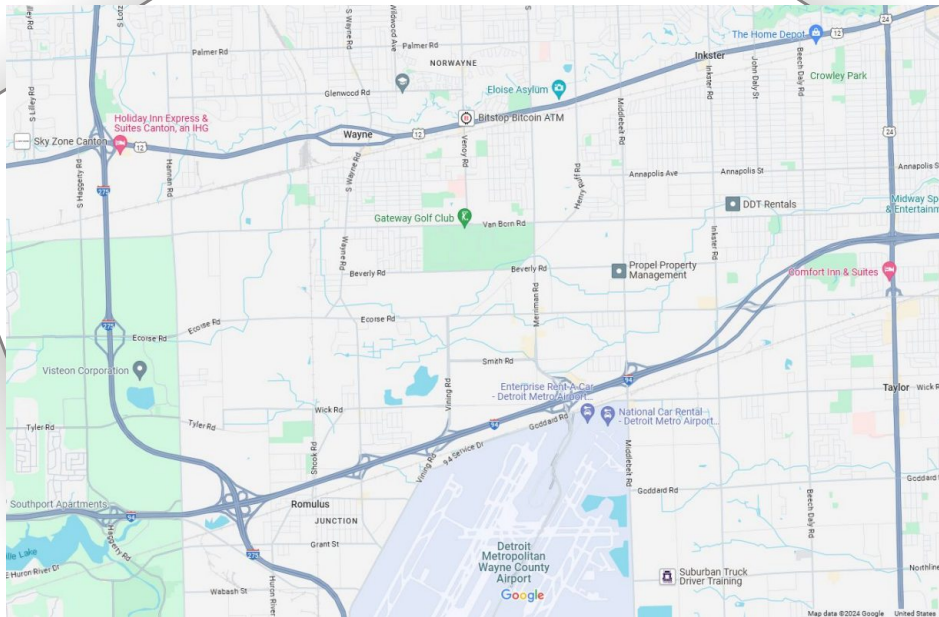


# WORLDWIDE HYDROGEN SUPER HIGHWAYS INKSTER TO DETROIT METRO AIRPORT

**INKSTER - WAYNE - ROMULUS  
DETROIT METRO NORTH**



Motor City Maglev  
Website  
QR Code

- [www.HyRail.us](http://www.HyRail.us) -
- [www.InterstateTraveler.us](http://www.InterstateTraveler.us) -
- [www.MotorCityMaglev.com](http://www.MotorCityMaglev.com) -
- [www.ElevatedRailSystems.com](http://www.ElevatedRailSystems.com) -
- [www.HydrogenSuperHighway.com](http://www.HydrogenSuperHighway.com) -



Motor City Maglev  
Press Release  
QR Code

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# **MOTOR CITY MAGLEV**

**ELEVATED RAIL SYSTEM**

**AKA**

**HYDROGEN SUPER HIGHWAY**

**INKSTER AND DETROIT METRO AIRPORT**

**VARIOUS ROUTES CONSIDERED**

**COST ESTIMATES BASED ON 1/2 SCALE SINGLE TRACK**

**THE LARGER THE SYSTEM THE FASTER THE ROI**

**OPTION A - 7.5 MILES**

**OPTION B - 9.0 MILES**

**OPTION C - 16 MILES**

**OPTION D - 24 MILES**

**OPTION E - 25 MILES\***

**REVISED JUNE 25<sup>TH</sup> 2024**

**AUTHORED, TYPESET & DESIGNED**

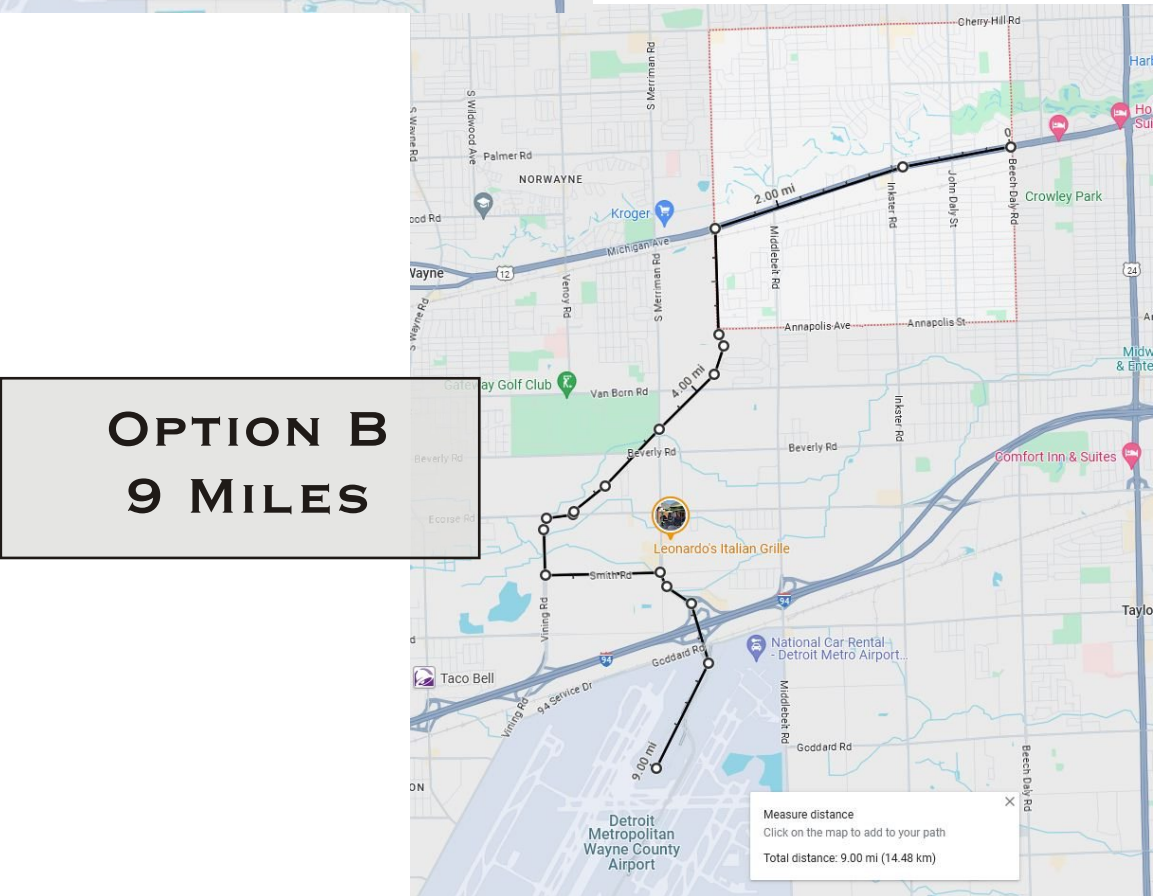
**BY**

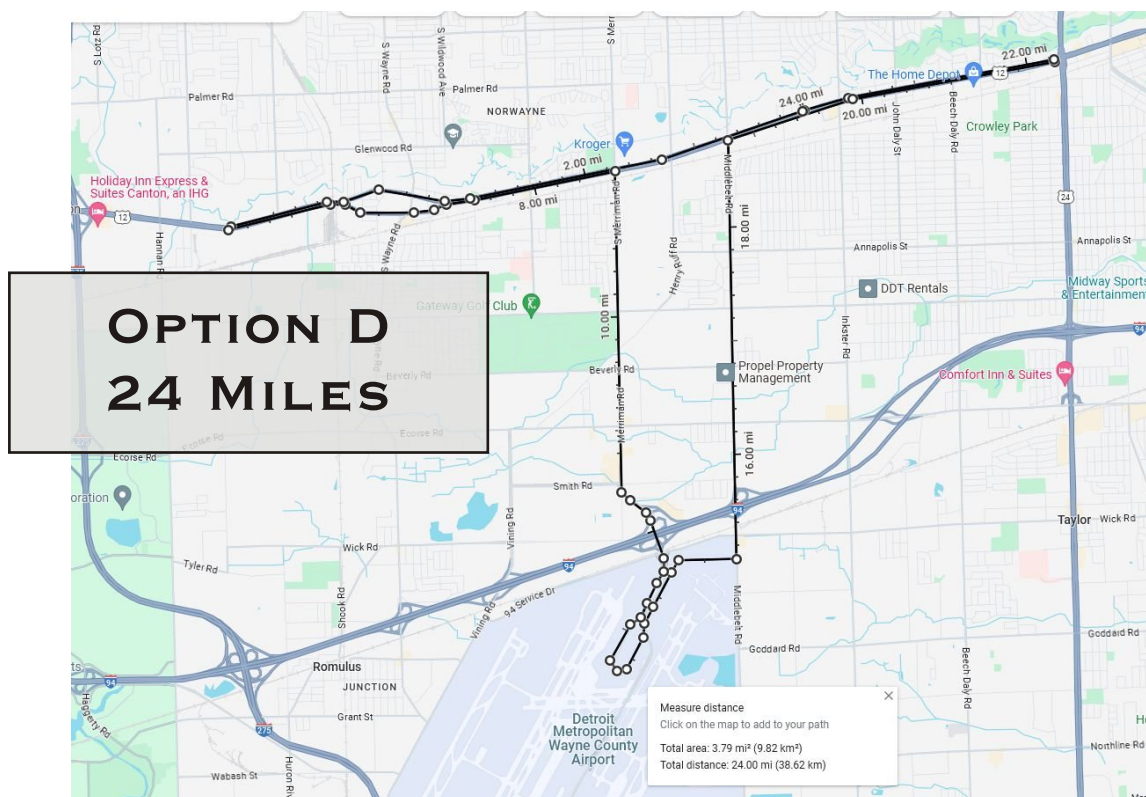
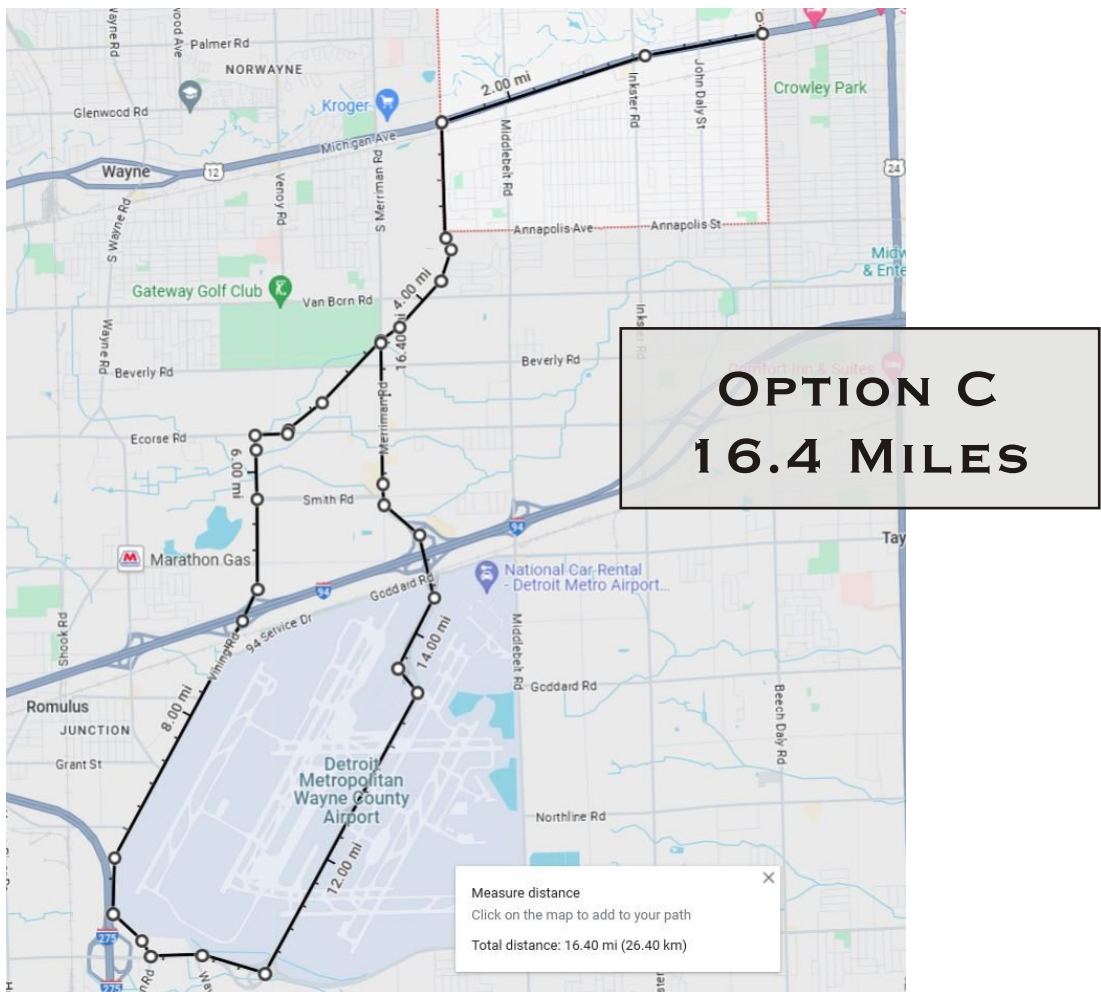
**JUSTIN ERIC SUTTON**

**MADE POSSIBLE BY THE SUPPORT OF**

**THE INTERSTATE TRAVELER COMPANY, LLC**

**ALL RIGHTS RESERVED**

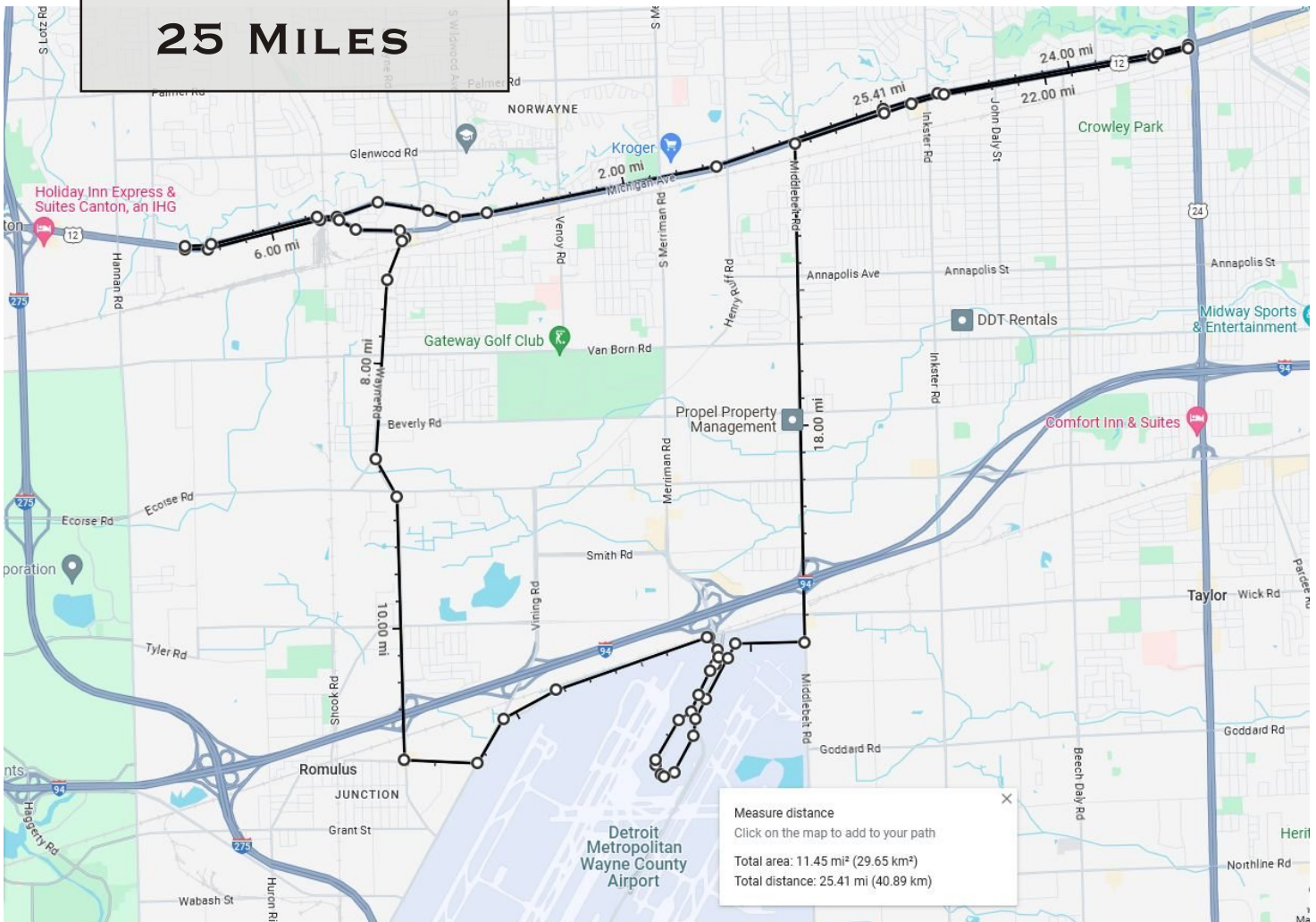


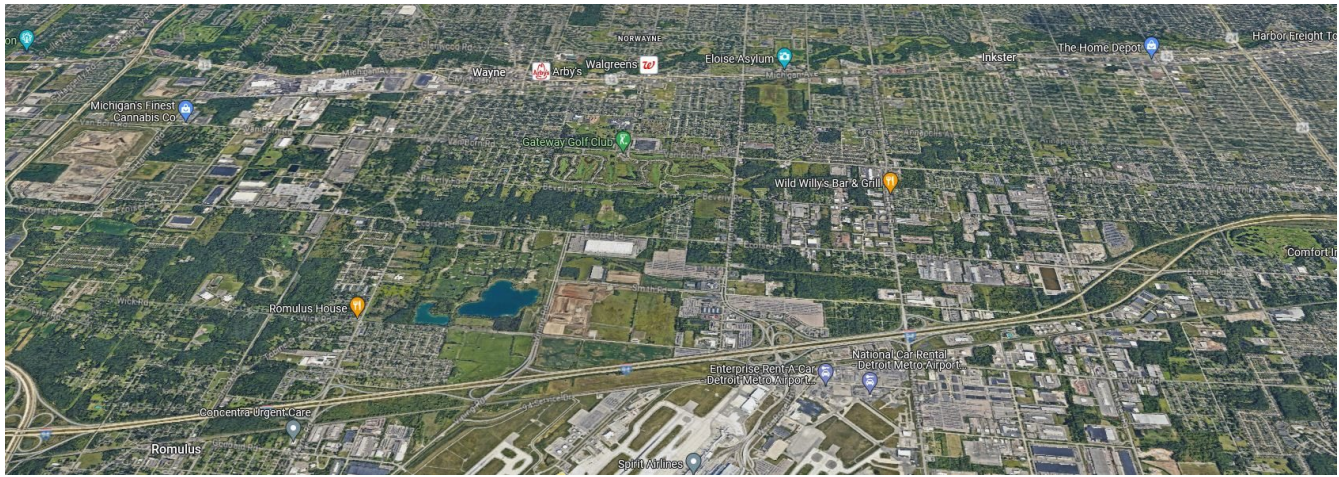




**25 MILE HALF-SCALE SINGLE TRACK**  
**22 STANDARD PEDESTRIAN STATIONS**  
**1 GRAND TERMINAL AT DTW**  
**1 COMMERCIAL STAGING AREA**  
**32 PEDESTRIAN TRANSPORTS**  
**1 MEDICAL TRANSPORTS**  
**\$555M**

**OPTION E**  
**25 MILES**





## Interstate Traveler Company, LLC

### Inkster to Detroit Metro Airport Half-Scale

KM Primary Right of Way 41 km

Edit Values in Yellow to Recalculate

Rail Scale 50%

### Project Summary and Analysis Tool

Total Miles (Including Side Track and Main Line)	28.60
Total Kilometers (Including Side Track and Main Line)	46.06
Total Pedestrian Passenger Transports	32
Total Simultaneous Passenger Capacity	1,280
Total Car Transports	0
Total Freight Transports	0

Total Square Feet of Solar (Rail) 1,208,202 pv-sqft

Total Area of PV in Acres: 27.74 /acres

Total Watts / Square Feet	20
Total Watts / Hour	24,164,034
Total Solar Hours	5
Total Watts per Day	120,820,170
Total Watts per Year	44,099,362,138
Total KW per Year	44,099,362
Average Value / Kw	\$0.10

Average Annual Kw Value: \$4,409,936.21 /year

Total H2 Production Per Year 881,987 Kg/Year (50kw/kg)

Total Cost for System	\$555,080,164.87
Projected Annual Revenue	\$75,491,340.00 (Farebox, Rent, Advertisin
Return on Investment (after operational 100% Rev)	7.35 Years
Return on Investment (after operational 50% Rev)	14.71 Years
Return on Investment ( 50% Rev +Startup Time )	15.74 Years
Public Share on Public ROW	50%

Projected Annual Income (Private) \$37,745,670.00

Projected Annual Public Share \$37,745,670.00

### Employment Projections for Hospitality, Concierge and Services

Total Expected Direct Employment 297 Fulltime Equivalent

22 Traveler Stations (Not Including Car Transport Ramps)
2 Lease Hold Business / Station
44 Total Business
3 Employees / Business
132 Total Employees in Traveler Stations
33 Transports on System
5 Concierge / Transport
165 Concierge Employees
297 Total Employees (estimated)

# Interstate Traveler Co. LLC

June 25, 2024

## Rail Installation Analysis

### Inkster to Detroit Metro Airport Half-Scale

41

KM Primary Right of Way

1 Mile = 5,280 feet

25.48 miles primary right of way

### Rail and Utility Substation Costs/Kilometer

50% Scale

Qty	Units	Description	Cost	Amount	Notes
4	Kilometer	AMSC HTS Super Conductor Wire	\$120,000.00	\$480,000.00	
2	Kilometer	Solar Panel 72" wide x 1 Kilometer long	\$871,948.00	\$1,743,896.00	
2	Kilometer	Concrete 3'x3' x 12' concrete Piers	\$0.00	\$0.00	
2	Kilometer	Steel for Rail Tubing / Stanchion / Central Support	\$1,273,532.80	\$2,547,065.60	
33	Kilometer	Supplemental Conduit	\$3,278.00	\$108,174.00	
2	Kilometer	Fiber Optics	\$16,000.00	\$32,000.00	
0.25	Units/Kilometer	Full Function Utility Substation	\$3,000,000.00	\$750,000.00	
1	Labor/Kilometer	100 people working simultaneously / 1 week	\$100,000.00	\$100,000.00	
5	Kilometer	Site work / demolition / adjustment to overhead lines	\$100,000.00	\$500,000.00	
9	Kilometer / pair of rails	Solid-state Magnets	\$655,600.00	\$5,900,400.00	
HSH Elevated Rail Structure + Fractional Utility Substation Costs / Kilometer - Full Scale Subtotal				\$12,161,535.60	
Scaled Price				\$6,080,767.80	
Section Length (Feet)				88	
Cost per Lineal Foot				\$1,855.02	
Cost per Section				\$163,242.09	

### Traveler Stations

Qty	Units	Description	Cost	Amount	Notes
0	Each	Grand Terminal Stations	\$80,000,000.00	\$0.00	
0	Each	"Traveler Station"	\$4,500,000.00	\$0.00	
0	Each	Car Ramp for Car Ferry w/ Parking Structure	\$1,200,000.00	\$0.00	
0	Each	Air and Sea Port Construction / Integration	\$90,000,000.00	\$0.00	
0	Kilometer	Sidetrack to access Traveler Stations (.23KM/Station)	\$6,080,767.80	\$0.00	
0	Kilometer	HSH Service Station + Staging Area Budget	\$17,000,000.00	\$0.00	
0	Each	Basic Access Point, parking, freight access, etc	\$500,000.00	\$0.00	
				\$0.00	

### Transports

Qty	Units	Description	Cost	Amount	Notes
0	Each	Grand Public Car	\$8,000,000.00	\$0.00	
0	Each	Commuter Public Car	\$2,000,000.00	\$0.00	
0	Each	Freight Car - ISO 40' Container Flatbed	\$1,500,000.00	\$0.00	
0	Each	Car Ferry for Automobiles and Palletized Freight	\$1,500,000.00	\$0.00	
0	Each	Medical Transport - Mobile ICU	\$5,000,000.00	\$0.00	

### Rail Installation Check List

20 Enter Watts/SqFt value for Solar Panels here

Qty	Units	Description	Cost	Amount	Notes
41.00	Kilometer	Primary Right of Way	\$6,080,767.80	\$249,311,479.80	
5.06	Kilometer	Sidetrack to access Traveler Stations (.23KM/Station)	\$6,080,767.80	\$30,768,685.07	
25.48	Miles	Essential Lineal Parallel Track			
Stations and Terminals					
-	Each	Grand Terminal Stations	\$80,000,000.00	\$0.00	
22	Each	"Traveler Station"	\$4,500,000.00	\$99,000,000.00	
-	Each	Car Ramp for Car Ferry w/ Parking Structure	\$1,200,000.00	\$0.00	
-	Each	Basic Access Point, parking, freight access, etc	\$500,000.00	\$0.00	
1	Each	HSH Service Station + Staging Area Budget	\$17,000,000.00	\$17,000,000.00	
1	Each	Air and Sea Port Construction / Integration	\$90,000,000.00	\$90,000,000.00	
Transports					
-	Each	Grand Public Car (GPC)	\$8,000,000.00	\$0.00	
32	Each	Commuter Public Car	\$2,000,000.00	\$64,000,000.00	
-	Each	Freight Car - ISO 40' Container Flatbed	\$1,500,000.00	\$0.00	
-	Each	Car Ferry for Automobiles and Palletized Freight	\$1,500,000.00	\$0.00	
1	Each	Medical Transport - Mobile ICU	\$5,000,000.00	\$5,000,000.00	
32	Total Commuter Cars	Total Cost for Interstate Traveler Installation		\$555,080,164.87	
-	Total Car Ferry	Cost of Steel at 1200 dollars per ton at 30 tons per section		\$90,615,127.68	20%
32	Total Transports	Balance		\$464,465,037.19	84%
22	Total Stations				
1.50	Total Cars / Station				
46.1	Total Kilometers				
28.6	Total Miles				
0.432	Stations / Essential Lineal Mile				
1.26	Cars/mile				
33	Total Cars				
Cost per Kilometer Complete System				\$12,051,241.10	
Cost per Mile Complete System				\$19,406,185.34	

<b>Interstate Traveler Co. LLC</b>		June 25, 2024	
<b>Return on Investment</b>		<b>41.00</b>	KM Primary Right of Way
<b>Inkster to Detroit Metro Airport Half-Scale</b>		25.48	Miles Primary Right of Way
Rail Return On Investment via Fairbox Collections, Freight, Rent, Advertising		50%	Rail Scale
Grow budget by X percent:		0%	
Primary ROW + Side Track (Miles)		28.60	Total Miles of Track
Primary ROW + Side Track (Kilometers)		46.06	Total KM of Track
Steps:			
1	Passenger Fee / Minute	\$1.00	
2	Car Transport Fee / Minute	\$0.00	
3	Freight Fee / Ton Mile	\$0.00	Ton Mile
4	Total Tonnage Per Freight Transport	0	Tons
5	Average Distance in Miles per Ton on Freight	1	Miles
6	Number of Freight Cars	0	
7	Total Simultaneous Capacity in Tonnage	0	
8	Total Ton / Mile in Freight @ 1 Miles	0	Ton/Miles Per Day
9	Freight Transports Total Projected Use Annually	-	Ton/Miles per Year
10	Average Freight Delivery Time of 1 Miles @ 88MPH	0.01	Hours
11	Total Number of Freight 0.01 Hour Time Blocks / Day	0	Time Blocks Per Day
12	Freight Transports Projected Use as an Average over 24 hours	0%	Percent of Capacity
13	Number of Pedestrian Transports	32	
14	Passengers Per Car	40	People
15	Average Time of Trip for Pedestrian	8	Minutes
16	Total Simultaneous Capacity (Pedestrians Only)	1,280	
17	Total Number of 8 Minute Time Blocks / Day	180	
18	Total Daily Capacity (Average Time * Total Capacity)	230,400	
19	Pedestrian Projected Use as an Average over 24 hours	10%	Percent of Capacity
20	Pedestrian Total Projected Use Daily	23,040	Rides
21	Pedestrian Total Projected Use Hourly	960	
22	Pedestrian Total Projected Revenue Daily	\$184,320.00	
23	Pedestrian Total Projected Use Annually	8,409,600	Rides
24	Pedestrian Total Projected Revenue Annually	\$67,276,800.00	
25	Number of Car Transports	0	
26	Average Time of Trip for Car Transport	1	Minutes
27	Total Number of 1 Minute Time Blocks / Day	1,440	
28	Car Transports Projected Use as an Average over 24 hours	0%	Percent of Capacity
29	Car Transports Total Projected Use Daily	-	Rides
30	Car Transports Total Projected Revenue Daily	\$0.00	
31	Car Transports Total Projected Use Annually	-	Rides
32	Car Transports Total Projected Revenue Annually	\$0.00	
33	Pedestrian Revenue / Trip / Single Pedestrian at \$1 /minute for 8 minutes	\$8.00	Fee For Use on a Trip
34	Car Transports Revenue / Trip / Single Car Transport at \$0 /minute for 1 minutes	\$0.00	Fee For Use on a Trip
35	Efficiency Average Speed Traveled	88	Miles per hour
36	Efficiency Possible Distance Covered Traveling at 88mph for 8 minutes	11.7	Miles (Pedestrian)
37	<b>Relative Cost Per Mile Traveled for Pedestrian</b>	<b>\$0.68</b>	<b>Dollars / Mile</b>
38	Revenue All Transports/ Annually	\$67,276,800.00	Annual
39	Revenue for all Freight Transports	\$0.00	Annual
40	Advertising Revenue Calculations	\$5,574,540.00	Annual
41	Rent Revenue Calculations	\$2,640,000.00	Annual
<b>Total Annual Revenue for All Transports / Advertising / Rent</b>		<b>\$75,491,340.00</b>	Annual
Budget>> Cost for Installation for 28.61 miles		\$555,080,164.87	Cost
Total Projected Annual Revenue		\$75,491,340.00	Annual Revenue
Return on Investment at 100% of Revenue		7.35	ROI in Years if appeared overnight
Enter Debt Service Fund Percentage		50%	
Total Annual Debt Service Fund (P/P Partnership)		\$37,745,670.00	
Return on Investment using Debt Service Fund		14.71	Years

# Interstate Traveler Energy Calculator

Inkster to Detroit Metro Airport Half-Scale

1 watt-hour = 3.4121415 Btu

Enter Values in fields marked in Yellow

50% Rail Scale

## HSR Rail Combined Wattage Output of Two Parallel Tracks Combined

Mile	5,280	ft
Width (two parallel tracks combined)	8	ft
Area	42,240	SqFt/mile
Watts/SqFt ( Average 12 )	20	watts/SqFt
Total Watts	844,800	Watts/mile/hour
Total Solar Hours/day	5	Solar Hours/day
Total Watts/day/mile	4,224,000	watts/day/mile
Total Miles	28.6	miles
Total watts/day/all miles	120,820,170	Total watts/day/all miles
Total Watts/year	44,099,362,138	Total watts/year

## Traveler Stations Combined Wattage Output of Total Roof Mounted PV Grid

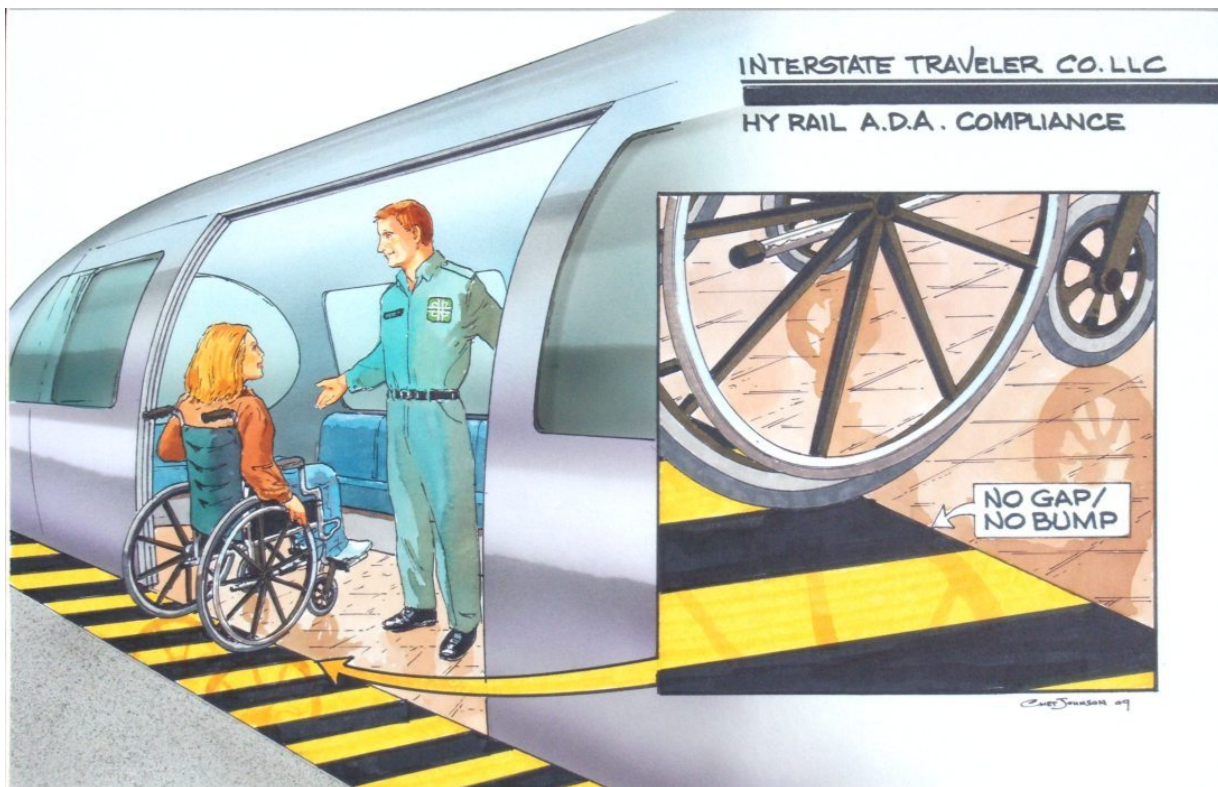
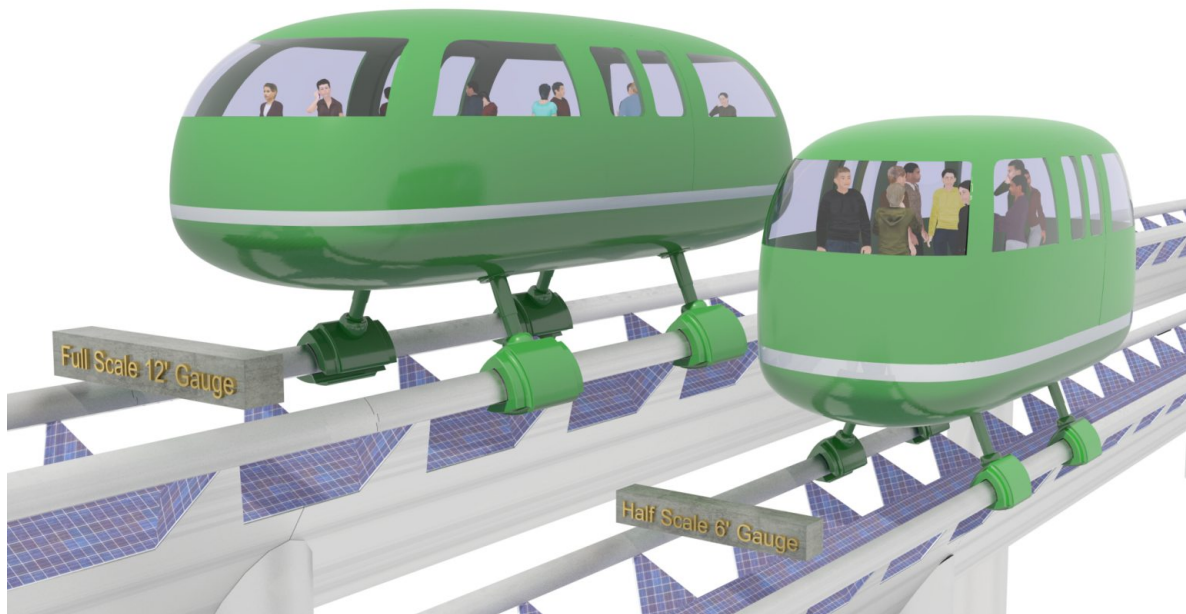
Total Traveler Stations	22	
Average Roof Size (PV)	10,000	SqFt Roof-mounted PV Grid
Minimum watts/SqFt	12	
Total Watts/hr/station	120,000	
Total Watts/hr/all stations	2,640,000	
Total Watts/day/all stations	13,200,000	
Total Watts/year/all stations	4,818,000,000	

## Transports Combined Wattage Output of Total Roof-Mounted PV Grid

Total Transports on System	32	
Total SqFt of roof area	160	SqFt of PV on Roof
Total SqFt all Transports	5,120	Total SqFt PV
Minimum watts/SqFt	22	
Total Solar Hours / Day	8	
Total Watts/hr/Transport	3,520	
Total Watts/hr/all Transports	112,640	
Total Watts/day/all Transports	901,120	
Total Watts/year/all Transports	328,908,800	

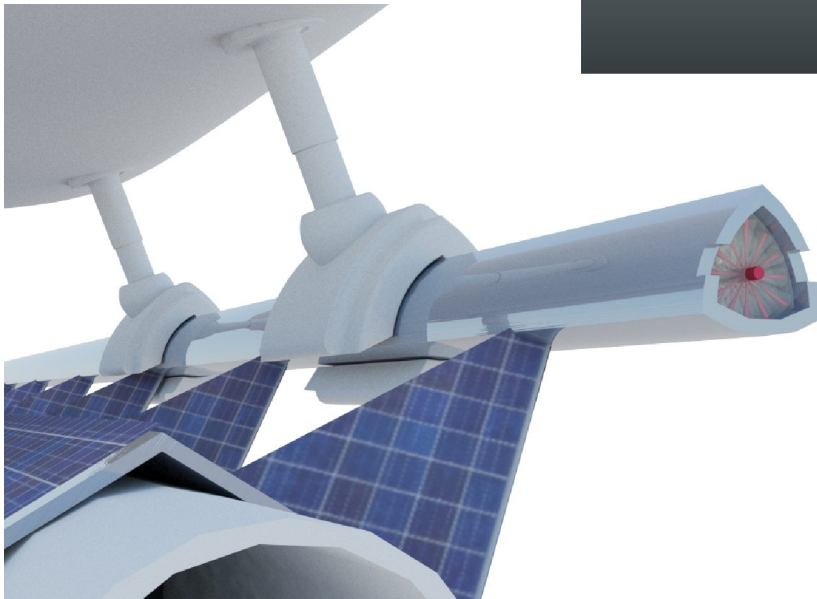
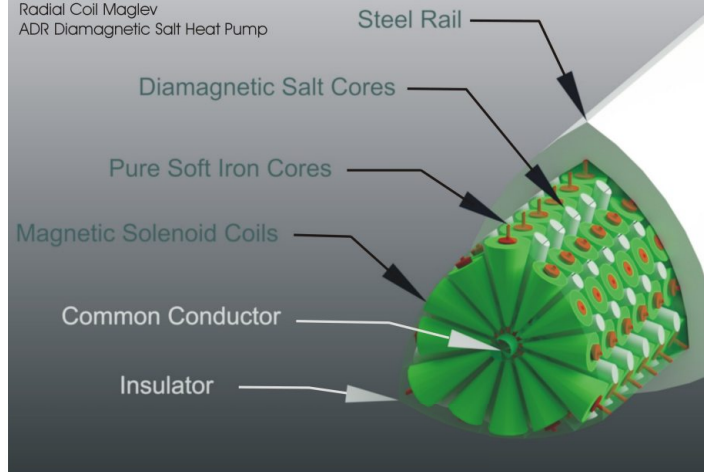
## Grand Totals of Rail + Stations + Transports + Roof PV Grid Combined

Total Watts/year	49,246,270,938	
Total Kilowatts/year	49,246,271	
Total Megawatts/year	49,246	
Total GigaWatts/year	49	
Total Terawatts/year	0	
Value of a Kilowatt	\$0.10	
Total Electrical Output Value	\$4,924,627.09	
Total BTU / Day	460,370,533.661	
Total BTU/year	168,035,244,786.429	
Total Quadrillion BTU/year	0.000	A unit called the <u>quad</u> (short for <u>quadrillion</u> ) is defined as $10^{15}$ BTU
Total watts/ncmh	4,200	watts/normal cubic meter of Hydrogen
Hydrogen mass/NCMH	100	grams/Nm3
Total Cu Meter Hydrogen/year	11,725,303	Total ncmh / year
Total mass of H2/year	1,172,530,260	grams
	1,172,530	kilograms
Gasoline Equivalent Units	1,172,530	Gasoline Equivalent Units 10ncmh/1Gal Gas

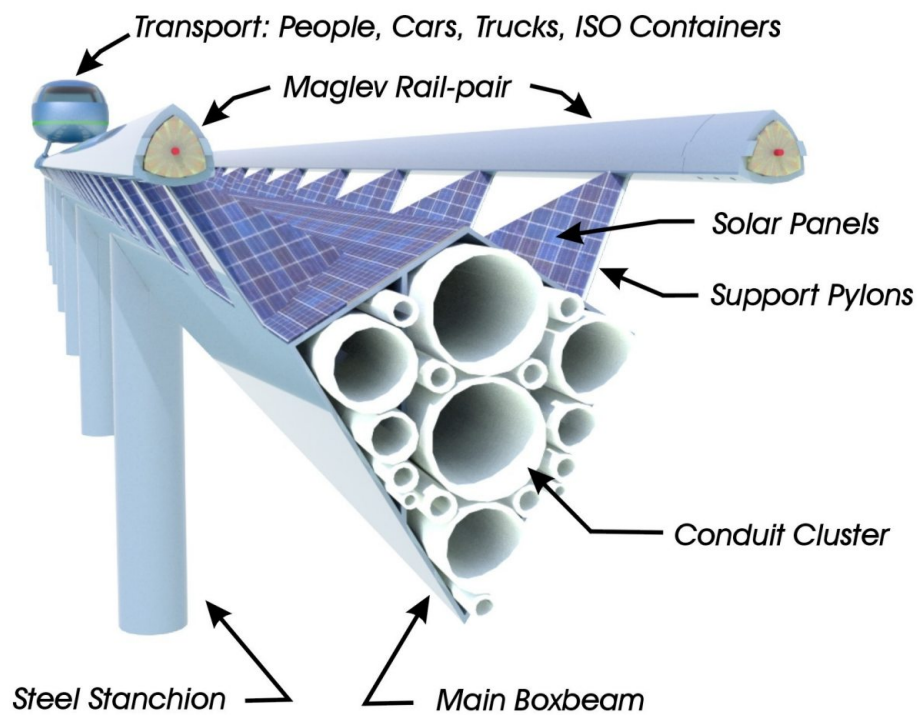


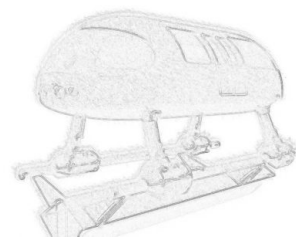
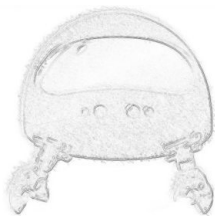
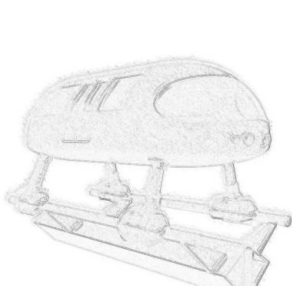
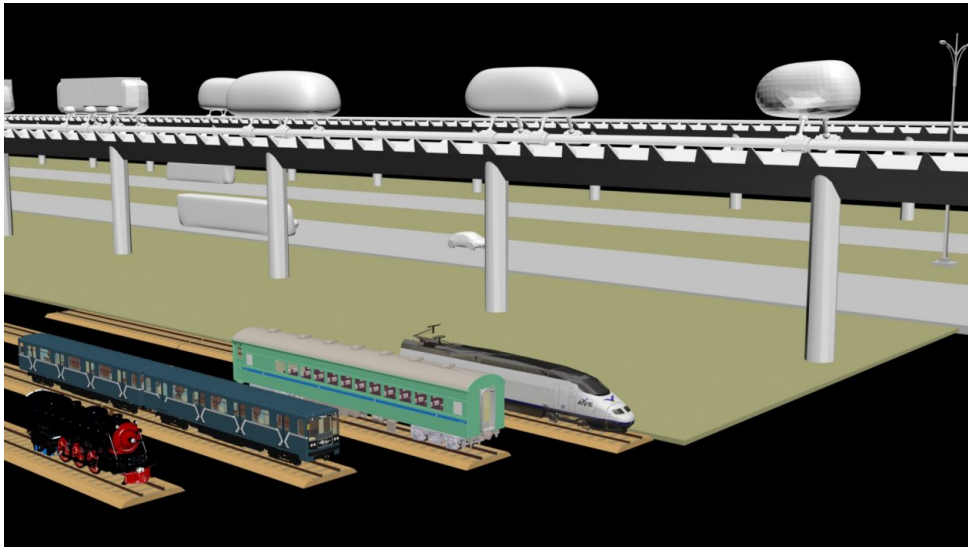


Interstate Traveler Company's  
*Hydrogen Super Highway*  
Radial Coil Maglev  
ADR Diamagnetic Salt Heat Pump



### HSH Elevated Rail System Cross-Sectional Diagram





Motor City Maglev  
Website  
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# HYDROGEN SUPER HIGHWAY

THE INTERSTATE TRAVELER COMPANY, LLC

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