

**PENNSYLVANIA PROJECT
General Quantities Required for a 54 Mile Project**

<u>Item</u>	<u>Quantity</u>
Guideway Beams (All types)	~ 7,000
Switches	18
Guideway Plate Steel	~ 300,000 tons
Cable for Stator Winding	~1,250 miles
MAGport® Stations	5
Structure:	
Columns (Piers)	~4,100
Concrete for Columns/Caissons	~606,000 CY
Caisson Shafts Drilled Soil	~137,000 CY
Caisson Shafts Drilled Bedrock	~100,000 CY
Reinforcing Steel (Rebar)	~143,000 tons
Major River Crossings	1 @ ~1,000' long
Secondary Structure (Bridges)	66,000 linear feet
Retaining Wall	~27,000 linear feet
Road Improvement/Relocations	~151,000 linear feet
Excavation	~23,300,000 CY



- Land required for dual guideway maglev is 15% of a 4-lane highway
- Passenger capability of a dual guideway maglev is a 10-lane highway
- Dual Guideway requires ~7,000 tons of plate steel per mile
- Guideway must be fabricated to very close tolerances
- Designed for speeds up to 310 mph with minimal “g” forces