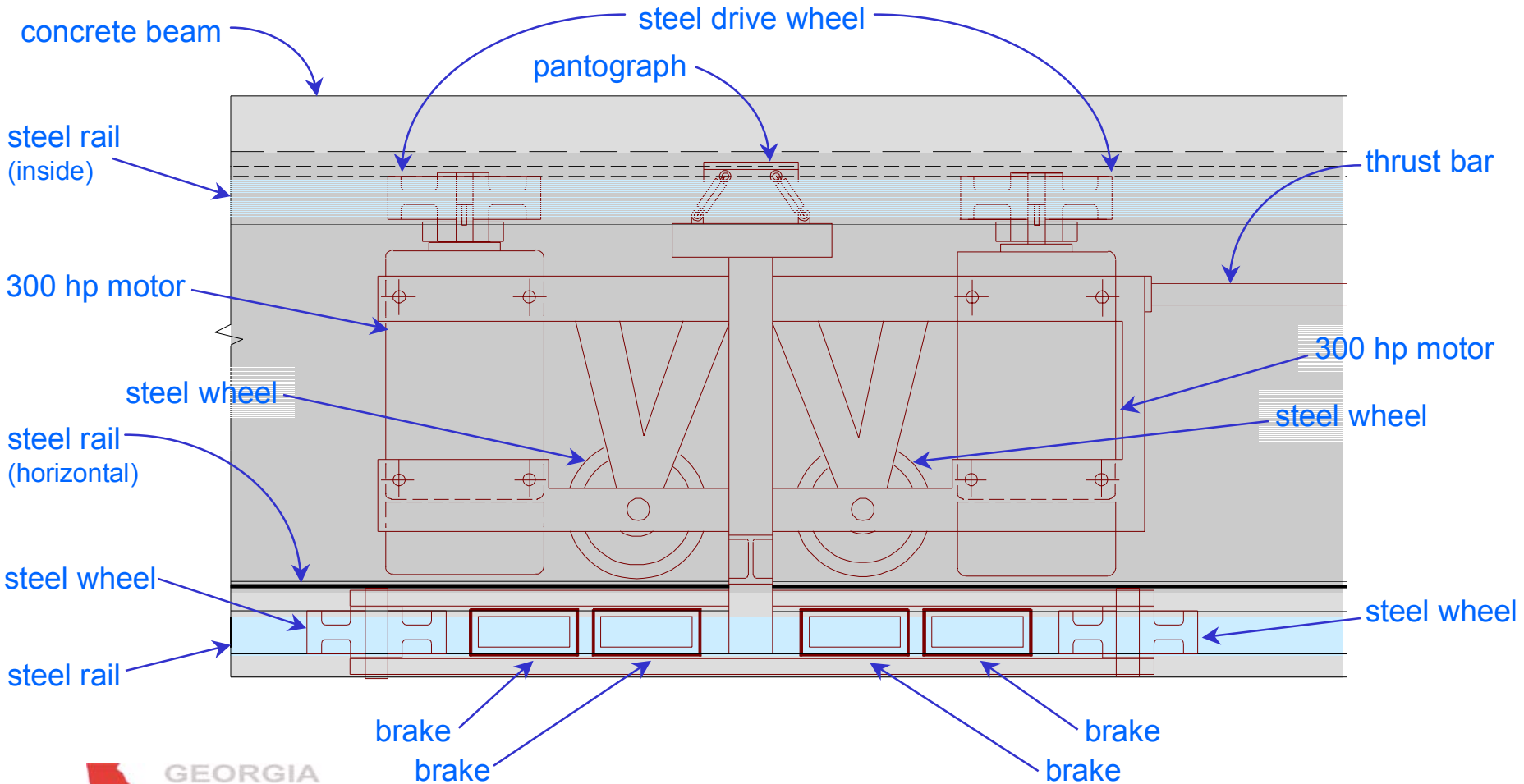
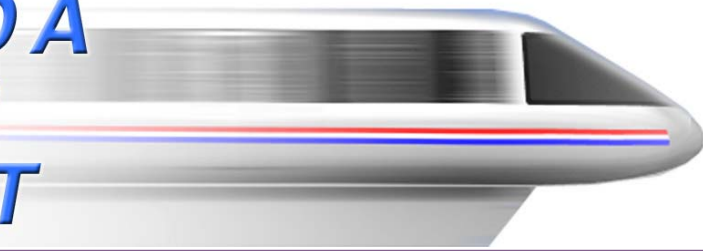
2 drive bogies per  
vehicle provide:

- 4 motors
- 4 regenerative brakes
- 8 backup brakes
- 2 power taps (pantographs)





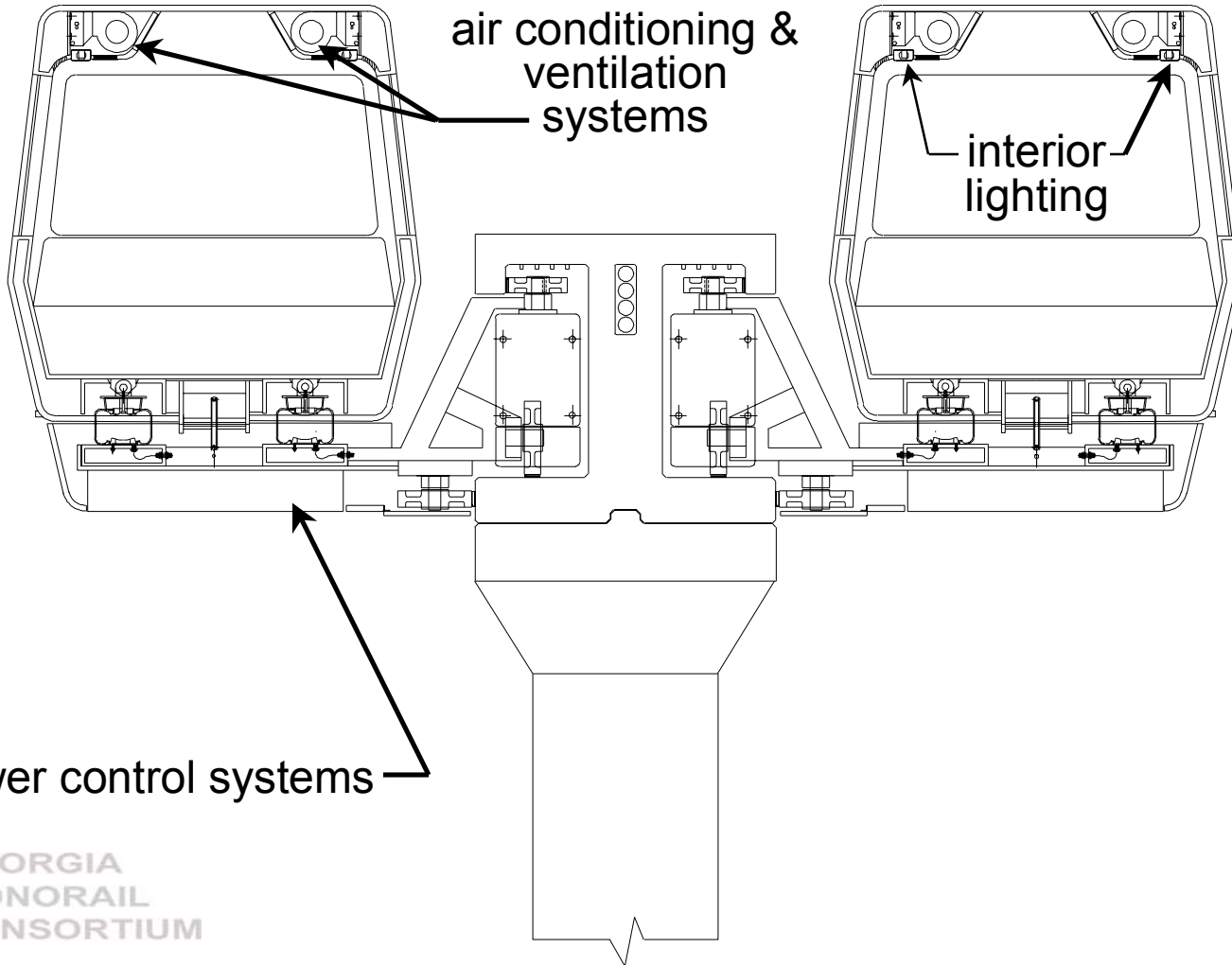
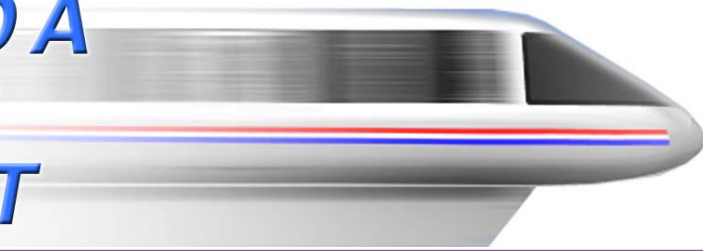
# FLORIDA SILVER BULLET



one of two drive bogies per vehicle



# FLORIDA SILVER BULLET



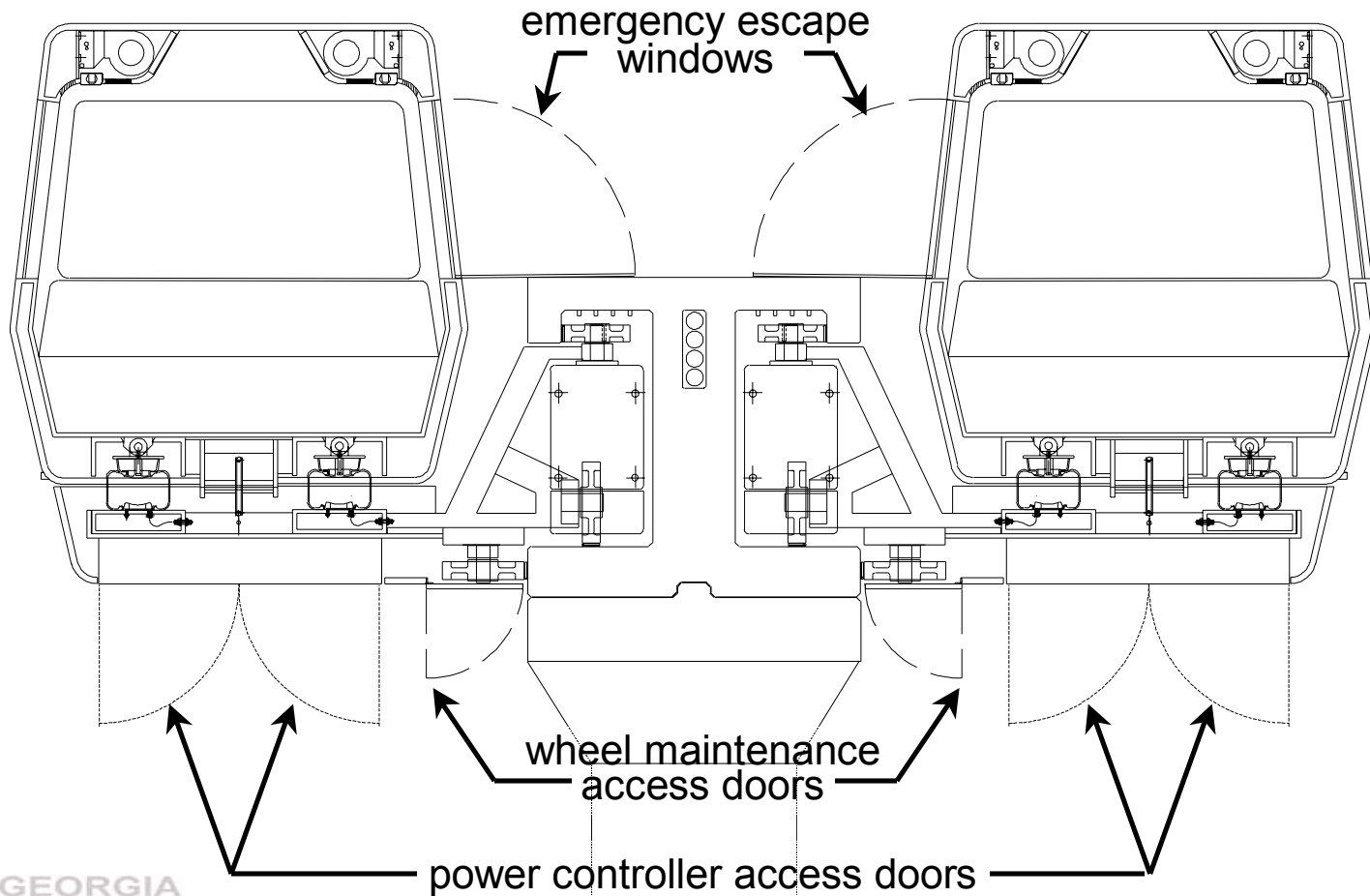
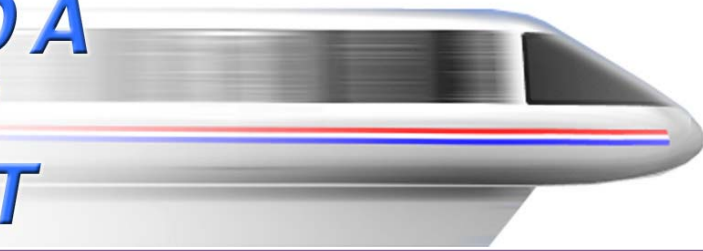
motor power control systems



GEORGIA  
MONORAIL  
CONSORTIUM

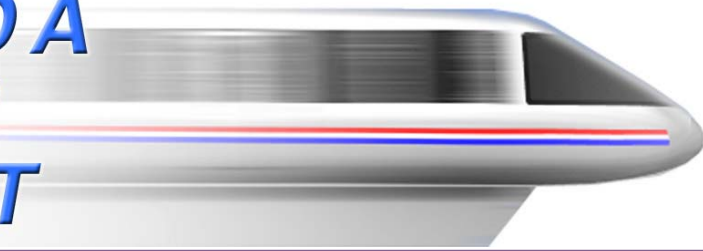


# FLORIDA SILVER BULLET





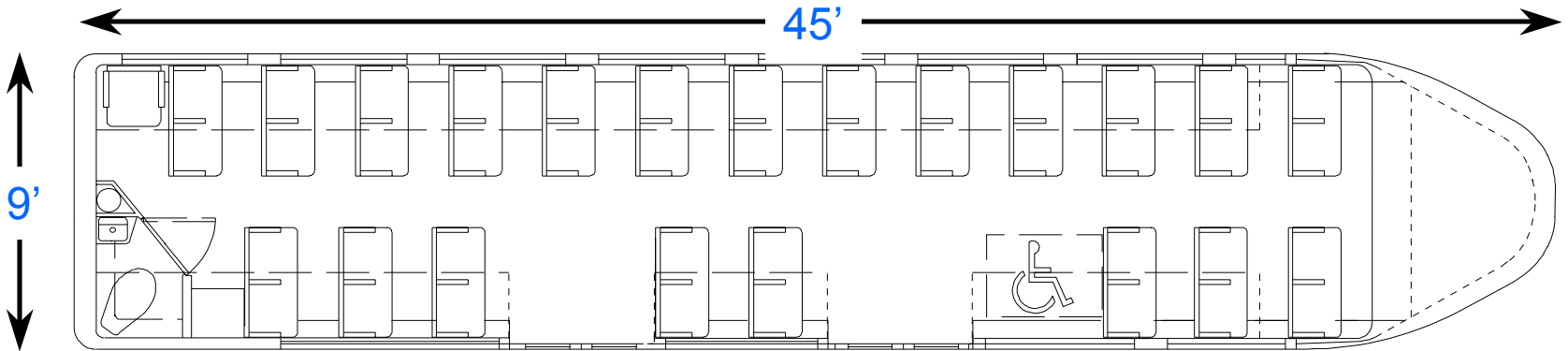
# FLORIDA SILVER BULLET



GEORGIA  
MONORAIL  
CONSORTIUM



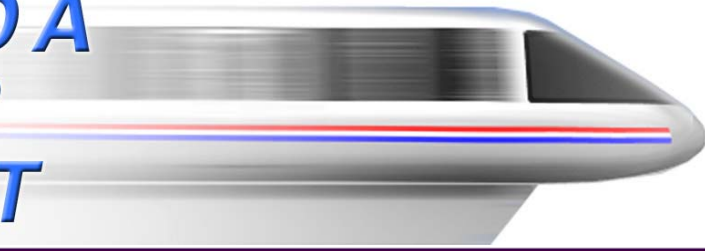
# FLORIDA SILVER BULLET



**Accommodations:** 42 seats  
1 wheelchair position  
32" seat pitch  
18" aisle



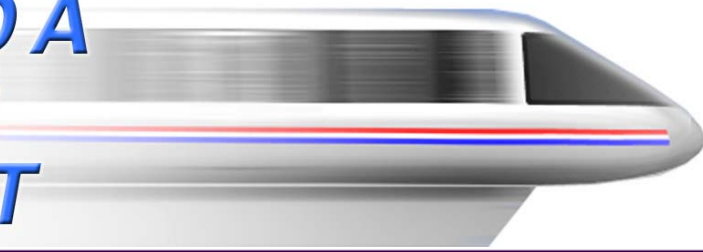
# FLORIDA SILVER BULLET



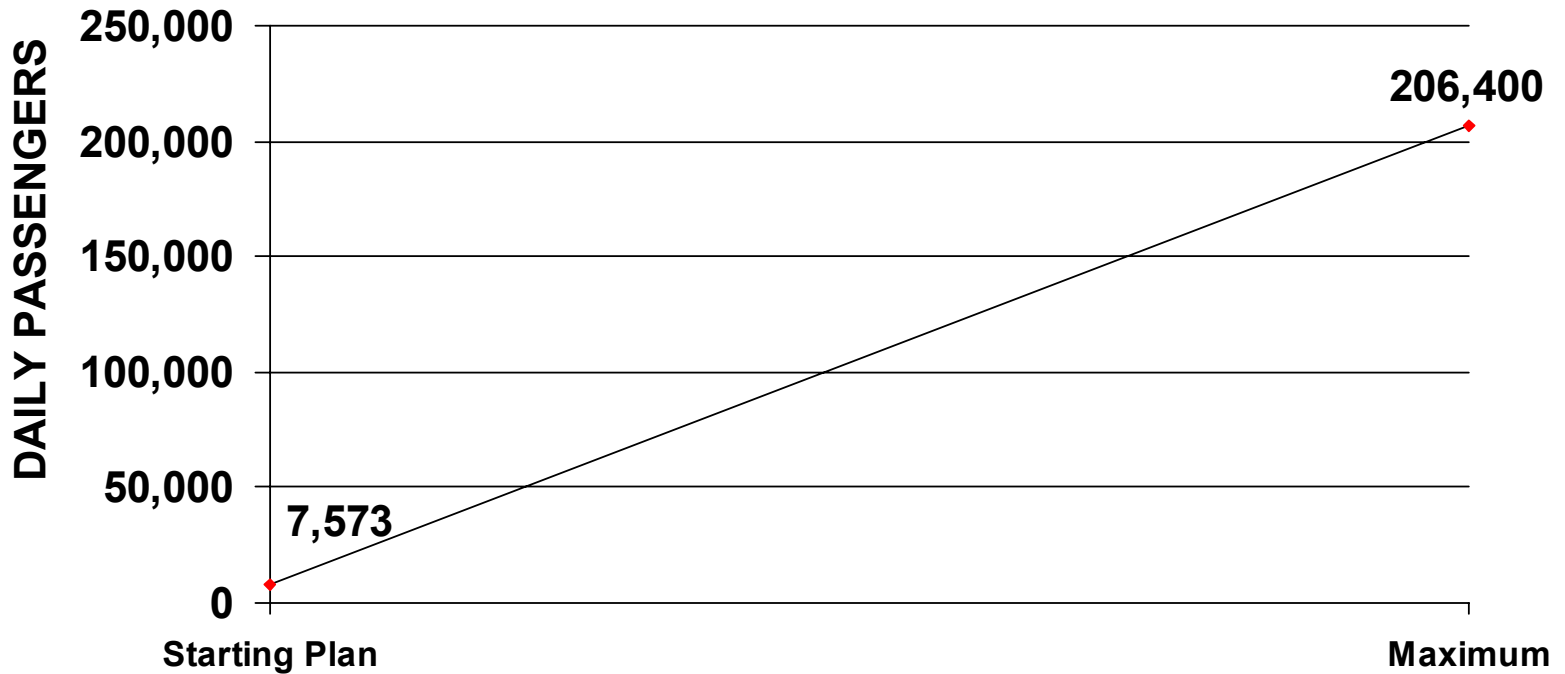
Total Capacity per Vehicle	43 Passengers
Accommodations	42 Standard seats; 1 Wheelchair position; 0 Standing
Maximum Velocity	214 MPH
Minimum Turning Radius	40 Meters (132 feet) vehicle
Headway Minimum	*15 Seconds
Tilt / Leveling Control	Pneumatic
Power	480 Volt / 3 Phase
Power Transfer System	Dual Pantograph
Guideway Type	Dual-sided Monorail
Suspension Type	Pneumatic / Hydraulic
Braking System	Pneumatic / Spring (3 meters/sec/sec)
Door Systems	2 Dual Automatic (bi-parting)
Control Systems	Siemens Digital Controls (Simetric)
Safety Compliance	Full Compliance with ANSI / NFPA-130 Transit Safety Code



# FLORIDA SILVER BULLET

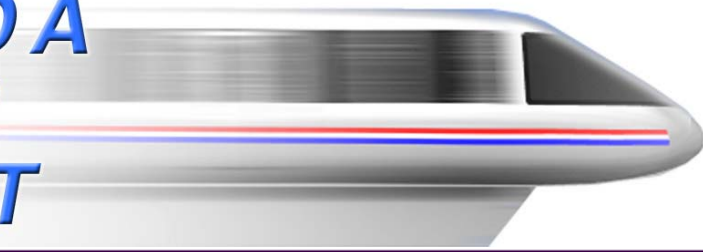


## PASSENGERS PER DAY

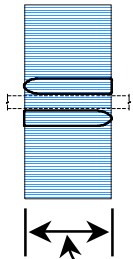




# FLORIDA SILVER BULLET



← TRAIN-STYLE STATIONS ARE UP TO 800' →

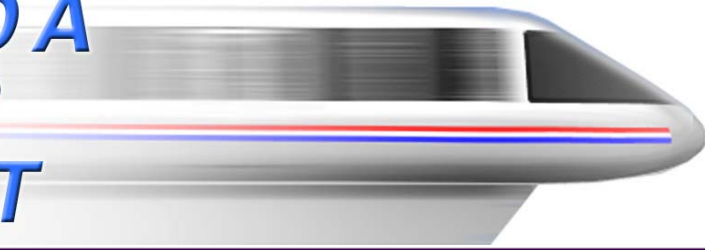


SILVER BULLET  
STATIONS ARE ONLY  
50' LONG

**High capacity is  
achieved through  
frequent service rather  
than long trains.**



# FLORIDA SILVER BULLET

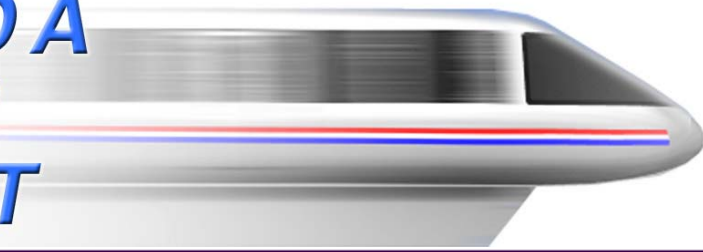


## Service Criteria

- 160 Trips / day @ 7 minutes apart
- First-class accommodations
- Airline-style seating
- Overhead storage
- 34 minutes trip time
- 214 mph top speed



# FLORIDA SILVER BULLET



## Expected Fare Structure

### SILVER BULLET

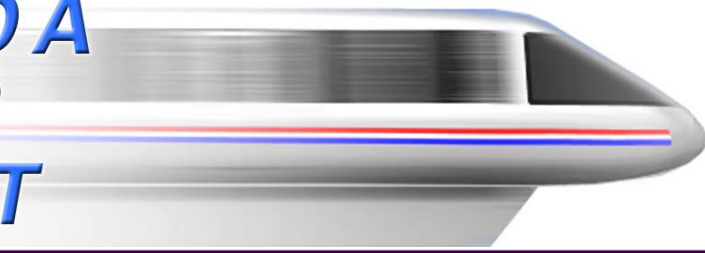
- \$21.75 Orlando to Tampa
- \$2.50 OIA to Civic Center
- \$8.50 Lakeland to Tampa

### LOCAL SERVICE

- \$2.00 Orlando Transit
- \$2.00 Tampa / St. Petersburg Transit



# FLORIDA SILVER BULLET



## **Criteria / Conceptual Design Phase Completed**

- Designed
- Components pre-existing & selected
- Component costs determined
- Ready for Construction Documents engineering



# FLORIDA SILVER BULLET

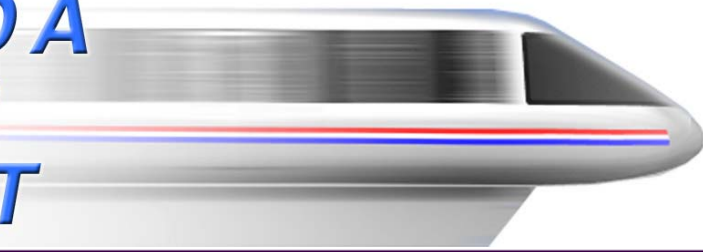


## Benefits of Using Pre-existing Components

- Quantifiable
- Eliminates unknown factors
- Accurate construction costs
- Accurate construction schedule
- Accurate maintenance schedules
- Accurate operating cost budget
- Creates a predictable & reliable system

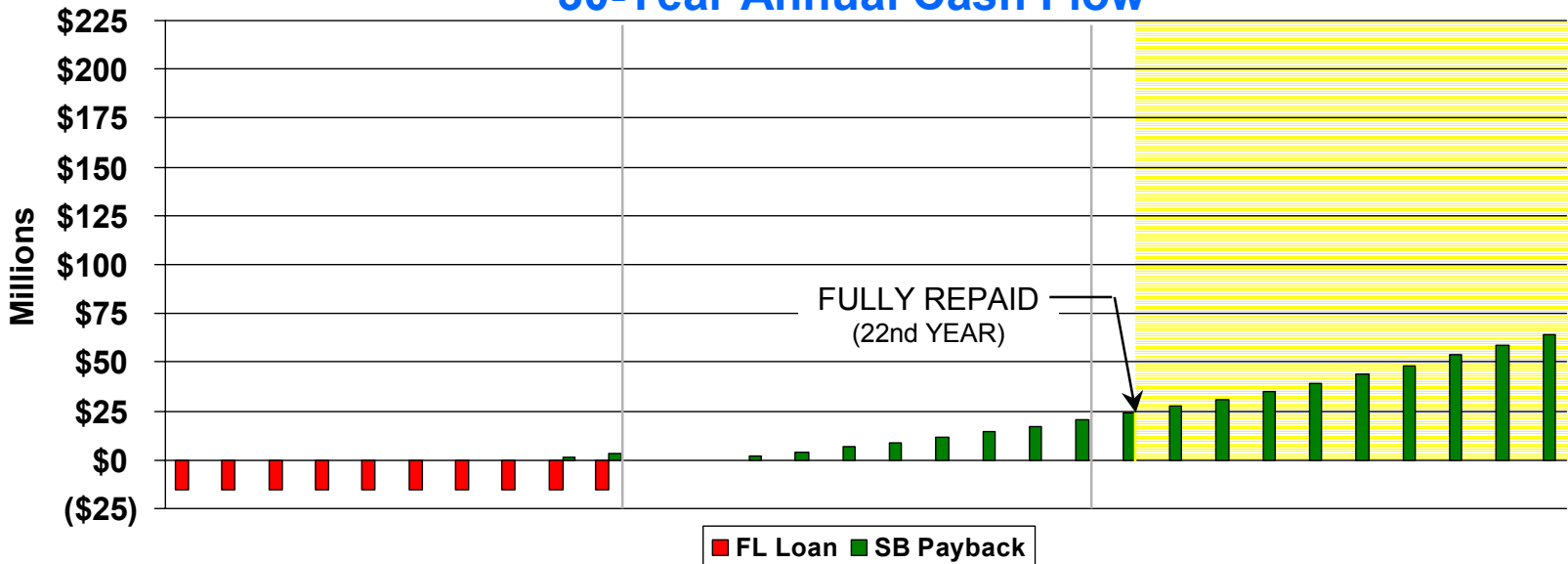


# FLORIDA SILVER BULLET



## Proposal 1 - Greenway Rt. Option

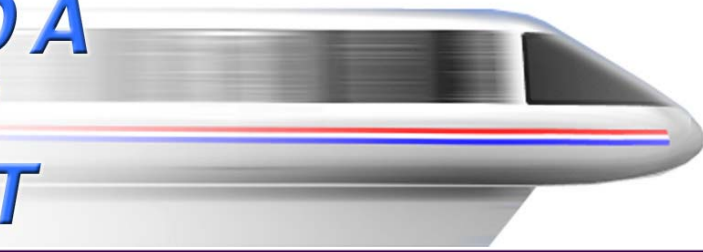
### 30-Year Annual Cash Flow



- \$1.40 Billion Total Cost
- State pays \$15 Million / year for 10 years
- Florida receives loans repayment and \$366.1 Million added revenue

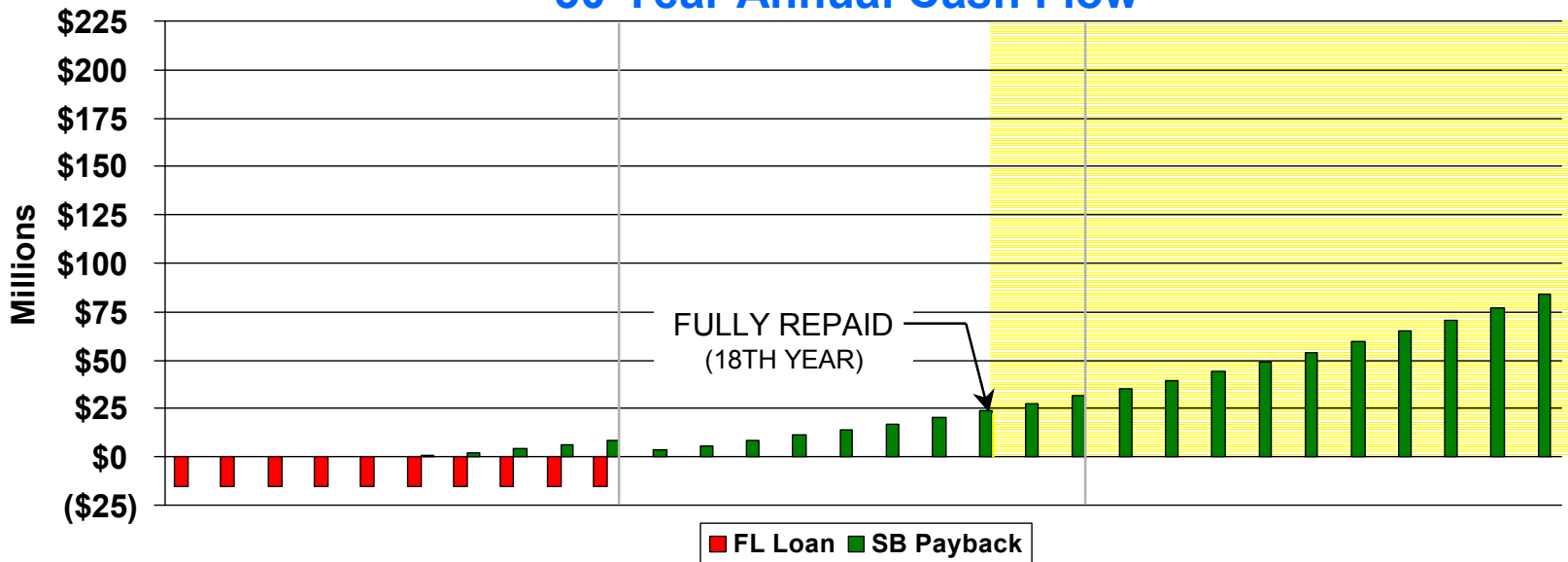


# FLORIDA SILVER BULLET



## Proposal 1 - Bee Line Rt. Option

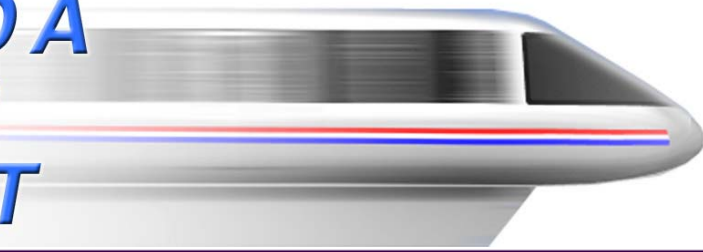
### 30-Year Annual Cash Flow



- \$1.452 Billion Total Cost
- State pays \$15 Million / year for 10 years
- **Florida receives loans repayment and \$613 Million added revenue**

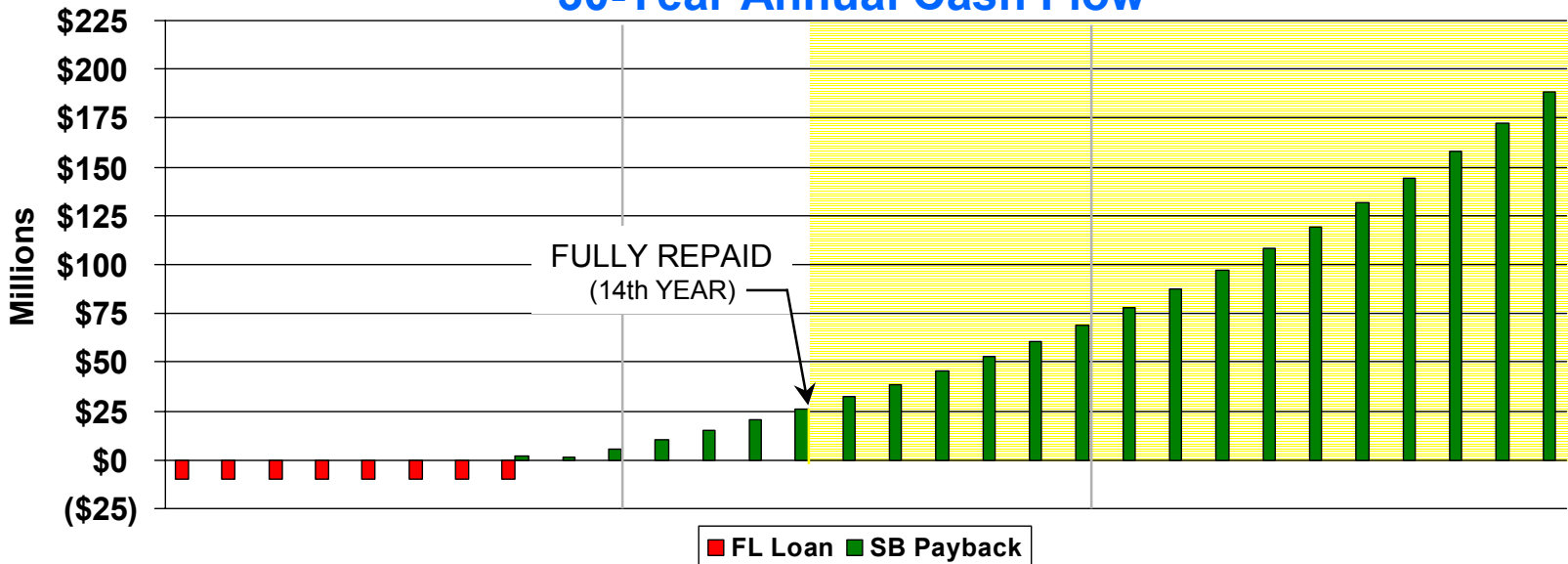


# FLORIDA SILVER BULLET



## Proposal 2 - Greenway Rt. Option

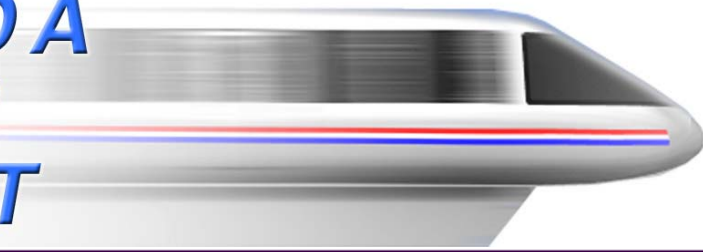
### 30-Year Annual Cash Flow



- **Adds local monorail transit service to Tampa / St. Petersburg & Orlando**
- **Total Cost: \$2.48 Billion**
- **State pays \$10 Million / year for 8 years**
- **Florida receives loans repayment and \$1.6 Billion added revenue**

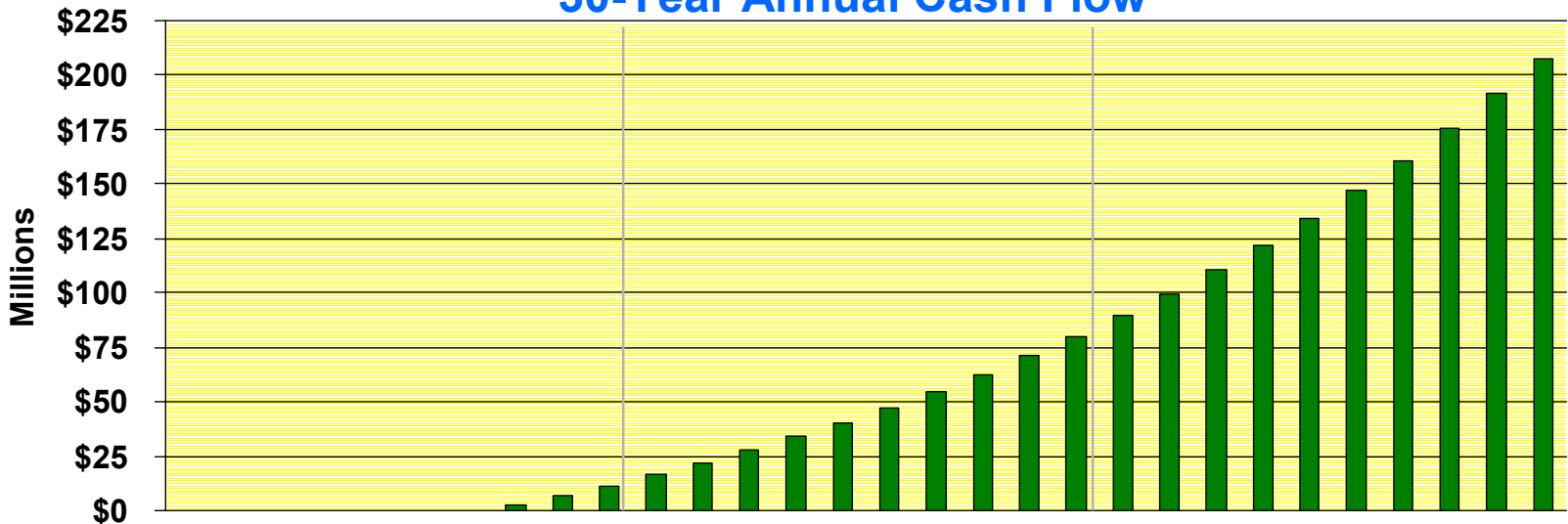


# FLORIDA SILVER BULLET



## Proposal 2 - Bee Line Rt. Option

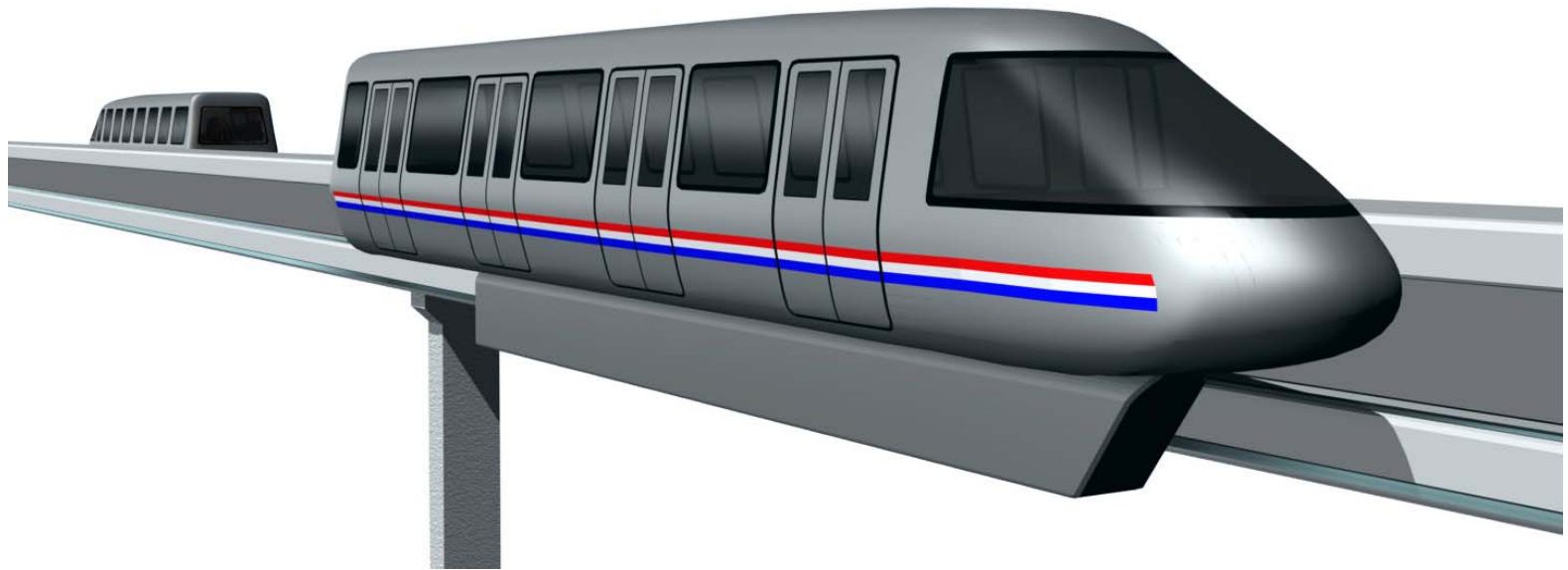
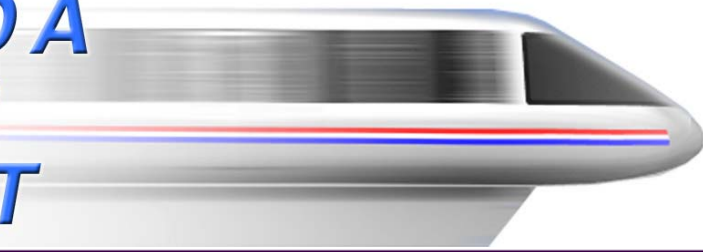
### 30-Year Annual Cash Flow



- **Adds local monorail transit service** to Tampa / St. Petersburg & Orlando
- Total Cost: \$2.535 Billion
- **No State or Local funding required**
- Over 30 years, Florida receives **\$1.914 Billion added revenue**



# FLORIDA SILVER BULLET



## *2<sup>nd</sup> Generation Monorail*



GEORGIA  
MONORAIL  
CONSORTIUM