



Università degli Studi di Napoli "*Parthenope*"

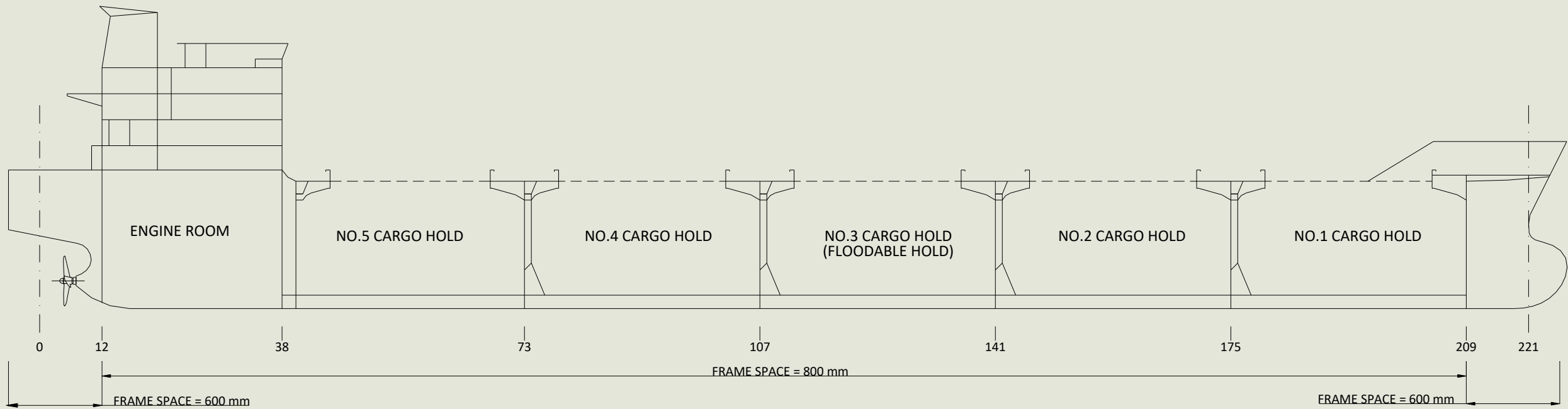
Dipartimento di Scienze e Tecnologie

Tecnologia delle costruzioni ed allestimento navale

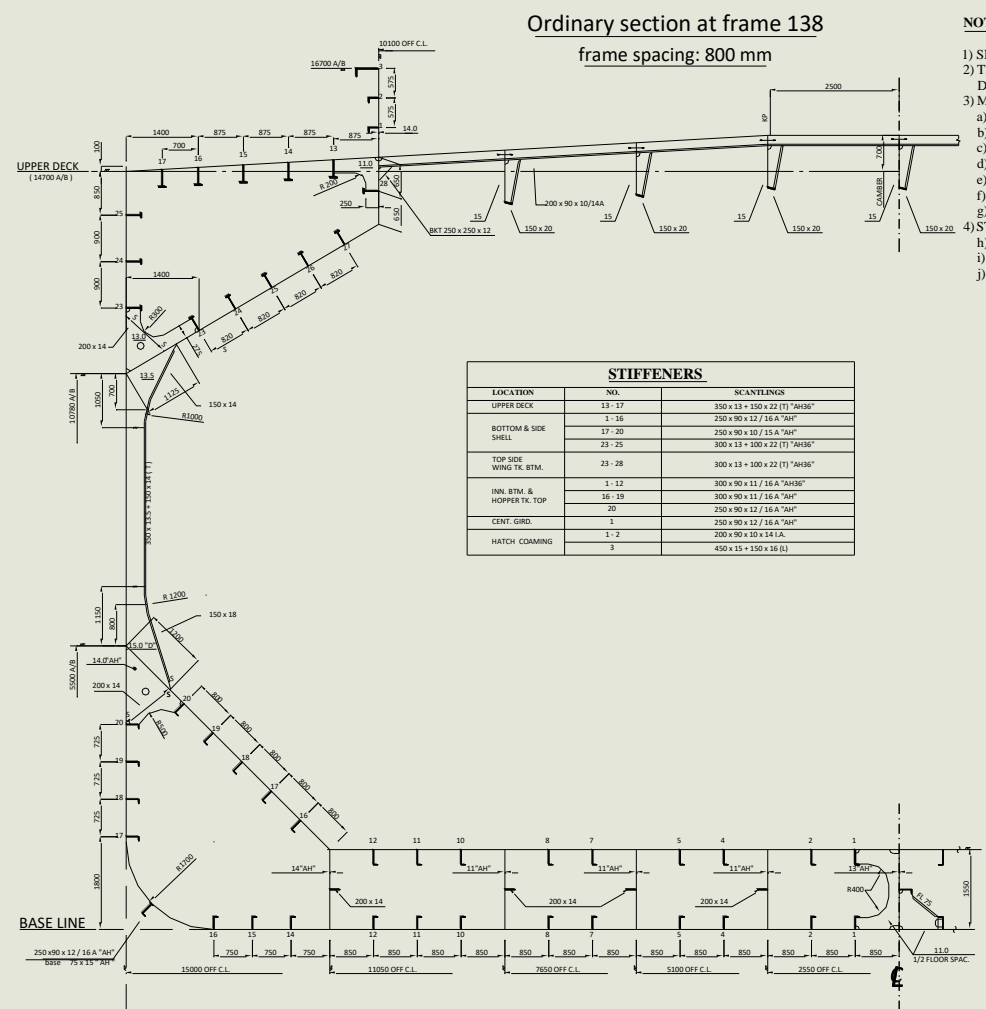
Vincenzo Piscopo

Analisi di dettaglio dei disegni strutturali di una nave bulk carrier – Parte I
Lezione 11 (22/48)

1.1 Vista longitudinale



1.2 Ordinata comune: vista di insieme



STIFFENERS		
LOCATION	NO.	SCANTLING
UPPER DECK	13 - 17	350 x 13 x 150 x 22 (T) "AH36"
BOTTOM & SIDE SHELL	1 - 16	250 x 90 x 12 / 16 A "AH"
	17 - 20	250 x 90 x 10 / 15 A "AH"
	23 - 25	300 x 13 x 300 x 22 (T) "AH36"
TOP SIDE WING TK. BTM.	23 - 28	300 x 15 x 100 x 22 (T) "AH36"
INN. BTM. & HOPPER TK. TOP	1 - 12	300 x 90 x 11 / 16 A "AH36"
	16 - 19	300 x 90 x 11 / 16 A "AH"
	20	250 x 90 x 12 / 16 A "AH"
CENT. GIRD.	1	250 x 90 x 12 / 16 A "AH"
HATCH COAMING	1 - 2	200 x 90 x 10 x 14 I.A.
	3	450 x 15 x 150 x 16 (L)

- NOTES:**
- 1) SIDES ARE SYMMETRIC UNLESS OTHERWISE SHOWN.
 - 2) THE PLANS, SECTIONS AND ELEVATIONS ARE SHOWN IN LOOKING DOWNWARD, FORWARD AND PORT RESPECTIVELY.
 - 3) MATERIAL:
 - a) NO MARKED STEEL: GRADE "A" MILD STEEL (Y = 235 N/mm²)
 - b) MARKED "D" : GRADE "D" MILD STEEL (Y = 235 N/mm²)
 - c) MARKED "AH" : GRADE "A" H.T. STEEL (Y = 315 N/mm²)
 - d) MARKED "DH" : GRADE "D" H.T. STEEL (Y = 315 N/mm²)
 - e) MARKED "AH36" : GRADE "A" H.T. STEEL (Y = 355 N/mm²)
 - f) MARKED "DH36" : GRADE "D" H.T. STEEL (Y = 355 N/mm²)
 - g) MARKED "EH36" : GRADE "E" H.T. STEEL (Y = 355 N/mm²)
 - 4) STIFFENER END CONNECTION:
 - h) S : END SNIPPED
 - i) B : BRACKET CONNECTION
 - j) NO MARKED (OR W): WELDED CONNECTION

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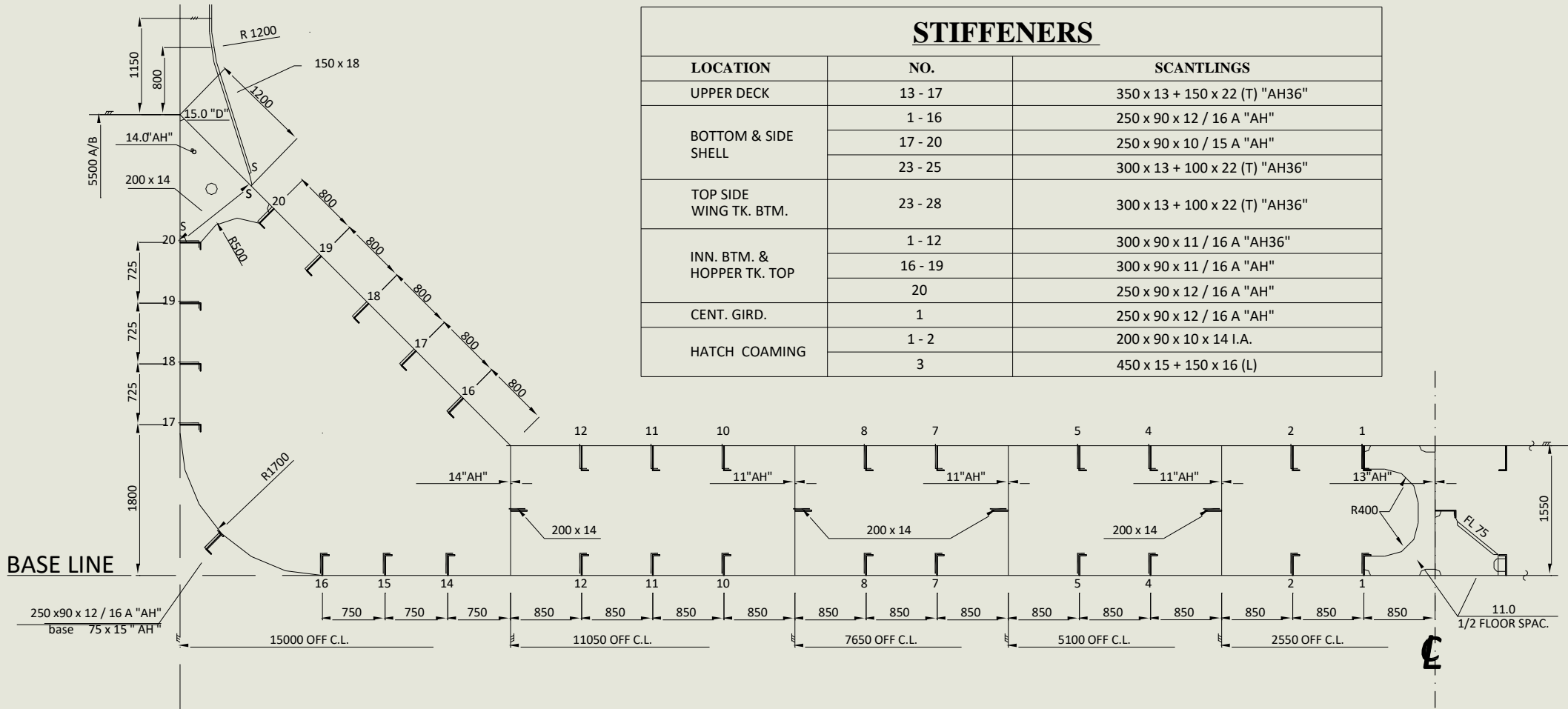
PRINCIPAL DIMENSIONS		
LENGTH	(B.P.)	172.00 M
LENGTH	(SCANTLING)	170.48 M
BREADTH	(MLD.)	30.00 M
DEPTH	(MLD.)	14.70 M
DRAUGHT MLD.	(DESIGN)	9.00 M
DRAUGHT MLD.	(SCANT.)	9.90 M
SERVICE SPEED		14.0 Knots

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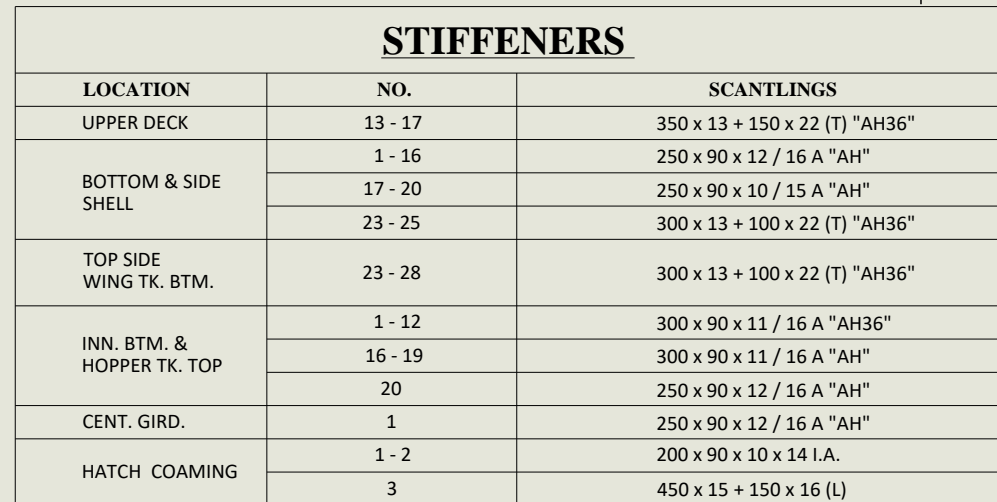
35,000 DWT CLASS BULK CARRIER
TYPICAL ORDINARY SECTION

35,000 DWT CLASS BULK CARRIER
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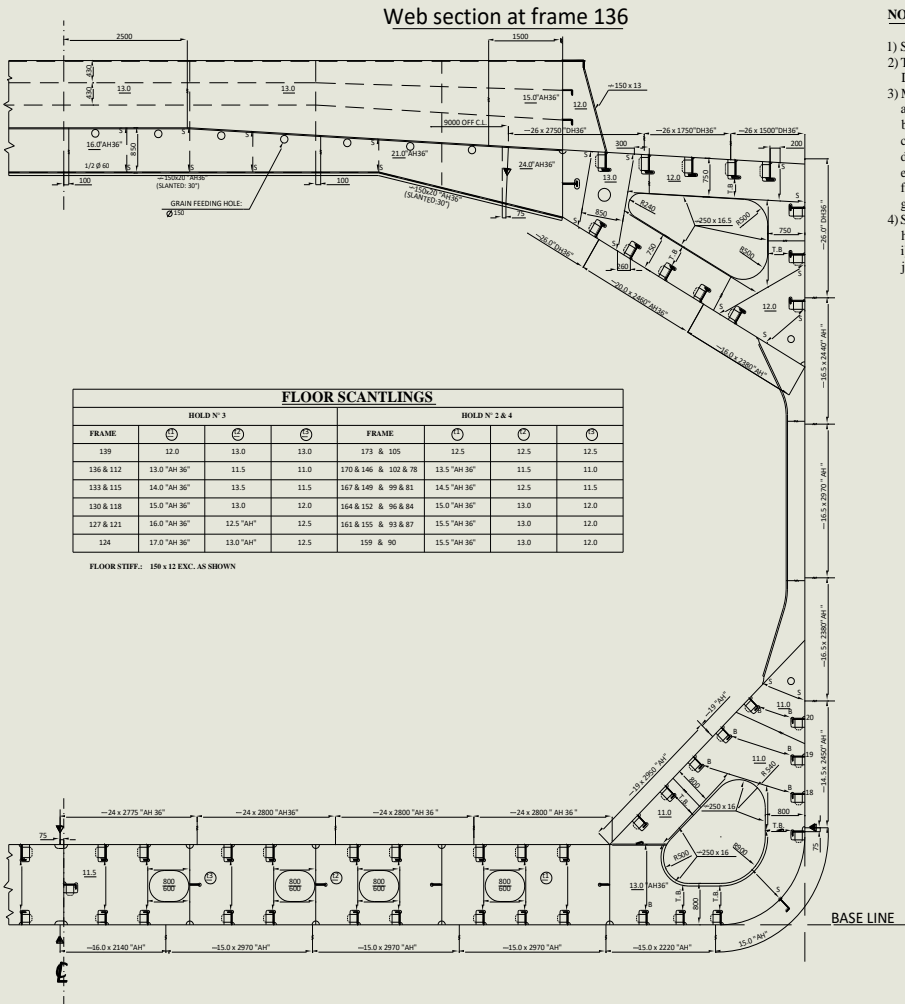
1.2 Ordinata comune: strutture del fondo



Ordinary section at frame 138
frame spacing: 800 mm



1.3 Ordinata rinforzata: vista di insieme



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FLOOR SCANTLINGS							
HOLD N° 3				HOLD N° 2 & 4			
FRAME	①	②	③	FRAME	①	②	③
139	12.0	13.0	13.0	173 & 105	12.5	12.5	12.5
136 & 112	13.0 "AH 36"	11.5	11.0	170 & 146 & 102 & 78	13.5 "AH 36"	11.5	11.0
133 & 115	14.0 "AH 36"	13.5	11.5	167 & 149 & 99 & 81	14.5 "AH 36"	12.5	11.5
130 & 118	15.0 "AH 36"	13.0	12.0	164 & 152 & 96 & 84	15.0 "AH 36"	13.0	12.0
127 & 121	16.0 "AH 36"	12.5 "AH"	12.5	161 & 155 & 93 & 87	15.5 "AH 36"	13.0	12.0
124	17.0 "AH 36"	13.0 "AH"	12.5	159 & 90	15.5 "AH 36"	13.0	12.0

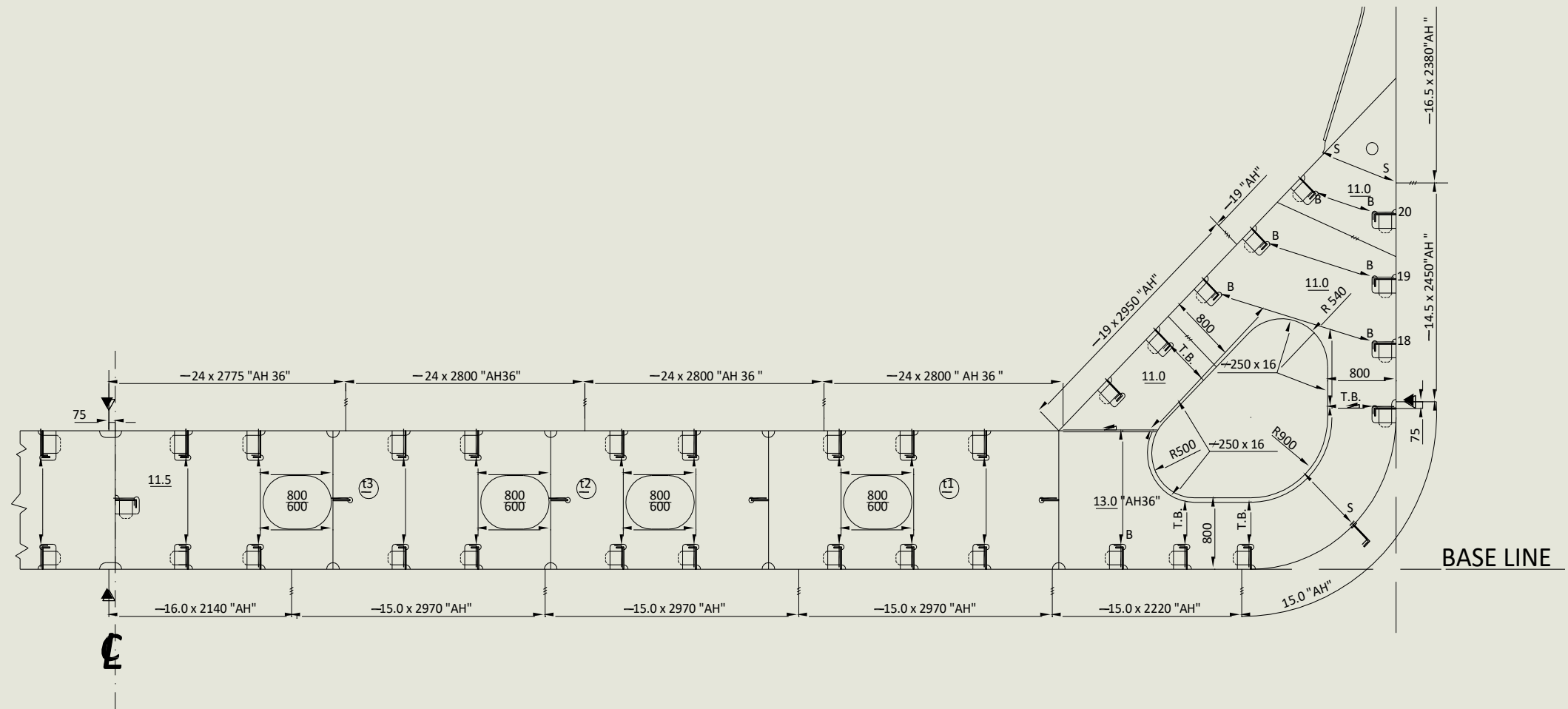
FLOOR STIFF.: 150 x 12 EXC. AS SHOWN

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BREADTH	(MLD.)	30.00 M
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SERVICE SPEED		14.0 Knots

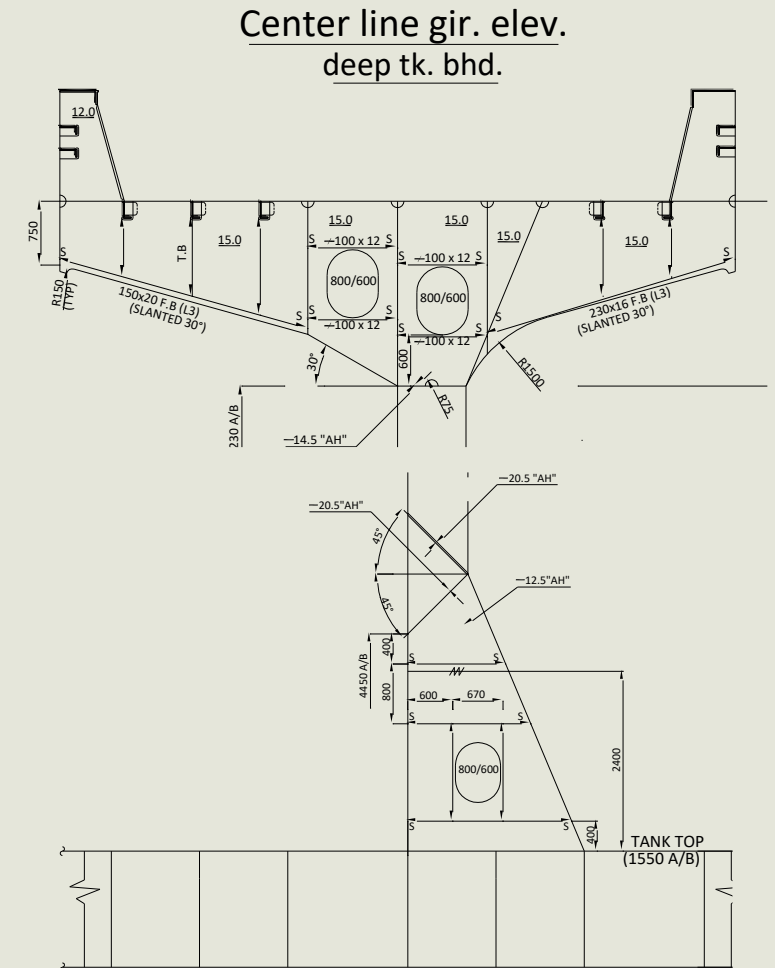
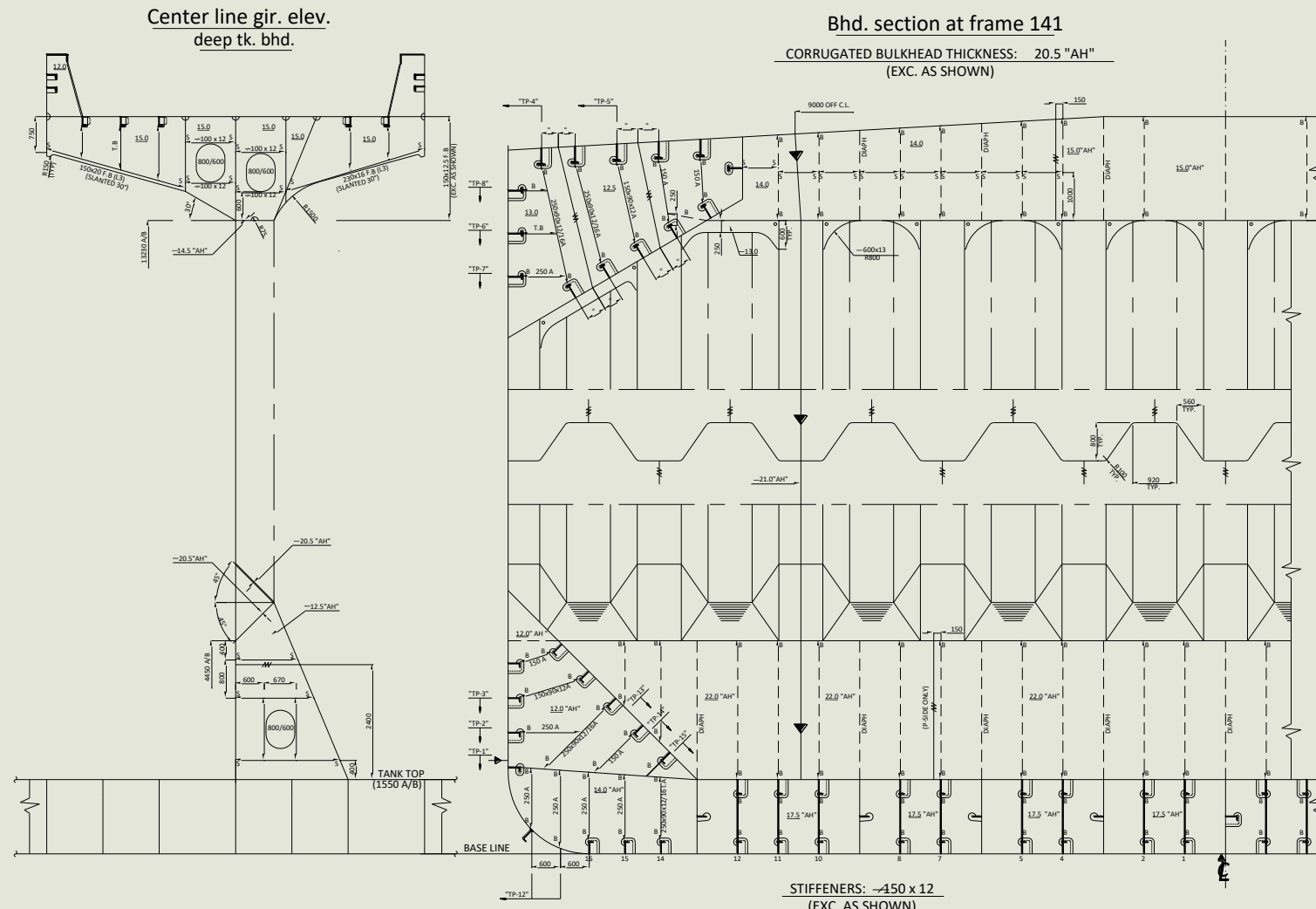
35,000 DWT CLASS BULK CARRIER

TYPICAL WEB SECTION

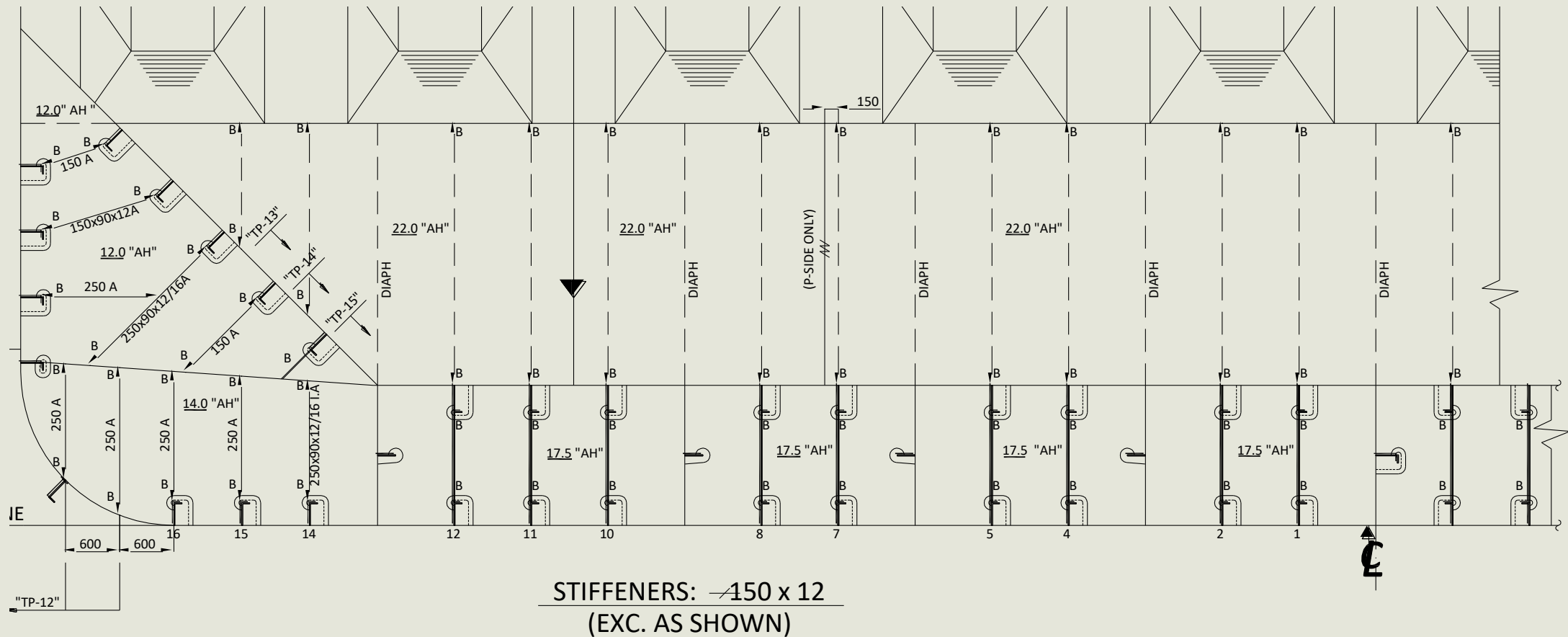
1.3 Ordinata rinforzata: strutture del fondo



1.4 Paratia corrugata: vista di insieme



1.4 Paratia corrugata: strutture del fondo



1.4 Paratia corrugata: strutture del ponte

Bhd. section at frame 141

CORRUGATED BULKHEAD THICKNESS: 20.5 "AH"
(EXC. AS SHOWN)

