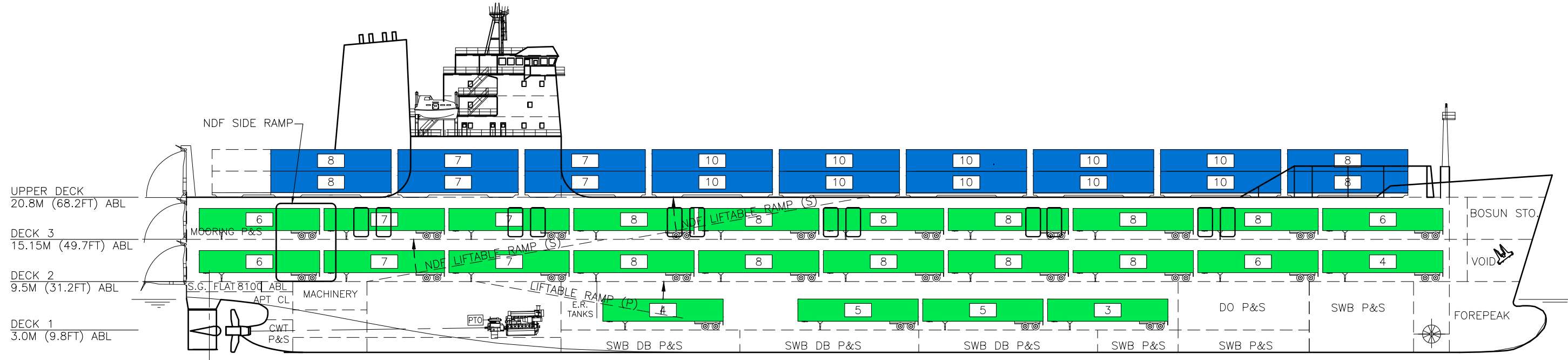


04 - AMH RoRo Medium 20kt SR



Principal Particulars

MAIN DIMENSIONS

Length, Over All	183.5 m	602.0 ft
Length, Between Perp.	175.0 m	574.1 ft
Beam	29.0 m	95.1 ft
Depth	20.8 m	68.2 ft
Design Draft	7.1 m	23.3 ft
Dwt. at Design Draft	10,601 MT	
Cb at Design Draft	0.63	

HULL PROPORTIONS

L/B	6.0
B/T	4.1
B/D	1.4
L/D	8.4

CARGO

	Wt/Unit	Full Load Quantity	Full Load Weight
53' Containers	22	160	3,520
53' Trailers	20	154	3,080
Cassettes	3.56	80	285
Total ‡		879 TEU	6,885 MT
Reefer Outlets	50		

FULL LOAD CONDITION

Cargo Weight	6,885 MT
Consumables (98%)	1,750 MT
Ballast	1,866 MT
Constant	100 MT
Lightship	12,729 MT
Displacement	23,330 MT
Estimated GM	1.0 m

PROPULSION

Suggested Engine	4xMAN 7L32/44CR 4xWartsila 7L32
Speed at design draft	20 knots
Operating Power	13,300 kW *
MCR	15,680 kW
RPM	720

RANGE & CONSUMPTION

M/E Fuel Consumption†	63.7 MT/Day
M/E & D/G Fuel (no reefers)	67.2 MT/Day
Range (MGO)	~10,000 nm
Range (LNG)	4,000 nm

TANK CAPACITIES

Marine Gas Oil	1,875 m ³
LNG (if provided)	1,425 m ³
Fresh Water	380 m ³
Ballast Water	TBD m ³

Legend:

 53' Trailer
 53' Container

Notes:

† Fuel Consumption is based on MGO at the operating power.
 LNG propulsion is an option and will require added storage tanks.
 ‡ Count assumes 2.8TEU/53' Trailer/Container
 * Operating power is at design speed and draft with 15% sea margin



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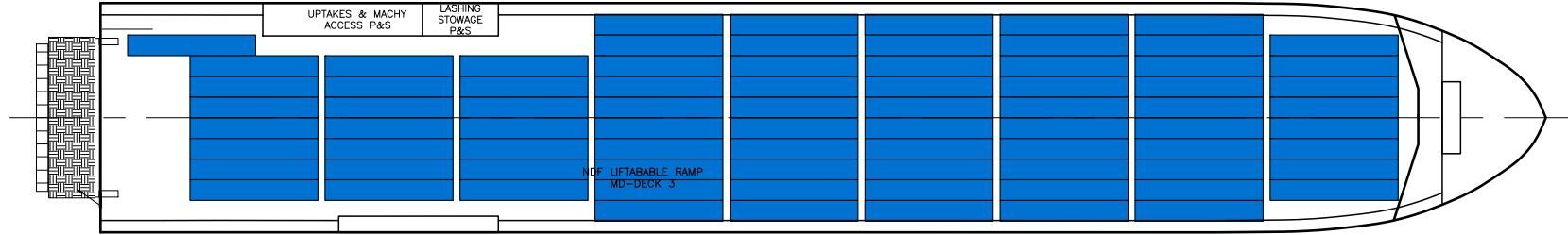
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AMERICAN MARINE HIGHWAY
 DESIGN CONCEPT

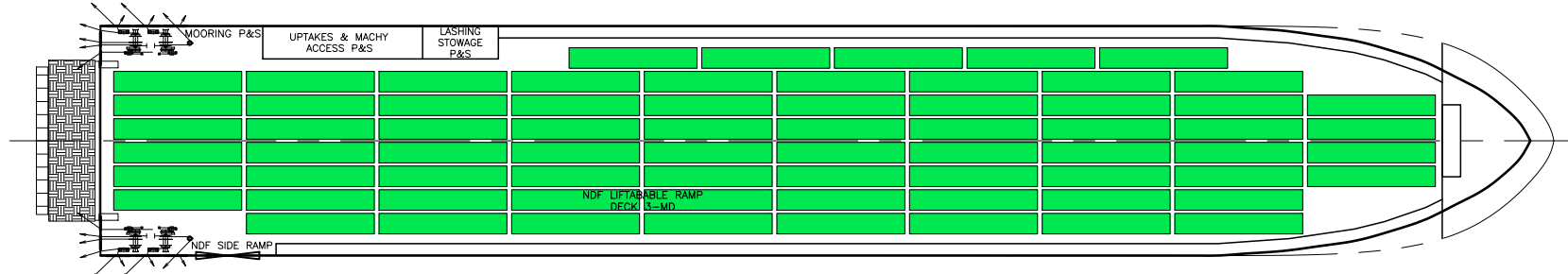
TYPE Medium 20kt SR
 CLASS RoRo

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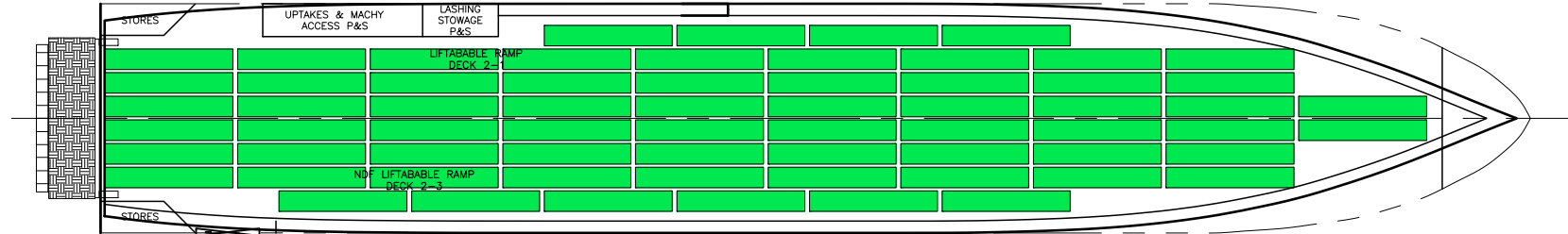
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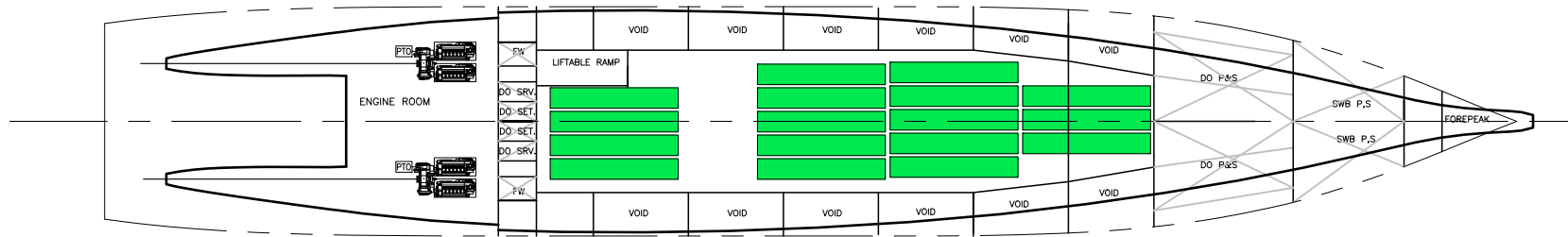
UPPER DECK
20.8M (68.2FT) ABL



DECK 3
15.15M (49.7FT) ABL



DECK 2
9.5M (31.2FT) ABL



DECK 1
3.0M (9.8FT) ABL

POSSIBLE LNG STORAGE TANKS
(IN PLACE OF TRAILERS)

RORO DECKS	HEIGHT OF DECK m	HEIGHT TO DECK ABOVE m	DEPTH OF STRUCT OF DECK ABOVE m	CLEAR HEIGHT FOR VEHICLES		NET AREA		LANE LENGTH		SAMPLE STOW		DECK STRENGTH	
				m	ft	m ²	ft ²	lane-m	lane-ft	# trailers	# containers	t/m ²	PSF
Upper Deck	20.8	open	-	-	-	4,145	44,616	1,213	3,980	-	160	1.25	250
Deck 3	15.15	5.65	1.2	4.45	14.6	4,100	44,131	1,218	3,996	71	-	1.5	300
Deck 2	9.5	5.65	1.2	4.45	14.6	3,905	42,032	1,124	3,688	66	-	2.0	400
Deck 1	2.0	7.5	1.2	6.3	20.7	1,275	13,724	357	1,171	17	-	1.5	300
Total						13,425	144,503	3,912	12,834	154	160		

Legend:

- 53' Trailer
- 53' Container



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AMERICAN MARINE HIGHWAY
DESIGN CONCEPT

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