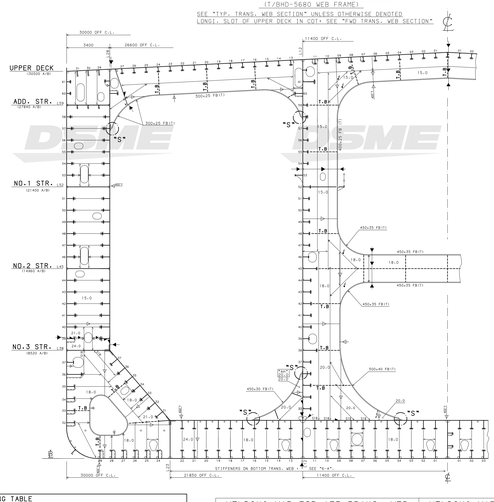
AFT TRANS. WEB SECTION

(T/BHD+5680 WEB FRAME)

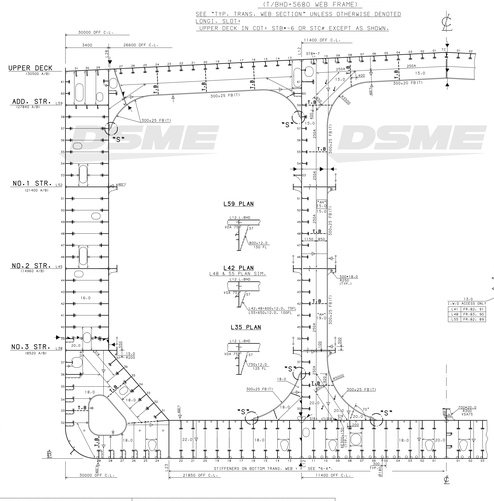
SEE "TYP. TRANS. WEB SECTION" UNLESS OTHERWISE DENOTED
LONGI. SLOT OF UPPER DECK IN CDT+ SEE "FWD TRANS. WEB SECTION"



FWD TRANS. WEB SECTION

(T/BHD+5680 WEB FRAME)

SEE "TYP. TRANS. WEB SECTION" UNLESS OTHERWISE DENOTED
LONGI. SLOT
UPPER DECK IN CDT+ STB+ OR STCK EXCEPT AS SHOWN.



CROSS TIE PLAN

TOE DET.

L40~L58 PLAN

L59 PLAN

L42 PLAN

L35 PLAN

L39 PLAN

D HOLE DET.

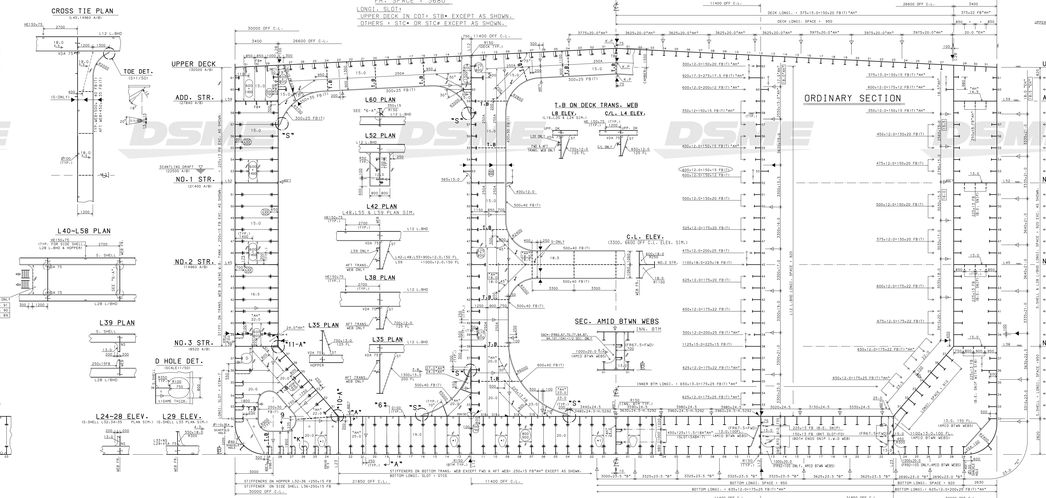
L24~28 ELEV.

L29 ELEV.

TYP. TRANS. WEB SECTION

FR. SPACE = 5680

LONGI. SLOT
UPPER DECK IN CDT+ STB+ EXCEPT AS SHOWN.
OTHERS : STCK OR STC# EXCEPT AS SHOWN.



L60 PLAN

L52 PLAN

L42 PLAN

L38 PLAN

L35 PLAN

T-B ON DECK TRANS. WEB

C.L. ELEV.

SEC. AMID BTWN WEBS

ORDINARY SECTION

GUNWALE DET.

BILGE KEEL DET.

DET "K"

PLAN "9-A"

*1 ACCESS HOLE DET.

SCALLOP DET.

ELEV. "6-A"
STIFFENERS ON D/B & HOPPER TRANS. WEB

WELDING TABLE

LOCATION			
LONG. MOD.			t1
BOTTOM & SIDE LONGITUDINALS	L1~L11,L17~L22		5.8
	L24~L28		6.8
	L29		6.5
SIDE SHELL LONGITUDINALS	AFT & FWD WEB	L1~L11,L17~L22	5.0
	L30,L35		6.3
	L34~L39,L59		6.0
	L37		6.5
	L40,L41		4.5
	L41~L42		4.3
	L39~L43,L60		4.0
INNER BOTTOM, HOPPER SLANTED & L28~L39HD	L1~L11		6.5
	L13~L22		6.5
	L31,L35~L36		6.5
	L30		6.0
	L35,L40~L41		4.5
	L36		5.3
	L37,L39		5.0
	L42		4.8
	L43,L61		4.5
	L44,L46		4.3
	L47~L60		4.0

LOCATION			
LONG. MOD.			t1
LONGITUDINALS	L30		6.0
	L34		5.8
	L35		4.5
	L36,L46		4.8
	L37		5.0
	L38,L43~L45, L49,L53,L54~L61		3.5
	L39		6.0
	L40,L41		4.3
	L43,L47		4.0
	L42		4.5
	AFT & FWD WEB		4.5
UPPER DECK LONGITUDINALS	L7, L9~L11		MIN.
	D/B C.L. 6th	L1~L2	5.3

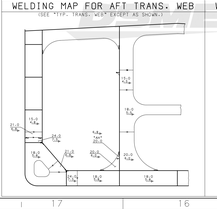
LOCATION		
L53		6.0
L54		5.8
L55		4.5
L56,L46		4.8
L57		5.0
L58,L59		3.5
L60	TO FACE X BHD	3.8
L61		4.0
UPPER DECK L7~L9	TO UPPER DECK	5.5

12 ~ 5-8 FOR 13mm & 17mm TOP STIFF.,
5-0 FOR 13mm TOP STIFF., BELOW NO.2 STR.
MIN. FOR 13mm TOP STIFF., ABOVE NO.2 STR.
MIN. FOR TRIPPING BRACKET

THE GREATER WELDING THROAT THICK. BETWEEN WELDING TABLE AND WELDING MAP TO BE APPLIED

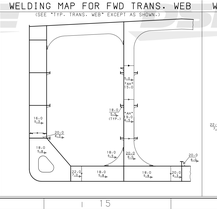
WELDING MAP FOR AFT TRANS. WEB

SEE "TYP. TRANS. WEB" EXCEPT AS SHOWN

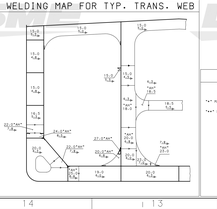


WELDING MAP FOR FWD TRANS. WEB

SEE "TYP. TRANS. WEB" EXCEPT AS SHOWN



WELDING MAP FOR TYP. TRANS. WEB



DET. "S"

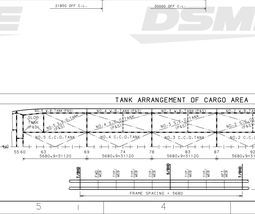
DET. "11-A"

DET. "10-A"

TYP.

TRANS. WEB + 300 MM ONLY

TANK ARRANGEMENT OF CARGO AREA



PLAN HISTORY

DATE	REV.NO	DESCRIPTION	DWN	CHKD	APPD
2006-12-15	0	SUBMITTED TO OWNER & CLASS FOR APPROVAL.	정태환	김성일	김성일
2007-01-25	A	ISSUED FOR BIDDING.	정태환	김성일	김성일
2007-05-29	1	ISSUED FOR CONSTRUCTION. *REVISED AS CLASS W/R COMMENTS(NO.A, 2007-02-23). *APPROVED BY CLASS W/R COMMENTS(NO.A, 2007-02-05).	강태준	김성일	김성일
2007-05-16	2	*REVISED ACC. TO CLASS W/R COMMENTS(NO.1, 2007-04-18). SUBMITTED TO OWNER & CLASS FOR APPROVAL.	강태준	김성일	김성일
2007-05-16	3	ISSUED FOR REVISION. *APPROVED BY OWNER W/R COMMENTS(NO.1, 2007-05-11). *APPROVED BY CLASS W/R COMMENTS(NO.3, 2007-05-02).	강태준	김성일	김성일
2007-05-16	A1	PARTIAL REVISION (DRAWING NO. INCORPORATED).	김기범	P.T.PARK	L.S.OH
2007-05-16	A2	PARTIAL REVISION (DRAWING NO. INCORPORATED).	김기범	P.T.PARK	L.S.OH
2007-05-16	A3	SUBMITTED TO OWNER & CLASS FOR REFERENCE.	김기범	P.T.PARK	L.S.OH
2007-05-16	A4	ISSUED AS FINISHED PLAN (No.5292)	김기범	P.T.PARK	L.S.OH

PRINCIPAL DIMENSION

LENGTH	O.A	approx.	333.0 m
LENGTH	B.P		320.0 m
BREADTH	MOULDED		60.0 m
DEPTH	MOULDED		30.5 m
DRAUGHT	DESIGN		21.0 m
DRAUGHT	SCANT.		22.5 m

CLASSIFICATION

Det Norske Veritas
⊕1A1, "Tanker for Oil ESP", EO, NAUTICUS(Newbuilding), PLUS-1, NAUT-OC, SPM, VCS-2, TMON, BIS.

NOTES

1. GRADES OF STEEL ARE AS FOLLOWS:(*: MARKED ON DRAWING, GRADE "A","B","D","AH32","DH32","EH32").
   a) ALL MARKED * SHALL BE "AH32".
   b) OTHER STEEL SHALL NOT BE LESS THAN GRADE "A".
2. FILLET WELDING SHALL BE AS FOLLOWS:
   a) CARGO TANKS ARE SHOWN ON DRAWING. 5.0t
   b) CARGO TANKS OR WATER BALLAST TANKS BELOW EACH TANK TOP 0.7D
   c) WATER BALLAST TANKS OR SIMILAR. 5.0t
   d) WATER BALLAST TANKS WITHIN 0.1D BELOW EACH TANK TOP 0.7D
   e) OTHER WATER BALLAST TANKS AND SIMILAR SPACES. 4.5t
   f) FOR PLANE, UNI-DIRECTIONAL STIFFENERS AND SIGNAL OR LONGITUDINAL BRACKETS FORWARD AND TO PORT RESPECTIVELY. 4.0t
   g) FOR PLANE, BI-DIRECTIONAL STIFFENERS AND BRACKETS IN THIS DRAWING MAY BE ALTERED ACCORDING TO CLASSIFICATION SOCIETY'S RULES ON THIS DRAWING. 4.0t
   h) SCANTLINGS ON THIS DRAWING MAY BE ALTERED ACCORDING TO FURTHER CALCULATIONS BY CLASSIFICATION SOCIETY'S RULES. 4.0t
   i) FOR DETAILED END SNIPING ON COLLISION BULKHEAD, SEE "STRUCTURAL DETAILS FOR HULL CONSTRUCTION"-1. 4.0t
   j) FOR DETAILED END SNIPING ON STIFFENERS:
   ---: SNIPED END, ---: WELDED END, ---: WELDED END, ---: WELDED END.
3. STIFFENER SYMBOL:
   a) ---: FACE PLATE, ---: FLAT PLATE, ---: L-BULB FLAT PLATE, ---: T-BULB FLAT PLATE, ---: L-ANGLE FLAT PLATE, ---: T-ANGLE FLAT PLATE, ---: L-BULB FLAT PLATE, ---: T-BULB FLAT PLATE.
   b) ---: MARKED * : PARTIAL PENETRATION WELDING.
4. ALL BRACKET TOES SHALL BE SOFTENED AS FOLLOWS:
   a) MILD STEEL : CAPACITY(MM)=(W.M.P.A.)-(W.S.P.A.)*0.5*(STIFFENER SPACING, MM)
   b) FILLET STRENGTH OF WELD DEFINITE : STD N/mm²
5. ALL BRACKETS SHALL BE CONNECTED TO ADJACENT PLATING WELDED.
6. BOTTOM LONGI. STRENGTH CONTINUITY : SHALL BE MAINTAINED.
7. DESIGN DETAILS AT LONGI. STIFFENER END CONNECTIONS TO CARGO OIL TANK BOUNDARIES AND LONGI. SUPPORT CONNECTION IN CARGO AREA:
   MIN. OF 10 MM'S RADIUS OR APPLICABLE OPERATING CRITERIA IN CN 30.7 WITH MIN. OF 10 MM'S RADIUS.
8. ENHANCED INSPECTION PROGRAMME (EIP) TO BE CARRIED OUT ACCORDING TO:
   a) NO MARKS : RAKES SURVEYORS REQUIREMENTS.
   b) MARKED * : ENHANCED SURVEY PROGRAMME ACCORDING TO OWNER'S CRITERIA.
   c) MARKED * : ENHANCED SURVEY PROGRAMME ACCORDING TO BULLETIN 97-OP-08.
9. DESIGN STILL WATER BENDING MOMENT : 2000KNM ---- SAGGING
   2000KNM ---- HOGGING
   SHEAR : L=0.2L 1.0 ---- 1200.0t/m
   L=0.2L ~ L=0.3L 1.0 ---- 1200.0t/m

승인	설계	도면
이사	부장	과장

설계책임자	
선체구조	1
중량중심	2
선체의장	3
선체의장(선수)	4
선체의장(선미)	5
선체의장(중앙)	6
선체의장(상부)	7
선체의장(하부)	8
선체의장(기타)	9
선체의장(기타)	10
선체의장(기타)	11
선체의장(기타)	12
선체의장(기타)	13
선체의장(기타)	14
선체의장(기타)	15
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선체의장(기타)	29
선체의장(기타)	30

수량	중량

검토	승인

1 ISSUED FOR APPROVAL
2 ISSUED FOR CONST
3 AS BUILT

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YARD NO.	5292/93/5307/08/09
APPD BY	김성일
CHKD BY	김성일(S.I Kim)
DWN BY	김성일(H.J Kim)

PROJECT: GMM 320,000 TDW CRUDE OIL TANKER

TITLE: MIDSHIP SECTION

DSME	HULL BASIC DESIGN TEAM
SCALE	1/100
DATE	2006-12-19
DWG NO.	5292DA200H001
SHEET	1

5292DA200H001-01

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